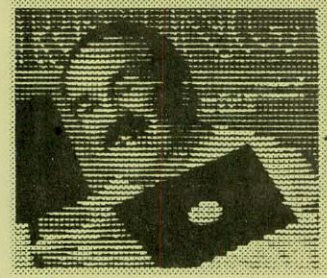
FrEdMail™ News

Free Educational Electronic Mail Network

Volume 3, Issue #1 **FrEdMail Central Project** *Spring 1989*



By Al Rogers

SDCOE SYSOP

Unzipping

the Latest in Educational TeleComputing Activities Around the Nation!

By Yvonne Marie Andres

OCNSIDE SYSOP

Questions & Answers about FrEdMail

1. What is the FrEdMail Network?
FrEdMail stands for "Free Educational Electronic Mail Network." It is a distributed electronic bulletin board network consisting of over ninety locally owned and operated systems across the country. During most of every day, each board operates as a stand-alone electronic bulletin board serving local callers. In addition, however, each board is linked by normal voice-grade telephone lines to other systems in the network. In the middle of the night, each board in the network comes alive and dials the boards with which it is linked, exchanging electronic mail and network-wide bulletins. In this fashion, users on one

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"FrEd" Etiquette

Electronic communications can be a frustrating experience for those who do not follow some simple rules of on-line etiquette. Listed below are several suggestions for telecommunicators. Your responses reflect your electronic personality, so when sending electronic messages keep the following in mind:

1. Answer all but brief messages off-line, save to disk and upload the file. In other words, get on-line and off-line as quickly as possible. This prevents tying up a busy bulletin board's phone line, and you have a copy of the message in case you must re-send it.

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Produced & Edited
By Yvonne Marie Andres
Oceanside Unified School District
Oceanside, CA
Voice 619 757-6060
Modem 619 757-3180

For Further Information:
Contact Al Rogers
Modem 619 292-1816

The FrEdMail Network: Linking Students & Educators From Coast to Coast

FrEd-Etiquette, CONTINUED FROM PAGE 1

2. Make your "Subject" as descriptive as possible. An example of a poor *Subject Header* is, "Replies." An example of a descriptive *Subject Header* is, "Soviet Students Reply."

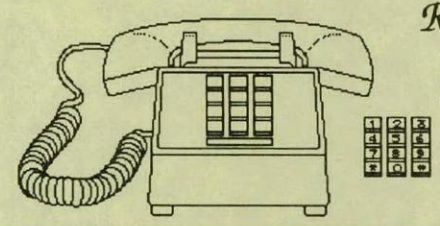
3. Always include who the message is going to (Dear John...). Sometimes email goes astray, and besides it's just polite to begin messages that way.

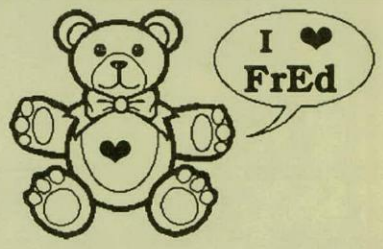
4. Always sign your name and the location from where you are calling. This is called your electronic signature and tells someone who does not know you, how to get in touch with you.

5. Always restate the question that you are answering. (Or, if possible, attach it. Some services have this option.) Many times by the time your message arrives, the original question has been forgotten. An example of a poor reply is, "I think your idea was good, let's do it." A better reply would be, "Your idea to have students exchange vacation stories is great. Let's begin on..."

6. Always acknowledge that you have received a file someone has sent you. Because this technology is not fool proof, some files never reach their destination. It is good manners and helpful to the sender, to let them know their file has arrived and is readable.

7. Check your email at least once a week for replies. Some users post questions or calls for collaboration, and then never check for replies. It's very frustrating to agree to participate in someone's project and then never hear from them again!





8. Delete your email once it has been read. It only clogs up the system by taking up space.

9. Don't send personal messages to conferences or digests. Conference mail costs additional money because it goes to so many destinations. Besides, personal replies in conferences are confusing to the other users.

10. Don't expect an answer back in less than 48 hours (especially from SysOps!). Unless there is an emergency deadline to meet, people don't check their email hourly, so give it a day to get there and a day for the reply to be sent back.

11. When sending a file, give as much information as possible (length of file, type of file, contents of file). This is helpful because it lets the receiver know how much disk space they will need, and how long it will take to retrieve the file. Someone once sent me a file that took 25 minutes to download at 1200 baud, when I had anticipated a one page article!

12. Private email is informal, so it's okay not to be too concerned about editing typing errors. This is similar to informal English, which is not always grammatically correct.

13. However, Conference & Digest email should be proof-read and edited, since so many users will be reading it, and because the message is likely to be posted for weeks at a time.

14. Of course, some rules are so obvious that it seems silly to state them. But, here they are anyway. Don't use language that is profane or offensive. Don't publically criticize other users!

(End)

Year Round FrEdMail In Cajon Valley, CA

By Chuck Abel
CABEL@CAJON

Cajon Valley School District is happy to be a part of the ever growing FrEdMail Network. While I'm sure we're not the most active node in the system, we have some project successes to report that actively involve students with telecommunications.

This past December teacher Pat Ryan and a group of 6th graders at Montgomery Middle School had a great time playing Santa to a group of K, first, and second graders in North Carolina. They answered 130 letters to Santa just before Christmas via FrEdMail. Our proud 6th graders even had a very nice article about their project in the Christmas Eve edition of the Daily Californian, our local newspaper.

Most recently, Ginny Robinson and her Special Education class at Cajon Valley Junior High, have begun corresponding with a group in Montana and another group in North Carolina about local geography (cultural as well as physical).

With fifteen of our district's twenty four schools scheduled to be on some form of year round school calendar by July of this year, the Cajon Valley School District FrEdMail system will be up and running non-stop through the summer. Our district is in a suburb of San Diego, California, and is growing rapidly. The year round schedules will allow us to house more children at each site than would be possible with a traditional school calendar. Three fourths of the students in a school attend at any one time, while one fourth is on vacation. Students don't extend their year; but each school site remains open throughout the year as the four attendance groups cycle in and out of school. If you are looking for summer collaborators we may be a place to try.

Last but not least, thanks to the dedicated SysOps and teachers across the country that make the FrEdMail Network the vital educational tool it has become. We're really an amazing bunch!!

20/20 FrEdVision

By George Beckman
GBECKMAN@MADERA

When George Lewis gave me a 1987 paper written by Al Rogers, I knew I had to be a part of FrEdMail. I couldn't believe the possibilities of such a scheme. I knew this Al must be a man of vision. So the following transpired:

1. Principal: I told Jack Netherton about FrEdMail and he asked how much I needed. I said I could squeak it out for five hundred. He said, "What else?" I knew Jack was a man of vision.
2. Spouse: I signed on three different boards (all long distance) and wrote messages to Bernie Dodge, Al Rogers, Bob Shayler and other people I didn't know. After our phone bills, my wife almost disowned me. She didn't. I knew Ruth was a woman of vision.
3. Users: For over a year I talked to everyone that would listen and some that wouldn't. People got varicose veins as I followed them to their car. Spreading the vision.
4. Yourself: I knew I could run this BBS, but needed to find out how to do it right. I went to Fall CUE in San Jose and listened every time a SysOp opened their mouth. I hovered about as Al talked to others. I cornered Sysop after Sysop, picking their brains about modems and hard drives. I sat in front in sessions dealing with telecommunications. After all, these were people of vision.

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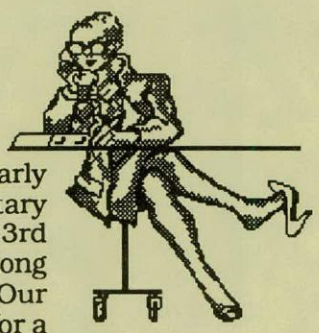
THE TEACHER PAL PROJECT, '89

FrEdMail Nodes: WSALEM & COOK
Winston-Salem, NC
By Tom Clauset, Project Coordinator



In November of 1988 we began requesting elementary teachers (particularly 4th & 5th grade) who might be interested in being 'teacher pals' with elementary teachers in our district. In January of 1989 we expanded our request to include 3rd grade teachers. After collecting over 30 teachers across the FrEdMail Network, along with about 30 local teachers, we launched into our TEACHER PAL PROJECT. Our goal was to provide local and distant FrEdMail teachers with a clear structure for a series of highly interesting and curriculum-centered exchanges and collaborations.

The first stage involved **TEACHER PAL** participants in a series of three informal exchanges about 1) who they are; 2) where they teach; and, 3) what their interests are with FrEdMail. Each teacher participating in the project was matched up with from ONE to THREE other users from across the network. This ensured that enough mail would flow back and forth to make the project worthwhile for all involved. Exchange #1 was an introductory note; exchange #2 was a description of personal hobbies & interests; and, exchange #3 was a brief statement of each participants' involvement in FrEdMail.

The next stage involved three simple, planned collaborative writing projects. The first two projects were designed to be executed with access to only one computer and would not take a lot of time 'in the lab' to complete student writing. Project # 3, 'Outrageous Animals,' was designed for the classroom with access to a lab of computers. All of the projects focus a great deal on discussion, brainstorming, and problem-solving.

Descriptions of the three writing projects follow:

ACTIVITY #1 — Geography game

Here students would need to use their United States geography and map and globe skills to correctly match up cities & states with brief descriptions. Each participant received a questionnaire on his/her city to fill out and return electronically. Students needed to answer questions concerning local climate, land forms, rainfall, temperature, proximity to rivers, etc. that would provide clues to their class's whereabouts in the USA. These questionnaires were then collected and compiled into a master list. The master list, containing a list of 18 cities and 18 descriptions, was then mailed out to participants. Correct answers were posted on IDEAS and in participants' FrEdMail mail boxes before Easter.

ACTIVITY #2 — Life in the Year 2100

This activity was designed to get students talking and brainstorming about different aspects of life in the future and to come up with probable changes that life in the year 2100 may yield. Each class would produce only ONE (1) document containing the

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20/20 FrEd Vision,
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5. Even a // plus: CMS doesn't run on my IBM so during Christmas vacation I loaded CMS onto my RamFactor card emulating the hard drive. I called modem-bearing friends begging them to call and see if it worked. I built files. I built more files. The vision was ready.

6. Patience: We were dismantling a local GBBS that had been running for 2 years. We installed the CMS software. George Lewis signed in at the console. Success! Turned off computer. Unplugged Apple modem from SS Card and plugged in Avatex 2400! Turned on computer! The computer never ... even ... beeped. We did guru stuff like change power cords. DEAD. After two years, what bad timing. George said, "All dressed up and nowhere to go."

7. Watch It Run: We borrowed a computer that had been relegated to a lesser task and now the system is doing fine. 34 users on the list and growing. Don't panic. Have vision. **(End)**

THE INTERNATIONAL EDUCATOR'S NETWORK

Unibase
Leigh Calnek
Co-ordinator, Education Technology
Saskatchewan Education, Regina, Sk. Canada

The International Educator's Network (IEN) is rapidly becoming a reality. No doubt it has been the dream of many, and indeed the progress which has been made over the past months in bringing it to reality is due to the efforts of many individuals from across Canada and the U.S. Dr. Roger Hart of the University of Victoria suggested, and has steadfastly maintained, that electronic mail will not become a commonplace until such time as any user can sit at their terminal, connected to their bulletin board or mail system of choice, and send mail to others regardless of the mail system the other user frequents. This is no small request because it seems that those who develop mail/conferencing systems always want to be noted for developing the "best", and seem to always choose to ignore any form of standardization, believing that in time the others will see the light and conform to this new and better model being implemented by themselves. Clearly, this has not been the case, and users of bulletin boards and mail systems at the grass roots level find themselves lost in an ever growing maze of systems.

Recently however, we have attempted to address the disparate nature of the diverse mail/conferencing systems, and develop a gateway which will support bidirectional movement of mail and conference postings between public access bbs type systems. This has not necessarily been a difficult task to accomplish, but has required time and commitment. The immediate target has been to develop and implement a strategy which will make it possible for educators, regardless of computer hardware, and regardless of mail/conference system used, to be able to communicate electronically with other educators on other networks.

***Teacher Pal Project*, CONTINUED FROM PAGE 4**

combined thinking/imagining power of everyone in the class. Over seventy-two topics were available. Submissions were sent in to the project coordinator, compiled and sent back out as an "Anthology." Each class which contributed to the 'anthology' would be able to find its paragraph within the body of the completed document, representing the combined thinking of hundreds of students across the FrEdMail Network.

ACTIVITY #3 — Outrageous Animals

As with "Life in the Year 2100" the focus of this activity was to let your imagination fly to create a truly unusual animal, perhaps an undiscovered species or even an extra terrestrial one! Students in each class were directed to use words to design and describe their own 'animal.' Designed as a "descriptive writing activity", students were directed to create a description so accurate that another student in a distant class could draw a picture of their "animal." Teachers wishing to participate in this activity were paired up as partner classes. **(End)**

EXISTING NETWORKS

UUCP

UUCP is a network which links unix/xenix based computer systems. Unix is a multiuser/multitasking system, which has been around for quite a few years. It is very common on university campuses, and in more recent years has become popular on some of the more advanced micro computers.

It supports a network mail/conference capability enabling callers to single sites to share electronically, personal mail as well as conference discussions through a facility called news. News consists of a large number of discussion groups,

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International Educators Network,
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too numerous to list here. Of particular interest to educators is the comp.education discussion which focuses on computer education, and to a lesser extent discussions relating to the different kinds of hardware such as Apple and MS-DOS. Users may post articles to these "news groups", and the postings get circulated or echoed across the network. It offers its users opportunities to dialogue with other users from across the world. Fellow news readers may respond to the postings using the "follow-up" option which reposts a reply to the network; or alternatively may post directly to the original poster of the article using the mail feature. In either case, geographical distance between the participants ceases to be an issue, and discussion occurs between people who would have been unlikely participants in any other mode of communication.

Fidonet
Fidonet got its beginnings in the early 1980's as a popular, public access bulletin board system which supported distribution of electronic mail. At some time later, the concept of "echo mail" was added which supported the same kind of distributed conferencing capability as had been available in the uucp news offering. This was a significant step forward because it represented the first public bulletin board system which supported distributed mail. Its popularity was instant, and nodes sprung up across North America and the rest of the world to a lesser extent.

It was not surprising that in a continuing evolution of Fidonet, software was developed to provide a gateway between Fidonet and uucp, providing users on each network the luxury of passing mail and conference postings between the two networks. Today there are numerous gateways which support movement of postings between Fido and uucp.

Fidonet did not become a major force in educational telecommunications and conferencing however, because it was based on MS-DOS computers, and as most educators know, MS-DOS is not the most common computer to be found in education circles.

FrEdMail
FrEdmail was a later arrival on the mail/conferencing scene. Based on the Apple IIe computer, FrEdmail was a natural solution for telecommunications between schools because of the popularity of the Apple IIe in education. From its initial release, it supported mail, distributed conferencing and file attachments. This meant that educators could send electronic mail, participate in education discussions and send files between sites on the network. A big plus for FrEdmail was its simplicity, both in terms of operation and in terms of installation. Having worked with all of the above network systems, and having installed all of them at one time or another, there is little doubt in my mind that FrEd was a leader in its ease of use and installation.

MIX
The McGraw-Hill Information Exchange for Educators is different from all of the above systems. In the first instance, it is a commercial system, operating with a "for profit" motive. It is a large capacity system, with a currently estimated subscribership of in excess of 4,000. The very size of its membership indicate the interest that currently exists among educators.

While MIX provides conferencing/mail capability for its members, it does not provide for communication with those who are not subscribers. This is not a statement of criticism, but rather a statement of fact, and does represent a drawback to the use of such systems because not all educators will ever subscribe to the same system, or even any system.

UNIBASE
UNIBASE is a multiuser bbs which operates from Regina Saskatchewan Canada. It has been in operation since the fall of 1981, and has always focused on telecommunications to support education. UNIBASE is a unix based system which supports 8 lines in, and has a high capacity disk storage system. It offers users access to local mail, distributed network mail (uucp) and conferencing (news) as well as a wide variety of other educational support services.
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FrEd Questions, CONTINUED FROM PAGE 1

local board are able to read bulletins from educators all over the country, and to send EMail to users on other systems located elsewhere.

2. What software and computers operate on the Network? Users access the FrEdMail Network with a great variety of computer and software types. It uses a standard 8 bit, no parity, one stop bit ASCII protocol. It supports both ASCII and XModem file exchanges.

Originally, all FrEdMail hosts were Apple computers running the CMS (Computer Mail System) software. An ongoing goal has been to integrate other software and computer types as host systems, however. Progress has been made in establishing links with GBBS (another Apple-based BBS program); with UNIX Usenet; and with Fidonet (MS-DOS).

Most of the nodes continue to operate with CMS software on Apple computers. This software is available exclusively for $50.00 from CUE Softswap, a non-profit professional organization of Computer Using Educators in California.

3. What is the purpose of the FrEdMail Network? FrEdMail represents "training wheels" for the soon-coming telecommunications using Information Age Revolution we see growing all around us. It is designed to provide the kinds of activities and purposes which will at one and the same time entice teachers and students to learn about the uses of telecommunications as well as provide stimulating, interesting, and productive activities to promote student learning.

On both counts, FrEdMail has had a great deal of success. Because FrEdMail is free to the caller, thousands of teachers have had the opportunity to experiment with telecommunications and freely explore this new and different form of electronic communications. The interactive, collaborative learning projects conducted among the many classes on the network have resulted in consistently positive results in increased motivation, enthusiasm, and effort on the part of students to improve their written communications and other skills.

4. Who operates the various nodes on the network? The various bulletin boards in the FrEdMail Network are operated by a wide variety of individuals and institutions. Some boards are supported by the district offices involved (FULLRTN, NEWPORT, SDUSD, CVUSD, etc.). Some operated in County Offices of Education (SNMTEO, SDCOE, OCDE). Some are operated by teachers at individual schools (OCNSIDE, LINC, LINCOLN). Some are operated at universities (SDSU, CSUSB, PEPPER). The North Carolina network is subsidized the the North Carolina Department of Education. The WYOMING node operates at the Wyoming State Department of Education. Some nodes operate in district offices; some in school offices; some in school classrooms; and a few have been operated in teachers' homes.

Some nodes serve particular projects. NEWPORT hosts the University of California, Irving's "New Teacher Support Network" which seeks to provide a focus for support activities for new teachers in Saddleback and Irvine School Districts in Orange County. OCDE serves the needs of the Orange County Department of Education and UCI's drug abuse prevention program as a means for disseminating curriculum and information on drug and alcohol abuse.

In every case, there is an individual who has "adopted" the challenge of introducing telecommunications concepts to their colleagues and constituents and keeps their own node functioning and connected to the network.

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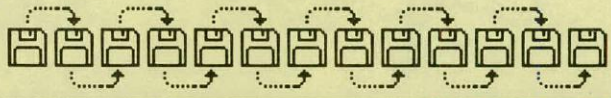
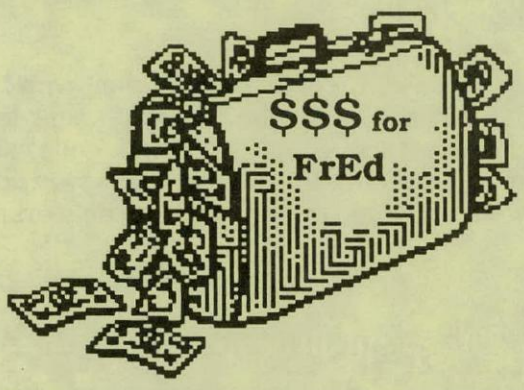
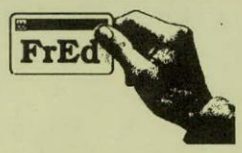


FrEd Questions, CONTINUED FROM PAGE 7

5. Who pays the costs associated with using the network? "FrEd" means "Free Educational." This means that there are no access, subscription, or online costs to the end user. Instead, all costs associated with the operation of the network are in various ways borne by the individual board operators on a shared, cooperative basis. Long distance calls are kept to the minimum costs through the use of standard, voice grade phone lines. Network connections take place automatically in the middle of the night, between the hours of midnight and 4:00 a.m. at 1200 or 2400 baud. Typical exchanges take five to eleven minutes. Some nodes have budgets to initiate (and therefore pay for) the long distance calls. Many nodes which have no budgets receive a subsidy in the form of receiving calls and thereby being able to participate in networking activities.
The major cost of the network, however, is the investments made by the dedication and free services of the various sysops and project coordinators who work hard and diligently to keep the network operating in productive and reliable ways. These numerous individuals provide value added benefits which enrich the network for all concerned.

In the past, some grant monies have been available from the state of California Educational Technology Committee to improve the operation of the network, publish a network newsletter, and to provide personnel for technical support. However, in the absence of this support, little progress is currently being made in these areas.





6. What are the advantages of a distributed, locally owned network. This distributed ownership brings a number of advantages. Each school and district is able to tailor local content to their unique local needs. Some districts use the boards for both instructional and administrative purposes. Other sites promote extensive use by students both at school and at home. The flexibility of local control is perceived as a major advantage.

Another significant advantage to the network is the commitment brought to the network by each site. Each local site has a vested interest in promoting the service to its local constituents, and most of them are proactive in recruiting participants and training teachers. This brings a great deal of vigor and involvement to the collective effort which would be difficult to obtain through a proprietary commercial system.

7. What types of activities take place on the network? In fulfilling the goal of introducing the benefits of the telecommunications age to teachers and students, the FrEdMail Network has developed a context which provide meaningful and productive activities and services to both teachers and students.

Activities on the network are curriculum based, and are designed to involve students in learning activities, in all content areas, which include collaboration and interaction with students at other sites. These real connections, which provide real audiences of their peers, serve to motivate students at both ends to do their best work.

A wide variety of learning projects have been conducted by thousands of students, in every content area, and at every grade level K-12.

(End)

by Mary Jacks
LINC!SYSOP
Oceanside, CA

Implementation of Telecommunications

What Is Your Level Of Involvement?

How many inservices have you gone to that make you so excited you want to run back to school and try? How many do you actually begin? It is important as presentors and presentees to keep in mind that coaching is necessary to assure the implementation of telecommunications at the site. Without coaching, only a few trainees will be able to implement the newly learned skill. When structuring inservices keep in mind that if the inservice just presents content, 85% of the people will understand the content, 15% will attain the skill, and only 10% will actually apply the skill at their site. However, if ongoing coaching takes place 90% will understand the concept, 90% will attain the skill, and 80% will apply it to their own setting.

As trainers and trainees it is important to remember that we are all at different stages of involvement in the implementation of telecommunications. Where are you in the stages of implementing telecommunications?

Level 0: *Nonuse*

There is no knowledge of telecommunications; the words telecomputing, modems, bps, and parity are not in your vocabulary.

Level 1: *Orientation*

There is some knowledge of telecommunications. Vocabulary is being understood and information is being explored such as: types of bulletin boards, costs, advantages/disadvantages, hardware/software necessary, impact of using the technology. The final decision to try it or not is made at this stage.

Major Decision To Try It Or Not Is Made

Level 2: *Preparation*

Preparations are made to implement telecommunications. Resources are gathered such as time, hardware/software, phoneline, instructional materials, management, skills and suppport.

Level 3: *Mechanical Use*

Telecommunications is used and skills are being attempted to be mastered. Coaching is very important at this point because hardware and software problems can be frustrating and cause trainees to give up.

Level 4: *Routine Use*

Telecommunications is becoming more comfortable and skills such as sending and receiving files are more efficient and effective. As the skills become comfortable concentration is given to the content of the messaging.

Major Decision To Go Beyond E-Mail

Level 5: *Refinement*

This stage is concerned with the refinement of educational telecomputing projects. Changes are made to improve both the short and the long term results of messaging.

Level 6: *Collaboration*

Telecomputing educators at this stage coach educators at their own sites as well as other sites who are at various stages of use and continue to refine projects and integrate them into the curriculum. **(End)**

International Educator's Network, CONINUED FROM PAGE 6

NETWORK CONNECTIONS
In the fall of 1988, users on the uucp and Fidonet networks enjoyed the ability to pass mail and conference postings between the networks using a number of gateways. Once onto the uucp network, callers had access to a large number of other diverse networks such as BITNET and ARPA.

The above connections were of little significance to educators however, because educators did not have ready access to those networks. Certainly they may have had access to posting to the networks, but did not have any real opportunity to shape the direction of the networks nor to determine the nature of traffic which could be carried.

CMSgate
In the fall of 1988, the operator of UNIBASE began to develop a gateway which would have the ability to link educators. Since UNIBASE already had access to uucp, and therefore had network gateways to Fidonet, the focus was turned to systems and networks which were not currently available. High on the priority list was FrEdmail. At Christmas, CMSgate became operational. It provided a direct link between the UNIBASE system and the FrEdmail network. Among other things, it meant that those schools who had access to UNIBASE, now had the opportunity to exchange ideas with schools currently on FrEdmail. The accomplishment of CMSgate almost doubled the number of schools on the FrEdmail system.

More importantly, CMSgate provided a link between FrEdmail and the other major networks, Fidonet and uucp. FrEdmail participants could now correspond with callers on other remote networks which had not been directly available before. This meant that FrEd users could now start expecting to have a truly global network at their disposal.

UNIBASE subscribers won no less important access than the FrEdmailers. Now, schools in Saskatchewan Canada had a direct link to

schools across the U.S., and an opportunity to share ideas and educational experiences with professionals in another country.

MIXgate
The next obvious step in linking educators had to be between the existing UNIBASE/FrEdmail gateway and MIX. Accomplishment of this step would bring the largest group of educators together for dialogue. Fortunately, the MIX organization shared the vision, and provided connect time support for the creation of the gateway. In addition, a conference topic was created on MIX for the purpose of providing the link between MIX and the participants on CMSgate.

The software to implement the connection between CMSgate and MIX (called MIXgate) has been developed and is currently being tested. We can anticipate being able to use echo mail postings to communicate between MIX and FrEdmail by the middle to end of March. Watch for it!

FUTURE OPPORTUNITIES
UNIBASE is committed to building a truly universal gateway system which will link educators regardless of their preferred hardware or software. With that view in mind, dialogue continues between systems in British Columbia, Manitoba, Alberta and New Brunswick in Canada. It is anticipated that by June of this year, educators across North America will be able to freely dialogue with colleagues regardless of location, hardware or mail/conferencing system.

(End)

COOPERATIVE TELECOMMUNICATIONS PROJECTS

By Mary Jacks
LINC!SYSOP
Oceanside, California

No single innovation at Lincoln Junior High School in Oceanside has had as much of an impact on revitalizing and improving the curriculum as cooperative telecommunications projects exchanged electronically.

This year students have been involved in a variety of national and international projects in creative writing and social studies. The school year began with a very successful electronic mock presidential election followed by students' responses to "If I Were President of the United States I would..." "What I would like to tell Mikiel Gorbechov and other leaders of the world" and a comparative cities projects. Students have exchanged hundreds of letters from Santa, pen pal letters and creative writing activities such as Critters, Telelimericks, Tele-Valentines, Tom Swifties, Tele TallTales, Tele Riddles, TeleTongueTwisters, TelePhone Plays and many, many more. It is clear that students at Lincoln are definitely writing more and according to our CAP scores, they are writing better at Lincoln.

Our Soviet-American involvement last summer via computer at the World Expo in Australia has opened our eyes to the power of telecommunications in teaching global understanding. One teleconference with a Soviet gentleman has lead to an ongoing Soviet-American pen pal letter writing exchange, a global peace poem, a peace publication exchange, and a multitude of projects comparing and contrasting the geography and socio-economic conditions of the U.S. and Soviet Union.

Knowledge is power and telecommunications offers us the vehicle by which knowledge can be transferred rapidly across the globe. We have only touched the tip of the iceberg in the utilization of this medium, and it is thrilling to imagine the direction we are going in expanding this new frontier.

(End)

FrEd Fashions

Attention...Attention...Attention

Be the First On Your Block To Own One!!!

In a daring and courageous attempt to support the FrEdMail Network, we have designed, ordered and received official FrEdMail T-shirts!

Ordering Information:
==========

Make checks out to:
Hands-On Training.
4021 Allen School Road
Bonita, CA 92002

$12.00 for pick-ups
$16.00 for mailed ones
($4.00 is for packing, shipping & postage)

Choice of colors are:
Hot Pink (my favorite)
Bright Blue (for more conservative types)

Choice of sizes are:
Medium, Large or X-Large

The front of the shirt has a phone and modem and says:

"FrEdMail, Free Educational Electronic Mail Network, Linking Students and Educators From Coast to Coast"

For more information contact:

OCNSIDE!YANDRES
or
SDCOE!AROGERS

Projects $IDEAS Activities

There were over 300 messages posted related to projects, ideas and telecomputing activities. The ones listed below are a mere sample to show the type and variety of collaborative projects available.

Idiom Project 2/05/89
SDSU!BLADEN!WSALEM!MLAURENC

To Idiom Lovers:
My fifth graders are ready to begin a unit on idioms. I have a nice list of "Heart Idioms", but would like to have a list of other idioms, possibly lists that contain other body parts, such as foot, head, etc.

Below is a list of heart idioms.

1. have a heart
2. my heart bleeds for you
3. child at heart
4. your best interests at heart
5. learn by heart
6. to your heart's content
7. heartfelt sympathy
8. heart throb
9. straight from the heart
10. heartbreaker

Acid Rain Project 2/22/89
From: UIUCED!JZIMMERM

We are a 5th grade class at Thomas Paine School in Urbana, IL. We are looking for other classes from primary through H.S. to participate ina science project on acid rain and ground water contamination. WE would like to receive water samples form as many different locations around the country as possible. The attached file explains this project in more detail. Classes, small groups, or individual students that participate will have several levels of participation open to them ranging from minimal to more in-depth. All materials and costs will be covered on our end. If you are interested, read the attached file for a better understanding of the complete project.

SCHOOL RULES 2/23/89
SDSU!SDCOE!UIUCED!CHOFFMAN

We are interested in gathering information about school rules. We want to see if our rules are similar, outdated, or better than yours. We also want other information dealing with students in other towns than ours. Information from any age group is welcome. See the attached file for further information. The 4th hour Word Processing class at Prairie Central High School in Fairbury, IL would like your response for a project they are undertaking. The class is concerned with school regulations and would like to know if our scool is stricter, the same as, or more lenient in our dress code and other school policies.

Project Rap Write 3/06/89
SDSU!SDCOE!UIUCED!CTHURSTO

We are new to the network and eager to make contact. St. Matthew's students are in the heart of the Midwest, Champaign, Illinois. These junior high students love RAP! We'll write a Midwest RAP if someone out there wants to listen. How about a West Coast or an East Coast version? We are teachers Loretta Feller, 8th grade language arts, and Karen Pickard, 7th grade language arts, St. Matthew's Catholic School, Champaign, Il.

State Reports 2/28/89
SDSU!PEPPER!AMTS!PPIERCE

My fifth-grade class is currently working on state reports. In addition to the usual reference material, I would like the children to use telecommunications in order to find some information not readily available in our library. The children have come up with a list of questions they would like to ask a student in your room. If you have a student who would like to help out would you please contact me at Alhambra Model Technology School (AMTS). I am attaching a sample letter that the children will be using to let you know what the questions are. Paulette Pierce

Shakespeare 3/21/89
SNLNDRO!NASSAU!MLOMONIC

I would like to set up a bulletin board for all teachers of Shakespeare to share ideas that work in the teaching of our favorite playwright's plays to secondary students. If you want to discuss specific plays, assignments, suggestions for new approaches, or anything else please leave a message. I would also like to set up a dialogue between my students and yours. We might begin with their reactions to Shakespeare, but could go on to favorite plays, favorite scenes, favorite characters, etc.

Video Available!

FrEdMail & Pac Bell's Intelligent Network

The Intelligent Network is Pacific Bell's concept to bring the benefits of electronic communications to the greatest number of people. The FrEdMail Network is highlighted in a 15 minute video, exploring the different populations who are currently using electronic communications, intelligently.. **The video may be obtained by contacting** Janie Phillips, of Pacific Bell, **at: 619 489-3501**

The FrEdMail Network: Linking Students & Educators From Coast to Coast

Projects $IDEAS Activities

The Soviet American Space Bridge

by Yvonne Marie Andres & Mary Jacks
Oceanside, California

The Original Message We Posted:

March 19, 1989

Dear TeleComputing Educators,

On Monday and Tuesday, March 21 & 22, we will be presenting at a Russian-American Telecommunications Computing Conference, in Ramona, CA. We will be logging on to various Educational Networks to show them the telecommunications choices that are available in the U.S. We will be logging on to FrEdMail, MIX, Prodigy, The Source, CIS, LDLN and OERI. We are requesting that you send a welcome message to these students. All the messages they receive will be saved and printed out for them to take back to the Soviet Union with them. Last year, a similar exchange took place at the United Nations Pavilion at the Australian Expo '88. That exchange resulted in a teacher and student from Oceanside, California, being flown to Australia for a face to face meeting!

It will be exciting for them to receive lots of messages from all over. So, please take a moment and say hello and send your wishes regarding education and cooperation among all countries of the world!

Yvonne Marie Andres & Mary Jacks
Oceanside Unified School District

The Replies We Received:

From the FrEdMail Network

To: USSRKIDS
From: SGRIFFIT
Sent: Mar 20, 1989, 7:29 AM
Subj: WELCOME to San Diiego

Welcome to Southern California and FrEdMail telecommunications. I hope that your visit here will be warm in friendship and in weather. It would be exciting if a connection could be made that would allow for continued communication between Soviet students and American students. A great deal could be gained from the regular exchange of ideas not to mention the friendships that would develop. Have an enjoyable stay and a safe return home.

Steve Griffith
Computer Teacher & SysOp of ENCINIT%SANDIEGO

From Compuserve

#: 25361 S10/Telecom/BBS/
Online 17-Mar-89 17:06:19
Sb: #25354-Welcome Visiting USSR Fm: Kurt Harper <s11>
70426,1257
To: Yvonne Andres, 71370,103

Yvonne, let me extend my warmest welcome to our Soviet visitors and encourage them to enjoy their stay with us. I work in the Perris Union High School District near Riverside, California. I build and operate computer learning centers and would be happy to exchange questions and answers with a Soviet counterpart. My address is:

Kurt-Patrick Harper, Projects
Perris High School
175 East Nuevo Road
Perris, California 92370

Again, welcome!—Kurt

#: 25390 S10/Telecom/BBS/
Online 18-Mar-89 22:31:23
Sb: #25354-Welcome USSR
Fm: Sysop Chuck Lynd
76703,674
To: Yvonne Andres 71370,103

A warm welcome to all the Soviet exchange students! I am the Sysop here on the Education Forum, so I am naturally delighted that you have been introduced to this medium as a way to extend your visit here in the United States. I live in Columbus, Ohio, where we have also been privileged to meet exchange students from your country. My oldest daughter is a junior at a high school here in Columbus that recently hosted about 15 Soviet students.

CONTINUED ON PAGE 14

Soviet-American Space Bridge,
CONTINUED FROM PAGE 13

Like many people, I am very pleased that our government leaders have finally begun to tone down the rhetoric and make it easier for people of both countries to get to know one another better. I hope that these exchanges are the first of many that will start the process of building a foundation for lasting peace.

The initial euphoria is wonderful, but eventually we will have to face some very difficult issues together. As the young people who will be the leaders of the future, I hope you are beginning to think about some of those issues. I will suggest that one of the toughest will be how to deal with the environmental problems that we have created with our industrial processes, and how we can begin to develop a greater ecological awareness of our human place in the larger scheme of things. Chuck Lynd

#: 25420 S10/Telecom/BBS/Online 20-Mar-89 19:11:04
Sb: #25354-Welcome Visiting USSR Students
Fm: American School of Lima 76067,537
To: Yvonne Andres- 71370,103

Saludos to the Soviets from South America, We are The American School of Lima, Peru, and wish you our best in your endeavors to learn about computer telecommunications. Down here, we use this medium quite regularly to keep in touch with our colleagues in the US, as well as other schools around the world. We would enjoy having you come online with us.

John S. Lakatos
Curriculum Technology Director
The American School of Lima, Peru

From AT&T Long Distance Learning Network

Date: Mon Mar 20 12:10 EST 1989
From: Angelo Abby <!connornys1>
Subject: Regarding the Russian students
To: Yvonne Andres <!jeffsncas1>

Dear Friends,
We are a group of students in the village of Scottsville, NY, just outside of Rochester. Ours is a historical area with many old homes dating back to the 1700's and we have many descendants who are related to the original settlers. The students are interested in answers to these questions:

1. Do you read in English? Or is it translated?
2. What do you study in school about peace movements or what do you do to help foster world peace?
3. What is your school day like?
4. Do you celebrate holidays such as Easter?
5. What season is taking place in your country now? We are starting spring time now.
6. How many students are in your class?
7. Are laws the same in your area as they are here: speed limits, death penalty, sixteen to drive, etc.

If you can send us a message with answers to those questions, we would appreciate it. Thank you; we hope you have a good day.
Signed, Students in
Mr. Abby's 5th grade class:

Date: Mon Mar 20 10:21 PST 1989
From: Margaret Riel <!mentor1>
Subject: Welcome to America
To: Mary Jacks <!lincolncas2>
To: Yvonne Andres <!jeffsncas1>

A warm welcome to the Soviet students! I hope that you are enjoying the California sunshine. I am sure that you are finding that the people are equally warm. We are very excited that you are here as we value the chance to share with you our thoughts and feelings.

I want to also welcome you to the AT&T Long Distance Learning Network. This is a place where people from all of the world come together to share and compare their understandings and opinions about issues that effect all of us.

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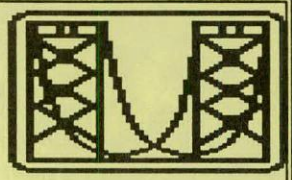
Projects $IDEAS Activities

Soviet-American Space Bridge,
CONTINUED FROM PAGE 14



I hope that you will be able to become involved in some of the exchanges even if your time is very limited. I know that you will be very busy and you will be seeing this as only a demonstration. Since I work with the high school group of learning circles, I am going to give you a quick overview of some of the projects that are well underway. If you have time to write a message to any of these groups, I will be happy to forward them. In fact, I will be happy to foward whatever you wish to contribute to all of the coordinators of the 18 learning circles on the network. In this way, your message will reach almost 200 schools.

I hope you enjoy your time in California and the in the U. S. A.
In hope of many more peaceful exchanges,
Margaret Riel, LDLN

(End)

The Soviets "Reply"

Tuesday, March 21, 1989

Dear Friends,

This message is being composed at the Soviet-American Space Bridge/International Friendship Club Peace Camp. It is being hosted by La Jolla and San Diego HS in California, and the 2 sister schools #23 and #45 from Moscow.

This session is a special telecomputing presentation, exploring the limits of this technology. We are right now composing the answers to questions that were asked in messages received from users on the FrEdMail Network, AT&T Long Distance Learning Network, Compuserve and MIX.

Here is our group letter and responses:

1. Yes, we read and speak English very well.
2. We work in the Center for Creative Initiative for Children and Adults for Peace. We consider peace to be the result of not only official activities, but also of people diplomacy.
3. Our school day starts at 8:30 and ends at 2:30-3:00. Each period is 45 minutes and there are about 30 students in each class. We go to school 5 days a week. We go from 7 years old to 17 years old.
4. Easter is not an official holiday, but we do celebrate it. We do not celebrate Christmas. Some official holidays are New Year's, Women's Day, Victory Day, May Day and the Day of Revolution.
5. The seasons are the same in Moscow, but the weather is different. It is about 35 degrees right now, and it is the first day of Spring.
6. About the laws in Moscow:
- Speed limit is 60 km (35 mph)
- You have to be 18 to drive, but a car cost 10,000 rubles ($20,000)
- Yes, we do have a death penalty. (execution is done by shooting)
- The drinking age is really 21, but you can actually drink at 16.
7. High top Reboks would cost 320 rubles ($500). The average salary per month is 200 rubles!!! A computer PC cannot be bought in stores. You can get them on the black market for about $80,000 rubles ($40,000).
8. Ten out of every 100 people might own a car. The most common types are Volga, Lada, and Moskvich.
9. There are 5 TV channels. But, they are not on 24 hours (they come on at 6:00 AM and go off around 12:00 midnight, with 3 hour breaks during the day).
10. Our favorite snack foods are pizza, ice cream (10 flavors... not 32!), pelmenei (pancakes with meat).
11. There are no homeless people in the Soviet Union. The older people live in their own homes (flats or apartments).
12. There is a medium drug problem (not as big as the U.S., but we

CONTINUED ON PAGE 16

Projects $IDEAS Activities

Soviet American Space Bridge,
CONTINUED FROM PAGE 15

think it is big). You cannot buy drugs at school. The ones that are a problem are marijuana, heroin and inhaling aresols and gasoline. Mostly young people from low income families, with no motivation do these things.

13. There is a very small Aides problem (officially 50 people).

14. Drinking alcohol and smoking is a huge problem. People are lined up at the cafés waiting for them to open. They are open from 11- 11:00)

15. Marriages: Marriage is very popular and unfortunately so is divorce. To get married you have to apply to the Special Bureau of Citizens, and you have to wait about a month.

16. We do have gays, but it is illegal and not accepted.

17. There are a lot of superstitious people, but not very many religious ones. The largest religion is Orthodox.

18. We have a big pollution problem. We cannot swim in Baltic Sea. We do not have emission devices on our cars. There is lots of litter on the streets. There are not lots of wrappers and styrofoam cups, because there are special drinking vending machines that dispense water. Everyone uses the same class, but it is washed first. Kwas is like rootbeer, and we drink it.

19. There are really cheap public phones (2 kopecks, or 3 pennies) You can talk as long as you want to talk, any where in Moscow. The connections are not that good. You have to try several times before you get through. When someone picks up the phone they say Halo or Da (which means "yes").

20. There are less than 1 percent microwave ovens. You can only have 1 phone line at your house, unless you get special permission.

21. You are not permitted to attend universities outside of the country. We do have an exchange program with Yale University, Oxford, Columbia, MIT and a few other schools. All education is free. It is very difficult to bring money out of the country.

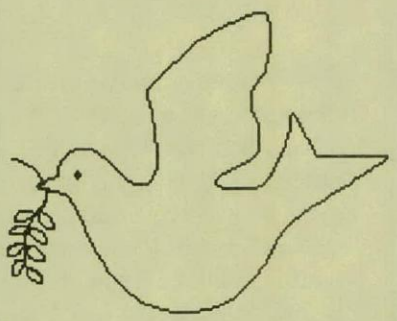
22. It is very difficult to obtain an apartment. You have to apply and wait, plus you must show that you really need it. Many people live with their parents even after they are married.

We are sorry that we cannot answer each person individually. But, we will leave our school address, if you would like to write us, we will be happy to answer any other questions. With any luck we will be able to set up a permanent link, to be able to communicate with you all in the future.

Signed,
Volodya Bernstein,17 years
Vasili Kotlov, 18 years
Victor Sachs, 18 years

Students of School 45, Moscow
USSR, 117036, Moscow,
Grimau Street, House 8
School 45
Computer Exchange

PEACE



"We, American students, think that telecommunications provide a quick and easy means of promoting peace and friendship across the cultural barriers. Through telecommunications peace and understanding can be more easily attained."
Signed,
Catherine Carrales, 15 (S D HS)
Mike Nassir, 18 (La Jolla HS,)
Sara Chang, 16 (San Diego, HS)
John Garrett, 18, (San Diego HS)

"Telecomputing will become the media wave of the future. It is important to help shape this technology, as the technology will soon shape us."
Signed,
Presentors...
Yvonne Marie Andres
Mary Jacks
Oceanside Unified School District
and
Student Participants...
Robbie Guthrie & Peter Lopez
Lincoln Junior High
Melissa Jensen & Javon Thomas
Jefferson Junior High

(End)

FrEdMail Network Map
April 8, 1989

This map of the **FrEdMail Network** of school based computer bulletin boards maybe distributed for educational use, but not for sale, so long as the entire file is distributed including the explanatory information at the file's end.

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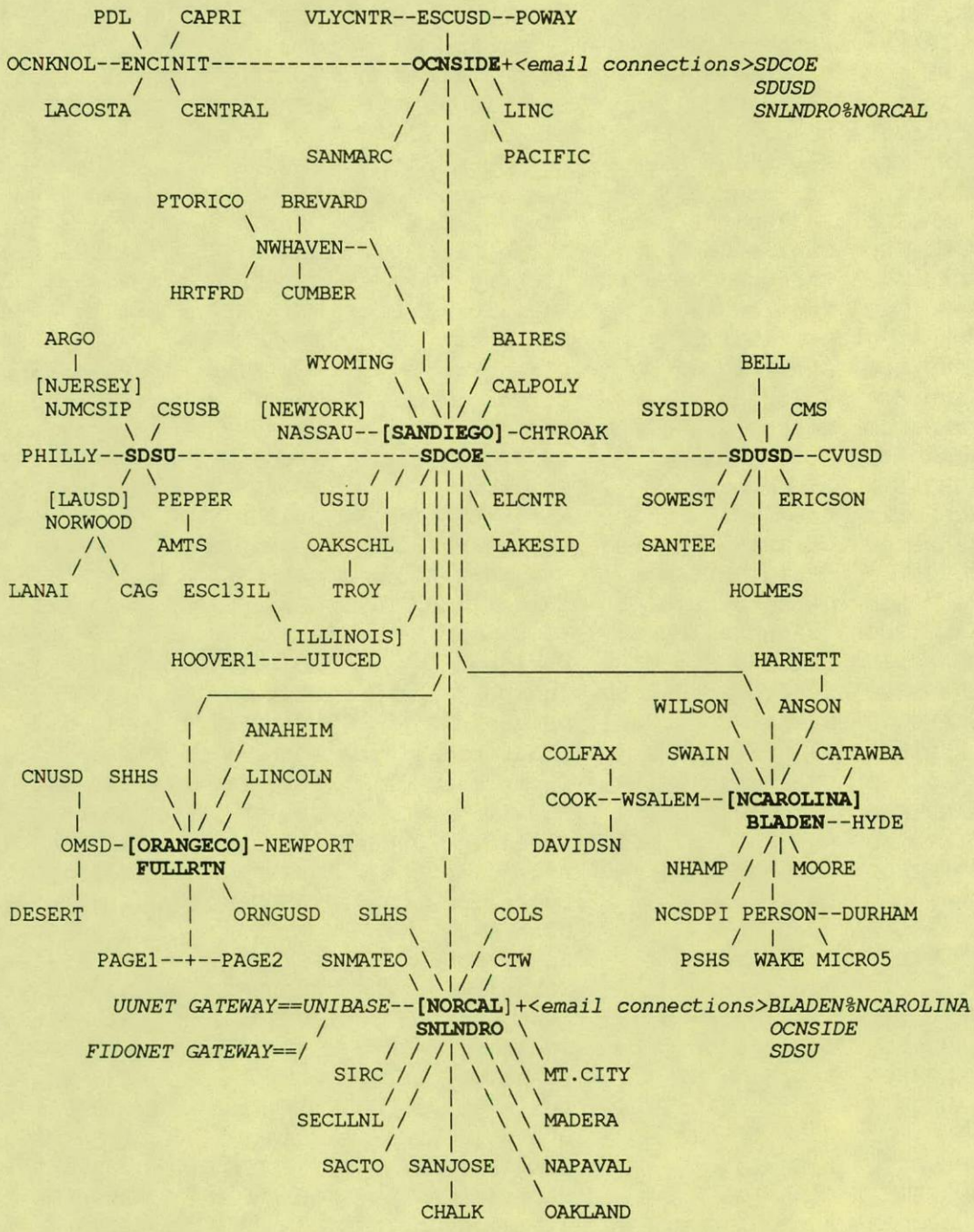


The FrEdMail Network: Linking Students & Educators From Coast to Coast

FrEdMail Nodes and Their Locations

NODE/%REGION	SYSTEM NAME	LOCATION	SYSOP	PHONE #/BAUD
AMTS %SANDIEGO	Alhambra ModTech	Alhambra, CA	NSTROUSE	818-308-0626/12
ANAHEIM%ORANGECO	Anaheim UHSD	Anaheim, CA	GJANKEL	714-220-4088/12
ANSON %NCAROLINA	Wadesboro MS	Wadesboro, NC	SGRIFFIN	704-694-4523/12
ARGO %NJERSEY	Rutgers Prep	Somerset, NJ	KYEN	201-545-8668/12
BAIRES %SANDIEGO	3 schools	Buenos Aires,Arg	AMATEU	011541361-3344/12
BELL %SANDIEGO	Bell JHS	San Diego, CA	MCASEY	619-267-2807/12
BLADEN %NCAROLINA	Bladen Co Schs	Bladen County,NC	HMCINTYR	919-862-8998/24
BREVARD%SANDIEGO	Roy Allen Elem	Melbourne, FL	EWHITE	407-242-0370/03
CAG %LAUSD	CA Assoc Gifted	Los Angeles, CA	SMOUNTFO	818-888-8846/03
CALPOLY%SANDIEGO	Cal Poly Pomona	Pomona, CA	GSHAIL	714-869-2328/12
CAPRI %SANDIEGO	Capri Elem	Encinitas, CA	JWHEAT	619-944-4365/12
CATAWBA%NCAROLINA	Catawba Co Bd Ed	Hickory, NC	TBLEDSOE	704-256-8136/24
CENTRAL%SANDIEGO	Central Elem	Encinitas, CA	MSANCHEZ	619-944-4328/12
CHALK %NORCAL	Morrill MS	San Jose, CA	RWRIGHT	408-942-1425/24
CHTROAK%SANDIEGO	Charter Oak	Glendora, CA	CGILKINS	818-963-2095/12
CMS %SANDIEGO	Coronado MS	Coronado, CA	JFITZ	619-435-5831/03
CNUSD %ORANGECO	Corona-Norco USD	Corona, CA	MMURPHY	714-736-3439/12
COLFAX %NCAROLINA	Colfax Elem	Guilford Co., NC	LHUNT	919-993-3523/12
COLS %NORCAL	Rosemont HS	Columbus, OH	JWOLVERT	614-471-1265/24
COOK %NCAROLINA	Cook MS	Winston-Salem,NC	JDIXON	919-727-2581/12
CSUSB %SANDIEGO	CalStateSanBerdo	San BernardinoCA	SBONTRAG	714-887-9492/12
CTW %NORCAL	ChildTVWrkShop	New York City,NY	OALFONSO	212-595-4588/12
CUMBER %SANDIEGO	Cumberland Schs	Cumberland, RI	CSANTOS	401-728-4964/03
CVUSD %SANDIEGO	Cajon Valley USD	El Cajon, CA	CABEL	619-588-0948/12
DAVIDSN%NCAROLINA	Davidson CoBdEd	Davidson Co, NC	RMIDGETT	???-???-????/??
DESERT %ORANGECO	Desert Sands USD	Indio, CA	MCOY	619-342-3979/12
DURHAM %NCAROLINA	Durham Co Schs	Durham, NC	MCAMPBEL	919-560-3815/12
ELCNTR %SANDIEGO	El Centro USD	ImperialValleyCA	BDUNCAN	619-353-9614/03
ENCINIT%SANDIEGO	Encinitas Union	Encinitas, CA	SGRIFFIT	619-944-4316/12
ERICSON%SANDIEGO	Ericson Elem	Mira Mesa, CA	PDOYLE	619-578-0312/12
ESC13IL%ILLINOIS	Univ of Illinois	Champaign/Urbana	BBREHM	217-893-4569/12
ESCUSD %SANDIEGO	Escondido Union	Escondido, CA	BSIMPSON	619-740-2420/03
FULLRTN%ORANGECO	Fullerton Elem	Fullerton, CA	TANDERSO	714-447-7496/12
HARNETT%NCAROLINA	Dunn Elem	Dunn, NC	DSTEWART	919-892-7923/24
HOLMES %SANDIEGO	Holmes Elem	San Diego, CA	RSTITT	619-571-8764/12
HOOVER1%ILLINOIS	Hoover MS	Schaumberg, IL	RHAUBNER	312-884-4912/12
HYDE %NCAROLINA	Mattamuskeet HS	Swan Quarter, NC	ATROUSDE	919-926-0953/12
LACOSTA%SANDIEGO	LaCosta Hts Elem	Encinitas, CA	TREEVE	619-944-4383/??
LAKESID%SANDIEGO	Lakeside MS	Lakeside, CA	PBELL	619-390-2689/12
LANAI %LAUSD	LA Tchr Training	Los Angeles, CA	DSMEDLEY	818-990-8961/24
LINC %SANDIEGO	Lincoln JHS	Oceanside, CA	MJACKS	619-439-0614/03
LINCOLN%ORANGECO	Lincoln	Lincoln, NB	JSHEDLOS	402-466-9078/12
MADERA %NORCAL	Alpha Elem	Madera, CA	GBECKMAN	209-674-4801/24
MICRO5 %NCAROLINA	Micro-5 Users Gp	Alamance Co., NC	NHAYES	919-578-2549/??
MOORE %NCAROLINA	Board of Educ	Carthage, NC	MBAGELY	919-947-3954/12
MT.CITY%NORCAL	MontanaCity Elem	Montana City, MT	CMARTIN	406-442-6737/12

The FrEdMail Network: Linking Students & Educators From Coast to Coast

FrEdMail Nodes and Locations, Continued...

NODE/%REGION	SYSTEM NAME	LOCATION	SYSOP	PHONE #/BAUD
NAPAVAL%NORCAL	Vintage HS	Napa, CA	RHENDERS	707-253-3507/12
NASSAU %NEWYORK	Nassau Co TRACT	Long Island, NY	SBITEL	516-877-1095/12
NCSDPI %NCAROLINA	NC State Dept PI	Raleigh, NC	CDENNING	919-733-3197/12
NEWPORT%ORANGECO	Newport-Mesa USD	Newport Beach,CA	DEWING	714-556-3177/12
NHAMP %NCAROLINA	Northampton BdEd	Jackson, NC	TGREENWE	919-534-3001/12
NJMCSIP%NJERSEY	NJMathCmptrSci	Glassboro Col,NJ	KRIDEOUT	609-863-6561/24
NWHAVEN%SANDIEGO	New Haven	New Haven, CN	ASOLIS	203-787-0042/12
NORWOOD%LAUSD	Norwood Elem	Los Angeles, CA	PJACKSON	213-482-5035/12
OAKLAND%NORCAL	Oakland USD	Oakland, CA	PHutcher	415-834-2636/12
OAKSCHL%SANDIEGO	Oakland SchlDist	Pontiac, MI	JVANDAM	313-858-1873/12
OCNKNOL%SANDIEGO	Ocean Knoll Elem	Encinitas, CA	MLATORRE	619-944-4357/12
OCNSIDE%SANDIEGO	Jefferson JHS	Oceanside, CA	YANDRES	619-757-3180/12
OMSD %ORANGECO	Ontario-Montclair	Ontario, CA	JSTCLAIR	714-986-9890/12
ORNGUSD%ORANGECO	Orange USD	Orange, CA	JCRUM	714-997-6387/12
PACIFIC%SANDIEGO	Independent	Oceanside, CA	JTROTTER	619-439-4665/12
PAGE1 %ORANGECO	Page School	Costa Mesa, CA	AMIGLIAR	714-432-0574/12
PAGE2 %ORANGECO	Page School	Sanford, FL	RLUNA	305-323-2426/12
PDL %SANDIEGO	ParkDaleLane Elm	Encinitas, CA	MWILSON	619-944-4398/12
PEPPER %SANDIEGO	Pepperdine Univ	W Los Angeles,CA	NSTROUSE	213-568-5551/12
PERSON %NCAROLINA	Person Co Schls	Roxboro, NC	DWARLICK	919-597-8528/24
PHILLY %SANDIEGO	Philadelphia	Philadelphia, PA	DHARKINS	215-233-0240/12
POWAY %SANDIEGO	Poway HS	Poway, CA	ESHIEH	619-748-4943/03
PSHS %NCAROLINA	Person SHS	Roxboro, NC	RDIXON	919-599-4792/12
PTORICO%SANDIEGO	U PuertoRicoElem	Puerto Rico	MAYALA	809-761-3317/03
SACTO %NORCAL	Sac CUE	Orangevale, CA	JCARVALH	916-989-1193/12
SANJOSE%NORCAL	Berryessa USD	San Jose, CA	RWRIGHT	408-946-7325/24
SANMARC%SANDIEGO	San Marcos HS	San Marcos, CA	REHRENFE	619-744-8547/03
SANTEE %SANDIEGO	Santee Schools	Santee, CA	RDRESSEL	619-258-2204/12
SDCOE %SANDIEGO	San Diego CoEduc	San Diego, CA	AROGERS	619-292-1816/12
SDSU %SANDIEGO	SanDiegoState	SDSU, CA	BDODGE	619-594-3428/12
SDUSD %SANDIEGO	San Diego USD	San Diego, CA	RFABIAN	619-295-9591/12
SECLLNL%NORCAL	LawrLivrLabSciEd	Livermore, CA	SSESKO	415-423-5098/12
SHHS %ORANGECO	Sunny Hills HS	Fullerton, CA	KGORDON	714-870-3423/24
SIRC %NORCAL	SciInservRuralCa	Los Molinos, CA	KKLINEST	800-248-5456/12
SLHS %NORCAL	San Leandro HS	San Leandro, CA	BSHAYLER	415-895-0135/24
SNLNDRO%NORCAL	San Leandro USD	San Leandro, CA	BSHAYLER	415-895-1785/12
SNMATEO%NORCAL	SanMateo CoEduc	San Mateo, CA	LFINKEL	415-697-4523/12
SOWEST %SANDIEGO	Southwest HS	San Diego, CA	TFOSTER	619-575-5430/03
SWAIN %NCAROLINA	Swain Co Schls	Bryson City, NC	LWINCHES	704-488-2290/12
SYSIDRO%SANDIEGO	Beyer Elem	San Ysidro, CA	SGONZALE	619-428-4162/12
TROY %SANDIEGO	Troy School Dist	Troy, MI	DLEA	313-689-0042/??
UIUCED %ILLINOIS	Univ of Illinois	Champaign, IL	HKIM	217-333-2246/24
UNIBASE%NORCAL	SaskatchewanEduc	Regina,SK Canada	LEIGH	306-789-0729/96
USIU %SANDIEGO	U S Intl Univ	San Diego, CA	KWIBURG	619-693-4582/12
VLYCNTR%SANDIEGO	Valley Center	Valley Center,CA	JPERDUE	619-749-8745/12
WAKE %NCAROLINA	Wake Co Schls	Raleigh, NC	DCARRIK	919-755-6096/??
WILSON %NCAROLINA	Wilson Co BdofEd	Wilson, NC	EHALL	919-243-1601/12
WSALEM %NCAROLINA	KimberleyPark El	Winston-Salem,NC	TCLAUSET	919-727-2529/24
WYOMING%SANDIEGO	Wyoming Dept Ed	Cheyenne, WY	SKING	???-???-????/??

FrEdMail Addressing Information:

Notes:

1. a * after a system name in the list or before a system name on the map means that system is not yet active will become active.

2. to print out this map using FrEdWriter 4.4, you must first change the underline token to something other than the \character.

3. El or Elem = Elementary school
   MS = Middle school
   JHS = Junior High school
   HS = High School
   SHS = Senior High School

To address email on the FrEdMail Net version 12, use the following format:

<username>@<system_name>%<hub>

The username is the system name for the user to whom you are writing. Usernames are generated by combining the first letter of the user's first name with (up to) the first seven letters of the user's last name. For example, a user named Al Rogers would have username AROGERS and a user named Tony Anderson would have username TANDERSO. This is true on all FrEdMail systems so a user with accounts on several systems will have the same username on all of them.

The system name is the one listed for each node (BBS) on this map. The hub name is the area name given for groups of nodes all connected to a major hub point. Not all nodes are defined as part of hubs at this time. Generally, version 10 addressing should continue to be used until all major hubs are running version 12 with updated call.lists.

GBBS systems use the CMS version 12 addressing mode (PHUTCHER@OAKLAND) except that no hub (%NORCAL) need be identified.

To address email on the FrEdMail Net version 10, use the following format:

<first node>!<next node>!<last node>!<user name>

The first node is NOT the node you are calling when you send email but rather the first node to which the system you are calling is connected on the Network Map. An exclamation mark is used to separate each node's name from the next one in the address and also to separate the node name and the user name at the receiving end. You can always send email to SYSOP at a node if you do not know the name of a user there. The sysop's name for each node is also shown on the Node List.

For example, say Peter Hutcher at OAKLAND wants to send mail to Ken Gordon at SHHS, the proper address would be:

SNLNDRO!SDSU!FULLRTN!SHHS!KGORDON

and Ken's return address to Peter would be:

FULLRTN!SDSU!SNLNDRO!OAKLAND!PHUTCHER

The following information has been helpfully provided by Leigh Calnek of UNIBASE, the FrEdMail gateway system to uunet and FidoNet.

Use the following procedures to send mail to one of the following networks.

UUCP network
UNIBASE is connected directly to the uucp network, therefore sending mail to another person on uunet is very simple:

example: send mail to roe who is at system sobeco

The mail address would be (sending from FrEdmail):
- roe at sobeco snlndro!unibase!sobeco!roe
- stacy at mcl snlndro!unibase!mcl!stacy

UNIBASE maintains a full set of network maps, consequently it knows the path to sobeco or mcl. If we did not maintain a set of maps, then the user would have to enter the full path name to the destination.

FIDONET addressing
There are numerous gateways off the uucp network to fidonet. To send mail to someone on the Fidonet network, you send the mail to a gateway point, and the address on the network. Again you must know the address of the person on the network. UNIBASE carries the maps for addressing on Fidonet.

example: to send mail to Leigh Calnek on fidonet node the Regina Fido system,you would use the following address: accessing the gateway, you would want the following address:

```
F19.N140.Z1.FIDONET.ORG!leigh.calnek
|   |  +------ the zone (north america)
|   +---------- the region (saskatchewan)
+-------------- the node
```

Clearly, you must know the region and node to which the person you are sending mail to is located.

To send to me from FrEdmail use the following addressing.

snlndro!unibase!F19.N140.Z1.FIDONET.ORG!leigh.calnek

To send to some other person associated with net 140/53 you would simply change the address of the 'F' or/and 'N' values as that is how Fidonet is organized.

The **FrEdMail Network** of school based computer bulletin board systems is supported in part by **Computer Using Educators (CUE), Inc.** CUE is an organization of educators interested in the use of computer technology in education. **For further information or to join, call 415-328-2248, or write to Computer-Using Educators, Inc., P. O. Box 2087, Menlo Park, CA 94026**, or send email to CUE Executive Director Pat Cleland on CompuServe (74415,1132).

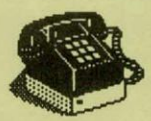
Bob Shayler, sysop of SLHS and SNLNDRO, provides this map as a free service to the FrEdMail Network and MIX using information sent from local FrEdMail System sysops. Please send corrections to one of the addresses below.

Bob Shayler
2600 San Leandro Blvd. #1801
San Leandro, CA 94578

San Leandro High School
2200 Bancroft Ave
San Leandro, CA 94577

phone: 415-357-6809 (h) 415-667-3541 (w) 415-895-0135 (SLHS FrEdMail BBS)
MIX: bshayler FrEdMail: BSHAYLER@SLHS CIS: 71545,371
uucp: uunet!pyramid!cdp!bshayler SF-Moscow Teleport: sanleandro

FrEdMail Project



San Diego County Office of Education
6401 Linda Vista Road
San Diego, California 92111

To: Computer Contact Person

The FrEdMail Network: Linking Students & Educators From Coast to Coast

FrEdMail

Free Educational
Electronic Mail Network

Linking Educators and Students
Around the World

The FrEdMail Foundation
FrEdMail Central
San Diego County Office of Education
Al Rogers, Director
6401 Linda Vista Road
San Diego, CA 92111

WHAT EXACTLY IS FrEdMail?

FrEdMail is an informal, grass-roots telecommunications network. Each FrEdMail electronic bulletin board represents a **node** in the network. (The FrEdMail Network map later in this document illustrates the structure of the network.) Each node operates independently during the day as a fairly normal-looking electronic bulletin board program. However, it has two features which make it particularly unique among electronic bulletin boards:

1. It allows you to **send lengthy files of student writing to your correspondents.**

2. In the middle of the night, all of the FrEdMail nodes in the network begin to busily dial each other up and exchange EMail. Thus, a **teacher in California can send a batch of student writing to a teacher in Philadelphia, Connecticut, Puerto Rico, Florida, or one of 75 other places.** There is no charge for this capability, and new nodes are being added each week.

FrEdMail is not an information utility. Its primary function is to transmit student writing from one place to another, thereby opening up distant audiences for students. FrEdMail is more properly thought of as a writing tool, one which can be used effectively at any grade level and in any subject. The purpose, and emphasis behind, FrEdMail is to provide **real audiences and real purposes to motivate writing!**

For the most part, students do not correspond directly with each other. Most activities grow out of teacher-developed projects and are implemented through teacher to teacher contacts.

Students do all of their writing away from the modem, away from the telephone line. In a well-designed program, the phone line should be used only occasionally, at which time a batch of student writing will be transmitted wholesale, quickly and efficiently. It should alleviate the pressure for acquiring expensive dedicated phone lines in order to participate in a network, thus enlarging the audience of potential teacher-participants.

As with any writing tool, constructive and appropriate writing will occur only within the context of a purposeful, structured writing program or project. Therefore, FrEdMail emphasizes specific, purposeful, well-planned collaborative learning activities which encourage interested, productive participation by students and teachers.

HOW TO GET INVOLVED IN FrEdMail

The following suggestions will help you become involved in a local FrEdMail Networking project:

1. Be a "WRITING TEACHER". You don't have to be an English/Language Arts teacher. If you teach science, social studies or some other discipline which employs writing, you can use FrEdMail to involve your students in networked learning activities. Collaborative activities can involve cultural exchanges, statistical data collection and analysis (surveys, questionnaires, demographics), science experiments and observation (astronomy, geophysics, weather and climate, pollution), and any other activity which creative minds can invent.

2. Have access to computer(s) on which your students can write (Apple, IBM, Commodore)

3. Have a compatible computer with modem and a phone line someplace (home, school (lab, workroom, principal's office, etc.))

4. Have telecommunications software which will support XModem (Apple: Talk is Cheap, Mouse Talk, Point to Point, FrEdSender, etc.; Mac: Red Ryder, MS-Works, etc.; IBM: ProComm, Cross Talk, etc.).

5. Have some time ("spare" or otherwise) to learn some new concepts during the startup phases of this operation

6. Use your telecommunications program and your modem to dial up and log onto a local FrEdMail bulletin board and set up a new account. Use one of the nodes and telephone numbers listed at the end of this document.

7. After your account has been validated, you'll be ready to begin networking with other teachers. Begin by entering the <E>Mail section of FrEdMail and browse through the $IDEAS section. This is like a public bulletin board area where projects are advertised, collaborators solicited, and activities discussed by participants throughout the network. Look for an activity here in which you can participate the first time.

8. Recruit other teachers to join you in a project. Post an "announcement" of your project in the $IDEAS section of your local FrEdMail bulletin board. This announcement will automatically be posted on every other local board in the entire network.

9. With the help of your new-found collaborators, develop and complete the various projects in which you participate.

TECHNICAL DETAILS ON CMS FrEdMail

ORDERING CMS FrEdMail

If there are no FrEdMail nodes nearby, you may wish to set up and operate your own electronic bulletin board. The FrEdMail Network operates on Apple Computers using a bulletin board program called CMS (Computer Mail System) written by Nick Sayer and Al Rogers.

CMS FrEdMail is disseminated by the FrEdMail Foundation, a California non-profit corporation (as of January, 1990). Address mail, inquiries, purchase orders to: Hands-On Training, 4021 Allen School Road, Bonita, CA 92002.

CMS FrEdMail BBS	**$49.95**
Smartmodem Cable Adapter (see below)	**$10.00**
Shipping & Handling on Software	$ 2.50
California Residents add 6.5% Sales Tax	

CMS FrEdMail is not "public domain;" you may not make unlimited copies. It is provided at minimal cost and as a service to the educational community. However, you must purchase a separate CMS FrEdMail package for each electronic bulletin board you set up.

JOINING THE NETWORK

When you have your FrEdMail node installed and operating, the easiest way to join the network is to call the sysop nearest you and ask to be connected through their system. The latest FrEdMail Newsletter has the current map with phone numbers of all systems. After you have joined the network, send an intersystem message to the sysop at SDCOE (SDCOE!SYSOP) with the following information about yoursystem:

- Your name
- School
- District
- Address
- Voice phone
- Node name
- Region
- Node phone number
- Maximum baud rate
- Hours of operation

If you need assistance, please call FrEdMail Central (SDCOE) in San Diego at 619-292-1816 (1200/2400 baud) and leave a message for AROGERS, the sysop. Leave your NAME, your ADDRESS, your SYSTEM NAME, your SYSTEM PHONE NUMBER, your VOICE PHONE NUMBER, and a request for assistance. Initial contacts will take place via phone until a date and time can be established for making voice contact so that you can effectively be connected into the network.

ANNUAL SUBSCRIPTION FEE

The FrEdMail Network will be incorporating in January as a California Non-Profit corporation. This corporation will function as a consortium, with member sites on the network contributing to the cost of network-wide long -distance connections. Subscription fee for the 1989-1990 school year is $50.00. When you join the network and begin receiving intersystem network message traffic, you will be billed $50 for your annual subscription fee. Due to the modest amount of this fee, there is no provision for a pro rated discount.

HARDWARE REQUIREMENTS

The minimum hardware required to operate a CMS FrEdMail node include:

Computer: **128K Apple II Plus, IIe or IIGS** (II Plus must have a 64K or larger RAM card recognized by ProDOS; IIc is NOT supported)

Disk Drives:
- One or two 5.25 inch disk drive
- One 800k 3.5 inch disk drive (Avoid discount third-party drives: Apple Drives are proven reliable; others may not be as reliable.)
- A Starter system of 3-4 5.25 disk drives may work for you for awhile, depending on how much message traffic you experience.

Modem:
a. Hayes brand external Smartmodem 300, 1200, or 2400, with Super Serial Card, and a custom serial cable or modem cable adapter (ordered above).
b. Hayes brand internal Smartmodem (NOT the old 300 baud Micromodem), which works right out of the box. No adjustments or other hardware is required. (Some Hayes compatible internal modems may work; the only one test and found compatible, however, is the Applied Engineering Datalink modem.
c. An external modem which is **fully "Hayes compatible."** (Must support full AT Command Set, S-Register Settings, and full switch control. The compatible modem **must** support actual DCD and DTR status lines.)

Sorry... The Apple line of modems, including the Apple Personal Modems, do not provide this support. Apple Modems **will not work with CMS software.** When you purchase a modem for use with CMS, unless it is Hayes brand, be sure you secure an agreement that if it does not work with the CMS that you can exchange it for one that does.

Cable Adapter: If you use a Smartmodem or compatible **external** modem, you must have a custom wired cable or cable adapter. You may purchase this item as listed above. Or, if you are handy with a soldering iron, you can configure your own custom cable according to the instructions in the installation manual.

Suggested Hardware

Clock: ProDOS compatible clock card (times calls; allows overnight dialing of other CMS systems)

Disk Space: More disk storage (a hard disk is recommended, although you can get started with one or two 3.5" 800K drives)

TYPES OF CMS SYSTEMS

NODE Serves several local schools. Connected to a HUB and perhaps other nodes. Has limited disk space. All calls are local. Clock card optional. Three disk drives provide barely minimum capacity. An 800K drive is recommended. 1200 baud recommended.

HUB Links several NODES together and serves as the local gateway to the regional GATE. Can also serve as a NODE for nearby schools. All calls are within a limited region. Minimum disk space is 800K drive with two or more 5.25 inch drives. Clock card essential. 1200 baud required, with 2400 baud recommended to to handle larger volume of Intersystem EMail.

GATE Serves as the gateway to distant FrEdMail networks. Connected to several HUBS and one or more distant GATES, which may involve long distance charges. Should have a large amount of disk storage... 5-10 Megabytes; perhaps a RAM Disk; Clock card and 1200-2400 baud required

OTHER REQUIREMENTS

PRODOS A knowledge of ProDOS is helpful. The CMS manual does not provide a tutorial on ProDOS and its hierarchical file structure. You should have a good reference book to provide guidance along the way. Here are 3 good references:
Prodos And Beyond, Gary Cornell, 1985, Wiley Press, $16.95
BASIC Programming with ProDOS, Apple Computer, 1984, Addison-Wesley Publishing, $29.95
Beneath Apple ProDOS, Worth & Lechner, 1984, Quality Software, $19.95

COPY II Plus You should have Copy II Plus, Version 6 or later, $39.95 from Central Point Software, 9700 Capitol Highway, #100, Portland, OR 97219. This program is a lifesaver for formatting, creating subdirectories, copying, and so on.

TIME The installation and troubleshooting of clocks, disks, modems, and the CMS software is fairly technical. If you do not have the technical skills required, you should find someone who can help you set up your bulletin board system. Once the software and hardware are properly installed, you should have little trouble sysopping it yourself **if you read the manual.** However, there is a time commitment involved in keeping the hardware and software running and encouraging and nurturing productive activities on the network. Time will vary depending on the volume of traffic your system handles... The more callers, the more time you will spend sysopping. Plan on spending a minimum of 2-3 hours per week, however.

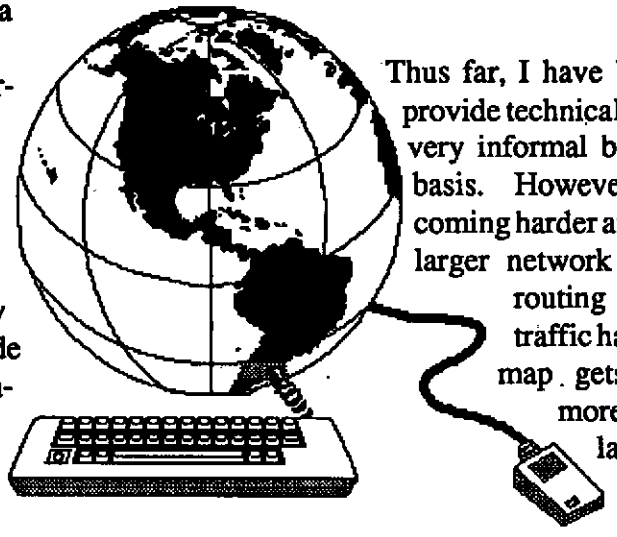
Volume 4, Issue #1

FrEdMail™ News

Free Educational Electronic Mail Network

Introducing FrEdMail Central

by Al Rogers, SDCOE, California



The FrEdMail Network is an interesting phenomenon. It is not a corporation. It is not an agency. It is not a union. Nor is it a society, or a fraternity, or a guild, or a troop, or a crew, or an establishment. However, it is a large collection of very dedicated people who have made enormous investments of time, creativity, and hard work to make this instructional communications network one of the most visible and vigorous networks in America today.

As we all know, "FrEd" stands for "Free Educational." And of course, FrEdMail is Free. ***However, it ain't cheap!*** We all benefit from the hard work of our system operators (sysops). We are thankful for a few agencies that are willing to pay all of the long distance transport costs for the rest of us. We rely heavily upon a relatively small number of people to animate the action on the network, creating projects, recruiting far and wide for collaborators, and forever pushing all of us into new learning experiences. For most of those who serve the FrEdMail network, this has been a genuine labor of love. ***Indeed... FrEd may be free... but it ain't cheap!!***

One of the major questions I have grappled with in depth over the past year is how long FrEdMail can continue to grow as a completely free network. The network now includes a hundred sites. Thus far, I have been able to provide technical support on a very informal basis ad hoc basis. However, this is becoming harder and harder. A larger network also makes routing of network traffic harder, and the map gets more and more complex. A larger network creates a larger volume of mail, with increasing transportation costs across long distances and a corresponding need for improved software and more reliable, faster

See FrEdMail Central, *Page 3*

In This Issue

1...Introducing FrEdMail Central
2...Integrating TeleComputing at Site
3...Network News and Reports
5...Meet Your TeleMentors
6...Ode to the FrEdMail Network
8...FrEdMail Network Map, Locations & #s

Produced & Edited by Yvonne Marie Andres, Coordinator
Redwood Jr. High, Oceanside Unified School District
Voice 619 631-5615 Modem 619 722-3130
For Further Information Contact Al Rogers, Director
FrEdMail Central Modem 619 292-4818

How to Get Staff & Administrative *Support* When Integrating TeleComputing at Your Site

By
Yvonne Marie Andres & Mary Jacks
Oceanside, CA

1. ***First...*** **Become a User on an Educational Network Yourself**
   - Become Familar With the Conferences, Projects and Activities
2. ***Second...*** **Participate in a Collaborative Activity**
   - From Home if Necessary
   - With a Nearby School First
   - With a Distant School
   - With Several Schools
3. ***Third...*** **Do Presentations & Inservices For Decision Makers**
   - Principal
   - School Staff
   - District Curriculum Committees (All Subject Areas)
   - Board Members
   - Parent Groups (PTA, Site Councils, etc...)
4. ***Fourth...*** **Publicize and Promote Your Successes**
   - Display Projects Around Campus
   - Write Articles for Site and District Newsletters
   - Inform Local News Media of Activities
   - Distribute the FrEdMail Newsletter Containing:
     - SysOps' Reports From Around the Country
     - Examples of Projects & Activities
     - The Latest FrEdMail Map, Phone #s, Connections
5. ***Fifth...*** **Participate On Site & District Technology Committees**
   - Integrate Telecommunications into District Technology Plans
   - Provide Staff Development for Implementation
6. ***Sixth...*** **Gather Substantiating Reseach & Literature**
   - Case Studies
   - FrEdMail Report for State Ed. Tech. Committee
   - Electronic Learning Article (Writing Forums)
   - Incider Article (Electronic Education)
   - Information Power
   - Telecommuting Legislation
   - Show Pacific Bell's "Intelligent Network" Video ((15 Min. Program Highlighting Benefits of Tele-Computing)
   - Show University of Oklahoma Video (2 Hour Program of Educational Telecom Information)

NEWPORT-MESA NEWS

by Donna Ewing, Sysop
Newport-Mesa, CA

Red lights twinkle on both modems at the same time. Hard disks whirr. Another batch of letters to the Great Pumpkin is uploaded on the MESA board to a class in a neighboring district, while a teacher calls in to scan the $IDEAS board at NEWPORT. As we enter our third year on the FrEdMail Network, we are pleased to announce that we have outgrown our original installed hardware. In August we added MESA in order to accommodate all the activity generated by kids2kids, our student writing network.

At last count we had no less than 50 teachers involved in the Great Pumpkin Letter Writing Campaign. That's 700 letters written by approximately 1500 kids! Other projects for 1989-90 are: I Heard It On The Grapevine, Holiday Essay, Superior Toy, Inc., Round Robin, Writers' Anthology, and the Electronic Express.

Each project is introduced and coordinated (largely on-line) by a RoundTable leader, a key teacher from one of the 15 districts participating. Steven Pinney, Director, has been urged to expand kids2kids throughout the state of California. Stay tuned!

HEADLINE
(CNN) Cable News Network Lessons

DAILY NEWS BROADCASTS FOR STUDENTS

Several FrEdMail locations now have a Bulletin Board section devoted exclusively to Cable News Network Lesson Plans.

The lesson plans are geared to secondary students, and currently, teachers may download them each day calling SDCOE (619-292-1618) or OCNSIDE(619-757-3180). Other locations will be added upon request.

You will find each day's lesson posted as an attached file. You can capture the file with your terminal ASCII text capture mode, or you can download it via XModem.

Either way, you will find it easy to retrieve and print out for use with your students.

FrEdMail Central,
Continued from Page 1

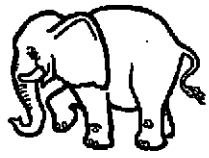
phone connections. More people on line increases the need for organization of activities distance network traffic to center in San Diego with an 800 WATS line (for faster, more reliable, and cheaper mail distribution); software improvements; and development of a plan for consortium members to share more equitably in long distance costs, especially to our Puerto Rico, Argentina, and Australia sites. We are also studying the possibilities of forming a partnership with the Learning Link National Consortium, which is an affiliate of the Corporation for Public Broadcasting.

Immediate plans for FrEdMail Central include using our current grant to help pay for four network "telementors." Bob Shayler (that little old map maker), Dennis Cowick (Mr. Santa Claus Coordinator himself), Donna Ewing (Orange County's ubiquitous sysops friend), and Yvonne Andres (our indefatigable FrEdMail Evangelist) will be joining forces to organize and promote activities on $IDEAS, $KIDWIRE, and $NEWS. We'll have activity calendars, new ideas, and more systematic implementation of projects so that when you get online, you'll have a better chance to make a productive connection with a high quality classroom activity.

FrEdMail has been an exciting and rewarding experiment. My major goal in the development of the FrEdMail Network 5 years ago, was to answer the question, "Does computer mediated telecommunications have a relevant role to play in the normal curriculum of the classroom?" That question has been resoundingly answered in the affirmative. It is now time to begin taking those next steps on the path to a "real" network that will retain the vision of "Free Educational" services. Tune in to the FrEdMail Node closest to you to monitor the development of these and other plans.

We're on the move!

The Infamous Elephant Bar



Dennis Cowick, Mary Jacks, Al Rogers &Yvonne Andres "TeleBuddies" at the annual FrEd gathering, LaJolla, CA

The Incider Scoop on FrEdMail

The latest edition of Incider magazine (October 1989) has a few words about the FrEdMail Network. Titled "Citizens of the World," the article also explains briefly the National Geographic Kids Network, AT&T's Long Distance Learning Network, Global Education Motivators Network, Compuserve, GEnie and Delphi. (See pages 104-107)

PREDICTING CLOUDS IN CAROLINA

by Cecilia Sneed
North Carolina
Department of Public Instruction

Last spring, seventh grade students in North Carolina had the opportunity to collaboratively study weather movements across their state and make predictions for upcoming conditions without leaving the confines of their classrooms. This remarkable accomplishment was made possible through the use of FrEdMail, which has been funded and encouraged by the North Carolina Department of Public Instruction.

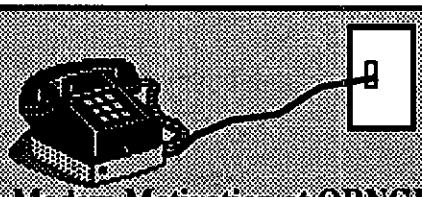
The WEATHERLINKER Project was designed by state consultants in the areas of Media/Technology and Science and included a teacher's guide, student materials, a video, and a number of computer programs. The materials were sent to each of the state's 134 school districts and all seventh grade classes were invited to participate. Last year's first run had twenty participating schools. This year promises to be more widespread due to better advertisement and more available telecommunications equipment.

Classes involved in the project spent the first eight to ten days rotating through activities where they learned about the four basic components of weather . . . wind, temperature, humidity, and barometric pressure. Each day, students went outside with weather instruments and recorded data on everything from humidity to temperature. These weather conditions were analyzed so that future conditions could be predicted. When the basic facts were covered, students spent the next few days studying the special weather characteristics that mark North Carolina's weather and how various signs and movements can indicate changes.

PREDICTING CLOUDS, continued...

The facts and activities came together during the last week of the project when all the schools involved in the WEATHERLINKER Project used a conference on FrEdMail to share their collected weather data each day. When the data was downloaded, students created state weather maps that indicated local conditions at each participating site. As the week progressed, students were able to use that data to monitor the movement of weather fronts across the state. As a plus to the science study, students were able to add to their knowledge of North Carolina geography by learning the locations of the WEATHERLINKER sites and the physical features that influence weather movements in the state.

WEATHERLINKER is the first of many statewide instructional projects that are planned for the FrEdMail Network in North Carolina. Consultants in the state department feel that this unique instructional network not only affords an easy access to schools outside the state but also provides an opportunity for be used to enrich all content areas.



Modem Motivation at ORNGUSD

By Judy Crum, SysOp
Orange County, CA

The ORNGUSD (Orange Unified School District) year is off to a good beginning. We are offering four modems this year on a loan basis to schools who will become active on our BB, and hopefully the network. For a school to qualify, they must send three teachers to six hours of training, the teachers must participate in two projects on the board, and the principal must verify that he will install and maintain the phone line. Classes begin in October. We feel this is a nice incentive for a great project.

Meet Your TeleMentors

NETWORK TELEMENTORS

by Yvonne Marie Andres
Oceanside, CA

Starting this Fall, the users on the FrEdMail Network will have the benefit of yet another service designed to make educational telecomputing a sucessful and rewarding experience. Each of the network conferences will have a telementor, who will act as an animateur (that's French for "one who gets the action going!").

Donna Ewing, of Newport-Mesa, CA, will be the **$IDEAS TeleMentor**. She will be preforming three tasks: (1) She will act an as electronic match maker for educators who are looking to link up with other educators to participate in collaborative telecomputing activities; (2) She will publish a monthly summary of the projects and contact persons appearing in the systemwide $IDEAS conference; (3) She will monitor the messages that are posted on $IDEAS and re-direct those that might have been more appropriately posted in other sections.

Dennis Cowick, of San Diego, CA, will be our **$KIDWIRE TeleMentor.** He will be (1) Monitoring the $KIDWIRE conference, which is where teachers electronically display the best literary works of their students; (2) Selecting the "best of the best" to be included in the 1990 **Literary Writing Network Magazine**; and (3) Creating a calendar of the most popular projects that take place on the Network each year, such as the Original Riddles, Santa Project, TeleLimericks, Text Graphics, Moving On, and Kids' Travel Agency. If you have an activity and an estimated date in mind, let him know so that he can include it on the calendar.

Telementors,CONTINUED ON PAGE 6...

Introducing ***Bob Shayler***

$NEWS TeleMentor

Bob Shayler teaches physics and computer science at San Leandro High School in San Leandro, California, a suburban city of 70,000 just south of Oakland. A teacher for 24 years, he first encountered computer telecommunications in 1981 when he sponsored a student operated BBS at his school.

Computer telecommunications has now become an integral part of all his classes and has had an intense impact upon his life. He directly operates three BBSes which are a part of the FrEdMail network (SNLNDRO, SLHS, and OAKLAND) and has assisted in the operation of several others. Students in his computer science classes all participate in projects on FrEdMail, MIX (now called IRIS), and UUNET (through PeaceNet) and have communicated with other students throughout the world. His physics students do research using the UC Melvyl system, submit assignments to him as attached files in email, and participate in projects with other schools. Bob personally exchanges email daily with friends as far away as Russia and his "significant other" in Philadelphia, Pennsylvania.

Bob acts as a technical and education consultant for several organizations, including IRIS (the new MIX), school districts, a CUE affiliate, and private groups. He maintains the Map for the FrEdMail Network. He has several mail addresses including: bshayler@SNLNDRO (FrEdMail), bshayler@cdp.uunet, bshayle@CSUNet, bshayler@GEnie, 71545,371@CIS, and user #1 on Open Campus BBS (SLHS) which is the system that got him started all those years ago.

Introducing ***Dennis Cowick***
$KIDWIRE TeleMentor

Coordinating my students involvement with the first Santa Claus Letter exchange was my first experience with the FrEdMail Network. The students I worked with that first year were definitely excited by the technology; the idea of sending messages electronically computer-to-computer over phone lines was, and is an extraordinary practice. But the transferring of computer messages is no more than a more rapid way of mailing letters, an electronic mailing system. This one-to-one electronic exchange is like a party that you go to where you talk to one person at a time. Networking is like being at that same party and having the opportunity to hear EVERY conversation that is going on!

What I think we will discover on KIDWIRE this year, is that electronic mail exchanges between two users is only the beginning. The true power in this student wire service lies in the networking, or connecting of many different students from across the globe, sharing different viewpoints on a various topics. I look forward to helping all of you as we take our electronic journeys, exploring viewpoints and learning about each other.

TELEMENTORS, continued from page 5...

Bob Shayler, of San Leandro, CA, will be our $NEWS TeleMentor. Bob's tasks will be to: (1) Provide set up for the Network mail each month and (2) Post important information regarding hardware, software, or technology issues affecting educators. Being in charge of the "news" is a really big job, and no one person can possibly do it alone. Technology changes on a daily basis, and there are so many, many journals packed full of great information to read. So, you would really be helping all educators, and all students, if you would share the job of posting news!

Introducing ***Donna M. Ewing***
$IDEAS TeleMenter

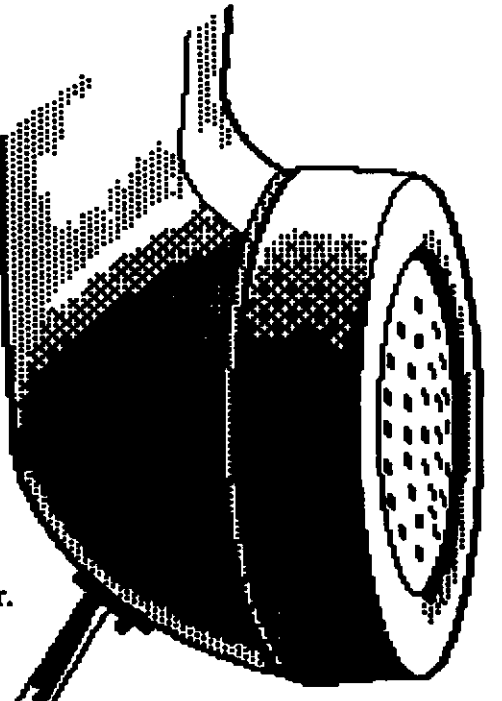
My introduction to microcomputers came about in the fall of 1981, when an ad in an educational journal caught my eye. I wrote a grant proposal and acquired an Apple II Plus, a little software, and a printer to use with my Jr high school special education class. The following year I helped write Project COACH, a technology staff development leadership training project funded by and disseminated throughout the State of California. Then I went for my Masters' Degree in computer education from Pepperdine University. I helped found ECAP (Educational Computing Alumni of Pepperdine) and edit the newsletter. A member of CUE and OCCUE since 1982, I also serve on the board of directors of the Orange Apple Computer Club.

In 1985 I left the classroom and my Mentor Teacher position when I stepped into my current role as Newport-Mesa Instructional Technology Resource Teacher, K-12. My duties include chairing the Technology Advisory Council, coordinating user group meetings, holding seminars for technology reps, editing the monthly newsletter, serving as Apple Support Coordinator and a member of the staff development task force of the California Technology Project. On a daily basis I answer questions about hardware and software, duplicate and disseminate MECC products, and maintain two FrEdMail systems: NEWPORT and MESA.

As Sysop and TeleMentor, I try to help new users and even nonusers find a worthwhile contact through FrEd. A beginning Spanish class communicates with another on the east coast. New Teachers meet and hold rap sessions. A LEGO/Logo teacher finds another to share telecommunications activities. A colleague in a nearby district searches through the Remote Networks board for files to correlate with Model United Nations.

I never tire of watching the FrEdMail activities and helping others discover the excitement of telecomputing.

On a personal note, I am married and the mother of three. I enjoy music, travel, swimming and... you guessed it... telecomputing! . . . .



Ode to the FrEdMail Network©

FrEdMail FrEdMail... Oh, how you have taken
over our lives.
So little time for husbands,
children,
or wives!

Who needs tennis, shopping or TV?
It's time to check the email, there might be some for me!

Crashed disks and lost files, only make the challenge greater.
Must read what's on $IDEAS NOW, and $KIDWIRE later.

Duplexes and nulls don't impede us...
When someone at another node just might need.

We don't mind being known by only 8 letters of our name,
Because, from San Diego to North Carolina to Philadelphia,
it's all the same.

Of exciting projects, this year there were many...
Letters to Santa, Outrageous Animals and Riddles plenty!

Oh yes, we're FrEdMail junkies, and we can't get enough.
We keep trying to CONNECT... no matter how tough.

We're all hooked on the FrEdMail Network.
We like it a lot.
And, we'll keep checking our email...
to see how much we've got.

So a hearty thanks to Al and all the others, who
have helped this system grow.
There are two last important things that all
FrEdMailers know!

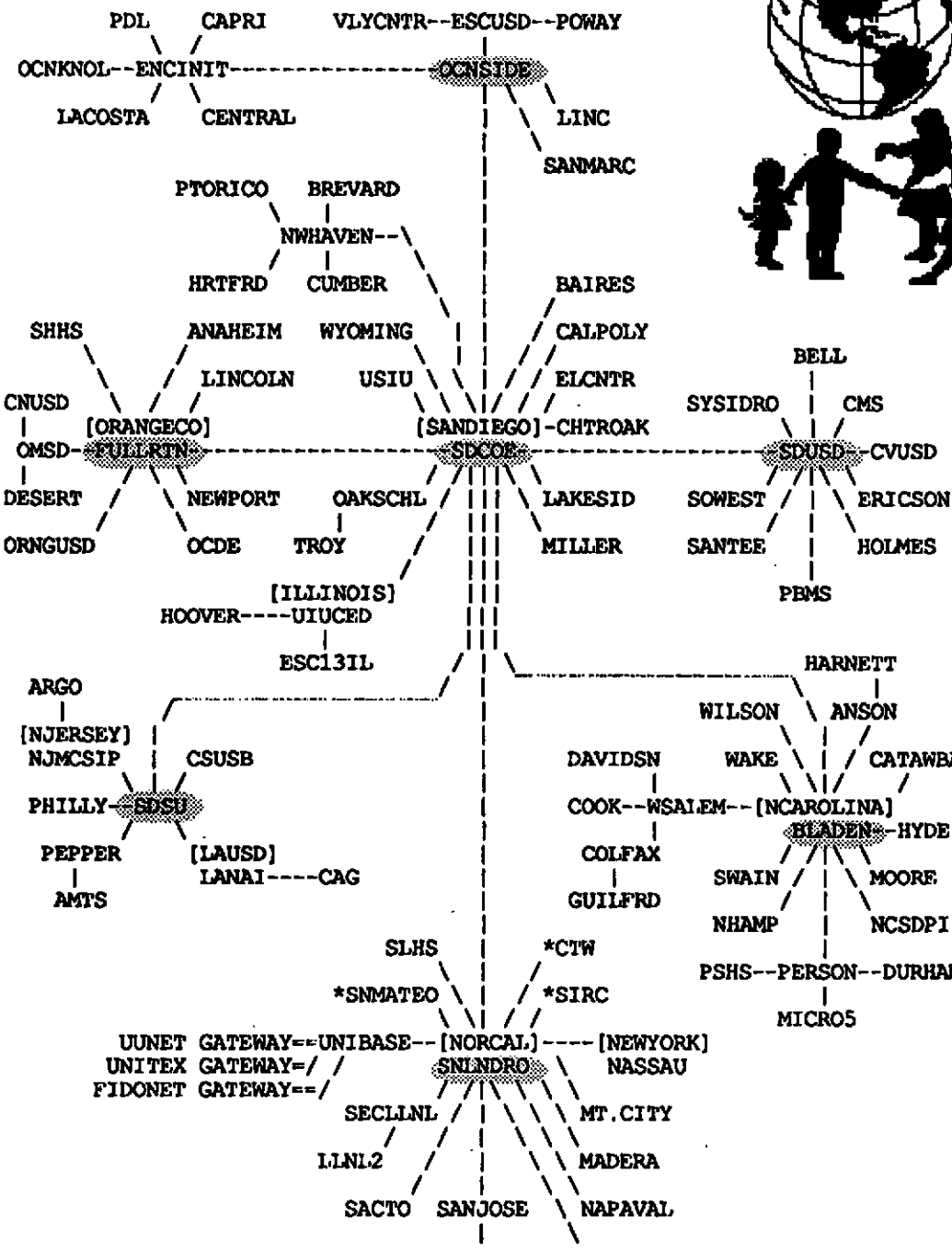
ONE - it makes us very happy to watch FrEdMail
keep growing all the time.

And **TWO**, do believe me, it wasn't easy to make a poem
about telecommunications **RHYME**!

Written by...
Yvonne Marie Andres
May 1987
Revised May 1989

InterSystem Network Map

October 1989



FrEdMail Locations and BBS #'s

NODE	%REGION	System Name	Location	SysOp	Phone # /Baud
AMTS	%SANDIEGO	Alhambra ModTech	Alhambra, CA	NSTROUSE	818-308-0626/12
ANAHEIM	%ORANGECO	Anaheim UHSD	Anaheim, CA	GJANKEL	714-220-4088/12
ANSON	%NCAROLINA	Wadesboro MS	Wadesboro, NC	SGRIFFIN	704-694-4523/12
ARGO	%NJERSEY	Rutgers Prep	Somerset, NJ	KYEN	201-545-8668/12
BAIRES	%SANDIEGO	3 schools	Buenos Aires,Arg	AMATEU	011541361-3344/12
BELL	%SANDIEGO	Bell JHS	San Diego, CA	MCASEY	619-267-2807/12
BLADEN	%NCAROLINA	Bladen Co Schs	Elizabethtown,NC	HMCINTYR	919-862-8998/24
BREVARD	%SANDIEGO	Roy Allen Elem	Melbourne, FL	EWHITE	407-242-0370/03
CAG	%LAUSD	CA Assoc Gifted	Los Angeles, CA	SMOUNTFO	818-888-8846/03
CALPOLY	%SANDIEGO	Cal Poly Pomona	Pomona, CA	GSHAIL	714-869-2328/12
CAPRI	%SANDIEGO	Capri Elem	Encinitas, CA	JWHEAT	619-944-4365/12
CATAWBA	%NCAROLINA	Catawba Co Bd Ed	Hickory, NC	TBLEDSOE	704-256-8136/24
CENTRAL	%SANDIEGO	Central Elem	Encinitas, CA	MSANCHEZ	619-944-4328/12
CHALK	%NORCAL	Morrill MS	San Jose, CA	RWRIGHT	408-942-1425/24
CHTROAK	%SANDIEGO	Charter Oak	Glendora, CA	CGILKINS	818-963-2095/12
CMS	%SANDIEGO	Coronado MS	Coronado, CA	JFITZ	619-435-5831/03
CNUSD	%ORANGECO	Corona-Norco USD	Corona, CA	MMURPHY	714-736-3439/12
COLFAX	%NCAROLINA	Colfax Elem	Guilford Co., NC	LHUNT	919-993-3523/12
COOK	%NCAROLINA	Cook MS	WinstonSalem,NC	JDIXON	919-759-2747/12
CSUSB	%SANDIEGO	CalStateSanBerdo	SanBernardino, CA	SBONTRAG	714-887-9492/12
CTW	%NORCAL	*ChildTVWrkShop	NYC, NY	OALFONSO	212-595-4588/12
CUMBER	%SANDIEGO	Cumberland Schs	Cumberland, RI	CSANTOS	401-728-4964/03
CVUSD	%SANDIEGO	Cajon Valley USD	El Cajon, CA	CABEL	619-588-0948/12
DAVIDSN	%NCAROLINA	Extended Day Sch	Davidson Co, NC	RMIDGETT	704-956-1254/24
DESERT	%ORANGECO	Desert Sands USD	Indio, CA	MCOY	619-342-3979/12
DURHAM	%NCAROLINA	Durham Co Schs	Durham, NC	MCAMPBEL	919-560-3815/12
ELCNTR	%SANDIEGO	El Centro USD	ImperialValleyCA	BDUNCAN	619-353-9614/03
ENCINIT	%SANDIEGO	Encinitas Union	Encinitas, CA	SGRIFFIT	619-944-4316/12
ERICSON	%SANDIEGO	Ericson Elem	Mira Mesa, CA	PDOYLE	619-578-0312/12
ESC13IL	%ILLINOIS	Univ of Illinois	Champaign/Urbana	BBREHM	217-893-4569/12
ESCUSD	%SANDIEGO	Escondido Union	Escondido, CA	BSIMPSON	619-740-2420/03
FULLRTN	%ORANGECO	Fullerton Elem	Fullerton, CA	JLIEB	714-447-7496/12
GUILFRD	%NCAROLINA	Guilford Co Schl	Guilford Co, NC	LHUNT	919-271-0649/12
HARNETT	%NCAROLINA	Dunn Elem	Dunn, NC	MRABB	919-892-7923/24
HOLMES	%SANDIEGO	Holmes Elem	San Diego, CA	RSTITT	619-571-8764/12
HOOVER	%ILLINOIS	Hoover Elem	Schaumburg, IL	RHAUBNER	708-884-4912/12
HYDE	%NCAROLINA	Mattamuskeet HS	Swan Quarter, NC	ATROUSDE	919-926-0953/12
LACOSTA	%SANDIEGO	LaCosta Hts Elem	Encinitas, CA	TREEVE	619-944-4383/??
LAKESID	%SANDIEGO	Lakeside MS	Lakeside, CA	PBELL	619-390-2689/12
LANAI	%LAUSD	LA Tchr Training	Los Angeles, CA	DSMEDLEY	818-990-8961/24
LINC	%SANDIEGO	Lincoln JHS	Oceanside, CA	MJACKS	619-439-0614/03
LINCOLN	%ORANGECO	Lincoln	Lincoln, NB	JSHEDLOS	402-4669078/12
LLNL2	%NORCAL	LawrLivrLabSciEd	Livermore, CA	SSESKO	No Phone Access
MADERA	%NORCAL	Alpha Elem	Madera, CA	GBECKMAN	209-674-4801/24
MICRO5	%NCAROLINA	Micro-5 Users Gp	Alamance Co., NC	NHAYES	919-578-2549/24
MILLER	%SANDIEGO	Miller School	Australia	GBUTLER	????????????/??
MOORE	%NCAROLINA	Board of Educ	Carthage, NC	MBAGELY	919-947-3954/12
MT.CITY	%NORCAL	MontanaCity Elem	Montana City, MT	PZEPP	406-442-6737/12
NAPAVAL	%NORCAL	Vintage HS	Napa, CA	RHENDERS	707-253-3507/12
NASSAU	%NEWYORK	Nassau Co TRACT	Long Island, NY	SBITEL	516-877-1095/12
NCSDPI	%NCAROLINA	NC State Dept PI	Raleigh, NC	CDENNING	No Phone Access
NEWPORT	%ORANGECO	NewportMesaUSD	NewportBeach,CA	DEWING	714-556-3177/12
NHAMP	%NCAROLINA	Northampton BdEd	Jackson, NC	TGREENWE	919-534-3001/12
NJMCSIP	%NJERSEY	NJMathCmptrSci	Glassboro Col,NJ	KRIDEOUT	609-863-6561/24
NWHAVEN	%SANDIEGO	New Haven	New Haven, CN	ASOLIS	203-787-0042/12
OAKLAND	%NORCAL	Oakland USD	Oakland, CA	PHutcher	415-834-2636/12

FrEdMail Locations and BBS #'s Continued...

NODE	%REGION	System Name	Location	SysOp	Phone # /Baud
OAKSCHL	%SANDIEGO	Oakland SchlDist	Pontiac, MI	JVANDAM	313-858-1873/12
OCDE	%ORANGECO	Orange Co DeptEd	Orange County CA	MALLINGT	714-966-4313/12
OCNKNOL	%SANDIEGO	Ocean Knoll Elem	Encinitas, CA	MLATORRE	619-944-4357/12
OCNSIDE	%SANDIEGO	Jefferson JHS	Oceanside, CA	YANDRES	619-757-3180/12
OMSD	%ORANGECO	Ontario-Montclair	Ontario, CA	JSTCLAIR	714-986-9890/12
ORNGUSD	%ORANGECO	Orange USD	Orange, CA	JCRUM	714-997-6387/12
PBMS	%SANDIEGO	Pacific Beach MS	San Diego, CA	LTOCCO	619-483-2097/12
PDL	%SANDIEGO	ParkDaleLane Elm	Encinitas, CA	MWILSON	619-944-4398/12
PEPPER	%SANDIEGO	Pepperdine Univ	W Los Angeles,CA	TCANNING	213-568-5551/12
PERSON	%NCAROLINA	Person Co Schls	Roxboro, NC	DWARLICK	919-597-8528/24
PHILLY	%SANDIEGO	Philadelphia	Philadelphia, PA	DHARKINS	215-233-0240/12
POWAY	%SANDIEGO	Poway HS	Poway, CA	ESHIEH	619-748-4943/03
PSHS	%NCAROLINA	Person SHS	Roxboro, NC	RDIXON	919-599-4792/12
PTORICO	%SANDIEGO	UofPuertoRicoElem	Puerto Rico	MAYALA	809-761-3317/03
SACTO	%NORCAL	Sac CUE	Orangevale, CA	JCARVALH	916-989-1193/12
SANJOSE	%NORCAL	Berryessa USD	San Jose, CA	RWRIGHT	408-946-7325/24
SANMARC	%SANDIEGO	San Marcos HS	San Marcos, CA	REHRENFE	619-744-8547/03
SANTEE	%SANDIEGO	Santee Schools	Santee, CA	RDRESSEL	619-258-2204/12
SDCOE	%SANDIEGO	San Diego CoEduc	San Diego, CA	AROGERS	619-292-1816/12
SDSU	%SANDIEGO	SanDiegoStateUniv	SDSU, CA	BDODGE	619-594-3428/12
SDUSD	%SANDIEGO	San Diego USD	San Diego, CA	RFABIAN	619-295-9591/12
SECLLNL	%NORCAL	LawrLivrLabSciEd	Livermore, CA	SSESKO	415-373-1231/12
SHHS	%ORANGECO	Sunny Hills HS	Fullerton, CA	KGORDON	714-870-3423/24
SIRC	%NORCAL	*SciInservRuralCa	Los Molinos, CA	KKLINEST	800-248-5456/12
SLHS	%NORCAL	San Leandro HS	San Leandro, CA	BSHAYLER	415-895-0135/24
SNLNDRO	%NORCAL	San Leandro USD	San Leandro, CA	BSHAYLER	415-895-1785/12
SNMATEO	%NORCAL	*SanMateo CoEduc	San Mateo, CA	LFINKEL	415-697-4523/12
SOWEST	%SANDIEGO	Southwest HS	San Diego, CA	TFOSTER	619-575-5430/03
SWAIN	%NCAROLINA	Swain Co Schls	Bryson City, NC	LWINCHES	704-488-2290/12
SYSIDRO	%SANDIEGO	Beyer Elem	San Ysidro, CA	SGONZALE	619-428-4162/12
TROY	%SANDIEGO	Troy School Dist	Troy, MI	DLEA	313-689-0042/??
UIUCED	%ILLINOIS	Univ of Illinois	Champaign, IL	HKIM	217-333-2246/24
UNIBASE	%NORCAL	SaskatchewanEduc	Regina,SK Canada	LEIGH	306-789-0729/96
USIU	%SANDIEGO	U S Intl Univ	San Diego, CA	YANDRES	619-693-4582/12
VLYCNTR	%SANDIEGO	Valley Center	Valley Center,CA	JPERDUE	619-749-8745/12
WAKE	%NCAROLINA	Wake Co Schls	Raleigh, NC	DCARRIK	919-755-6096/24
WILSON	%NCAROLINA	Wilson Co BdofEd	Wilson, NC	EHALL	919-243-1601/12
WSALEM	%NCAROLINA	KimberleyPark El	Winston-Salem,NC	TCLAUSET	919-727-2529/24
WYOMING	%SANDIEGO	Wyoming Dept Ed	Cheyenne, WY	SKING	???-???-????/??

Notes:

1. a * after a system name in the list or before a system name on the map means that system is not yet active will become active.
2. El or Elem = Elementary school; MS = Middle school; JHS = Junior High school; HS = High School; SHS = Senior High School
3. To address email on the FrEdMail Net version 12, use the following format:
   <username>@<system_name>%<hub>

The username is the system name for the user to whom you are writing. Usernames are generated by combining the first letter of the user's first name with (up to) the first seven letters of the user's last name. For example, a user named Al Rogers would have username AROGERS and a user named Tony Anderson would have username TANDERSO. This is true on all FrEdMail systems so a user with accounts on several systems will have the same username on all of them. For example, to send email to Bob Shayler at the SNLNDRO node, address the mail to: BSHAYLER@SNLNDRO%NORCAL

The system name is the one listed for each node (BBS) on this map. The hub name is the area name given for groups of nodes all connected to a major hub point. Not all nodes are defined as part of hubs at this time. Generally, version 10 addressing should continue to be used until all major hubs are running version 12 with updated call.lists.

GBBS systems use the CMS version 12 addressing mode except that no hub need be identified. For example, to send email to Bob Shayler at the SNLNDRO node, address the mail to: bshayler@snlndro

To address email on the FrEdMail Net version 10, use the following format: <first node>!<next node>!<last node>!<user name> The first node is NOT the node you are calling when you send email but rather the first node to which the system you are calling is connected on the Network Map. An exclamation mark is used to separate each node's name from the next one in the address

You can always send email to SYSOP at a node if you do not know the name of a user there. The sysOp's name for each node is also shown on the Node List. For example, if you have your account at the PHILLY node, to send email to Bob Shayler at the SNLNDRO node, address the mail to: SDCOE!SNLNDRO!BSHAYLER

The following information has been provided by Leigh Calnek of UNIBASE, the FrEdMail gateway system to UUNET and FidoNet.

Use the following procedures to send mail to one of the following networks.

UUCP network

UNIBASE is connected directly to the UUCP network, thus sending mail to another person on UUNET is simple:

example: send mail to roe who is at system sobeco

The mail address would be (sending from FrEdMail):

- roe at sobeco snlndro!unibase!sobeco!roe
- stacy at mcl snlndro!unibase!mcl!stacy

UNIBASE maintains a full set of network maps, consequently it knows the path to sobeco or mcl. If we did not maintain a set of maps, then the user would have to enter the full path name to the destination.

FIDONET addressing

There are numerous gateways off the UUCP network to fidonet. To send mail to someone on the Fidonet network, you send the mail to a gateway point, and the address on the network. Again you must know the address of the person on the network. UNIBASE carries the maps for addressing on Fidonet.

example:

to send mail to leigh calnek on fidonet node the Regina Fido system, you would use the following address:

accessing the gateway, you would want the following address:

```
F19.N140.Z1.FIDONET.ORG!leigh.calnek
|  |  +------- the zone (north america)
|  +---------- the region (saskatchewan)
+------------- the node
```

Clearly, you must know the region and node to which the person you are sending mail to is located.

- To send to me from FrEdMail use the following addressing: snlndro!unibase!F19.N140.Z1.FIDONET.ORG!leigh.calnek
- To send to some other person associated with net 140/53 you would simply change the address of the 'F' or/and 'N' values as that is how Fidonet is organized. [If you have any difficulty with the posting to either of these networks, mail to me and I will do some more digging for you. - LEIGH@UNIBASE%NORCAL]

The FrEdMail Network of school based computer bulletin board systems is supported in part by Computer Using Educators (CUE), Inc. CUE is an organization of educators interested in the use of computer technology in education. For further information or to join, call 415-328-2248, or write to Computer-Using Educators, Inc., P. O. Box 2087, Menlo Park, CA 94026, or send USmail to CUE Executive Director Lynell Burmark.

Bob Shayler, SysOp of SLHS and SNLNDRO, provides this map as a service to the FrEdMail Network and MIX.

Bob Shayler	San Leandro High School	FrEdMail:BSHAYLER@SLHS%NORCAL
2600 San Leandro Blvd. #1801	2200 Bancroft Ave	IRIS:bshayler GEnie:bshayler
San Leandro, CA 94578	San Leandro, CA 94577	CIS:71545,371
415-357-6809 (h) 415-667-3541 (w)	415-895-0135 (SLHS BBS))	uucp: uunet!pyramid!cdp!bshayler

FrEdMail Central

SD County Office of Education
Linda Vista Road,
San Diego, CA 92111

To Instructional Technology Contact Person:

LEONARDO

JOURNAL OF THE INTERNATIONAL SOCIETY FOR THE ARTS, SCIENCES AND TECHNOLOGY

THE COMPUTER AND THE ARTS OF THE FUTURE

Electronic Art

Leonardo *Supplemental Issue*

This companion to the First International Symposium on Electronic Art held in Utrecht, the Netherlands, addresses topics in computer music, animation and graphics. Authors include Adriano Abbado, Brian Evans, Henry Flurry Mathias Fuchs, Philippe Menard, Michel Naranjo, Edward Zajec, and David Rosenboom.

ISAST Members: $15 Individuals: $30 Libraries: $58

The Fine Art, Science and Technology Database (F.A.S.T.)

The F.A.S.T. database includes art and music related bulletin boards, directors of resources, calendars of events and job opportunities. F.A.S.T. is accessible on MCI and ACEN on the WELL.

Annual Subscriptions (exclusive of on-line costs):
ISAST Members: $20 Individuals: $40 Libraries: $100

For more information send email to:
FAST @ garnet.berkeley.edu

Computer Art Theme Pack

Copies of frequently requested *Leonardo* articles on computer art. Authors include Richard I. Land, Robert Preusser, Robert Dewar, Stephen Wilson, Sonia Landy Sheridan, Susan Brennan, Theo Goldberg, Imric Bertok.

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Signature:

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LEONARDO

JOURNAL OF THE INTERNATIONAL SOCIETY FOR THE ARTS, SCIENCES AND TECHNOLOGY

ANNOUNCES

THE 1989 AND 1990 SIGGRAPH ART SHOW CATALOGS

Issued by ISAST with the Association for Computer Machinery Special Interest Group on Computer Graphics

Computer Art in Context

Guest Editor: MARK RESCH
Art Department, Rensselaer Polytechnic Institute

This special issue of *Leonardo* includes 73 color plates of the juried entries to the SIGGRAPH 1989 Art Show. Artists include Robert Mallary, Barbara Nessim, Manfred Mohr, Kenneth Snelson, Colette and Charles Bangert, Luz Bueno, and 50 others. Also in this issue, international scholars, computer graphics engineers and artists examine the state of computer art within historical, theoretical and technical contexts. Authors include Patric Prince, Donna Cox, Benoit Mandelbrot, Herbert Franke, Mihai Nadin and others.

ISAST Members: $15 Individuals: $30 Libraries: $58

Digital Image/Digital Cinema

Guest Editor: TOM LINEHAN
Visualization Laboratory, College of Architecture
Texas A & M University

The 1990 SIGGRAPH Art Show catalog highlights over 70 color plates of the juried entries to the show. Also presented are essays that address computer graphics and animation as a new media for the fine arts, along with articles by curators of previous SIGGRAPH art shows. Authors include Rudolf Arnheim, Michael Ester, Brian Evans, Timothy Binkley, John Berton and others. Available 1 August 1990.

ISAST Members: $15 Individuals: $30 Libraries: $58

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Leonardo is the foremost international forum for artists and others interested in the application of contemporary science and technology to the visual arts and music. Placing no restriction on artistic tendency, content or medium, *Leonardo* features articles written by artists about their own work, as well as discussions of new concepts, materials and techniques. Articles also address the historical, theoretical and educational issues surrounding innovative art forms.

Leonardo is the quarterly journal of the International Society for the Arts, Sciences and Technology (ISAST).

Leonardo Subscription: $40.00
(includes Associate Membership in ISAST)
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Visual Art, Mathematics and Computers

Selections from Leonardo

Edited by FRANK J. MALINA

A seminal reference book documenting the origins of computer art. Includes articles by Herbert Franke, Lancelot Law Whyte, Rudolf Arnheim, Jacques Monod, Stanley Hayter, Fred Whipple, Vera Molnar, and Anthony Hill.

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DISCOVER THE ARTS OF THE FUTURE

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>
> — RICHARD L LOVELESS, 1988

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>
> — STEWART BRAND, *WHOLE EARTH CATALOG*

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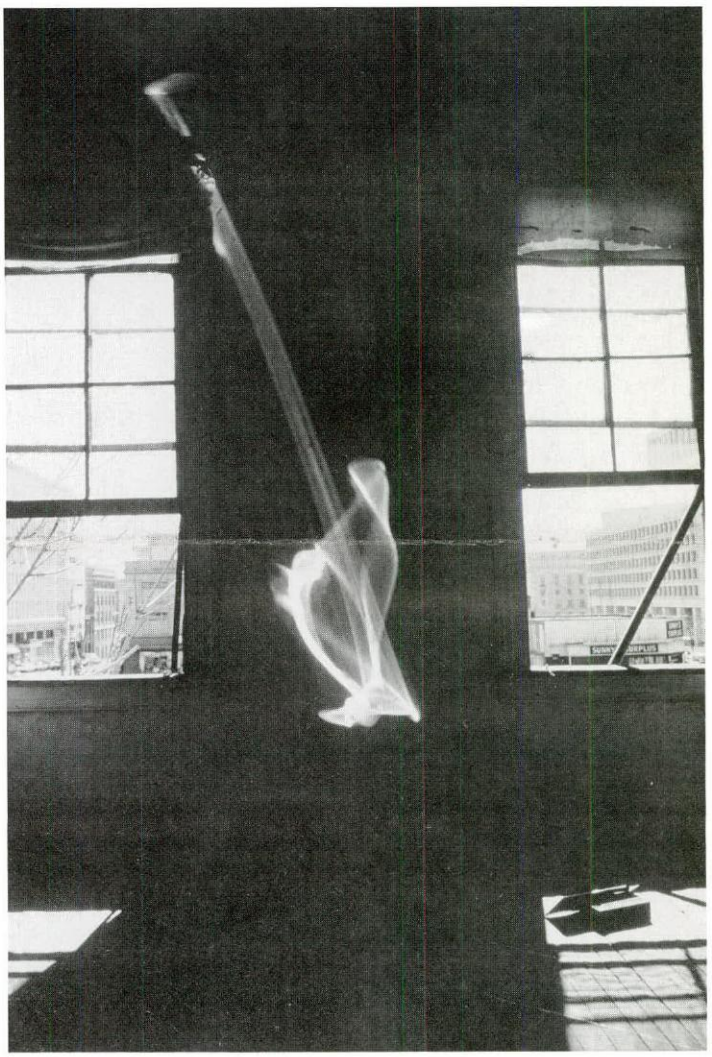

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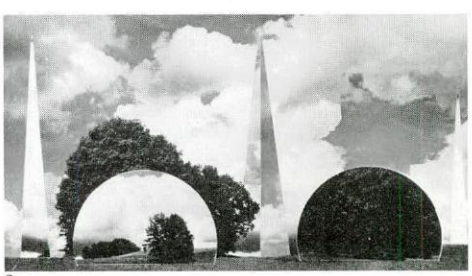

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The Journal Focuses on the Visual Arts:

- media
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- Articles by Artists
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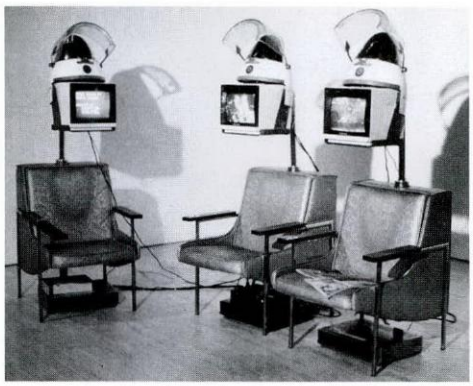

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Evelyn Rosenberg: Detonography™: The Creation of Bas-Relief Sculptures by Explosives

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LEONARDO is published by the International Society for the Arts, Sciences and Technology (ISAST), a non-profit society that seeks to encourage the use of contemporary science and technology in the arts.

In addition to publishing the journal, ISAST issues yearly awards in recognition of artistic excellence:

- The Frank J Malina-LEONARDO Prize recognizes an eminent artist who through a lifetime of work has achieved a synthesis of contemporary art, science and technology.
- The New Horizons Award for innovation in the arts and new artistic media.
- The Coler-Maxwell Medal for excellence of work reported in the journal LEONARDO.

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For detailed information about ISAST activities, including the bulletin boards, please write to:

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—JAN-ELIZABETH JAMES,
MA Graduate Student,
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Issue 18-4
with articles by Rita Bronowski, Gerald Holton, Jonas Salk, Bruce Mazlish, Clifford Grobstein, Paul Saltman and others.

Visual Art, Sound, Music and Technology
Issue 20-2
with articles by Bill Fontana, Rudolf Arnheim, John Whitney, Liliane Lijn, Charles Ames, François and Bernard Baschet and others.

Art of the Future–The Future of Art
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A special twentieth anniversary issue with articles by Arthur C Clarke, Robert Maxwell, Cyril Stanley Smith, Alvin Toffler, Frank Popper, Jasia Reichardt and others.

Art and the New Biology
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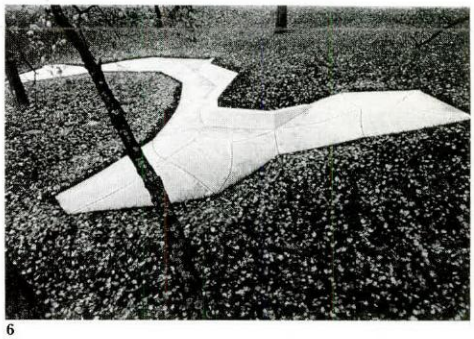
All Special Issues are in stock and can be ordered individually.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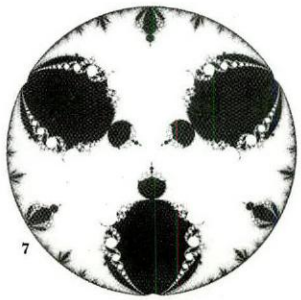
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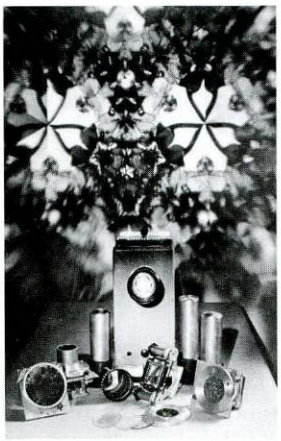
LEONARDO SUPPLEMENTAL ISSUE: ELECTRONIC ART

In conjunction with the First International Symposium on Electronic Art (FISEA) held in the Netherlands in 1988, LEONARDO announces the publication of a supplemental issue covering:



8

- computer music
- computer graphics and animation
- artificial intelligence and the arts
- and other electronic art forms

Contributors include:
Jürgen Claus, Robin King, N Magnenat-Thalmann, Lillian Schwartz, Joan Truckenbrod, Edward Zajec and David Rosenboom.

ISBN 0-08-036978-2
Price: US $30.00. ISAST members: US $15.00.

LEONARDO 20-YEAR SUBJECT AND AUTHOR INDEX

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ISBN 0-08-021854-7 (1979)
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********** This is PALS Main Menu **********

1) Instructions for using PALS
2) Your Officials
3) Calendar of Community Events
4) Community Organizations
5) School Find

Please enter a number or EXIT and RETURN ? 1

****

To return to this menu at any time type MAIN and press RETURN

Instructions for using PALS

The information in PALS is arranged in three separate databases:

YOUR OFFICIALS: lists members and meeting information for City of Pasadena boards, committees, and commissions and includes information on how to contact these individuals.

COMMUNITY CALENDAR: provides information about community events, including type of event, location, dates, sponsoring organization and times.

COMMUNITY ORGANIZATIONS: lists clubs and organizations as well as human service agencies.

Press RETURN to continue or type END and press RETURN to begin searching

All of the instructions you need to use PALS are printed at the bottom of each screen. There are three instructions that can be used at any point during your search:

type EXIT this will end your search entirely and automatically set the computer for the next user

type MAIN this will return you to the main PALS menu so that you can select a different database to search

type END this will return you to the menu within the database you are presently in

Press RETURN to continue or type END and press RETURN to begin searching

Special notes about interpreting the instructions:

Press RETURN	means to press the key marked RETURN
type LIST	a capitalized word following the word 'type' indicates that you are to type that exact word in response to the question
enter	if the system requests that you enter something it means that you should type some response followed by pressing the RETURN key
numbers	when you are requested to enter a number, the system is expecting a digit (i.e. 1,3; etc.)

You may now press RETURN to begin searching PALS

********** This is PALS Main Menu **********

1)Instructions for using PALS

2)Your Officials

3)Calendar of Community Events

4)Community Organizations

5)School Find

Please enter a number or EXIT and RETURN ? 2

****

To return to this menu at any time type MAIN and press RETURN

******** Pasadena Public Library PALS - Your Officials ********

1) Introduction to Your Officials

2) Search by BOARD OR COMMISSION.. (example: LIBRARY BOARD)

3) Search by NAME OF OFFICIAL (example: SMITH, JOHN)

4) Need help from a city department?

Select a number and press RETURN? 2
To return to PALS main menu type MAIN and press RETURN

Search by BOARD OR COMMISSION (example: LIBRARY BOARD)

You may do one of the following ...

- To see the entire list of boards and commissions type LIST and press RETURN
- To search by a board or commission, type the first three or more letters of the board name and press RETURN
- To return to the Your Officials menu type END and press RETURN
- To search a different PALS database type MAIN and press RETURN

Please do one of the above ? COM

... Starting search ...

***** Pasadena Public Library - PALS - Your Officials *****

You may tap the SPACE BAR to temporarily stop the index listing at any time -

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7) DESIGN COMMISSION
8) FINANCE COMMITTEE
9) FIRE AND POLICE RETIREMENT BOARD
10) FOOTHILL AREA COMMUNITY SERVICES-BOARD OF DIRECTORS
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12) HOUSING AUTHORITY
13) HOUSING TASK FORCE
14) HUMAN RELATIONS COMMISSION

Press RETURN to continue, or enter a number to review that listing in detail, or enter an asterisk and a letter (i.e. *B) to go to that part of the index? 1

PALS Ref. NO. 455 (13 more to show)

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Meeting loc'n : VARIES; CALL FOR INFORMATION.
: MEMBERS: BESSIE SHENK, FRANCINE GREER,
: BONNIE REED ARMSTRONG, MARY ALLEN, SHERRY
: PETERSON, DONNA B. SECUNDY, KATHLEEN WRIGHT
: LEROY, CARLOS MORALES, GEORGE VAN ALSTINE,
: DENISE H. WOOD, ELBIE HICKAMBOTTOM, OSCAR
: PALMER, JUDY S. MORSE.
:
:
Staff : FRANK JAMESON,YOUTH SVCS. COORDINATOR, PAS. POLICE
Chair : DENISE WOOD

Press RETURN to continue, or type END and press RETURN ?END

********** This is PALS Main Menu **********

1) Instructions for using PALS

2) Your Officials

3) Calendar of Community Events

4) Community Organizations

5) School Find

Please enter a number or EXIT and RETURN? 3

****

To return to this menu at any time type MAIN and press RETURN

***** Pasadena Public Library - PALS - Community Calendar of Events *****

1. Introduction to Calendar
2. Search by SUBJECT Example: CHAMBER MUSIC
3. Search by EVENT NAME Example: JUILLIARD STRING QUARTET
4. Search by DATE Example: 06-MAY-88
5. Search by LOCATION Example: AMBASSADOR AUDITORIUM
6. Search by SPONSOR Example: PASADENA PUBLIC LIBRARY

Select a number and press RETURN ? 4
To return to PALS main menu, type MAIN and press RETURN

**** Pasadena Public Library - PALS - Community Calendar of Events ****

Please enter the date you wish to see listed (example: 6-MAY-88)

? 6-MAY-88

or you may enter END and RETURN to go back to the Calendar menu

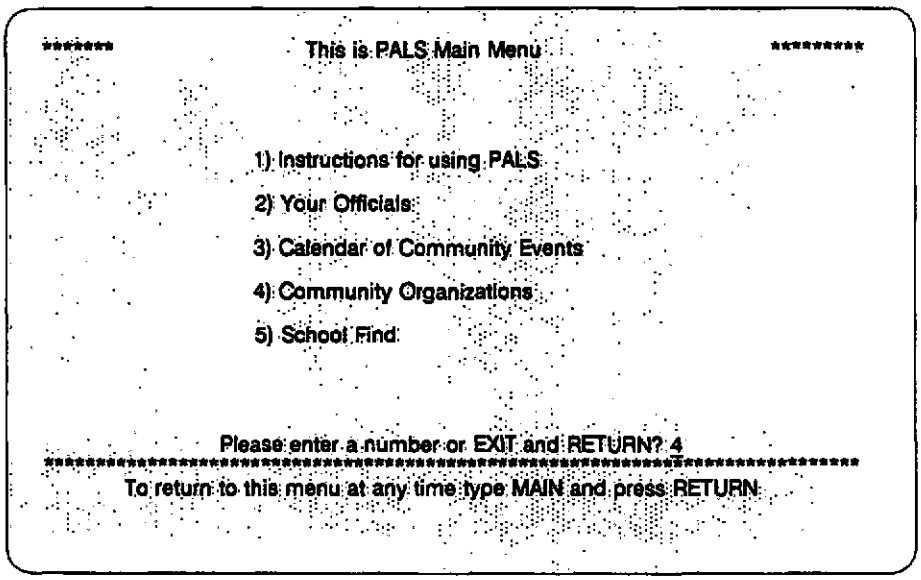
**** Pasadena Public Library - PALS - Community Calendar of Events ****
There are 42 events on file for 6-MAY-88

1) ADULT ACTING WORKSHOP/ PASADENA THEATRE COMPANY
2) BUILD IT! / PASADENA ART WORKSHOPS
3) CALTECH DAY / CALTECH OFFICE OF PUBLIC RELATIONS
4) CALTECH STUDENT CHAMBER CONCERT/ CALTECH
5) CHANGING LIGHT/ ART CENTER COLLEGE OF DESIGN
6) DESIGN / PASADENA ART WORKSHOPS
7) DRAWING AND PAINTING / PASADENA ART WORKSHOPS
8) EATON CANYON NATURE CENTER / EATON CANYON
9) ENGLISH AS A SECOND LANGUAGE / COMMUNITY SKILLS CENTER
10) FILMS FOR KIDS! / LAMANDA PARK BRANCH LIBRARY
11) HOWTOGET HELP FOR THOSE WHO DON'T WANTIT/ST.LUKE MEDICAL
12) INFANT STORY TIME / CENTRAL LIBRARY
13) INTENSIVE ENGLISH INSTITUTE - ESL / PCC ROOM C31
14) JOINT EFFORTS / EXERCISE / PASADENA SENIOR CENTER
15) OPEN BASKETBALL FOR YOUTH / VILLAPARKE COMMUNITY CENTER
16) PARENTING ISSUES FOR ADULT CHILDREN OF ALCOHOLICS / GRENINGER
17) PASADENA BIG BAND / PASADENA SENIOR CENTER
18) PASADENA CENTRAL LIBRARY TOUR / CENTRAL LIBRARY
19) PASADENA SOCIETY OF ARTISTS EXHIBIT / DESCANSO GARDENS

Press RETURN to continue or enter a number to display details ? 4

Event	: CALTECH STUDENT CHAMBER CONCERT
Category	: CHAMBER MUSIC
Time	: 8:00 PM/FRI
Location	: CALTECH - DABNEY LOUNGE
Street	: 322 S. MICHIGAN AVE.
City	: PASADENA, CA/91125
Phone	: 818-356-3652 OR 1-800-423-8849
Cost	: FREE
Age Group	: ALL
Starts	: 06-MAY-88
Ends	: 20-MAY-88
Sponsored by	: CALTECH PUBLIC EVENT
Additionl inf	: 06-MAY CONCERT WILL BE HELD IN RAMO AUDITORIUM

The above is based on information available prior to 31-JUL-87
This is PALS record # 81


******* This is PALS Main Menu *********
1) Instructions for using PALS
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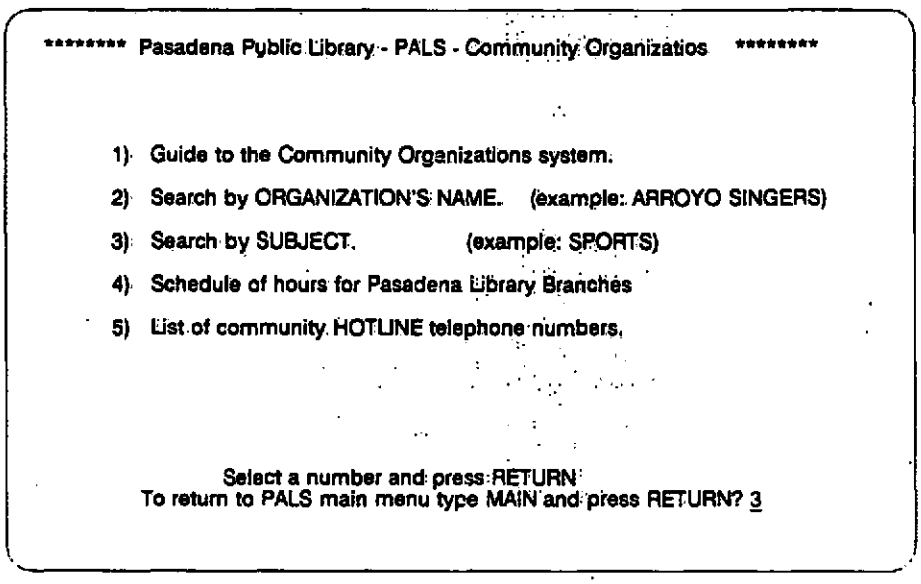
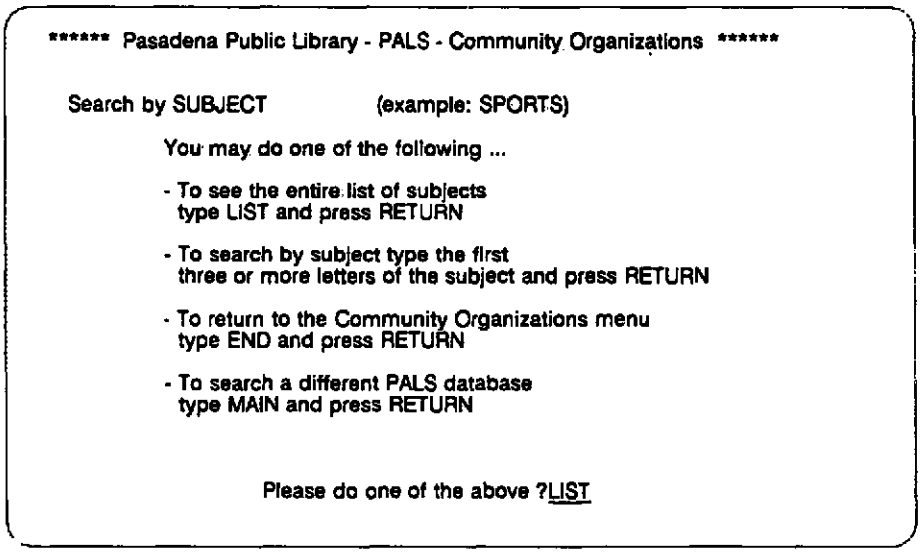
Please enter a number or EXIT and RETURN? 4
To return to this menu at any time type MAIN and press RETURN


******** Pasadena Public Library - PALS - Community Organizatios ********
1) Guide to the Community Organizations system.
2) Search by ORGANIZATION'S NAME. (example: ARROYO SINGERS)
3) Search by SUBJECT. (example: SPORTS)
4) Schedule of hours for Pasadena Library Branches
5) List of community HOTLINE telephone numbers.
Select a number and press RETURN
To return to PALS main menu type MAIN and press RETURN? 3


****** Pasadena Public Library - PALS - Community Organizations ******
Search by SUBJECT (example: SPORTS)
You may do one of the following ...
- To see the entire list of subjects
type LIST and press RETURN
- To search by subject type the first
three or more letters of the subject and press RETURN
- To return to the Community Organizations menu
type END and press RETURN
- To search a different PALS database
type MAIN and press RETURN
Please do one of the above ?LIST

*** Pasadena Public Library - PALS - Community Organizations ***
You may tap the SPACE BAR to temporarily halt the listing at any time -

1) ABUSED CHILDREN
2) ACQUIRED IMMUNE DEFICIENCY SYNDROME
3) ADOLESCENT GIRLS
4) ADOLESCENT MOTHERS
5) ADOLESCENT PARENTS
6) ADOPTION
7) ADULT EDUCATION
8) AFRICAN VIOLETS
9) AFRO-AMERICAN WOMEN
10) AFRO-AMERICANS--CIVIL RIGHTS
11) AFRO-AMERICANS--SOCIETIES, ETC.
12) AGE AND EMPLOYMENT
13) AGE DISCRIMINATION
14) AGE DISCRIMINATION IN EMPLOYMENT
15) AGED--COUNSELING
16) AGED--COUNSELING OF
17) AGED--DWELLINGS

Press RETURN to continue, or enter a number to review that listing in detail,
or enter an asterisk and a letter (i.e. *B) to go to that part of the index. 1

Index : ABUSED CHILDREN
(1 listing)
Name: CRITTENDON CENTER FOR YOUNG WOMEN AND INFANTS
Also known as: CRITTENDON CENTER
Address: 234 AVENUE 33
City/State/Zip: LOS ANGELES, CA/90031
Phones: 213-225-4211
Hours: ADMIN.:9:00 AM-5:00 PM, MON-FRI
How to apply: THROUGH DEPT. OF CHILDREN SVCS. AND DPT. OF PROBATION
Fees/Payment: THROUGH REFERRAL AGENCIES
Transportation: AVAILABLE FOR RESIDENTS ONLY
Language: ENGLISH, LIMITED SPANISH
Access: HANDICAPPED ACCESS AVAILABLE
Eligibility: AGES 12-18, DEPENDENTS OF JUVENILE COURT

Subjects: ADOLESCENT MOTHERS * PREGNANT SCHOOLGIRLS *
Subjects: ABUSED CHILDREN *
Description: RESIDENTIAL TREATMENT CENTER FOR ABUSED/NEGLECTED OR PREGNANT GIRLS, UNWED MOTHERS AND THEIR INFANTS
Source: OFFICE FOR CREATIVE CONNECTIONS

The above is based on information available to us prior to 8-JAN-88
You may enter M and RETURN to see more about this listing, or ...
Press RETURN to continue, or type END and RETURN ? M

CRITTENTON CENTER FOR YOUNG WOMEN AND INFANTS

CROSS STREETS: Griffin and Avenue 33

DIRECTOR: Sharon Watson, Ph.D.

DESCRIPTION: The Center provides the following programs and services:
- Full residential care
- Individual, group and family counseling
- A year-round, on-grounds educational program through the L.A. County Board of Education Special School Program
- Vocational training and practical skills classes
- Parenting training
- Recreational program and special interest activities
- Nursery with child care for school hours
- Health care and arrangements for pre-natal care
- Foster home placement for selected mother and child for Probation residents upon leaving the Center.

Press RETURN to continue, or enter END ?

The staff of the Center includes a consulting child psychiatrist, nurses, social workers, counselors, an activities coordinator, vocational counselor and administrative and support services personnel.

The Crittenton Center, founded in 1892, is a full-service, non-profit, private center serving young women in Los Angeles County. It is funded by referring agencies, grants and private donations.

OYCRI3.REF

Press RETURN to continue, or type END and RETURN ? MAIN

******* This is PALS Main Menu *********

1) Instructions for using PALS

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5) School Find

Please enter a number or EXIT and RETURN? 5

****

Looking at OAKWOOD ST for 1970

City : PASADENA
Zip code : 91104
Zone : 29
Block # : 07

Enter YES if that is your location or NO to search further ? YES

Schools for 1970 OAKWOOD (OAKWOOD ST)

ELEMENTARY	MIDDLE SCHOOL	HIGH SCHOOL
K-5 ELEMENTARY	6-8 MIDDLE SCHOOL *	9-12 HIGH SCHOOL *
WEBSTER	WASHINGTON MIDDLE	JOHN MUIR
798-7866	796-6708	796-7881
FILLHART,GERALDYNE	CHARLES,WILLIS	POWELL,FRANCES
2101 E WASHINGTON BLVD	1505 N. MARENGO	1905 LINCOLN
PASADENA	PASADENA	PASADENA
91104	91103	91103
K-5 Fundamental *	6-12 Fundamental	6-12 Fundamental
DON BENITO	MARSHALL	MARSHALL
351-6895	796-0713	796-0713
HESSION,ANNA MARY	SAPP,EFFIE	SAPP,EFFIE
3700 DENAIR ST	980 N ALLEN AVE	980 N ALLEN AVE
PASADENA	PASADENA	PASADENA
91107	91104	91104

* Asterisks indicate that authorized busing is available from this address
Enter MORE if you wish to see other addresses, or enter END ? END

******** — Utility Menu (Private) — *******

1) Your Officials entry
2) Calendar entry
3) Community Organizations entry
4) Statistics entry
5) Business entry
6) File transfer program
7) Message management system
8) Special Utilities

****

Please enter a number or EXIT and RETURN ? 2

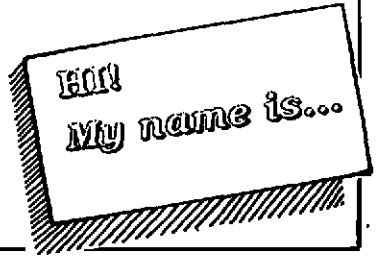
```
< Program to enter 'CALENDAR' information >   (Today is : 6-MAY-88)
                * There are 3757 listings on file - last indexed - 3757
 1) Event          :
 2) Category       :
 3) Time/Days      :
 4) Location       :
 5) Street         :
 6) City,State/Zip :
 7) Phone          :
 8) Cost           :
 9) Age Group      :
10) Start date     :
11) End date       :
12) Sponsor        :
13) Additional inf :
14) . text         :
15) . text         :
16) . text         :
17) . text         :
18) . text         :
-System use only-:
-Date of entry -  :
        Type your ENTRY (or any SINGLE letter) : 'A' to abort this screen,
        'S'kip to bottom, 'L'ook at others, 'R'ecall, or 'E' to end ? L
```

```
Start 'looking' with what numbered listing ? 500  Old listing # 500

 1) Event          :AFTER SCHOOL STORYTELLING
 2) Category       :STORYTELLING*CHILDREN'S STORIES*POTTER,BEATRIX*
 3) Time/Days      :2:00-5:00pm/WED
 4) Location       :KIDSPACE MUSEUM
 5) Street         :390 S. EL MOLINO AVENUE
 6) City,State/Zip :PASADENA,CA 91101
 7) Phone          :818-449-9144
 8) Cost           :$2.25
 9) Age Group      :CHILDREN
10) Start date     :30-SEP-87
11) End date       :30-SEP-87
12) Sponsor        :KIDSPACE MUSEUM
13) Additional inf :COME TO MEET BEATRIX POTTER AND HER ANIMALS. JOIN
14) . text         :HER FOR STORY TELLING AND A PRETEND TEA PARTY.
15) . text         :
16) . text         :DELETED! 2-OCT-87
17) . text         :
18) . text         :
-System use only-:
-Date of entry -  :11-SEP-87~SKT*
LINE # to change, RETURN to see next listing, or 'S' to stop looking ?S
```

```
< = =          Message system for specially authorized users only          = = = >

** You may select one of the following functions **


        (1) Write a memo or message
        (2) Send your message to someone
        (3) Read messages sent to you
        (4) Read the bulletin board
        (5) See a list of authorized users
        (6) Access the PALS system
        (7) Access the Data Pipeline
        (8) Change your 'verifier'
        (9) Sign off the system


        Enter a number, please ? EXIT
```

Community Organizations

This database lists clubs and organizations, as well as human services such as legal aid, health and consumer information, services for seniors, daycare and hotlines.



PALS

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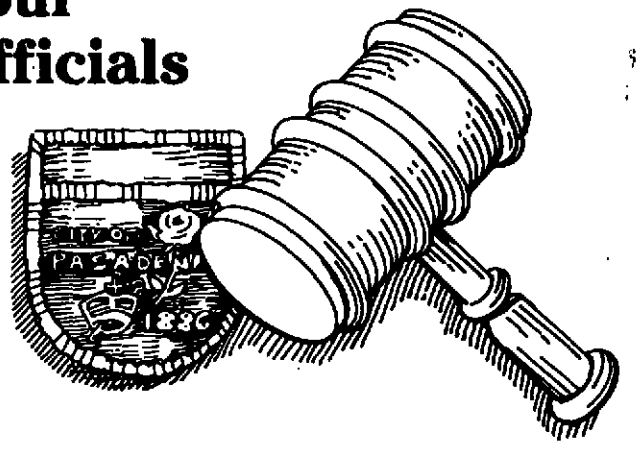
7/87

Your Officials



This database lists members and meeting information for local government boards, committees and commissions. Includes information on how to contact these individuals.

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PALS/PAsadena 6/1990 city pop = 9 libraries 8 branches, 1 central

- What is it.
  - a collection of databases develop over 5 yrs. to meet needs identified by community - 1982 identified highly organized community. ton of event, active community - lots of info to be shared newsletter, flyer, bulletins, but hard to track
  - Reference services trying to keep track, but it was a big mess.
- What does it do
  - Develop Pals w/ Cable TV → cable company had a hard time to get started - Ed Stevens, IMDA, Inc → used to work in radio - computer broadcast, rather than radio broadcast, → Demos - works w/ Glendale → smaller not available to community, → Long Beach, Riverside Co? - Berkeley?
- Who uses it
  - Wanted to develop stations on computer notebooks -
  - Databases - Public Info & events / Nonprofits. Ed Stevens provides commercial databases - series of linked micro computers - no central memory - system still development.
- What are the applications
  - "Paris" Personal Access Regional Information System
    - → schedule of local movie theatres,
    - → local restaurants → hrs, menu location
    - → developing BBS
    - → plans to develop a "Genie" you can order retail ~~cap~~ interactive capabilities - in local hotels - concierge - Hilton & Doubletree when you get PARIS you get PALS -

Subscription → 1st year = $60 - introductory rate ½ price.

PALS - 10% of fees to library.

- Cost benefits
  - a lot of libraries let people dial in from home
  - → Partnership.

(1408)
255-5141

makes gov. system a little more accessible

Databases

① Your Officials current listing of appointed & elected -

all info about boards & Commissions - bid indiv. by name of comm. when & where it meets who - staff supp. etc.

- league of ♀ Voters getting a terminal - will include
- Mayor's Secretary has terminal → inputs directly into system.

{ name address phone field representative directors, }

Always people's

② Calendar of Com. Events 1060 events - 69 for a single today.

searchable 5 different ways -
search by kind of event, event name, date, location, sponsor,

Future working to put in city organizational charts on - all agendas for boards of Commissions)

7 member board

③ Clubs & Organizations: ~~1000~~ 700 orgs *

name of org, subjects.

④ Human Services - not available to public yet

city focussing on being better at linking people w/ services. 350 H.S.

- people working not be sophisticated
- 2 tier searching - 20 different subject areas
- food shelter clothing healthcare services etc

- pull up a list of all subject headings.
- Quick search or guided search

record of agency: name, AKA, address, contact, phone eligibilities, transportation, language, disabled access, lengthy description,

trying to get groups to buy into putting their own informations.

- Orgs to get free subscription → for keeping info up to date.

come to library to enter.

terminal in each branch
dial-in from 8 places in - 1 public - internal
3 in Jules - in main center

1 Jackie Robinson Community Center

1 League of ♀ Voters

1 Pasadena Mental Health

Talked about the mall

Pasadena Mental Health Agency - setting in terminals

Library provides assistance in use.

Recreation Terminals in Community Centers. → Book info.

⑤ "School Find" - developed by consultants & School District
put in your home address & you find out what school will be assigned -
1 time value.
basic information

wants to include info about schools
tutoring
total day care
PTA membership
master calendar.
+ private schools -

- Library users → over 1000 uses a month
available to all city staff
all city departments can deal in.

access to city's main frame.
uses the city official database / & community events.

Visitor's & ~~Convention~~ Tourist Bureau → uses Pal's Calendar for Quarterly Calendar - distributed internationally

Arts Calendar - now

idea → talents bank
artists registry -

growing so fast, implementing etc.

Idea - PEN → trying to create Two-Way Talk (in development)

send message to city staff & mayor - build in time ✓ ~~Date~~

PALS has a life of its own. Widely used to get news city manager making available organization of the city.

24 hr. turnaround

Need to build support w/in city staff → started five years ago -

Public Library Foundation Fund – $'s given to library from California State Library. Used to enhance service

Currently a budget $100,000/year.

programmer's time – distribute commercial software

Staff in IMDA.

Supports users who are subscribing hardware.

Dec PPP 11 – dec is very interested in what we're doing.

PARIS FOR WORK

Businesses will first use the PARIS system as a handy, easy to use reference source, and secondly as a kind of personal assistant.

PARIS FOR HOME

Residential subscribers will find it useful to have community information and calendars at their fingertips, as well as the offerings of the commercial participants which will include goods, services, discounts, and shopping guides.

There truly will be something for everyone.

How is PARIS used?

If you are a subscriber, with your own personal computer or CRT terminal and a modem and telephone, you dial into your community PARIS station (a local telephone call).

The screen on your terminal then becomes your window to the wonders that PARIS has to offer, and your keyboard puts you in command of a myriad of different services and local informational databases.

If you don't have a terminal or personal computer, you can lease or purchase one through PARIS.

PARIS™ is a new venture of EMDA Inc., a computer systems development company in Pasadena, California. EMDA is also the developer of the *PALS*™ system which is now in operation at the Pasadena Public Libraries. *PARIS* is a *dynamic* system with new features added regularly. Coming additions to the *PARIS* system include a variety of online *special interest networks*. The *Family* Network, The *Business* Network, The *Sports* Network, The *Fine Arts* Network, and the *Youth* Network are some of those already in the development stage.

HOW DO YOU PARTICIPATE?

PARIS is a community project with a place for everyone interested in enjoying a computer assisted lifestyle. There are numerous ways to participate:
**Subscriber *Library User *Database Originator *Genii Provider *Advertiser *Sponsor*

If you are interested in becoming involved with the PARIS Project in one of the ways mentioned above, contact:

Edwin J. Stevens at EMDA, Inc.
77 North Oak Knoll #103
Pasadena, California 91101

(818) 795-5991

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THE PASADENA

PARIS

PROJECT

A pilot project introducing true computer-aided living to Pasadena.

PARIS™ is the name of an exciting project happening right here in the Pasadena area.

PARIS represents a totally new concept in accessing and exchanging *community-wide* information electronically.

Among many other local services *PARIS* offers the new Pasadena *P*ublic *A*ccess *L*ibrary *S*ystem *PALS*™ to homes and offices of subscribing Pasadena residents and businesses.

PARIS stands for *P*ersonal *A*ccess *R*egional *I*nformation *S*tation.

By special arrangement with the Pasadena Library, these useful *PALS* informational databases are accessible to PARIS subscribers directly from their homes or businesses.

*** COMMUNITY CALENDAR**

The calendar of local events of all kinds. The most complete, up-to-date source for Pasadena area events available anywhere.

*** COMMUNITY ORGANIZATIONS**

In depth information about area civic and fraternal organizations and clubs, community resources, with names, meeting places and times.

*** YOUR OFFICIALS**

Full descriptions of Pasadena's city government, its committees, commissions, and officials, who they are, what they do, and how to reach them.

***PASADENA SCHOOLS**

Type in any Pasadena area home address, see which schools are assigned to it, where to phone and to whom to talk.

You can also access the above databases at the Pasadena Central Library or at any of its eight branches. Just ask to use the PALS terminal.

AND COMING SOON TO PALS...

PASADENA LIBRARY BOOKS

The online catalogue of holdings of the Library will be available for browsing in the comfort of your own home.

PASADENA STATISTICS

A developing compendium of interesting Pasadena area statistical information.

PASADENA BUSINESSES

Who's who and what's what in the Pasadena local business community.

And in addition to PALS...

During the coming year PARIS will periodically be introducing the following, and other two-way information services.

DINING OUT

An exploration of the area's eateries. Choose a local restaurant by name, or browse through an index of hundreds of exotic menu items available right around the corner. Includes address, phone number, and type of cuisine.

WHAT'S AT THE MOVIES

What's playing at the local movies, selectable by the theater, or browsing through by title. Also ideal for VCR fans.

DOCTORS

This database includes names and specializations of local doctors.

JOB MARKET

Where people who want local jobs may find them, and where employers can find people to fill their job openings.

SWAP SHOP

Exchange goods and services without the inconvenience of money.

THE GRAPEVINE

A users' forum for airing views, writing critiques of movies, books, and restaurants, and just about anything else.

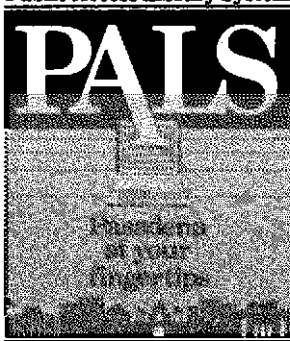
THE GENII

A unique service that will assist bosses, secretaries, and homemakers alike in doing almost anything.

Become a CHARTER Subscriber

A limited number of CHARTER subscribers are being sought from both the business and residential areas of our community. Charter subscribers will pay ony one-half the regular rate ! Registra-tion fees for CHARTER subscribers are $60 for residential users, $180 for businesses, and $90 for non-profit organizations.. The residential rate includes seven no-charge units per week, and the commercial and non-profit rates each include 14. Unlimited access is available after that for just one dollar for each additional user unit. A user unit varies according to time of day from 20 minutes up to 60 minutes. Some databases will carry a surcharge. This offer is available for a limited time only, and may be withdrawn by EMDA at any time.

Public Access Library System



Pasadena Public Library

Databases Available:

Community Organizations

School Find

Community Calendar

Your Officials

(818) 405-4052

PALS
Pasadena Public Library

Imagine having one computerized source for local information...

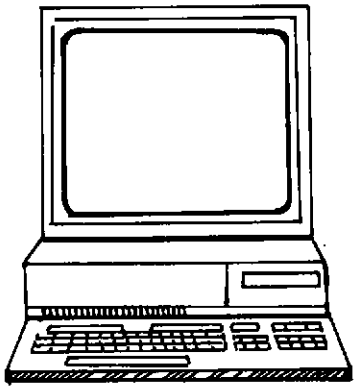
...you have it in
PALS
The Public Access Library System.

PALS is a computerized system designed to provide valuable local information to Pasadena residents. Information about cultural events, organizations, city government, and community resources and services are included in **PALS.**

PALS is a concise, centralized means of organizing and sharing information. Each database concentrates on specific information of current interest.

PALS is available via special computer terminals at all Pasadena Public Library locations. The **PALS** databases are accessible during all hours of library operation, including weekends and evenings.

PALS is a local community-based information system. The databases have been developed utilizing input from community members and information professionals. Community organizations, institutions, and groups are directly involved in entering and updating the information about their structure and activities.



Your Officials

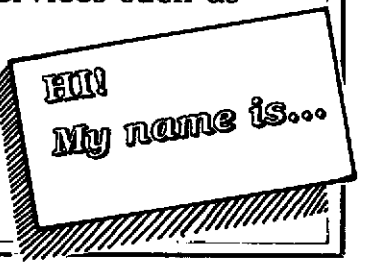
This database lists members and meeting information for local government boards, committees and commissions. Includes information on how to contact these individuals.

PALS
Public Access Library System • Pasadena Public Library

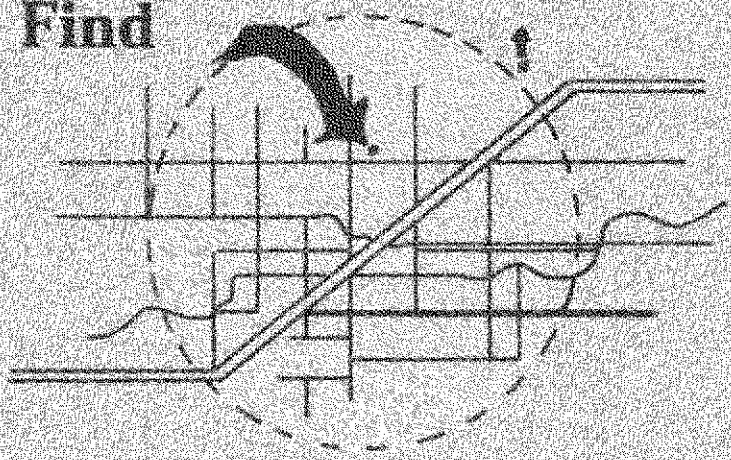
7/87

Community Organizations

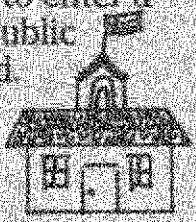
This database lists clubs and organizations, as well as human services such as legal aid, health and consumer information, services for seniors, daycare and hotlines.



School Find



This database enables residents to enter a street address to find out what public schools their children will attend.

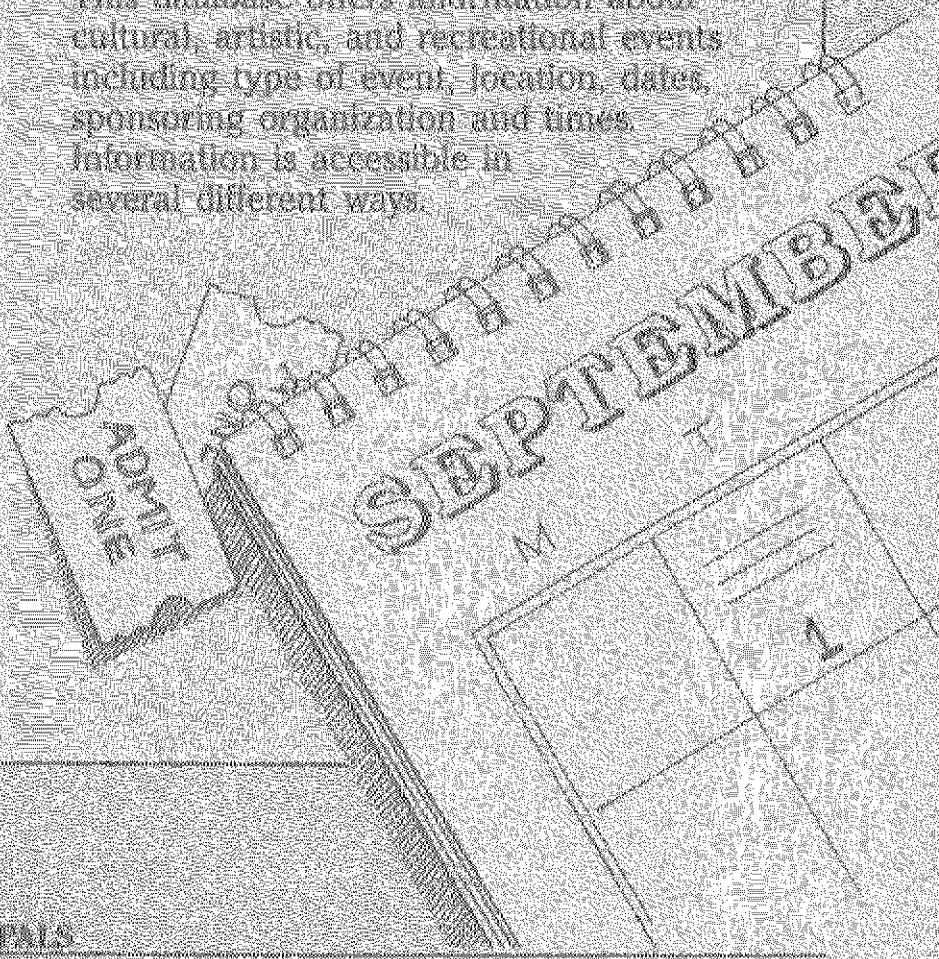


PALS

Public Access Library System • Pasadena Public Library

Community Calendar

This database offers information about cultural, artistic, and recreational events including type of event, location, dates, sponsoring organization and times. Information is accessible in several different ways.



PALS
Pasadena Public Library

Central Library
285 East Walnut St.
Pasadena, CA 91101
405-4066/405-4052

Allendale Branch
1130 S. Marengo Ave.
Pasadena, CA 91106
799-2519

Hastings Branch
3325 E. Orange Grove Blvd.
Pasadena, CA 91107
792-0945

Hill Avenue Branch
55 S. Hill Ave.
Pasadena, CA 91106
796-1276

Lamanda Park Branch
140 S. Altadena Dr.
Pasadena, CA 91107
793-5672

La Pintoresca Branch
1355 N. Raymond Ave.
Pasadena, CA 91103
797-1873

Linda Vista Branch
1281 Bryant St.
Pasadena, CA 91103
793-1808

San Rafael Branch
1240 Nithsdale Rd.
Pasadena, CA 91105
795-7974

Santa Catalina Branch
999 E. Washington Blvd.
Pasadena, CA 91104
794-1219

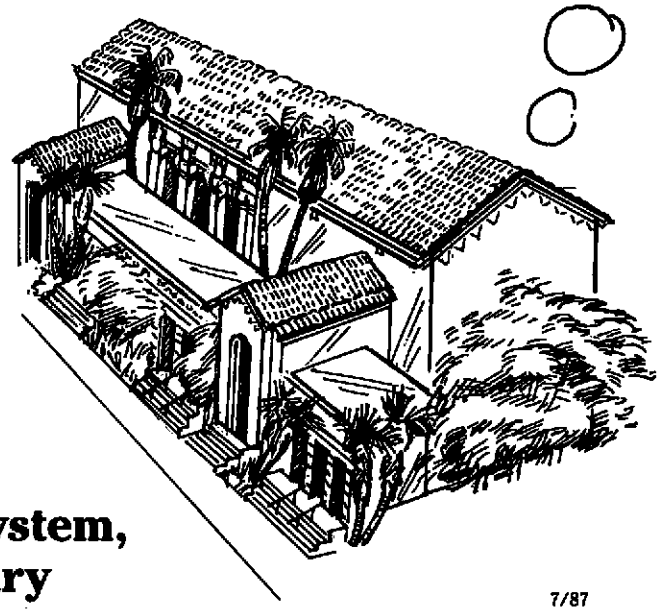
7/87

Databases available in PALS

For more information, or to become
involved in the PALS
project call:
Pasadena Public Library
(818) 405-4037 or (818) 405-4318

Imagine having one computerized source for local information...

We did.

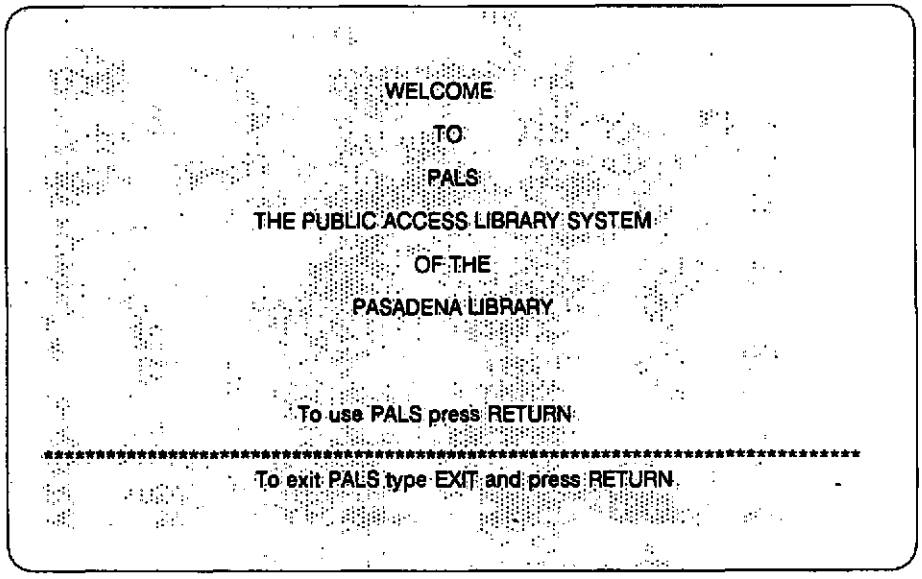


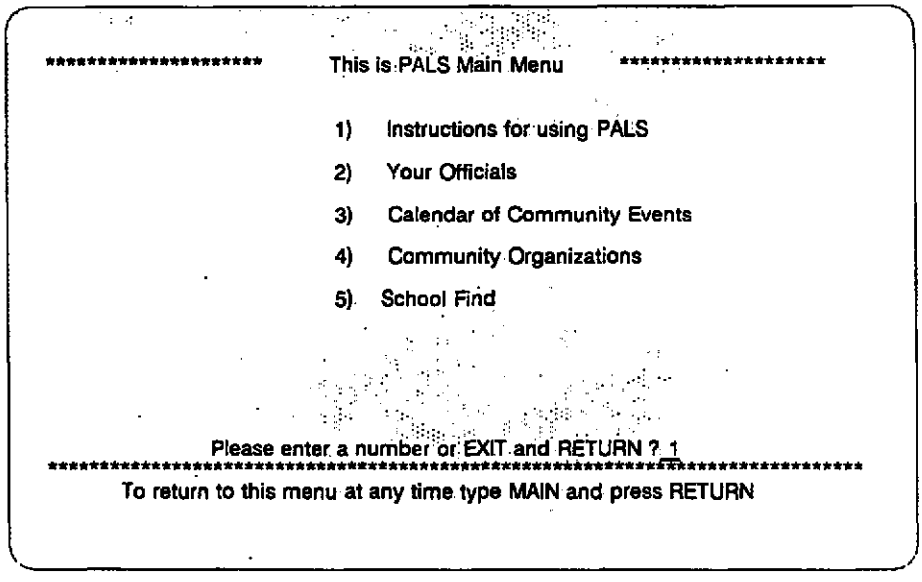
Pasadena Public Library has a computerized source for

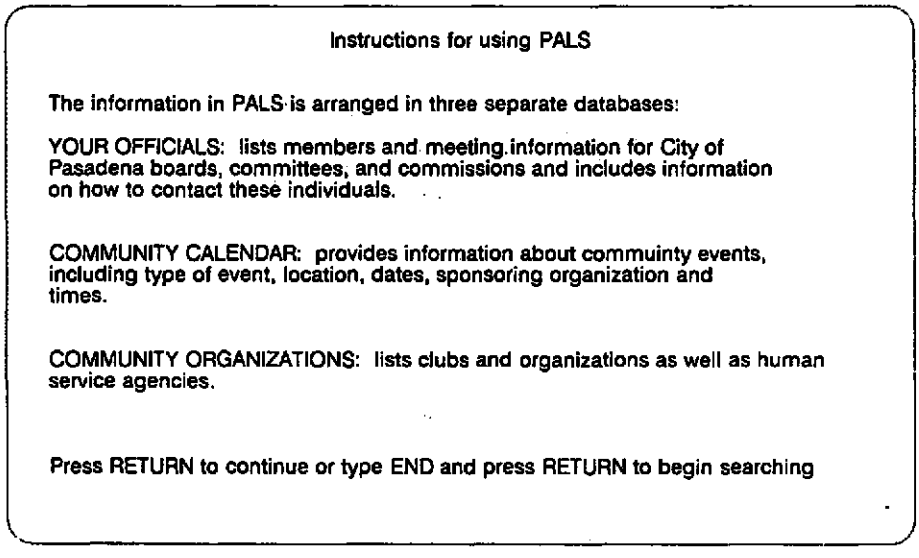
- Pasadena Community Events
- Local Organizations and Services
- Government Officials and Activities

Try PALS,
The Public Access Library System,
at any Pasadena Public Library

7/87


WELCOME
TO
PALS
THE PUBLIC ACCESS LIBRARY SYSTEM
OF THE
PASADENA LIBRARY
To use PALS press RETURN
To exit PALS type EXIT and press RETURN


This is PALS Main Menu
1) Instructions for using PALS
2) Your Officials
3) Calendar of Community Events
4) Community Organizations
5) School Find
Please enter a number or EXIT and RETURN ? 1
To return to this menu at any time type MAIN and press RETURN


Instructions for using PALS
The information in PALS is arranged in three separate databases:
YOUR OFFICIALS: lists members and meeting information for City of Pasadena boards, committees, and commissions and includes information on how to contact these individuals.
COMMUNITY CALENDAR: provides information about commuinty events, including type of event, location, dates, sponsoring organization and times.
COMMUNITY ORGANIZATIONS: lists clubs and organizations as well as human service agencies.
Press RETURN to continue or type END and press RETURN to begin searching

All of the instructions you need to use PALS are printed at the bottom of each screen. There are three instructions that can be used at any point during your search:

type EXIT this will end your search entirely and automatically set the computer for the next user

type MAIN this will return you to the main PALS menu so that you can select a different database to search

type END this will return you to the menu within the database you are presently in

Press RETURN to continue or type END and press RETURN to begin searching

Special notes about interpreting the instructions:

Press RETURN means to press the key marked RETURN

type LIST a capitalized word following the word 'type' indicates that you are to type that exact word in response to the question

enter if the system requests that you enter something it means that you should type some response followed by pressing the RETURN key

numbers when you are requested to enter a number, the system is expecting a digit (i.e. 1,3, etc.)

You may now press RETURN to begin searching PALS

********** This is PALS Main Menu **********

1)Instructions for using PALS

2)Your Officials

3)Calendar of Community Events

4)Community Organizations

5)School Find

Please enter a number or EXIT and RETURN ? 2

****

To return to this menu at any time type MAIN and press RETURN

******** Pasadena Public Library PALS - Your Officials ********

1) Introduction to Your Officials

2) Search by BOARD OR COMMISSION. (example: LIBRARY BOARD)

3) Search by NAME OF OFFICIAL. (example: SMITH, JOHN)

4) Need help from a city department?

Select a number and press RETURN? 2
To return to PALS main menu type MAIN and press RETURN

Search by BOARD OR COMMISSION (example: LIBRARY BOARD)

You may do one of the following ...

- To see the entire list of boards and commissions type LIST and press RETURN
- To search by a board or commission, type the first three or more letters of the board name and press RETURN
- To return to the Your Officials menu type END and press RETURN
- To search a different PALS database type MAIN and press RETURN

Please do one of the above ? COM

... Starting search ...

***** Pasadena Public Library - PALS - Your Officials *****

You may tap the SPACE BAR to temporarily stop the index listing at any time -

1) COMMISSION ON CHILDREN AND YOUTH
2) COMMISSION ON THE STATUS OF WOMEN
3) COMMUNITY DEVELOPMENT COMMISSION
4) COMMUNITY DEVELOPMENT COMMITTEE
5) CONFERENCE CENTER CORPORATION BOARD
6) CULTURAL HERITAGE COMMISSION
7) DESIGN COMMISSION
8) FINANCE COMMITTEE
9) FIRE AND POLICE RETIREMENT BOARD
10) FOOTHILL AREA COMMUNITY SERVICES-BOARD OF DIRECTORS
11) FOOTHILL EMPLOYMENT AND TRAINING CONSORTIUM
12) HOUSING AUTHORITY
13) HOUSING TASK FORCE
14) HUMAN RELATIONS COMMISSION

Press RETURN to continue, or enter a number to review that listing in detail, or enter an asterisk and a letter (i.e. *B) to go to that part of the index? 1

PALS Ref. NO. 455 (13 more to show)

Index : COMMISSION ON CHILDREN AND YOUTH (14 listings)
Name : *COMMISSION ON CHILDREN AND YOUTH
Street Address : 142 N. ARROYO PARKWAY
Room or Box # :
City/Zip : PASADENA/CA/91103
Phone : 818-405-4606
Member of : COMMISSION ON CHILDREN AND YOUTH
Meeting time : 2ND WED OF EACH MONTH AT 4:30 PM
Meeting loc'n : VARIES; CALL FOR INFORMATION
: MEMBERS: BESSIE SHENK, FRANCINE GREER,
: BONNIE REED ARMSTRONG, MARY ALLEN, SHERRY
: PETERSON, DONNA B. SECUNDY, KATHLEEN WRIGHT
: LEROY, CARLOS MORALES, GEORGE VAN ALSTINE,
: DENISE H. WOOD, ELBIE HICKAMBOTTOM, OSCAR
: PALMER, JUDY S. MORSE.
:
Staff : FRANK JAMESON,YOUTH SVCS. COORDINATOR, PAS. POLICE
Chair : DENISE WOOD

Press RETURN to continue, or type END and press RETURN ?END

********** This is PALS Main Menu **********

1) Instructions for using PALS

2) Your Officials

3) Calendar of Community Events

4) Community Organizations

5) School Find

Please enter a number or EXIT and RETURN? 3

****

To return to this menu at any time type MAIN and press RETURN

***** Pasadena Public Library - PALS - Community Calendar of Events *****

1. Introduction to Calendar
2. Search by SUBJECT Example: CHAMBER MUSIC
3. Search by EVENT NAME Example: JUILLIARD STRING QUARTET
4. Search by DATE Example: 06-MAY-88
5. Search by LOCATION Example: AMBASSADOR AUDITORIUM
6. Search by SPONSOR Example: PASADENA PUBLIC LIBRARY

Select a number and press RETURN ? 4
To return to PALS main menu, type MAIN and press RETURN

**** Pasadena Public Library - PALS - Community Calendar of Events ****

Please enter the date you wish to see listed (example: 6-MAY-88)

? 6-MAY-88

or you may enter END and RETURN to go back to the Calendar menu

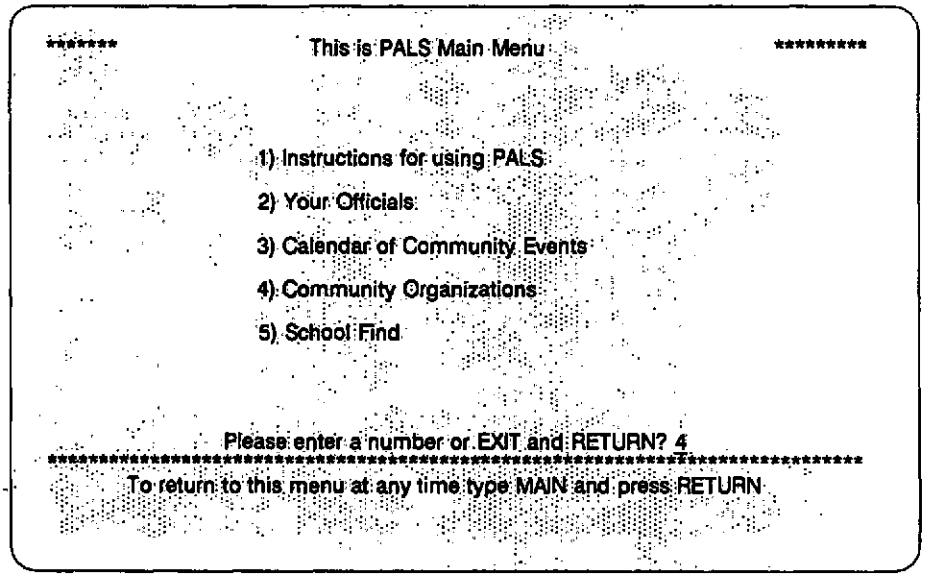
**** Pasadena Public Library - PALS - Community Calendar of Events ****
There are 42 events on file for 6-MAY-88

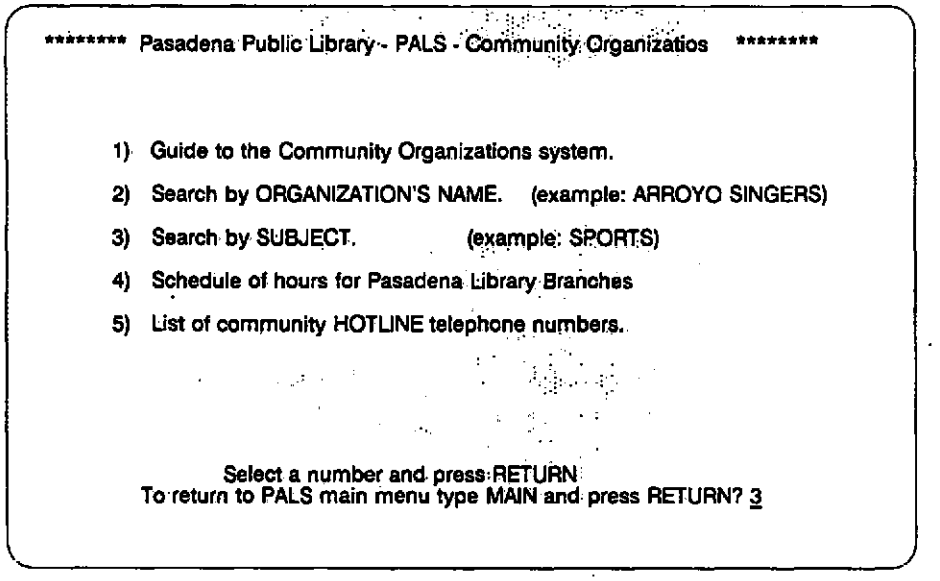
1) ADULT ACTING WORKSHOP/ PASADENA THEATRE COMPANY
2) BUILD IT! / PASADENA ART WORKSHOPS
3) CALTECH DAY / CALTECH OFFICE OF PUBLIC RELATIONS
4) CALTECH STUDENT CHAMBER CONCERT/ CALTECH
5) CHANGING LIGHT/ ART CENTER COLLEGE OF DESIGN
6) DESIGN / PASADENA ART WORKSHOPS
7) DRAWING AND PAINTING / PASADENA ART WORKSHOPS
8) EATON CANYON NATURE CENTER / EATON CANYON
9) ENGLISH AS A SECOND LANGUAGE / COMMUNITY SKILLS CENTER
10) FILMS FOR KIDS! / LAMANDA PARK BRANCH LIBRARY
11) HOWTOGET HELP FOR THOSE WHO DON'T WANTIT/ST.LUKE MEDICAL
12) INFANT STORY TIME / CENTRAL LIBRARY
13) INTENSIVE ENGLISH INSTITUTE - ESL / PCC ROOM C31
14) JOINT EFFORTS / EXERCISE / PASADENA SENIOR CENTER
15) OPEN BASKETBALL FOR YOUTH / VILLAPARKE COMMUNITY CENTER
16) PARENTING ISSUES FOR ADULT CHILDREN OF ALCOHOLICS / GRENINGER
17) PASADENA BIG BAND / PASADENA SENIOR CENTER
18) PASADENA CENTRAL LIBRARY TOUR / CENTRAL LIBRARY
19) PASADENA SOCIETY OF ARTISTS EXHIBIT / DESCANSO GARDENS

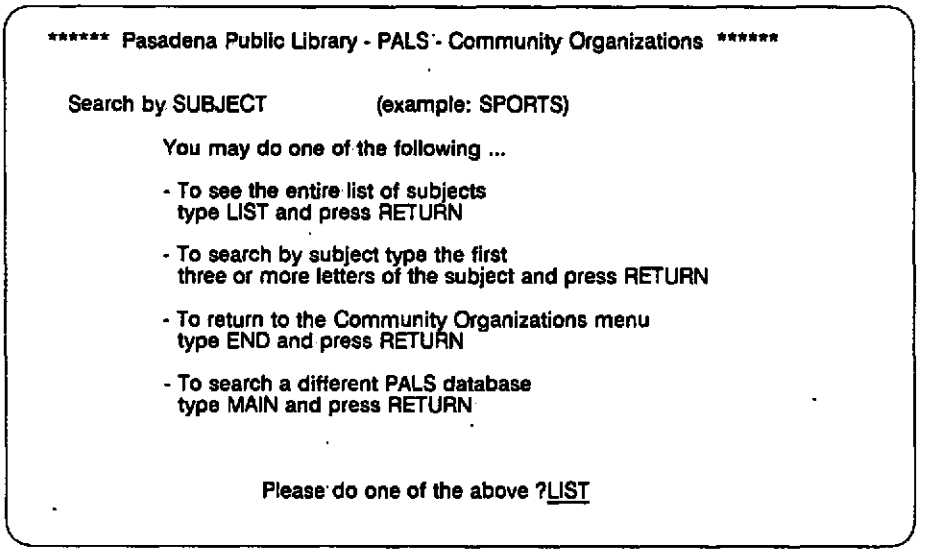
Press RETURN to continue or enter a number to display details ? 4

Event	: CALTECH STUDENT CHAMBER CONCERT
Category	: CHAMBER MUSIC
Time	: 8:00 PM/FRI
Location	: CALTECH - DABNEY LOUNGE
Street	: 322 S. MICHIGAN AVE.
City	: PASADENA, CA/91125
Phone	: 818-356-3652 OR 1-800-423-8849
Cost	: FREE
Age Group	: ALL
Starts	: 06-MAY-88
Ends	: 20-MAY-88
Sponsored by	: CALTECH PUBLIC EVENT
Additionl inf	: 06-MAY CONCERT WILL BE HELD IN RAMO AUDITORIUM

The above is based on information available prior to 31-JUL-87
This is PALS record # 81


******* This is PALS Main Menu *********
1) Instructions for using PALS
2) Your Officials
3) Calendar of Community Events
4) Community Organizations
5) School Find
Please enter a number or EXIT and RETURN? 4
To return to this menu at any time type MAIN and press RETURN


******** Pasadena Public Library - PALS - Community Organizatios ********
1) Guide to the Community Organizations system.
2) Search by ORGANIZATION'S NAME. (example: ARROYO SINGERS)
3) Search by SUBJECT. (example: SPORTS)
4) Schedule of hours for Pasadena Library Branches
5) List of community HOTLINE telephone numbers.
Select a number and press RETURN
To return to PALS main menu type MAIN and press RETURN? 3


****** Pasadena Public Library - PALS - Community Organizations ******
Search by SUBJECT (example: SPORTS)
You may do one of the following ...
- To see the entire list of subjects
type LIST and press RETURN
- To search by subject type the first
three or more letters of the subject and press RETURN
- To return to the Community Organizations menu
type END and press RETURN
- To search a different PALS database
type MAIN and press RETURN
Please do one of the above ?LIST

*** Pasadena Public Library - PALS - Community Organizations ***
You may tap the SPACE BAR to temporarily halt the listing at any time -

1) ABUSED CHILDREN
2) ACQUIRED IMMUNE DEFICIENCY SYNDROME
3) ADOLESCENT GIRLS
4) ADOLESCENT MOTHERS
5) ADOLESCENT PARENTS
6) ADOPTION
7) ADULT EDUCATION
8) AFRICAN VIOLETS
9) AFRO-AMERICAN WOMEN
10) AFRO-AMERICANS--CIVIL RIGHTS
11) AFRO-AMERICANS--SOCIETIES, ETC.
12) AGE AND EMPLOYMENT
13) AGE DISCRIMINATION
14) AGE DISCRIMINATION IN EMPLOYMENT
15) AGED--COUNSELING
16) AGED--COUNSELING OF
17) AGED--DWELLINGS

Press RETURN to continue, or enter a number to review that listing in detail,
or enter an asterisk and a letter (i.e. *B) to go to that part of the index. 1

Index : ABUSED CHILDREN
(1 listing)
Name: CRITTENDON CENTER FOR YOUNG WOMEN AND INFANTS
Also known as: CRITTENDON CENTER
Address: 234 AVENUE 33
City/State/Zip: LOS ANGELES, CA/90031
Phones: 213-225-4211
Hours: ADMIN.:9:00 AM-5:00 PM, MON-FRI
How to apply: THROUGH DEPT. OF CHILDREN SVCS. AND DPT. OF PROBATION
Fees/Payment: THROUGH REFERRAL AGENCIES
Transportation: AVAILABLE FOR RESIDENTS ONLY
Language: ENGLISH, LIMITED SPANISH
Access: HANDICAPPED ACCESS AVAILABLE
Eligibility: AGES 12-18, DEPENDENTS OF JUVENILE COURT
:
Subjects: ADOLESCENT MOTHERS * PREGNANT SCHOOLGIRLS *
Subjects: ABUSED CHILDREN *
Description: RESIDENTIAL TREATMENT CENTER FOR ABUSED/NEGLECTED OR PREGNANT GIRLS, UNWED MOTHERS AND THEIR INFANTS
Source: OFFICE FOR CREATIVE CONNECTIONS

The above is based on information available to us prior to 8-JAN-88
You may enter M and RETURN to see more about this listing, or ...
Press RETURN to continue, or type END and RETURN ? M

CRITTENTON CENTER FOR YOUNG WOMEN AND INFANTS

CROSS STREETS: Griffin and Avenue 33

DIRECTOR: Sharon Watson, Ph.D.

DESCRIPTION: The Center provides the following programs and services:
- Full residential care
- Individual, group and family counseling
- A year-round, on-grounds educational program through the L.A. County Board of Education Special School Program
- Vocational training and practical skills classes
- Parenting training
- Recreational program and special interest activities
- Nursery with child care for school hours
- Health care and arrangements for pre-natal care
- Foster home placement for selected mother and child for Probation residents upon leaving the Center.

Press RETURN to continue, or enter END ?

The staff of the Center includes a consulting child psychiatrist, nurses, social workers, counselors, an activities coordinator, vocational counselor and administrative and support services personnel.

The Crittenton Center, founded in 1892, is a full-service, non-profit, private center serving young women in Los Angeles County. It is funded by referring agencies, grants and private donations.

OYCRI3.REF

Press RETURN to continue, or type END and RETURN ? MAIN

******* This is PALS Main Menu *********

1) Instructions for using PALS

2) Your Officials

3) Calendar of Community Events

4) Community Organizations

5) School Find

Please enter a number or EXIT and RETURN? 5

****

To return to this menu at any time type MAIN and press RETURN

> SCHOOLFIND < 6-MAY-88

Please enter your street name ? OAKWOOD

What is the building number on OAKWOOD ? 1970

1970 OAKWOOD

Is that address correct ('Y' or 'N') ? Y

One moment, please, for searching ....

Looking at OAKWOOD ST for 1970

City : PASADENA
Zip code : 91104
Zone : 29
Block # : 07

Enter YES if that is your location or NO to search further ? YES

Schools for 1970 OAKWOOD (OAKWOOD ST)

ELEMENTARY	MIDDLE SCHOOL	HIGH SCHOOL
K-5 ELEMENTARY WEBSTER 798-7866 FILLHART,GERALDYNE 2101 E WASHINGTON BLVD PASADENA 91104	6-8 MIDDLE SCHOOL * WASHINGTON MIDDLE 798-6708 CHARLES,WILLIS 1505 N. MARENGO PASADENA 91103	9-12 HIGH SCHOOL * JOHN MUIR 798-7881 POWELL,FRANCES 1905 LINCOLN PASADENA 91103
K-5 Fundamental * DON BENITO 351-8885 HESSION,ANNA MARY 3700 DENAIR ST PASADENA 91107	6-12 Fundamental MARSHALL 798-0713 SAPP,EFFIE 990 N ALLEN AVE PASADENA 91104	6-12 Fundamental MARSHALL 798-0713 SAPP,EFFIE 990 N ALLEN AVE PASADENA 91104

* Asterisks indicate that authorized busing is available from this address
Enter MORE if you wish to see other addresses, or enter END ? END

******** ---- Utility Menu (Private) ---- *******

1) Your Officials entry
2) Calendar entry
3) Community Organizations entry
4) Statistics entry
5) Business entry
6) File transfer program
7) Message management system
8) Special Utilities

****

Please enter a number or EXIT and RETURN ? 2

```
 < Program to enter 'CALENDAR' information >   (Today is : 6-MAY-88)
              * There are 3757 listings on file - last indexed - 3757
 1) Event          :
 2) Category       :
 3) Time/Days      :
 4) Location       :
 5) Street         :
 6) City,State/Zip :
 7) Phone          :
 8) Cost           :
 9) Age Group      :
10) Start date     :
11) End date       :
12) Sponsor        :
13) Additional inf :
14) . text         :
15) . text         :
16) . text         :
17) . text         :
18) . text         :
-System use only-:
-Date of entry  -  :
        Type your ENTRY (or any SINGLE letter) : 'A' to abort this screen,
        'S'kip to bottom, 'L'ook at others, 'R'ecall, or 'E' to end ? L
```

```
Start 'looking' with what numbered listing ? 500  Old listing # 500

 1) Event          :AFTER SCHOOL STORYTELLING
 2) Category       :STORYTELLING*CHILDREN'S STORIES*POTTER,BEATRIX*
 3) Time/Days      :2:00-5:00pm/WED
 4) Location       :KIDSPACE MUSEUM
 5) Street         :390 S. EL MOLINO AVENUE
 6) City,State/Zip :PASADENA,CA 91101
 7) Phone          :818-449-9144
 8) Cost           :$2.25
 9) Age Group      :CHILDREN
10) Start date     :30-SEP-87
11) End date       :30-SEP-87
12) Sponsor        :KIDSPACE MUSEUM
13) Additional inf :COME TO MEET BEATRIX POTTER AND HER ANIMALS. JOIN
14) . text         :HER FOR STORY TELLING AND A PRETEND TEA PARTY.
15) . text         :
16) . text         :DELETED! 2-OCT-87
17) . text         :
18) . text         :
-System use only-:
-Date of entry  -  :11-SEP-87~SKT*
LINE # to change, RETURN to see next listing, or 'S' to stop looking ?S
```

```
< = =          Message system for specially authorized users only          = = = >

        ** You may select one of the following functions **

                (1) Write a memo or message
                (2) Send your message to someone
                (3) Read messages sent to you
                (4) Read the bulletin board
                (5) See a list of authorized users
                (6) Access the PALS system
                (7) Access the Data Pipeline
                (8) Change your 'verifier'
                (9) Sign off the system

                Enter a number, please ? EXIT
```

Public Access Library System
PALS
Pasadena at your fingertips
Pasadena Public Library

PALS FACT SHEET

WHAT IS PALS?

PALS is a computerized system designed to provide valuable local information to Pasadena residents. Information about cultural events, organizations, city government, community resources and services, and schools are included in PALS. The first four of seven planned files, or databases, are presently available.

WHAT DATABASES ARE AVAILABLE IN PALS?

YOUR OFFICIALS — Lists members and meeting information for local government boards and commissions. Includes information on how to contact representatives of these official bodies.

COMMUNITY CALENDAR — Offers information about cultural, artistic, and recreational events including type of event, location, dates, sponsoring organization and times.

COMMUNITY ORGANIZATIONS — Lists clubs and organizations, as well as human services such as legal aid, health and consumer information, and services for seniors.

SCHOOL FIND — Matches street addresses with school facility assignments for the Pasadena Unified School District.

Three additional databases will be available in the future. They are: Pasadena Statistics, Pasadena Businesses, and Library Materials.

WHERE AND WHEN IS PALS AVAILABLE?

PALS is available via special computer terminals at all Pasadena Public Library locations. The PALS databases are accessible during all hours of library operation, including weekends and evenings. You may also call any of our library facilities and the staff will search PALS for you.

Through an addition to your own computer, called a modem, PALS can be available from your home. A local Pasadena company, EMDA, provides this service through a system called PARIS. Ask us for further information about this convenient way to use PALS or call EMDA at 795-5991.

HOW IS THE COMMUNITY INVOLVED IN PALS?

PALS is a local community-based information system. The databases have been developed utilizing input from community members and information professionals. Community organizations, institutions, and groups are directly involved in entering and updating the information about their structure and activities.

All local and non-profit organizations, agencies and events are eligible to be listed. Contact the Pasadena Public Library to become a part of PALS...and increase your visibility in the community!

HOW IS THE INFORMATION IN PALS COLLECTED AND KEPT UPDATED?

We rely on a variety of resources including community organizations, cultural and educational institutions, social service agencies and Pasadena Public Library staff members to update the information. Easy entry instruction is available at all Pasadena Library locations.

WHY IS PALS IMPORTANT TO THE PUBLIC?

PALS is a concise, centralized means of organizing and sharing information about the local Pasadena community. Each database concentrates on specific information of current interest.

WHAT KIND OF HARDWARE AND SOFTWARE IS PALS RUN ON?

PALS operates on 7 Digital Equipment Corporation PDP 11 series computers, including 11/03, 11/23, 11/73's, linked together with computers serves as the host.

Data are stored on a variety of DEC R/L 01/02 drives or RL 01/02 compatible disk drives, including a Winchester drive. The system currently has 100 megabytes of storage.

PALS has been developed by EMDA, Inc. in conjunction with the staff of the Pasadena Public library. The programs that run PALS are written in DEC BASIC.

TO BECOME INVOLVED IN THE PALS PROJECT
or
IF YOU HAVE ANY QUESTIONS REGARDING PALS
please contact

PALS Project
Pasadena Public Library
285 E. Walnut Street
Pasadena, CA 91101
(818) 405-4052 or 405-4318

Raleigh Souther / Star-News

This unique perspective with a 16mm fisheye camera lens shows Victoria Johnson, adult services librarian, trying out the PALS systems as principal librarian Ann Cain, left, and Dorothy Potter watch

Making PALS of patrons

Library computer provides fast access to information about community events

By GLENN WHIPP
For the Star-News

PASADENA PUBLIC LIBRARY patrons are accustomed to finding a wide variety of books and magazines stored on the library's bookshelves. What they're not used to finding is the African Violet Society.

But find it now they will, along with 791 other community clubs and social services that are part of the library's new Public Access Library System (PALS). The system is being brought into public view through a series of open houses at branch libraries throughout Pasadena.

PALS may be new to the general public, but the idea is more than three years old. Librarians at the public library's main branch came up with the concept after being inundated with calls from local residents inquiring about community services or events.

"We had the information, but we didn't always know where it was," says Ann Cain, principal librarian for reference services. "We had no way to access all the fliers we were receiving from local groups. PALS gives us that access."

The system, programmed by Pasadena-based EMDA services, consists of four data bases — government officials, community calendar, community organizations and a school find.

The data base on local government gives the public access to all boards and commissions, telling when meetings are held and their location. The purpose of the commission is also given, so people know whether they are looking for the right one.

A community calendar is PALS' second data base. Close to 1,000 local events are listed, running through the end of the year and some into 1989. Library patrons can search for events by subject, location or even simply the date.

"If someone's looking for an idea for a Saturday night date, they'd just punch in the day and they'd find everything that's going on," Cain says.

The library keeps the file up to date by inviting members of community organizations to come by and enter their own information. This has been going on for the past year, and Cain says most people have adjusted to using the computer quite well.

"Some have come in and looked at the computer and yelled, 'Oh, no! I hate computers.' But groups like inputting their own information, and it's proved helpful in eliminating any conflicts of interest. PALS is a good way to keep two groups from scheduling their major fund-raisers on the same day or weekend."

Community organizations make up the third PALS data base. Everything from thrift shops to substance-abuse programs can be found. Groups are given an unlimited amount of space to provide information about their organization and its activities.

The last data base is a school find, matching street addresses with school facility assignments throughout the Pasadena Unified School District.

Cain says three more bases are planned, designed to provide residents with information about Pasadena demographics, businesses and library holdings.

The Pasadena Library is the only system in the Southland that currently has a public access system such as PALS, although EMDA President Ed Stevens recently sold a similar program to the Glendale Public Library. The difference between the two systems, Stevens says, is that PALS can be accessed by the public, Glendale's only through a librarian.

In a way, that's appropriate, given Pasadena's astronomical percentage of library users. Library usage in Pasadena runs 60 percent, compared to 25 percent to 30 percent in most other cities.

"People use this library system, and that's a big part of the reason PALS was created," Cain says.

And starting Wednesday, people wanting to use PALS won't even have to leave their homes. EMDA has developed a home-access system, allowing residents to enter PALS through their home computers. Cost is $60 per year, giving subscribers one free access a week.

But for the moment, home access is only for a small segment of the population. The library has declared May PALS month, scheduling open houses at each branch to demonstrate the service. Those attending are run through a treasure hunt on the computer, an exercise designed to be both entertaining and educational.

"The system is not that hard to use and people are finding that out," Cain says. "We designed it both for people who are computer literate and for those who have never used a terminal in their lives. And we haven't found anybody who can't use it without a little training."

And be forewarned: Use of PALS can prove addicting.

"We were having an open house at one library branch, and a patron came in and couldn't wait for the open house to be over, so she could use PALS," says administrative services librarian Victoria Johnson. "We're hoping that kind of feeling becomes contagious."

Please see PALS, Page C-4

PALS: Access to information

Continued from Page C-1

285 East Walnut Street

Public Access Library System
PALS
Pasadena
at your
fingertips
Pasadena Public Library

Pasadena, CA 91101
(818) 405-4052

CALENDAR UPDATE

EVENT: _____

_____

TIME: _____

LOCATION: _____
(ADDRESS)

_____

_____

TELEPHONE: _____

COST: _____

AGE GROUP: _____

START DATE: _____ END DATE: _____

SPONSOR: _____

ADDITIONAL
INFORMATION: _____

_____

_____

PLEASE RETURN THIS FORM TO:

PALS PROJECT
SALLY KOUSSER
PASADENA PUBLIC LIBRARY
285 E. WALNUT
PASADENA, CA 91101

(818) 405-4318

Public Access Library System

PALS

Pasadena at your fingertips

Pasadena Public Library

Public Library Access System
Pasadena Public Library

PALS UPDATE

January 1990

Human Services In PALS

DAY CARE CENTERS ... HEALTH CARE FOR THE ELDERLY...SERVICES FOR DISABLED PERSONS...HOT-LINES...

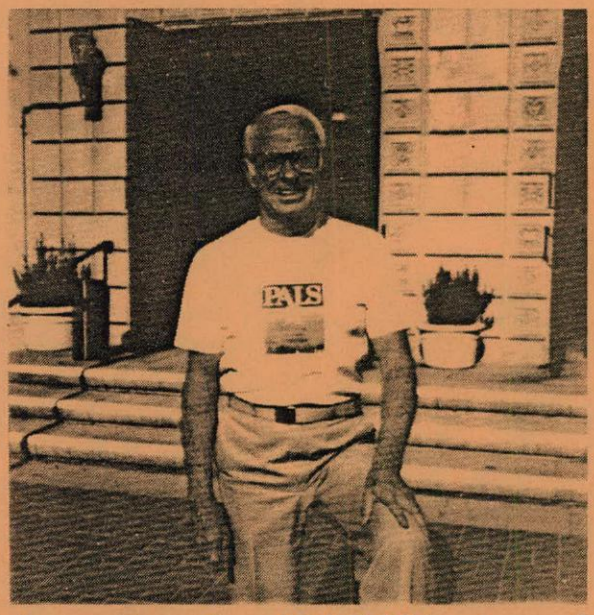
Did you know that PALS lists over 300 information and referral organizations that provide access to a wide range of human services?

Besides showing name, address and telephone number, the PALS screen also provides hours of operation, how to apply for services, the fees (if any), transportation information, languages spoken, eligibility requirements and a useful description of the services provided.

By using PALS, you can locate organizations by subject as well as by name. Because PALS is updated on a daily basis, you can count on current as well as accurate information.

The PALS PROJECT staff is currently working in conjunction with city of Pasadena Community Services personnel to create a new PALS database solely devoted to human services.

Please take advantage of this useful community resource. When you are in need, let PALS be your first step toward finding a solution.



Larry Rough – PALS Volunteer of the Year ***(Please see page 3 for article)***

PALS Makes Art Scene

Almost 300 Arts Fair attendees visited the PALS table at the **Pasadena Arts Council's** Arts and Crafts Fair held November 11-12 at Central Park last month. We printed out sample screens for both art related events and holiday events to give potential users a taste of what PALS can do for them.

Besides providing free informational and promotional materials we also sold PALS t-shirts and mugs to holiday shoppers.

(Continued on page 4)

New Partnerships Benefit PALS

When Mary Ausloos of the **Pasadena Convention & Visitors Bureau** approached us with their plan to publish a quarterly Pasadena Community Calendar we were ecstatic. What better way to access current local community information than through PALS? And what a great way to promote PALS to the public!

The Convention & Visitors Bureau handled an initial mailing to Pasadena organizations, clubs and agencies telling them about their project. Mailers were included which requested information on events which were upcoming. This information was sent directly to the PALS PROJECT at the Pasadena Public Library for immediate entry into PALS. A printout of the information was then presented to the Convention & Visitors Bureau for publication of their first Calendar of Events.

All organizations initially contacted by the Bureau were advised that they must continue to provide information to the PALS PROJECT in order to be represented in the quarterly published calendar.

The response has been terrific. This is a chance for the organizations to get nationwide publicity as the Bureau gets information requests from all over the United States. This also aids the PALS PROJECT in insuring that we are providing current and accurate information to our library users.

REMEMBER: in order for a group to continue to appear in the Bureau's quarterly Calendar they will need to provide the PALS PROJECT with updates of their community events!

Hopefully this will also be an opportunity to introduce organizations not yet in PALS to the benefits of being an active part of our computerized community information bank.

If you would like to see a copy of the completed Calendar contact either Sally Kousser, PALS PROJECT, (818) 405-4318 or the Pasadena Convention & Visitors Bureau, (818) 795-9311.

* * * * * * * * * * * * * * * * *

The **OFFICE FOR CREATIVE CONNECTIONS** at All Saints Church is currently gathering information concerning health care for children and youth. They will be publishing a print directory of local Pasadena resources. Once again PALS came to mind, as Director Lorna Touryan Miller contacted us to see if we could assist.

Through the use of computer technology, PALS produces a mailer which includes a printout of each organization's entry. These are sent out to each group with the request that they update and return the information to us so that we can make corrections and input the information into PALS. A printout of the updated material is then available for the Office of Creative Connections. And we have benefited by adding accurate and current information to the PALS database.

For further information please contact Ms. Miller at (818) 796-1172.

NOTE: CAN PALS ASSIST YOUR ORGANIZATION IN SOME SIMILAR WAY? PLEASE COMPLETE PALS SURVEY IN THIS ISSUE TO LET US KNOW HOW WE CAN JOIN FORCES TO MAKE PALS WORK FOR YOU!

Volunteer of the Year
Larry Rough

Although he considers himself a Johnny-come-lately with computers, it was this interest in computers which initially led Larry Rough to volunteer for the PALS Project.

Now, after eight months of volunteering, Larry feels right at home--perhaps because he works at home using his own terminal--entering calendar and organization information into the PALS databases. He contributes an average of six hours per week to this task, mostly on Saturdays and Sundays when phone lines are clear.

Being generous with his time and energy, Larry's volunteer efforts at the Pasadena Arts Council--editing their calendar for two years--led to a chain of volunteering. When contacted by PALS staff for current information on the Arts Council, Larry became intrigued with the system and volunteered to help input data into PALS. Recently, while entering information about the All Saints Church project for AIDS victims, he once more became involved--raising over $400 dollars for their cause!

Born and raised in Dallas, Texas, Larry spent twenty years in Chicago before moving to Southern California fifteen years ago. While growing up he and his three brothers each took their turn working at a local library. Larry started while still a junior in high school. "It's a wonderful thing to grow up with a library. Naturally, that's why I gravitated to the library when I came to Pasadena three years ago," says Larry. "Maybe that's why I have a library of my own which lines one whole wall at my house," he added.

Whether it was his love and familiarity with libraries or PALS itself that brought him to our doorstep, we are extremely grateful for his time and commitment to the project. Larry Rough--we salute you!

Pasadena City Employees Trained

This Spring the PALS Publicity Committee began hour-long training sessions with city employees to teach them how to access PALS through their office computers. Over 50 employees participated in our pilot program--which included hands-on experience in learning to get into and out of PALS successfully.

While this first session was attended by employees chosen by their department heads to participate, a second session was offered through the city's computer training program to city employees at large. We were pleased to discover a wide interest in PALS on the part of city employees, and have successfully completed the training of over 20 new PALS users. The interest was so great that we added extra classes this quarter, and will offer the course again this year.

Icing on the Cake: PALS Promotional Program Wins Award

What good is a resource like PALS unless people know about it and use it. . .?

This issue was met head on by the Pasadena Public Library's PALS Publicity Committee in 1988 when we prepared to introduce the public to our exciting new resource.

The Committee consisted of Pasadena Public Library personnel representing a variety of departments in the system. A publicity plan and timeline was developed in the Winter of 1987-88, and the year-long plan was convened.

Our target groups included the public, the library profession, the Pasadena Public Library staff and other city employees. Our campaign included the design of a PALS logo, and the production of such promotional materials as buttons, balloons, t-shirts, bookmarks, stationery, mugs, business cards, pencils, posters and book bags.

To meet the demand for information about PALS, we developed information packets which have now been distributed to hundreds of interested individuals. We also prepared a slide/tape presentation which has now been shown to numerous community groups, library professionals, and has been used effectively in our training sessions.

Open Houses at each of our nine library locations and a PALS treasure hunt were designed to encourage the public to learn more about the easy-to-use system.

And what were the results of our publicity efforts? Not only did the usage of PALS increase to over a thousand users a month, along with an increase in the number of groups included in the database, but the American Library Association chose to honor the Publicity Committee's work with its prestigious John Cotton Dana Award for excellence in library public relations.

Now that's definitely icing on the cake!

Public Access Library System

PALS

Pasadena at your fingertips

Pasadena Public Library

PALS Makes Art Scene

(Continued from page 1)

We were able to reach people who were not only unfamiliar with PALS but unfamiliar with the Pasadena Public Library's services as well.

Let us know if <u>your</u> group would like us to provide similar information at your next major event.

PALS Table at the Pasadena Arts Council's Arts and Crafts Fair held November 11-12 at Central Park.

PALS SURVEY

____ I would like more information about PALS.

____ Please send more ORGANIZATION UPDATE or CALENDAR UPDATE forms. (Circle one or both.)

____ I would like to be trained to input data into PALS for my organization.

____ I would like to volunteer my time to help with the PALS PROJECT.

____ I would like to discuss a collaborative project (see article, pg. 2 "New Partnerships. . .").

NAME:_____TEL.(H)_____(W)_____

ORGANIZATION_____

ADDRESS_____

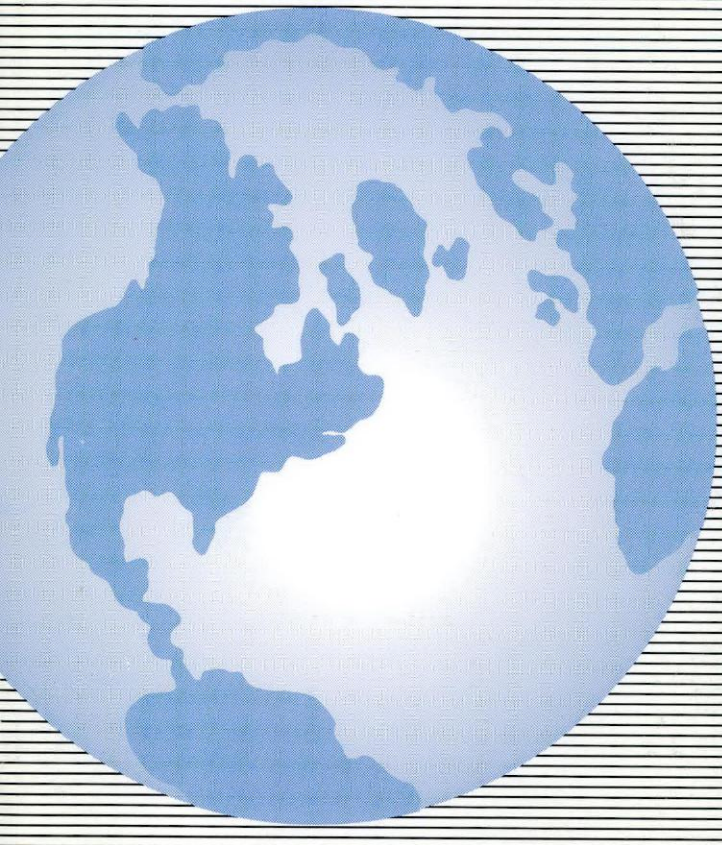
_____

PLEASE MAIL THIS SURVEY TO: SALLY KOUSSER, PALS PROJECT
PASADENA PUBLIC LIBRARY
PASADENA, CALIFORNIA 91101
(818) 405-4318

Public Access Library System
PALS
Pasadena
at your
fingertips
Pasadena Public Library

285 East Walnut St.
Pasadena, CA 91101

PERFORMANCE
SYSTEMS INTERNATIONAL, INC.



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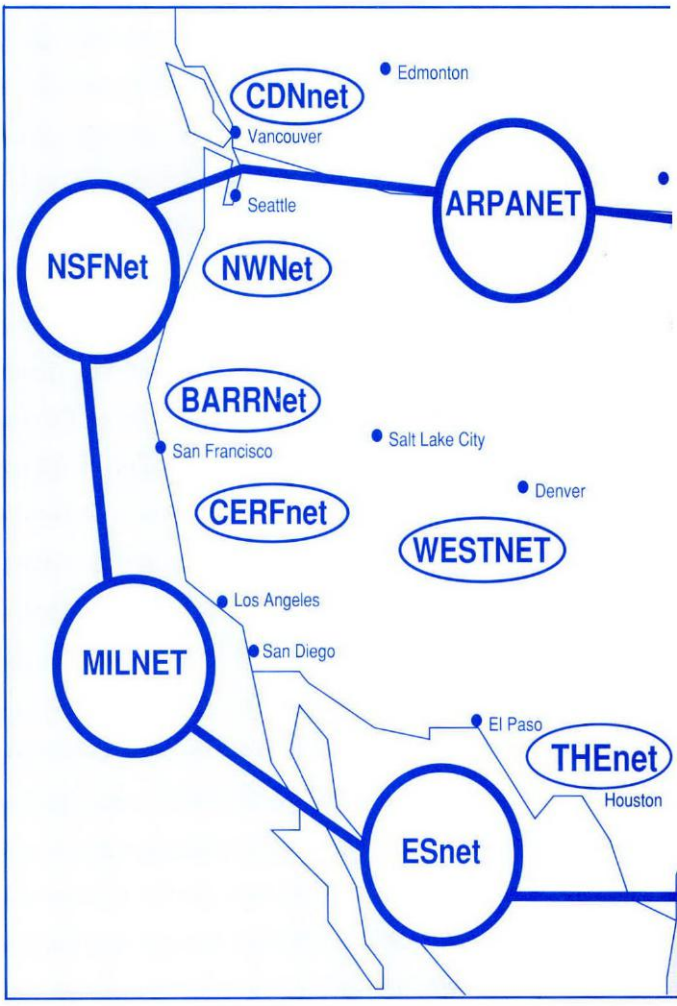
It wasn't too long ago when an individual's view of the world was shaped by a newspaper with information that was several weeks old or textbooks with information that was several years old. As communications technology improves, competent business decisions are increasingly dependent on *current* information. Today, critical information travels the globe electronically in a matter of milliseconds.

What does this mean to your organization? In the past, breakthroughs in medicine, science, government, education and business were built upon dated, printed information. Today and in the future, progress in most disciplines, such as developing life-saving medical techniques, timely engineering solutions, and almost any competitive product or service, will *require* timely information.

It is now clear to technology specialists that the United States' international competitiveness and an important means for economic development can be achieved through high-performance, reliable electronic pathways which bring together the best minds with accurate, timely data.

The infrastructure to allow millions of researchers, developers, educators, and business professionals to communicate and share data and cutting-edge computing resources instantaneously is being provided today - through services offered by Performance Systems International, Inc. (PSI).

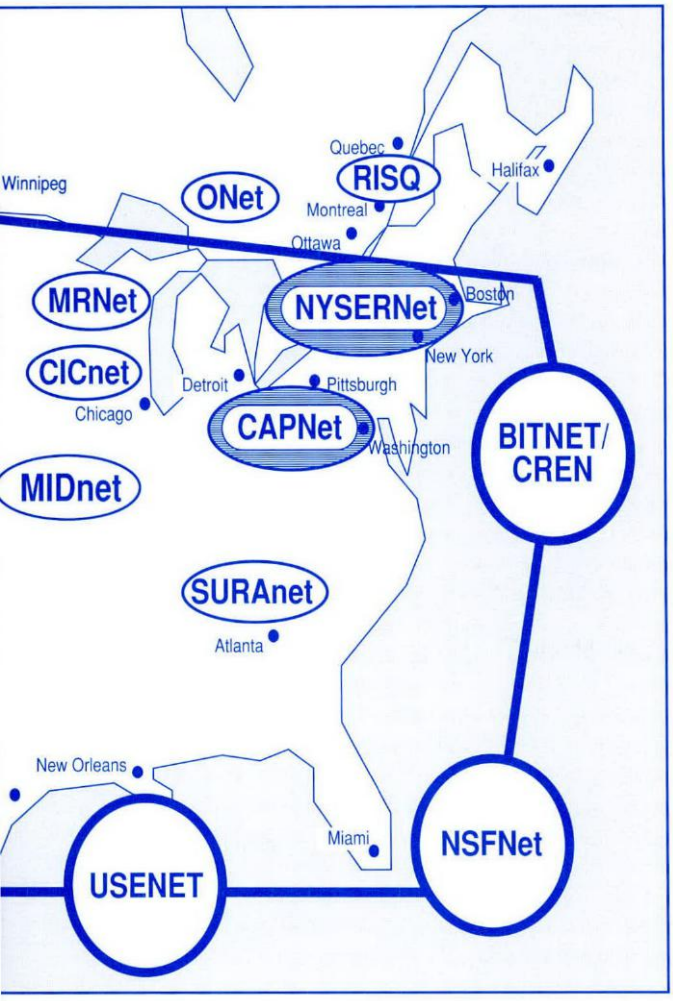


PSI Connects Organizations to the "Network of Networks",

Why PSI?

Since the early 1980's, the manner in which the world communicates has changed. From satellite video links to high-performance terrestrial data networks, information can move nearly as fast as it is produced. Suddenly, projects that were once merely enhanced by high-speed information exchange now require it. What's more, today's needs and usage demand ever-increasing performance.

Participation in the international "network of networks," or Internet, continues to grow exponentially. Resources, services, corporations and people, available through this infrastructure, are expanding accordingly.



or Internet

By January of 1990, the Internet grew to include nearly 2,000 organizations from around the globe with over one million direct daily users and electronic mail access to 10 million others. There is no larger data communication network, there is no network growing faster, and there are no other challengers for utility to users of information.

The growing need for dependable, consistent service into this system requires the solutions offered by PSI.

What is PSI?

Performance Systems International, Inc. is a value-added network service provider. The key word here is *service.*

We offer applications commonly available to high-speed packet service users - electronic mail, file transfer and remote terminal access.

What is *unique* about PSI is our leadership, not only in reliability, but in new services to the end-user. White Pages Directory services, network management, individual dialup service and entry level connections have broken new ground in making networking resources more usable and appeal to more individuals.

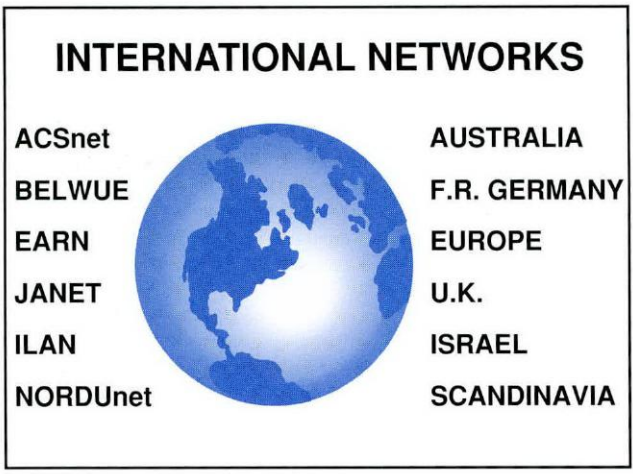
PSI, with its corporate headquarters near Washington, D.C., is uniquely positioned to leverage its communications expertise and system to benefit your organization.

What does PSI offer?

PSI provides a variety of services to maximize an organization's ability to harness critical information. Our fixed price services encourage maximum usage.

Standard Connection Services

Through our Standard Connection Service all users who are attached to your LAN can take advantage of electronic mail, file transfer and remote terminal access to a globe-spanning network.



PSI Connects Organizations to International Users

The PSI operations team is experienced in installing, integrating, and maintaining your link to the PSI network system and other national and international networks. This turnkey connection allows your organization to benefit by access to other people and resources without the need for resident internetworking experts.

In the northeast, this service is called NYSERNet; in the Washington, D.C. area, it is called CAPNet.

Dialup Services

In several major cities from Boston to Washington, PSI allows your staff to use our dedicated network to perform work on their home machine - without the need for long-distance calls and inconsistent service. Also, smaller sites needing individual user access can be efficiently and inexpensively served.

White Pages Directory Services

The need for one network user to find another is clear. PSI developers pioneered the use of this service which is built upon the interoperable Open Systems Interconnection (OSI) X.500 protocol.

Training and Support

PSI offers a variety of training and consulting services.

The Network Information and Support Center (NISC) provides detailed technical consultation to prepare your organization to fully utilize our system as well as the national and international infrastructure. If your organization does not already have a local area network, our staff can recommend and support you in implementing one.

PSI sponsors a three-day seminar each quarter for our member sites. This program covers a number of critical internetworking and systems administration issues relevant to maximizing your use of our network services.

The NISC also maintains a library of documents and can provide you with copies of public documentation, applicable reprints and a set of necessary background material that you can acquire.

Bulletin Board and News

One of the most common means to stay on top of late-breaking information, from science and sociology to business and communications, is a Bulletin Board system. One example directly provided by PSI is the USENET News system. Literally any participant with a PC and a modem can contribute ideas related to their areas of experience.

In addition, various bulletin boards allow you to both send and receive information important to your business and post messages involving a local, state or worldwide audience.

Who uses PSI services?

The number and variety of PSI users grows each month.

Currently, a researcher from the Hartford Graduate Center uses our network to test his models for depth perception on a parallel computer two hundred miles away at the Northeast Parallel Architectures

Center at Syracuse University. A mathematician at Eastman-Kodak in New York uses our system to access business mathematics databases in California and schedule meetings involving international participants.

A business traveler uses the PSI dialup service to access his corporate computer to stay current regardless of his physical location. A supplier checks with his government sponsor to stay abreast of changing requirements or enhancements to his company's contract.

How do members use PSI?

PSI members use our services to perform research and development projects, pursue government contracts, set up meetings, peruse bibliographic data from a large library system, or keep in touch with professionals in similar disciplines. They support their customers through immediate and substantive responses, regardless of their geography.

They share time on a supercomputer or parallel processing machines. They enhance joint projects between universities and government activities, or allow an academic researcher to focus with a corporate partner on industrially relevant technology.

How does this impact you and when?

As has each new mode of communications before, high-performance computer networking is here and is being used to bolster business endeavor.

Any thought of delaying participation in the mushrooming information infrastructure is increasingly difficult to justify. The means to join is here. The quality of the service is demonstrable.

Will your organization participate - or merely look on?

Details of Technology and Service

Protocols

Our networks (like NYSERNet and CAPNet) support the TCP/IP protocols. In addition, they support Wide Area AppleTalk Networking (WAAN) as a "layered" service on TCP/IP. Both DECNET and OSI protocols will be supported in early 1990.

Our system uses the TCP/IP infrastructure application protocols like FTP for file transfer, Telnet for remote terminal access and SMTP for electronic mail delivery. These applications are available for PC's, mainframes and supercomputers. In addition, the White Pages service, using the OSI Directory (X.500), is supported along with X.400 electronic mail as layered services on TCP/IP with interconnection to X.25/ networks.

As a member, you will need to acquire network software for all the computers that you wish to participate in the network. In almost all cases, this is supplied as an option by your vendor. Other protocols, such as XNS and SNA, are not supported directly by PSI. However, if you have a major installation of these proprietary protocols, the simple installation of a gateway computer that supports both TCP/IP and the proprietary protocol can bring your entire installation into the Internet.

The Standard Connection Service

The Standard Connection Service is a *turnkey* network connection of your LAN to the Internet. As of January, 1990, this service is available throughout the northeast and mid-Atlantic states.

All aspects of the connection and continued reliable performance of our network are the responsibility of PSI. These responsibilities include: acquisition and management of leased line facilities, ordering and installing packet switching equipment on your site and consulting on integration into your environment. All components of our networks, including those at your location, are monitored and managed by the Network Information and Support Center (NISC).

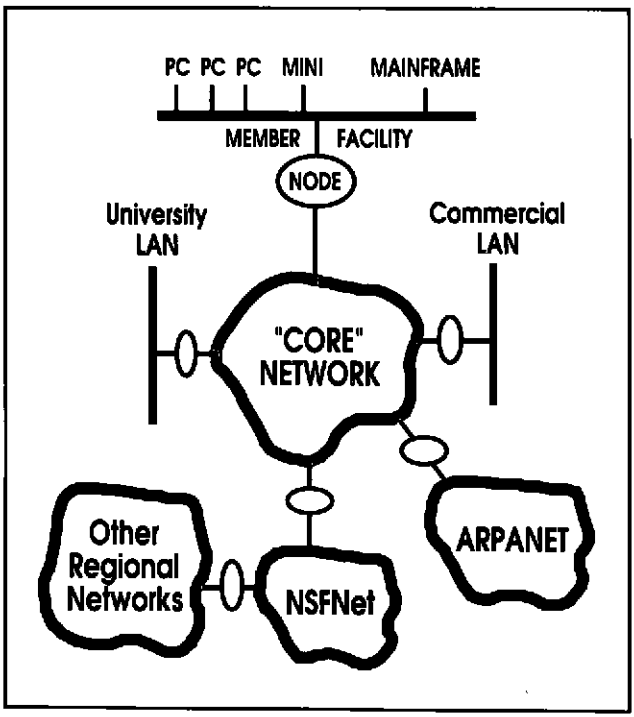
A PSI Standard Connection consists of a PSI

router being placed on a customer LAN connected via a serial transmission link from a 9.6Kbps analog leased line, to 10Mbps microwave or 100Mbps fiber optic line.

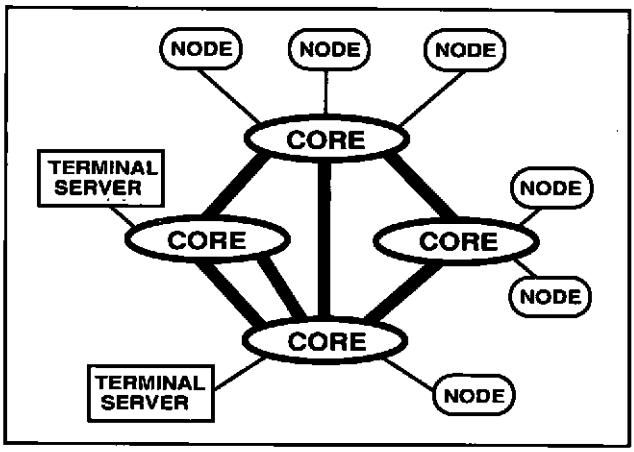
These site-based nodes communicate with "core" routers at PSI Points of Presence (POP's). Normally, POP's are located at telephone company communication hubs. The core routers are redundantly interconnected to provide high reliability using a combination of fiber and digital microwave. The core routers have multiple T1 (1.5Mbps) interconnections.

All hosts on the customer LAN can have direct packet access to the outside world as per your requirements.

The PSI node requires electricity, air conditioning, and about nine (9) square feet of floor space. A standard computer quality environment is preferred. PSI technicians will need access to this space periodically for maintenance and troubleshooting. The node needs to be placed near the standard phone company demark, especially when connecting a T1 circuit.



PSI's Standard Connection Service and the Internet



The PSI Infrastructure is Designed for Reliability and a Variety of Services

Network Information and Support Center

The NISC is staffed 24 hours a day, 7 days a week by PSI technicians. They are responsible for all aspects of the network system. Their first priority is smooth operation of Standard Connection installations in conjunction with national Wide Area Networks (WANs) such as NSFNet and ARPANET. PSI implements the Internet standard network management protocol, SNMP, which PSI staff co-invented. Utilizing these tools which are also licensed to other network providers internationally, PSI's custom interface provides information on the status of the network as well as trend analysis.

Additionally, PSI's access to other networks, such as NSFNet and ARPANET, allow us to work with their Network Operations Centers to determine the state of remote networks. Our relationships with Regional Bell Operating Companies (RBOCs) and our telephony expertise allows us to work with detail the capabilities and limitation of the telephone system.

Network Usage Statistics

PSI provides members with technical summaries of network traffic on a daily and weekly basis. Members are free to use these reports to help them understand how and when their sites use the networks. The actual transmitted data is not monitored.

Dialup Service Details

Cities such as Albany, Boston, New York, and Washington, D.C. have local phone numbers where 300/1200/2400 baud modems connect an individually registered user to a TCP/IP-capable terminal server. Regardless of which number they call, the individual, once supplying his authentication information, can become a remote terminal on any computer or service on a PSI customer network. General Internet access is not supported. New cities are being added every month. This service is without cost in 1990 for individuals accessing PSI-supported Standard Connection customers.

Quarterly, Three-Day Seminars

PSI sponsors a quarterly, three-day seminar for our members. In the past, they have included the following subjects:

- Introduction to Networking with TCP/IP
- Building a Campus Network
- Installing and Managing TCP/IP on VMS
- Installing and Managing TCP/IP on PC's and Macintoshes
- Installing and Managing TCP/IP on UNIX
- Network Management Using SNMP
- Using *Gated* to Deal with Complex Routing Problems

Network Security

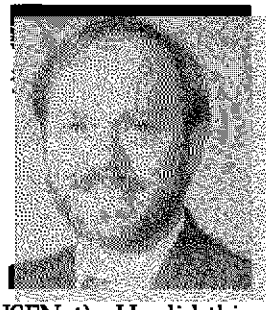
Many PSI members take steps to provide the amount of network security appropriate to their company's needs. PSI staff can suggest methods used by other sites to fit their concerns.

VMS is a registered trademark of Digital Equipment Corporation.
UNIX is a registered trademark of AT&T Bell Laboratories.
XNS is a registered trademark of Xerox Corporation.
SNA is a registered trademark of IBM Corporation.

Corporate History and Founders

PSI was formed by an experienced team of professionals dedicated to the development and deployment of new technologies - but only as they provide *real service.*

William L. Schrader, President & CEO



Over the past seven years, Bill initiated two national supercomputer centers and two national networks. He initiated the design and managed the installation of the first National Science Foundation Network (NSFNet). He did this from his position as co-founder/Executive Director of the Cornell University Theory Center supercomputer facility, one of four NSF centers. He went on to co-found/direct the Northeast Parallel Architectures Center at Syracuse University, a DARPA-sponsored parallel supercomputer center. Recognizing networking requirements broader than supercomputing, Bill co-founded NYSERNet, Inc. and as its President and CEO, built the NYSERNet regional network and the National Networking Testbed.

Martin L. Schoffstall, Vice-President & COO

Marty is a recognized national leader in networking design, engineering operations and technology. Marty's engineering experience at Bolt Beranek & Newman during the Internet's formation, his degrees in computer science from Rensselaer Polytechnic Institute, and his work with selected computing and networking start-up companies, give him unequaled insight in how to manage and market technology. As a co-founder and Vice President for Research & Technology, he led NYSERNet's engineering, operations, software development and marketing efforts which established NYSERNet as a national leader. He worked to set quality standards, enhance user service, and build international technology leadership in networking.

For further information about PSI, Inc., please contact:

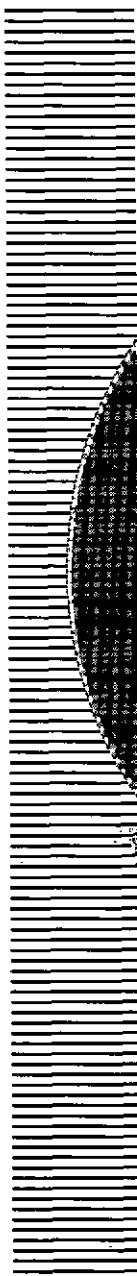
Performance Systems International, Inc.
11800 Sunrise Valley Drive
Suite 1100
Reston, VA 22091
Phone: 703.620.6551
Fax: 703.620.4586
E-Mail: info@psi.com

CORPORATE HEADQUARTERS:

Performance Systems International, Inc.
11800 Sunrise Valley Drive
Suite 1100
Reston, VA 22091
Phone: 703.620.6651
Fax: 703.620.4586
E-Mail: info@psi.com

NEW YORK OFFICE:

Performance Systems International, Inc.
165 Jordan Road
Troy, NY 12180
Phone: 518.283.8860
Fax: 518.283.8904



PERFORMANCE
SYSTEMS INTERNATIONAL, INC.

11800 Sunrise Valley Drive
Suite 1100
Reston, VA 22091
Phone: 703.620.6651
Fax: 703.620.4586

Stephen A. Schoffstall
Sales Engineer
steve@psi.com

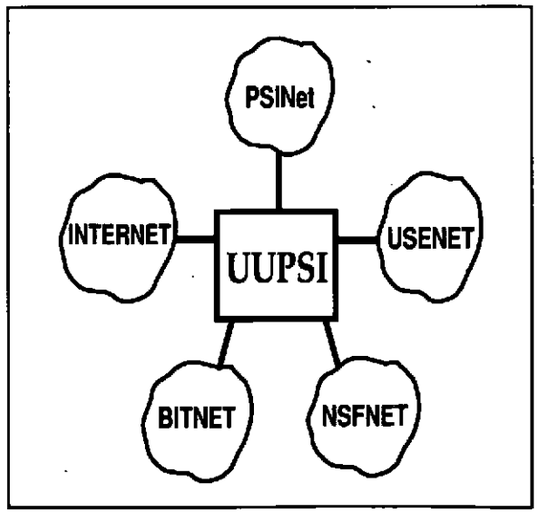
Customer Requirements

To facilitate these services, it is expected that the user have a computer which minimally supports the UUCP protocol, and a dialout modem to the public telephone system.

PSI staff can assist you with any questions about the acquisition and use of the various communications tools needed, along with recommending useful reading materials. They can also accomplish the domain name registration and configuration for the customer.

Registration

An individual or organization can establish either the UUCP Mail or USENET/NEWS services, or both, by requesting information from UUPSI Services, at 703.620.6651, or uupsi@psi.com. By returning a completed registration form, signed contract and purchase order (or check), PSI system administrators will work to have your service operational quickly.



UUPSI is your gateway to all other networks.

Sources of UUCP Software

- UNIX: Normally included in the operating system release.
- MSDOS: Vortex Technology's UULINK. Call 213.390.3920 for more information.
- VMS: Contact DECUS.

Dialup Locations

Albany, NY:	
• V.32	518.283.8303
• Telebit/PEP	518.283.8302
Boston, MA:	
• V.32	617.262.3614
• Telebit/PEP	617.424.1922
Hartford, CT:	
• Telebit/PEP	203.278.8114
Los Angeles, CA:	
• V.32	213.623.5525
• Telebit/PEP	213.623.7570
Metro D.C.:	
• V.32	703.620.8977
• Telebit/PEP	703.620.6331
Newark, NJ:	
• V.32	201.645.1740
• Telebit/PEP	201.645.1743
New York, NY:	
• V.32	212.608.8151
• Telebit/PEP	212.513.7268
Rochester, NY:	
• V.32	716.262.3122
Santa Clara, CA:	
• V.32	408.986.1266
• Telebit/PEP	408.986.1268

V.32	300/1200/2400/960
Telebit/PEP	300/1200/2400/9600/19200

UNIX is a registered trademark of AT&T Bell Laboratories.
VMS is a registered trademark of Digital Equipment Corporation.
Telebit/PEP is a registered trademark of Telebit Corporation.

For further information, please contact:

Performance Systems International, Inc.
11800 Sunrise Valley Drive
Suite 1100
Reston, VA 22091
Phone: 703.620.6651
Fax: 703.620.4586
Email: uupsi@psi.com or
info@psi.com

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PERFORMANCE
SYSTEMS INTERNATIONAL, INC.

info@psi.com

USENET/NEWS and UUCP Electronic Mail Service via "UUPSI"

PSI's USENET/NEWS and UUCP Electronic Mail Service

Introduction

Performance Systems International, Inc. (PSI) is a value added network service provider that delivers a range of products for the user of electronic information. We are leaders in offering the means for professional organizations and individuals to access and process information and communicate with other professionals in product development, product applications, government research activities, and academic pursuits.

Headquartered in Reston, Virginia, PSI has focused its core business on providing full-service, high performance computer networking to organizations throughout the northeastern and mid-Atlantic states and California through PSINet.

The Need for Reliable Electronic Mail and USENET/NEWS

Using electronic mail is quite common to an estimated ten million daily users. Academic collaboration, acquisition and delivery of federal contracts, product and service development, professional development in scores of disciplines, and product support all now depend on reliable electronic mail on a global basis; internal-only electronic mail is no substitute.

This capability is yet another means for companies to work within the global marketplace, since working with others is no longer impacted by time zones or geography. Electronic mail becomes increasingly requisite as users include your suppliers, customers, contractors, professional peers, and even competitors use it as a strategic competitive tool.

USENET/NEWS is a forum for hundreds of news groups to conduct national and international dialogues on subjects ranging from law and sociology to computing, communications, biology and medical techniques. Participants number in the hundreds of thousands. This "bulletin board" is an effective way to post and read about new findings, products, services or commentary within a special interest group or a wider audience.

PSI saw that an inexpensive, fixed-rate means to benefit from these services was lacking. By using its dedicated, high performance network, performance could be more consistent and communications costs could be reduced and even eliminated in many cases. Working from its current Boston to Washington infrastructure, PSI offers UUCP Mail and USENET/NEWS services to individual and corporate users needing to simply and inexpensively take advantage of reliable electronic mail.

The Service

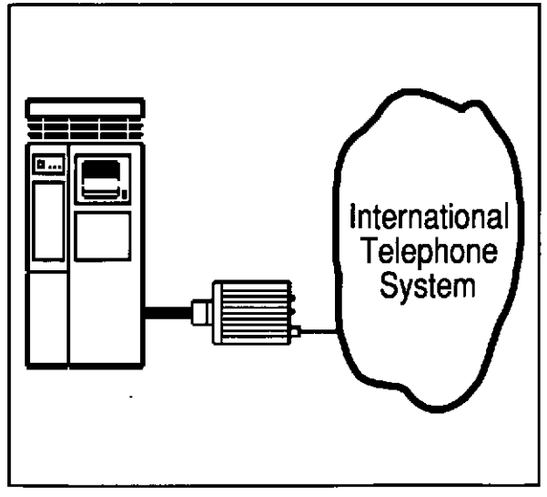
With Host Mail, customer mail is relayed by a PSI host (UUPSI or uu.psi.com) to the customer computer using the UUCP protocol and a standard dialout modem. This capability is commonly available on hundreds of thousands of computers using the UNIX operating system, MSDOS, VMS, etc.

Both the simplicity of this technology and its common availability keeps the entry level cost low. The growing number of dialup access points of the PSI network keeps transport costs low while reliability through the use of dedicated, digital T1 backbone circuits is improved. The availability of V.32 standard 9600 baud modems at the dialup access points also increases the utility of the service.

PSI will also register for the customer to receive its own domain name and act as an Internet mail forwarder for your computer system(s).

In designing this service, it was clear to PSI that costs needed to be consistent as well as low. PSI's flat-fee pricing allows for more accurate planning and budgeting without limiting use of this communications resource. There are no additional usage fees.

USENET/NEWS is the largest distributed bulletin board system in the world, providing megabytes of information in hundreds of forums daily. The NEWS customer can select a full feed or a partial feed; the fee is the same. This service uses the UUCP protocol using local dialups. NEWS can be even more efficiently managed and moved through TCP/IP networks using the NNTP protocol. Customers may wish to pursue this approach if they have a direct IP connection to PSINet. NNTP service is *not* provided to the general Internet community.



UUCP Connections have a simple hardware requirement: a modem.

Why Subscribe?

UUPSI exists as a dedicated communications relay for both UUCP Mail and USENET/NEWS. It is maintained by a professional staff with extensive experience in communications and system administration. Due to its connection to major NEWS distribution sites and its connection to the Internet, Mail and NEWS service will be extremely reliable. Our communication infrastructure is fully distributed in dedicated Telco facilities (POPs), not on customer premises.

The Network Information and Support Center (NISC)

The NISC is staffed 24 hours per day, seven days per week by PSI technicians, operators, engineers and administrators. They are responsible for all aspects of the PSI facilities and services. PSI staff uses the SNMP standard to manage its network systems. PSI also has considerable telephony and systems administration experience to insure all pieces of these services are handled reliably and professionally.

"Under the Hood"

UUPSI is a dedicated 30 MIP SPARC machine located in Albany, NY at the PSI NISC. It is directly connected to the PSINet T1 backbone which provides our Standard Connection internetworking service. Throughout the Northeast and New England states are local dialup numbers with 300/1200/2400 and 9600 (V.32) baud modems. Telebit/PEP support is available on a more limited basis. UUCP connections for Mail and NEWS can be sustained through these local numbers to UUPSI.

PERFORMANCE
SYSTEMS INTERNATIONAL, INC.

P.O. Box 3850
Reston, VA 22091
Phone: 703.620.6651
Fax: 703.620.4586
info@psi.com

UUPSI USENET/NEWS and UUCP Mail Subscription Form

Check the Appropriate Boxes:

- ☐ I want USENET/NEWS Service Only.
- ☐ I want UUCP Mail Service Only.
- ☐ I want both Services.
- ☐ I want to be Invoiced Monthly.
- ☐ I want to be Invoiced Quarterly.

Technical Contact:

Name: _____
Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Telephone Number: ( ) _____
Emergency/24 Hr./Off-Hr. Telephone Number: ( ) _____
Fax Number: ( ) _____
Email Address: _____

Billing Address:

Company: _____ Dept.: _____
Street: _____
P.O. Box: _____
Mail Stop: _____
City: _____ State: _____ Zip: _____
Telephone Number: ( ) _____
Contact: _____

Configuration Information:

Your computer's UUCP Name: _____
Domain Name (if available): _____
If you do not have a Domain Name, do you want one? ☐ Yes ☐ No
Type of Computer System: _____
Company Type (e.g. law firm, bank, individual): _____
Area Code and Exchange of the Calling Modem): _____
Internet Address of the System (if using NNTP): _____
Largest City within your Local Calling Area (e.g. Albany, NY): _____

PERFORMANCE
SYSTEMS INTERNATIONAL, INC.

11800 Sunrise Valley Drive
Suite 1100
Reston, VA 22091
Phone: 703.620.6651
Fax: 703.620.4586
info@psi.com

PSINet STANDARD CONNECTION SERVICE:

These prices include all necessary hardware, software, line ordering, management, maintenance and field operations 24 hours per day, seven days per week. To facilitate the very best management and reliability of the entire network, all components remain the property and responsibility of Performance Systems International, Inc. (PSI).

	Annual Fees
9.6 Kbps Service	$ 10,000/year plus line costs
19.2 Kbps Service	15,000/year plus line costs
56 Kbps Service	30,000/year plus line costs
500 Kbps Service	45,000/year plus line costs
1.5 Mbps (T1) Service	65,000/year plus line costs
3.0 Mbps Service	100,000/year plus line costs

TERMS

To initiate a connection to PSI's networks, a signed Access Agreement, along with a corresponding purchase order for the total annual cost, is required. Invoices will be issued quarterly and are payable NET30.

UUCP ELECTRONIC MAIL AND USENET/NEWS SERVICE:

Using UUCP, PSI provides electronic mail and Usenet News service to remote hosts via free, local dialup numbers in many cities as a flat monthly fee, regardless of volume. An initial Registration Fee of $75 will open your account.

	If Billed Quarterly	**If Billed Monthly**
Mail	$ 25/month	$ 40/month
Mail & News	75/month	100/month

TERMS

All accounts will be invoiced at the beginning of the billing period (monthly or quarterly) and are payable NET30.

Prices subject to change without notice.
All prices subject to applicable taxes.

3/19/90

License for PSI USENET News and UUCP Mail Services

United States and Canada Only

This Contract is dated as of the____day of_____, 1990 and is by and between Performance Systems International, Inc., duly authorized and existing under the laws of New York State, with its main office at 11800 Sunrise Valley Drive, Suite 1100, Reston, VA 22091 ("PSI," or "Licensor"); and _____ (hereinafter "Licensee"); for the provision by PSI or its subcontractors of certain electronic communications services

1. Licensee desires an Electronic Mail and/or USENET News feed. Payments received after 30 days will incur a late payment charge of $30.00 per month and after 60 days of non-payment, the account will be terminated. Termination does not remove Licensee's responsibility under this Agreement to pay all fees incurred up to the date of termination.

   This Service may be terminated by Licensee at any time upon thirty day's prior written notice. Licensee is responsible to pay all fees up to the date of termination of the service, except where PSI is unable to provide services under this Agreement through its own negligence. Notice of termination should be given to "Services Administrator, PSI, Inc., P.O. Box 3850, Reston, VA 22091."

2. With respect to the services provided, PSI, Inc. makes no warranties of any kind, whether expressed or implied, including any implied warrantee or merchantability or fitness of this service for a particular purpose. PSI, Inc. takes no responsibility for any damages suffered by Licensee, including, but not limited to, loss of data from delays, nondeliveries, misdeliveries, or service interruptions caused by PSI's own negligence or Licensee's errors and/or omissions.

3. This service may only be used for lawful purposes. Materials and/or transmission in violation of any local, state or Federal regulation(s) is prohibited. This includes, but is not limited to, copyrighted material, threatening or obscene material, or material protected by trade secret. Licensee agrees to indemnify and hold harmless PSI, Inc. from any claims resulting from Licensee's use of this service which damages Licensee or any third party.

4. Use of any information obtained via this service is at Licensee's risk. PSI, Inc. specifically denies any responsibility for the accuracy or quality of information obtained through its services.

5. Use of these services will involve listing Licensee's participation in relevant directories.

6. Use of other organization's networks or computing resources are subject to their respective permission and usage policies.

7. PSI, Inc. or other relevant authorities may determine inappropriate usage of this account and the privilege may be revoked at PSI's discretion. Should this occur, Licensee will be informed in writing of this action.

8. PSI will occasionally require new registration and account information by Licensee to continue this service. In addition, Licensee shall notify PSI in writing of any changes in the account information, such as address or computer UUCP name.

9. The validity, construction and performance of this License shall be governed by the laws of the State of New York.

10. PSI, Inc. reserves the right to change the above terms and conditions by notifying Licensee in writing at least 30 days in advance of the effective date of the change. Use by Licensee after the effective date constitutes acceptance of the new terms and conditions.

11. This Agreement represents the complete agreement and understanding of the parties with respect to the subject matter herein, and supersedes any other agreement or understanding, whether written or oral.

I understand and accept the above Agreement and the Terms and Conditions set forth therein:

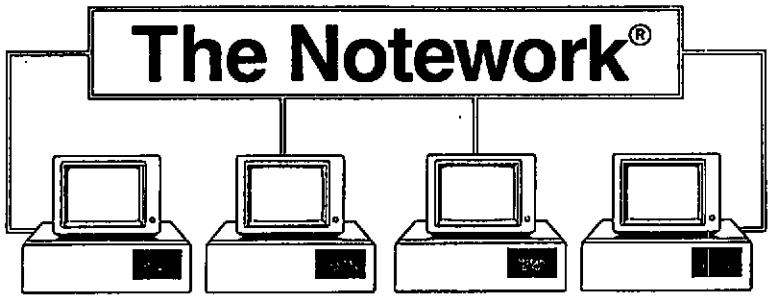
LICENSEE

_____

By: _____

_____
(typed)

Its: _____



30-Day Money Back Guarantee

If you are not completely satisfied with your purchase of The Notework, you may return it within 30 days for a full refund.

Professional Productivity Corporation 72 Kent Street Brookline, MA 02146
To order call 1 (800) 767-6683

New Pricing Available

The Installation Disk comes with authorizations for your first eight users. To install more Notework users on your network, the following User Authorization Disks are available:

2 User Authorization Disk	**$99.00**
10 User Authorization Disk	**$399.00**
50 User Authorization Disk	**$1499.00**

Call for additional discounts on larger networks.

Professional Productivity Corporation 72 Kent Street Brookline, MA 02146
To order call 1 (800) 767-6683

Professional Productivity Corporation

Seventy-Two Kent Street Brookline, Massachusetts 02146 Tel: 617-734-4317 Fax:617-734-4160

Dear Editor:

You and every one of your readers has experienced a moment while they were working when they needed to ask someone a question or tell someone something. It's a problem. You don't want to interrupt your work but you need to get this item off your mind before you continue.

Ordinary PC electronic mail isn't the solution. You have to leave your word processor or spreadsheet and return to the DOS line to send your electronic mail. And as long as you have gone to that much trouble, you read the mail that has arrived for you, pretty soon you are answering mail instead of continuing your work.

With the introduction of the Notework all that has changed! Notework is a RAM resident program that uses only 5K of RAM so it can live behind any application. With Notework you can pop up a note, or phone message form without leaving your application. Then you can write your note (and even cut information from your application screen and paste it into your note), and send it...all without leaving your application program.

Notework is what Bob Orbach, LAN buyer for 47th St. Photo, calls "habit compatible". He means you can use the Notework without changing the way you do the rest of your work. It's a natural extension of your mind and your time. No more telephone tag on the office intercom. No more standing in someone's doorway waiting for him to get off the phone so that you can ask a question.

Move things off your desk faster, get more done, waste less time. That's what your readers want, that's what the Notework does for them, and that's why they will want to read about the Notework in your publication.

Thank you for your consideration,

Sincerely,

Christopher A. Risley
President

P.S. Demonstration Disks and Free Notework Installations are available to the press. Call John Rizzi at 1-800-767-6683.

News For Immediate Release From

Professional Productivity Corp.

Seventy-Two Kent Street Brookline, Massachusetts 02146 Tel: 617-734-4317 Fax:617-734-4160

POP-UP Electronic Mail Package For Novell Netware
Uses Only 5K of RAM

Boston - Professional Productivity Corporation announced that it has begun shipping the Notework Version 1-0-6, a Pop-Up Electronic Mail package that uses only 5K of RAM. "The Notework allows users to send or receive messages without leaving their application program", says Kent Gale, Notework Product Manager, "and the Notework uses so little RAM that even the biggest applications can still fit in memory."

Full Featured Mail in Limited RAM

Even though it requires very little memory, the Notework is a full featured electronic mail package that supports: binary file attachments, forwarding with commenting, cutting and pasting from the application screen, logging of mail, return receipts, phone messages, addressee groups, undeleting of mail, broadcasts to all users, upgrading of urgent mail, etc.

PPC notes that some other E-mail packages offer a Pop-Up mail feature but this feature is a subset of the full DOS line package. The Notework offers all its features within the Pop-Up package so the user never needs to leave his application program.

Customized Editing Keystrokes

The Notework's notes editor can be set up so that the command keystrokes operate like WordPerfect, MultiMate, Microsoft Word, or WordStar. This feature allows individual users to create notes using command keys with which they are already familiar.

- More -

Flash - Handle two phone calls at once

A special feature of the Notework is Flash. This feature is designed for people who often receive phone calls while they are already on another call. The receptionist who answers the second call can put a window on the users screen which identifies the second caller (while that caller is still on the line) and the purpose of the call. With a single keystroke the user can signal the receptionist any one of five different instructions including "ask the caller to hold" and "tell the caller that I'll call back". The user can also type a reply message to be passed on by the receptionist. The Flash feature allows a user to deal with a second call without interrupting an existing call.

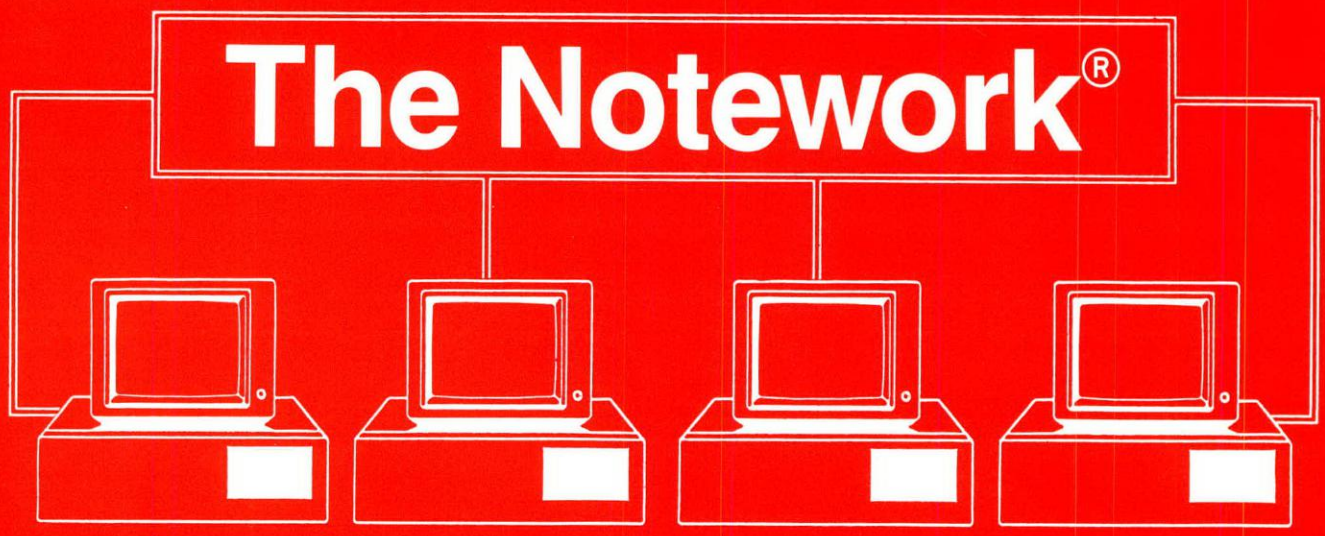
Non-intrusive mail notification

"When we tell people that we use only 5K of RAM they assume that we must use Novell's SEND function to notify people of their mail. We don't do that at all, instead we use a non-intrusive tone and a small symbol which appears in the upper corner of the screen, " says Gale, " The tone and symbol tell the user what kind of message they have waiting but they don't interrupt the user's work. Users can continue working in their application and read their mail when it is convenient."

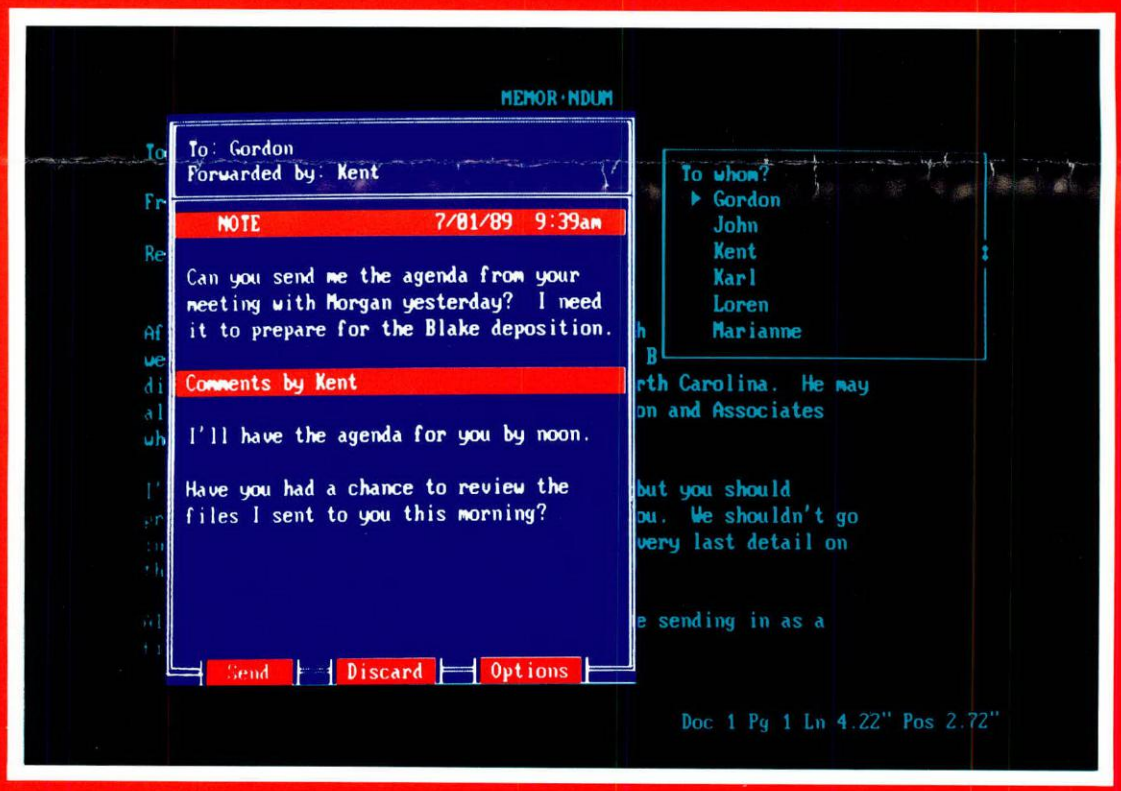
Free Demo Disk available

PPC is offering a free demo disk of the Notework which can be had by calling 1-800-767-6683.

The Notework®



POP-UP Electronic Messaging and File Transfer Software

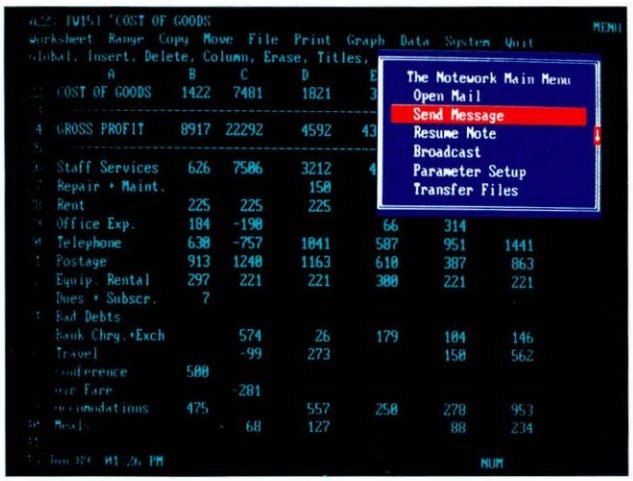


* Pop-Up Electronic Messaging
* Pop-Up File Transfer
* Pop-Up Telephone Messaging
* Uses no RAM on File Server

*** Uses only 5K of RAM on each PC!**

NOVELL NetWare® Version

Professional Productivity Corporation 800-767-6683



Pop-Up Operation

The Notework is RAM-resident. It can Pop Up while running all popular PC application programs.

Since the Notework operates in the background of any program, you never have to leave your current application to use any of The Notework's features.

A Hot-Key instantly Pops-Up the Notework menu. You can send or read your messages and instantly return to your application.

Non-technical people can use the Notework right away. The Notework's menus guide users through each operation.

Send Messages

Press the Notework Hot-Key to bring up the main menu, then choose "Send a message."

The Notework asks you who the message is for. You can send a message to a single user, to a specified group of users, or to everyone.

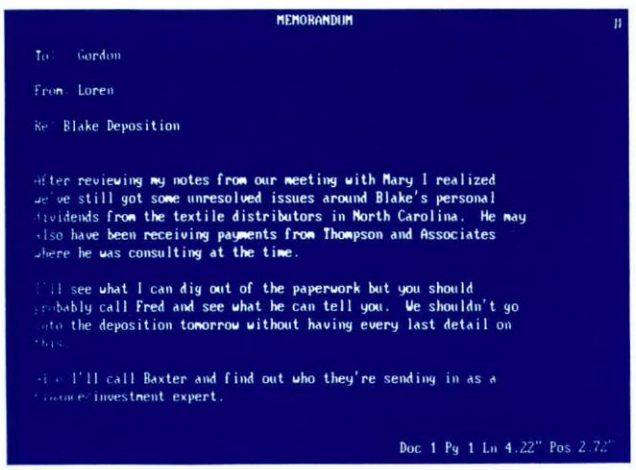
Move the highlight bar to a name and press ENTER . . .

A blank note Pops Up in your Notework work space.

Once you have typed your message, a single keystroke sends it. You can get right back to work in your application.

The Notework provides many other useful options while you are typing a note, such as printing, saving or importing text from a file.

The Notework also provides a standard phone message form. The phone form has areas for the caller's name, company and phone number, as well as handy fields such as "Please Call" and "Urgent" that can be toggled on or off with a single keystroke.

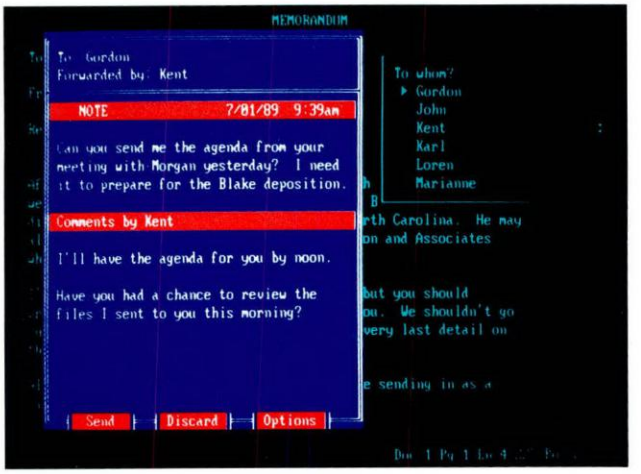


Receive Messages

When you receive a message, The Notework notifies you with a tone as well as a flashing symbol in the upper-right corner of your screen. Your work is not interrupted. The flashing symbol stays on your screen as a reminder until you open your mail.

The message is stored in your mailbox. When you reach a good breaking point in your work, simply Pop Up The Notework's main menu and select "Open Mail."

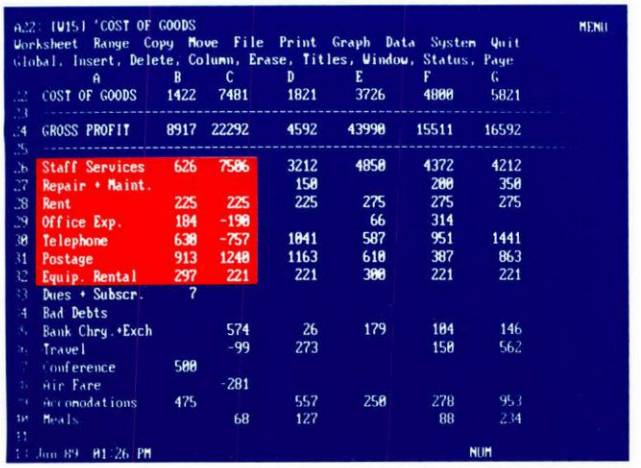
A list of all your mail appears. You see the name of the sender, the time and day the message was sent, and the type of message that you have received.



Forward your message

After reading your message, you can add your comments and forward the message back to its sender or a third user.

The message can be forwarded as many times as you wish. The Notework keeps track of the note's circulation and conveniently records the names of all the users who have read and forwarded the note.



Attach a Screen Sample

The Notework allows you to capture a sample of the screen from your application and send it as a part of your message.

A screen sample can be a few lines or an entire screen.

Simply block the area of the screen that you want to send and press ENTER . . .

The Notework copies the block from the screen and pastes it into your note.

The screen sample becomes part of your message. You can quickly circulate data from spreadsheets, word processors, schedulers, or other application programs.

Using another attach option, you can send an entire file (or group of files) along with your note.

Transfer Files

With the Notework you can transfer files between directories and from disk to disk without leaving your application. The Notework transfers files in the background, without disturbing other programs that are running.

Simply call up the main menu and select "Transfer Files." Enter the name(s) of the file(s) you wish to transfer. Then enter the destination and source directories.

Select "Copy" to leave a copy of the originals in the source directory. Select "Move" to take the files out of the source directory and put them in the destination directory.

Other Notework Features

Print your messages

You can print a hard copy of your message to any type of printer.

Export your messages to a text file

Text files can be imported into word processors and desktop publishers. This feature is also useful for logging your mail.

Confirm the receipt of your messages

When you want to be sure that your addressee got your message, choose the "Confirm Receipt" option. The Notework will send you a confirmation when your message is read by the receiver.

Attach files to your note

Attach any file (or group of files) to your note. When you send the note, copies of the files are automatically sent to the addressee.

Keep a copy

Before you send your message, select the "Keep a Copy" option. This will put a copy of your message in your mailbox as well as send it to its intended receiver.

Send an urgent note

When you're sending a message that needs immediate attention, use The Notework's Urgent Note feature. The receiver is notified with a special tone and symbol.

Demonstration Disk

Run The Notework demonstration disk and get a feel for how useful The Notework will be in your office.

If you haven't already received your free Notework demonstration disk, call **(800) POP-NOTE.** (800-767-6683)

Pricing:

$495.00 for the first eight users.

Technical Specifications

Station Memory Requirements: 5K of RAM
Netware Version Compatibility: 2.0 or above
File Server Memory Requirements: None
Max Number of Stations: 100
File Transfer Size: Unlimited
Installation:
- Automatically Reads Novell Bindery
- Menu-driven Customization

Display Compatibility: CGA, EGA, VGA, Super VGA, Hercules, Hercules RAM Font, Monochrome Text
Printer Compatibility: All Dot-Matrix, Laser, Post-Script, and Daisy Wheel Printers

To Order The Notework
Call 800 POP-NOTE
(800 - 767 - 6683)

(Outside the U.S. and Canada dial 617-738-5295)

The Notework is a registered trademark of Professional Productivity Corporation. Netware is a registered trademark of Novell, Inc. Hercules is a registered trademark. of Hercules Technologies. Postscript is a registered trademark of Adobe, Inc.

Professional Productivity Corporation
72 Kent St Brookline, MA 02146
Tel: (617) 738-5295 Fax: (617) 734-4130

Also Available:
Serial Port Notework
(No Network Required)

You can have all the features of regular Notework in your office without a network. With Serial Port Notework you can connect up to 50 PCs via their serial ports using regular telephone wire. **Cost: Only $99.95 per PC.** No other hardware or software is required.
Call **Professional Productivity Corp.** for a brochure.

Scandia Microsystems
5090 Scandia Trail North
Forest Lake, MN 55025
(612)-464-6056

March 10, 1991

The Community Memory Project
2617 San Pablo Avenue
Berkeley, CA 94702

Dear Carl,

Could we interest you in a new product from Scandia Microsystems?

Scandia–TEX is an implementation of Dr. Donald Knuth's Typesetting package configured for UNIX running on popular Intel 80386 microprocessor based computers. Scandia–TEX includes support for professional looking typesetting on many different output devices including X-windows previewing, Postscript printers, Laser printers and the HP Deskjet, as well as many dot-matrix printers. It includes support for drawing graphs (PiCTeX), manuscripts (LATEX), Bibliographies (BIBTeX), font creation (METAFONT), and troff drivers. It will output TEX and/or Troff documents using different sized and styled fonts, even on inexpensive dot-matrix printers.

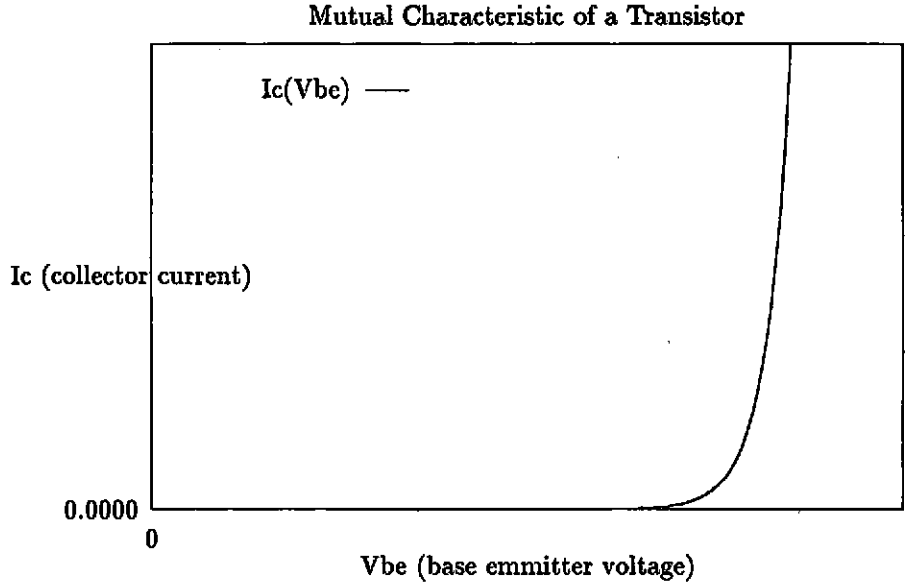
Before I show you a couple examples, let me say that this package is priced at $195.00 for an unlimited number of users. It installs using *installpkg* on most any 386 based UNIX system.

Scandia–TEX is great with math –

$$\int \frac{dx}{ae^{mx} - be^{-mx}} = \begin{cases} \frac{1}{2m\sqrt{ab}} \log \frac{\sqrt{a}e^{mx} - \sqrt{b}}{\sqrt{a}e^{mx} + \sqrt{b}} \\ \frac{1}{m\sqrt{ab}} \tanh^{-1}(\frac{\sqrt{a}}{\sqrt{b}} e^{mx}) \\ \frac{-1}{m\sqrt{ab}} \coth^{-1}(\frac{\sqrt{a}}{\sqrt{b}} e^{mx}) \end{cases}$$

It also comes with over 100 fonts *that* **provide tremendous flexibility** (each of which can be scaled to any size).

In addition to the above packages, Scandia–TEX includes the Free Software Foundation's version of GNUPlot. The following graph was created using GNUPlot for inclusion with this LATEX document.



TEX is also pretty good at tables –

Star	Harvard No.	Max	Period	Date		
SS Cas	000451	8.8	140.57	30	jan	1989
SS Cas	000451	8.8	140.57	7	nov	1989
T And	001726	7.7	280.76	10	aug	1989
R And	001838	5.6	409.33	18	jun	1989
RV Cas	004746a	7.3	331.68	8	may	1989
Y And	013338	8.2	220.53	5	jul	1989
SS Cas	000451	8.8	140.57	30	jan	1989
SS Cas	000451	8.8	140.57	7	nov	1989
T And	001726	7.7	280.76	10	aug	1989
SS Cas	000451	8.8	140.57	7	nov	1989
T And	001726	7.7	280.76	10	aug	1989
R And	001838	5.6	409.33	18	jun	1989
Z Peg	235525	7.7	325.47	23	jun	1989

We have also included GNU *Groff* which provides a Documenter's Workbench capability including the GNU versions of troff, eqn, nroff, tbl, pic, and others. Scandia–TEX also knows how to handle troff(5) documents directly if you already own AT&T's Documenter's Workbench. We know of no other product which can print troff documents, including all the different fonts, on dot-matrix printers.

This letter was printed for you on a $500.00 HP Deskjet Plus. We wanted to show that Scandia–TeX works well on less expensive printers though it is fantastic on laser printers. Feel free to contact us for more information.

Sincerely yours,

Michael Grenier

Michael Grenier

MWG/TEX

FOR IMMEDIATE RELEASE

CONTACT: Steve James 512-346-0133

FYI, INC. announces new features and price for their FYI 3000 Plus text indexing and retrieval software. FYI 3000 Plus now includes the FAST INDEXER program that indexes full text wordprocessor files up to 10 times faster. Retrieval and screen displays have also been speeded up and support for color monitors has been added. Full pathway access to almost any wordprocessor's files is supported.

FYI 3000 Plus will index 65,000 paragraphs of 1,000 words each in a single filing system (text data base). That's an incredible 65 million words in a single filing system....and you can make as many as you want.

FYI 3000 Plus is now extremely fast at indexing full text. 10,200,000 bytes of text were indexed at a rate of 242,857 bytes per minute. This text was in 89 different files, and comprised 14,056 paragraphs with 580,369 total words. After only 42 minutes of indexing, FYI 3000 Plus was ready to search this filing system by using up to 250 of the 11,643 unique words in the filing system in a single search.

FYI 3000 Plus now employs full Boolean logic (AND, OR, NOT, XOR) searching with multiple levels of nesting. Browsing up and down within a file by line or page is also supported. Multiple output formats to printer or disk are easily accomplished.

FYI, INC. has slashed the price of FYI 3000 Plus in half. It is now only $195. Steve James, President of FYI, Inc. says, "We reduced the price on January 1, 1987 in view of the worsening economy and the decreasing prices of personal computers. Buyers expect more features and speed at a lower price and that's what we are giving them. We also give educational, research and governmental discounts starting at quantity 1."

FYI, INC. has also installed a 24 hour dialup help system for all FYI 3000 Plus owners and prospective customers. Dial it at (512) 346-0135 at 300 or 1200 baud and log on as GUEST. This system is running on FYI, INC.'s own new FYI-MCD (mail-conference-database) system. You can set-up your own information system with this software and FYI 3000 Plus.

As to the R & D at FYI, Inc., Mr. James says, "FYI is always pushing the envelope of text indexing technology. We are moving rapidly into the indexing of extremely large volumes of text information on optical disk technology for use in the Multiline FYI-MCD online system and for individuals with the need for up to 2.5 million entries of 65,000 characters each in a single filing system (text data base) with an average search speed of about 2 seconds."

FYI 3000 Plus is available directly from FYI, INC., P.O. Box 26481, Austin, Texas, 78755 (512) 346-0133 voice; 512-346-0135 300/1200.

Topic 476: COCONET: San Diego's Community Computer Network
By: Brian Lawrence Dear (whofan) on Tue, Jun 6, '89
78 responses so far

Should we contact this guy??

This being the "telecom" conference, which I've always regarded as _the_ place to turn for the most interesting and worthwile discussions of telecom issues, I thought some of you might like to know about a new on-line system that's being released this Summer in San Diego.

COCONET, the _CO_mmunity _CO_mputer _NET_work, is the new service offered from Coconut Computing, Inc., a company my wife Pat and I founded a year ago in La Jolla, California. The COCONET service offers both traditional telecom functions --- like conferencing, e-mail, and file upload/download --- as well as some unique features which we're especially excited about:

Graphics-based

To access the service, your PC must be running the COCONET Access Program, which provides the interface between you and the host computer. Everything on the COCONET Service runs in graphics mode. We've spent a year designing and programming a new interface -- one which uses pop-up menus, menubars, windows, and multiple fonts and colors. Your PC must have at least 512K RAM and EGA or VGA graphics to run the software.

Advenced Note Features

On the COCONET Service, private E-mail messages are called "Personal Notes" (P-Notes), as distinguished from "Discussion" notes that all can read and compose. P-Notes are organized on two levels. At the upper level, they're listed by "correspondent": you see a list of all the users who have sent you notes. When you select a user name from the list, you see the second level of organization: a list of all unread, all unresolved, and all resolved notes from this user. When you read an unread note, it becomes "unresolved" until you either save it as "resolved" or delete it.

P-Notes and Discussion Notes both use the same notes editor, and can contain up to 80x25 characters of text. Users can also include a number of additions to the text of their note: emoticons, headlines, and references.

"Emoticons," or emotion-conveying icons, are used to help convey to your note's reader how seriously he or she should regard your message. Instead of character-based ":-)" smiley faces, the COCONET Service has graphic icon faces which you can place anywhere on the screen, independent of the location of your text.

Notes also include "subjects" and "headlines". Subjects work the same as subjects in UNIX (i.e., WELL) mail. A headline is a line of text which you can place anywhere on the screen, again, independently of the note's text, in a variety of proportional fonts and sizes.

Hyper Functions

In addition to the numerous expressive functions of the notes editor, users can also add hypertext-like "references" to their notes. When a users come across interesting notes in the Discussions, they can "mark" them, creating a new entry in their "Mark List." Mark Lists are popup menus which list those note locations in the various discussions you've read that you would like to be able to quickly "jump" to.

When you compose a note, you can add references to other notes by selecting items you've marked in your Mark List. In effect, you create a unique Mark List for the note itself: when users come across your note, they can access the note's reference list, and jump directly to those locations if they wish.

Movies

Showtime information is available for every theatre in San Diego County, _updated daily_. You can search by cinema or by movie title. In the latter case, the system shows you every movie title that's showing today. When you find the movie title you're interested in, the system shows you a list of the cinemas that are showing that movie title today. When you pick a cinema, you see its complete schedule, and -- unlike with newspapers -- you can also request to see _tomorrow's_ and even the _day_after_tomorrow's_ schedule for that cinema.

Classifieds

Comprehensive, _real_ classified ads organised in over 230 separate categories. Users can compose their ads on-line, using the same editor that's used for P-Notes and Discussions -- meaning that ads can have up to 80x25 lines of text, and can also include emoticons and headlines.

Readers of classified ads can find out more about a classified ad by responding via p-note to the author of the ad (who may, or may not, be known to the reader.) The author has the option to remain "unknown" to readers (but not anonymous to the system -- ads are monitored by Coconut staff).

Lottery

Winning numbers for the California State Lottery are listed on-line, and are updated as new drawings take place.

On-line Advertising

Commercial on-line advertising is available. On-line ads are displayed in many, but not all, areas of the system. Rather than a steady barrage of ads on every single display of the system, ads on COCONET appear "up front", i.e., while you're browsing through the higher-level menus. Once in P-Notes, or Discussions, or any other feature, the ads shut off.

Commercial and classified ads help keep subscriptions to the Service affordable: a year's subscription is $60, or $5 per month; a three-month short subscription is available at $6/month. And there are no hourly or per-minute usage fees.

The software needed to access the system is available in the COCONET Subscriber's Kit which costs $29.95.

"Virtual Bulletin Boards"

Despite the improvements brought on by desktop publishing software, newsletters and other periodicals still lack the punch and immediacy of an on-line bulletin board. More and more businesses, consultants, professional societies and local chapters, user groups, schools, and non-profit organizations would like to have a on-line bulletin board for their clients/members/constituents, but cannot, because of the high cost of obtaining (and maintaining) the necessary hardware, software, phone lines, and expertise. With the COCONET Service, such groups and organizations can use space on our computer to keep everyone in the group communicating.

* * * * * * * * * * * * * * * *

As you might imagine, when a new conferencing system starts out, its conferences are "empty" or barely active. We're anxious to see them grow. And we're also anxious to find and fix any bugs which we've missed.

See the following response for information about our call for participation -- we're offering some free 3-month charter subscriptions and free Subscriber's Kits to those who'll help us start the on-line COCONET community.

Brian & Patricia Dear
Coconut Computing, Inc.

[COCONET is a service mark and trademark of Coconut Computing, Inc.]

78 responses total.

Topic 476: COCONET: San Diego's Community Computer Network
1: Brian Lawrence Dear (whofan) Tue, Jun 6, '89 (12:38) 47 lines

CALL FOR PARTICIPANTS

Do you like to read and write notes on-line? Do you enjoy trying out new software for your PC? If so, please read on.

Coconut Computing, Inc. is looking for 10 people to help start its new COCONET on-line information service and conferencing system. We're interested in building a community of users on-line, and we need your help to start discussions going in our wide variety of on-line forums. We'd like to have about 10 people try out and contribute to the system using their personal computers. We'll provide a Free COCONET Subscriber's Kit and a Free 3-month subscription (a $50 value), in exchange for using the system, contributing to the on-line discussions, and reporting any bugs or suggestions for improving the design.

Hardware Requirements

The system is accessed through a special software package called the COCONET Access Program for IBM-compatible computers (a Macintosh version scheduled for 4th quarter 1989). Your PC must have EGA or VGA graphics capability, a minimum of 512K RAM, a 3.5" or 5.25" floppy disk drive, and a 1200 or 2400 baud Hayes-compatible modem.

If You're Interested

If you'd like to help us inaugurate the COCONET system, please send an e-mail message to this login ID. Make sure your computer meets the hardware requirements described above. We'll send COCONET Subscriber's Kits to the first ten people who respond.

When you receive the materials in the mail, read the enclosed Subscriber's Agreement carefully, sign the attached card, and mail it back to us, so we can give your COCONET signon ID full read/write access to the on-line discussions.

Please include the following information in your e-mail note:

- Your Name
- Complete Mailing Address
- Daytime Telephone
- Specify 3.5" or 5.25" diskette

Thanks for helping us out!

Brian & Pat
Coconut Computing, Inc.
La Jolla, CA

Topic 476: COCONET: San Diego's Community Computer Network
2: Louis Jaffe (louis) Tue, Jun 6, '89 (12:51) 2 lines

Sounds very interesting, but I'm disappointed to hear that proprietary terminal software is required. This is a surefire way to limit your market penetration.

Topic 476: COCONET: San Diego's Community Computer Network
3: Kathleen Creighton (casey) Tue, Jun 6, '89 (12:57) 4 lines

Yes, it sounds fascinating. And I wouldn't even mind the long distance costs if it's as nice as it sounds. But requiring EGA or VGA? That might be more limiting than requiring dedicated software. I can't afford a new card and monitor just to take a look at this.

Topic 476: COCONET: San Diego's Community Computer Network
4: Howard Rheingold (hlr) Tue, Jun 6, '89 (13:18) 6 lines

Sounds great! Good luck. And I'll be looking in when you get your Mac version up and running.

You know, online communities evolve so quickly that people tend to forget how it all happened. Be sure to drop in here often and let us know how it is going!

Topic 476: COCONET: San Diego's Community Computer Network
5: Brian Lawrence Dear (whofan) Tue, Jun 6, '89 (13:43) 6 lines

We've found that a number of people would like a Hercules monochrome version for the PC. If there were enough of a demand for such, we'd definitely consider creating such a version. Especially once the Mac version is out, as most Macs are monochrome.

--- brian

Topic 476: COCONET: San Diego's Community Computer Network
6: Hank Roberts (hank) Tue, Jun 6, '89 (14:24) 2 lines

let me know when you do, I use herc monochrome and 'simcga'.
What's the net address to get email into your system?

Topic 476: COCONET: San Diego's Community Computer Network
7: Kathleen Creighton (casey) Tue, Jun 6, '89 (16:14) 2 lines

Brian, consider this: My interest in San Diego is in the law office market. It's a text (monochrome) market.

Topic 476: COCONET: San Diego's Community Computer Network
8: Steve Cisler (sac) Tue, Jun 6, '89 (16:46) 3 lines

Brian, good luck to you and let me know when the Mac is ready to try. That's my machine, but I'll review both versions for my newsletter: Connect:Libraries & Telecommunications.

Topic 476: COCONET: San Diego's Community Computer Network
9: Ari Davidow (ari) Wed, Jun 7, '89 (10:07) 3 lines

Brian, are there provisions for non-Latin foreign languages such as Hebrew? I ask because of the possibilities inherent in a graphics-based system.

Topic 476: COCONET: San Diego's Community Computer Network
10: Leo L. Schwab (ewhac) Wed, Jun 7, '89 (12:31) 5 lines

It sounds like a really neat idea. But limiting access to PC's is going to make all those C-64 and Apple-II owners with modems feel left out. Will the software port easily to other systems?

Schwab

Topic 476: COCONET: San Diego's Community Computer Network
11: Brian Lawrence Dear (whofan) Wed, Jun 7, '89 (12:35) 10 lines

The first release of the system will be to users of IBM-compatibles. We're of course interested in developing versions of the software for other platforms (Commodore, Apple II, Mac, Atari) as time, money, and personnell permit. As for portability, the software is very portable, and so we're definitely going to port the code to other machines.

As for Hebrew text, no problem. We'd need a Hebrew font set, but beyond that,

it's very easy to add additional fonts to the software.

-- brian

Topic 476: COCONET: San Diego's Community Computer Network
12: Jon Carroll (jrc) Sat, Jun 10, '89 (06:36) 1 line

I'd love a run down of these "emoticons"...

Topic 476: COCONET: San Diego's Community Computer Network
13: Louis Jaffe (louis) Mon, Jun 12, '89 (07:14) 3 lines

If you were using NAPLPS you'd have the graphics interfacing for PCs and Macs under the same standard, and you'd have the foreign-language sets, including Hebrew.

Topic 476: COCONET: San Diego's Community Computer Network
14: Brian Lawrence Dear (whofan) Mon, Jun 12, '89 (10:57) 3 lines

Well, we looked at NAPLPS, but decided not to go with it. We designed our own graphics protocol, called COCODE. Like NAPLPS, it handles not only but graphics, but also menus and other objects.

Topic 476: COCONET: San Diego's Community Computer Network
15: Hank Roberts (hank) Mon, Jun 12, '89 (13:33) 1 line

Are you offering any of the online news services on Coconet?

Topic 476: COCONET: San Diego's Community Computer Network
16: Louis Jaffe (louis) Mon, Jun 12, '89 (15:02) 1 line

I'm curious, Brian, why you decided against NAPLPS.

Topic 476: COCONET: San Diego's Community Computer Network
17: Brian Lawrence Dear (whofan) Mon, Jun 12, '89 (21:11) 11 lines

Re: online news services: not initially, no. We're looking at a number of them, but it isn't cost-effective yet. And we're trying to accent local coverage rather than try to compete with large systems like CompuServe etc.

Re: deciding against NAPLPS. Couple reasons: I have 10 yrs programming experience with the PLATO system, and am familiar with their methodology and style for display protocols. I wanted cheap tools to create displays that I can directly turn into programming code, not bitmaps. And I'd written my own protocol, which enabled me to create standards as I went along, rather than follow ANSI by the book :-). (That :-) would be an emoticon on COCONET, by the way...)

Topic 476: COCONET: San Diego's Community Computer Network
18: Louis Jaffe (louis) Tue, Jun 13, '89 (08:43) 4 lines

Sigh. I understand your motives, Brian, but I think it's too bad that serviceable public standards like NAPLPS are spurned while programmers reinvent the wheel again and again. Do you really think your own new "standard" is going to garner widespread support?

Topic 476: COCONET: San Diego's Community Computer Network
19: Brian Lawrence Dear (whofan) Tue, Jun 13, '89 (13:12) 5 lines

COCONET is designed to support multiple protocols. If there's a demand for NAPLPS, we can add it as a module to our system, while keeping the COCODE protocol. NAPLPS is certainly more powerful in some graphics applications than COCODE, but for now COCODE provides more than enough capability.

Topic 476: COCONET: San Diego's Community Computer Network
20: Louis Jaffe (louis) Tue, Jun 13, '89 (14:03) 5 lines

The advantage to NAPLPS, from my point of view, is that there are various generic NAPLPS terminal programs in circulation, as well as libraries of foreign language characters, etc. I think you hamper yourself if you require users to use only your dedicated terminal software. Good luck to you anyway.

Topic 476: COCONET: San Diego's Community Computer Network
21: Hank Roberts (hank) Tue, Jun 13, '89 (17:13) 2 lines

Brian, do you want to have a "local-only" system?
Do you have interet mail addresses for your users, can they mail in and out?

Topic 476: COCONET: San Diego's Community Computer Network
22: Jon Carroll (jrc) Wed, Jun 14, '89 (11:29) 2 lines

I may be off base here, but isn't one of the objections to Prodigy their insistence on dedicated terminal software?

Topic 476: COCONET: San Diego's Community Computer Network
23: Blair Newman (metaview) Wed, Jun 14, '89 (11:36) 4 lines

To be really good an info service should at least optionally support dedicated terminal software. For example, in a purely text system like this one, text compression/decompression could double to triple the effective speed of your modem.

Topic 476: COCONET: San Diego's Community Computer Network
24: Kathleen Creighton (casey) Wed, Jun 14, '89 (12:32) 4 lines

Yes, a lot of people find dedicated software unfortunate and it can be problematic, like not resetting your particular modem correctly, etc., etc., and it's certainly not as flexible as that which you're accustomed to using.

Topic 476: COCONET: San Diego's Community Computer Network
25: Hank Roberts (hank) Wed, Jun 14, '89 (13:53) 1 line

if you _want_ a geographically closed system, though, it's a feature.

Topic 476: COCONET: San Diego's Community Computer Network
26: Louis Jaffe (louis) Wed, Jun 14, '89 (18:11) 3 lines

Jon, you are right, Prodigy's terminal software is both NAPLPS-based and proprietary. That's because they overlay their proprietary session protocol

on top of NAPLPS. Pure NAPLPS is non-proprietary, however.

Topic 476: COCONET: San Diego's Community Computer Network
27: Brian Lawrence Dear (whofan) Thu, Jun 15, '89 (13:20) 5 lines

We agree with the consensus that an on-line information service available via proprietary software should also be available in a text-only version accessible to any computer/modem combination. We've been analyzing the pros and cons of a text-only version, and if we have time we may develop one. Stay tuned.

Topic 476: COCONET: San Diego's Community Computer Network
28: Steve Cisler (sac) Fri, Jun 16, '89 (10:36) 2 lines

There is an incorporated electronic outfit in Florida by the name of Coconet. Hope that does not cause you a problem in San Diego.

Topic 476: COCONET: San Diego's Community Computer Network
29: Brian Lawrence Dear (whofan) Fri, Jun 23, '89 (14:00) 5 lines

It's official -- we're developing a Hercules monographics version of the COCONET Access Program. Available later this summer.

-- brian

Topic 476: COCONET: San Diego's Community Computer Network
30: Kathleen Creighton (casey) Fri, Jun 23, '89 (16:37) 1 line

Good news!

Topic 476: COCONET: San Diego's Community Computer Network
31: Brian Lawrence Dear (whofan) Mon, Jun 26, '89 (10:02) 9 lines

Another new feature of the system: COCOFAX(tm)

COCOFAX is a service on the COCONET system which enables you to type a message, specify a phone number, and send the message as a FAX to anywhere in the world.

The Hercules version is almost ready. Also, mouse support will be coming in the next release.
-- brian

Topic 476: COCONET: San Diego's Community Computer Network
32: Hank Roberts (hank) Mon, Jun 26, '89 (10:32) 1 line

no email in and out?

Topic 476: COCONET: San Diego's Community Computer Network
33: Brian Lawrence Dear (whofan) Mon, Jun 26, '89 (11:56) 8 lines

>no email in and out?

Not sure I know what you mean... do you mean email in and out of the COCONET service to the rest of the computing world? If so, the answer is "no,

not yet" --- we're still working on the design of that. We'd like to get access to Internet or UUCP... it's on our list of things to add.

-- brian

Topic 476: COCONET: San Diego's Community Computer Network
34: Hank Roberts (hank) Mon, Jun 26, '89 (14:38) 2 lines

UUCP is what I meant, as the closest thing to world-net now available. Thanks.

Topic 476: COCONET: San Diego's Community Computer Network
35: Brian Lawrence Dear (whofan) Fri, Jun 30, '89 (17:17) 5 lines

The COCONET Access Program now supports Hercules-compatible monochrome graphics cards (i.e., 720x348 black&white graphics).

-- brian

Topic 476: COCONET: San Diego's Community Computer Network
36: Brian Lawrence Dear (whofan) Mon, Jul 3, '89 (12:11) 35 lines

A number of people have been asking me to post some of the first-hand reactions we got when we opened the system to the charter subscribers. Fortunately, the reactions have all been positive! :-)

In fact, we're very pleased with the reactions so far. Some quotes:

> "This is a really well done system! I can hardly believe my eyes. My wife is sitting here and she wants to know two things: Can she get an account on here and how to go about getting an ad on your service..."
>
> "This is my first time on the system. It looks very interesting, and the colors and graphics are pretty slick..."
>
> "I am overwhelmed--this is one slick system! ...Although I am gushing, I'll be on the lookout for bugs, er, features, and will let you know what I find..."
>
> "I was absolutely blown away... Well, you sure have surpassed PRODIGY..."

We've even been told by one user that they've cancelled their PRODIGY subscription because it didn't offer anything valuable the way COCONET did...

Now that we support EGA/VGA as well as Hercules Monochrome, we're hoping our initial release to San Diego will expand even more. During July and August, we'll be working on the much-in-demand Macintosh version.

A continuing thanks to those WELL-beings who've been helping us create the COCONET online community!

--- Brian & Pat Dear

Topic 476: COCONET: San Diego's Community Computer Network
37: Jon Carroll (jrc) Mon, Jul 3, '89 (15:28) 2 lines

Seems evident that a regionally focused and dveloped system is going to be superior to a national one.

Topic 476: COCONET: San Diego's Community Computer Network
38: Leonard Rosenthol (svc) Tue, Jul 4, '89 (09:56) 1 line

Good luck on the Macintosh version - you'll need it!!

Topic 476: COCONET: San Diego's Community Computer Network
39: Brian Lawrence Dear (whofan) Thu, Jul 20, '89 (12:45) 8 lines

Just an update:

We opened up to the public last Friday with our first advertisement (in San Diego's "ComputorEdge" magazine). Over the next couple of months we'll be looking into adding CD-ROM support, USENET connections, and, of course, we'll be hacking away at a Macintosh version of the software.

-- brian

Topic 476: COCONET: San Diego's Community Computer Network
40: Stacy Horn (stacy) Wed, Jul 26, '89 (13:52) 8 lines

I just spent some time on COCONET with someone from my office. As I already said to Brian - we flipped! You *really* have something here. It's fast, fast, fast, it looks great, the screen designs are wonderful, the interface is simple - you're an expert in under a minute, what else is there to say

Wh6n did you say the Mac version will be ready?

Topic 476: COCONET: San Diego's Community Computer Network
41: Kathleen Creighton (casey) Wed, Jul 26, '89 (14:19) 6 lines

See, Stacy? I knew you'd like it. It's *very* impressive. Brian has done an outstanding job. By the time he's finished (it's kind of like the Winchester Mystery House :-) he may have single-handedly revolutionized the computer conference software as we know it today. It's hard to know what its ultimate capacity/problems will be at this point, but it's an outstanding piece of work.

Topic 476: COCONET: San Diego's Community Computer Network
42: Stacy Horn (stacy) Wed, Jul 26, '89 (14:40) 1 line

Outstanding! That was the word I was looking for!

Topic 476: COCONET: San Diego's Community Computer Network
43: Cliff Figallo (fig) Wed, Jul 26, '89 (15:05) 2 lines

From two knowledgeable and tough critics. *I'm* impressed and I haven't even seen it yet.

Topic 476: COCONET: San Diego's Community Computer Network
44: Jon Carroll (jrc) Wed, Jul 26, '89 (15:11) 3 lines

What were those #s again? I need another reason to sit in front of my machine for hours.
Did some one say free trial memberships?

Topic 476: COCONET: San Diego's Community Computer Network
45: Cliff Figallo (fig) Wed, Jul 26, '89 (15:41) 1 line

Type 0 at the respond prompt to see the opening information screen.

Topic 476: COCONET: San Diego's Community Computer Network
46: Stacy Horn (stacy) Thu, Jul 27, '89 (05:39) 1 line

I didn't know that trick! I've wanted to do that lots of times.

Topic 476: COCONET: San Diego's Community Computer Network
47: Cliff Figallo (fig) Thu, Jul 27, '89 (08:58) 2 lines

Yeah, you can type any response number at the Respond prompt. 0 = topic header. "only 0" gives you only the topic header, no following responses.

Topic 476: COCONET: San Diego's Community Computer Network
48: Sgt. Poskanzer, Protocol Police (pokey) Thu, Jul 27, '89 (10:07) 2 lines

Except for mathematicians and computer nerds, most people think the numbers begin at 1.

Topic 476: COCONET: San Diego's Community Computer Network
49: Stacy Horn (stacy) Thu, Jul 27, '89 (10:26) 1 line

And I thought they began at the front.

Topic 476: COCONET: San Diego's Community Computer Network
50: Tom Hargadon (foxhedge) Thu, Jul 27, '89 (15:07) 2 lines

It what the well does with imaginary numbers that will blow your mind!
and what.,specifically, blows peoples mind about this system?

Topic 476: COCONET: San Diego's Community Computer Network
51: Fred Heutte (phred) Sat, Jul 29, '89 (03:17) 4 lines

Some disk controllers begin numbering connectors with 1, while naturally others start with 0. From the same company and the same product line, of course (I'm speaking about very recent frustrations with Western Digital ;-)

Topic 476: COCONET: San Diego's Community Computer Network
52: Brian Lawrence Dear (whofan) Sun, Jul 30, '89 (09:57) 18 lines

Our offer of free 3-month subscriptions and free subscriber's kits ended a

few weeks ago. As we said in our original "Call for Participation," we were looking for about 10 folks to help us start discussions and find bugs for about a month before we finally opened the system to the public. We're open now, advertising locally in San Diego, etc. In fact we'll be exhibiting the system next Saturday at the San Diego Computer Show & Sale here in town. Should be a lot of fun.

We've prepared some written materials that describe the system in detail. If anyone would like a copy, send me an e-mail message, or call or write to:

Brian L. Dear
Coconut Computing, Inc.
7946 Ivanhoe Avenue, Suite 303
La Jolla, CA 92037
Phone: 619/456-2002
Fax : 619/456-1905

Topic 476: COCONET: San Diego's Community Computer Network
53: Brian Lawrence Dear (whofan) Tue, Aug 22, '89 (09:03) 5 lines

Interesting... we've just gotten a user onto COCONET who accesses it via PC-Pursuit... says it "works like a champ"...

--- brian

Topic 476: COCONET: San Diego's Community Computer Network
54: Brian Lawrence Dear (whofan) Thu, Aug 31, '89 (15:41) 6 lines

If BIX users are BIXEN...

and WELL users are WELLbeings...

are COCONET users... COCONAUTS? :-)

Topic 476: COCONET: San Diego's Community Computer Network
55: Kathleen Creighton (casey) Thu, Aug 31, '89 (15:46) 1 line

COCOpuffs :-)

Topic 476: COCONET: San Diego's Community Computer Network
56: Stacy Horn (stacy) Fri, Sep 1, '89 (06:39) 1 line

I vote for COCOPUFFS!

Topic 476: COCONET: San Diego's Community Computer Network
57: Brian Lawrence Dear (whofan) Sun, Sep 10, '89 (12:13) 24 lines

Some new developments on the COCONET Service:

Tomorrow we're releasing1 version 89.09 of the COCONET Access Program. The new software includes access to three major new features of the Service:

* COCOTALK: Live "chat" between any two users on-line on the system

* COCONET File Exchange: A new library of over 100MB of public domain and shareware programs to download. Features a very easy-to-use interface to browse through the lists of files quickly and easily. You're going to flip when you see this.
* Plays/Playhouse Show Times: All showtimes for San Diego-area live-performance theatres. Now we have show times for movies _and_ plays; and more events databases are on the way.

We also recently added another hard drive to our host computer; now we're at almost 1/2 gigabyte --- and we already need more space!

--- brian l. dear
coconut computing, inc.
la jolla, ca

[COCOTALK and COCONET are service marks and trademarks of Coconut Computing Inc.]

Topic 476: COCONET: San Diego's Community Computer Network
58: Brian Lawrence Dear (whofan) Tue, Sep 26, '89 (19:57) 20 lines

Some interesting observations about our COCONET subscribers:

We're finding that almost none of our users had read the COCONET User's Manual that comes with the Subscriber's Kit! In fact, they're just signing on and immediately starting to use the various features of the system, without any training or help. All that work on the manual! :-)

We're getting comments all the time that the COCONET Access Program is the most intuitive thing people have ever used. Of course, as designer of the system, I couldn't agree more! :-) But seriously, for those readers in the Telecomm conference who've been talking about the Design of the On-Line Environment, I urge you to check out our system and see for yourself what we've come up with.

Oh, by the way, we'll be having a hands-on session with the COCONET Service at the February 1990 TED2 conference in Monterey, in case anyone's interested (and likes to plan waaaaay in advance!)...

-- brian

Topic 476: COCONET: San Diego's Community Computer Network
59: Kathleen Creighton (casey) Tue, Sep 26, '89 (23:53) 3 lines

The only reason I read the manual was because you told me you'd put a lot of work into it. It's true, you did a great job. But COCONET doesn't *need* a manual :-).

Topic 476: COCONET: San Diego's Community Computer Network
60: Jack Powers (jackp) Wed, Sep 27, '89 (22:41) 2 lines

Manuals are only read as a last resort.
Computer systems should be as obvious as toasters in operation.

Topic 476: COCONET: San Diego's Community Computer Network

61: Saul Feldman (sdf) Thu, Sep 28, '89 (01:06) 2 lines

Brian, be careful. I came across a Florida company also called Coconet.
Is your name registered?

Topic 476: COCONET: San Diego's Community Computer Network
62: Kathleen Creighton (casey) Thu, Sep 28, '89 (01:27) 1 line

Yes it is. Brian's pursuing this company now with an attorney.

Topic 476: COCONET: San Diego's Community Computer Network
63: Brian Lawrence Dear (whofan) Thu, Sep 28, '89 (18:51) 5 lines

... and a baseball bat! (just kidding! |-)

Seriously, yes, we (and our attorney) are aware of the company and their
ads in various publications. We're working on the problem.

Topic 476: COCONET: San Diego's Community Computer Network
64: David Alan Feustel (feustel) Sat, Sep 30, '89 (10:55) 2 lines

How about letting us know what the access number is? I have PCPursuit and
I'd like to try the service out.

Topic 476: COCONET: San Diego's Community Computer Network
65: Kathleen Creighton (casey) Sat, Sep 30, '89 (13:13) 3 lines

COCONET runs with proprietary software. Brian's posted his phone number
at the beginning of this topic, I think, if you want to buy a copy and
get set up. It's pretty neat.

Topic 476: COCONET: San Diego's Community Computer Network
66: David Alan Feustel (feustel) Sat, Sep 30, '89 (17:03) 1 line

How much does registration cost? How much does using it cost?

Topic 476: COCONET: San Diego's Community Computer Network
67: Brian Lawrence Dear (whofan) Sat, Sep 30, '89 (21:10) 10 lines

The Subscriber's Kit (which includes the COCONET Access Program and
a User's Manual) costs $29.95. (CA residents must add $2.10 tax).
There are two subscription plans -- 3 months at $6 or 12 months at
$5 -- per month, which makes it $18 for the 3 month and $60 for the year.

-- brian l. dear
   coconut computing, inc.
   la jolla, ca
   619/456-2002

Topic 476: COCONET: San Diego's Community Computer Network
68: David Alan Feustel (feustel) Sun, Oct 1, '89 (08:28) 2 lines

Could you describe the features of the network(Uploaded brochure would be
great if available)?

Topic 476: COCONET: San Diego's Community Computer Network
69: Kathleen Creighton (casey) Sun, Oct 1, '89 (08:44) 1 line

Have you read this topic?

Topic 476: COCONET: San Diego's Community Computer Network
70: David Alan Feustel (feustel) Mon, Oct 2, '89 (18:38) 1 line

Actually, not until very recently.

Topic 476: COCONET: San Diego's Community Computer Network
71: Brian Lawrence Dear (whofan) Sun, Oct 22, '89 (12:23) 126 lines

Coconut Computing Meets Prodigy and Pac Bell

Well, the big day finally came! Yesterday, we participated in a panel session in San Diego on "Telecommunications Now and Future." Panelists were Coconut Computing, Prodigy, Pacific Bell, America Online, and two local San Diego BBS sysops. The session was part of the San Diego Computer Society's monthly Saturday meeting. It was a great success! We knocked everyone's (including PacBell's and Prodigy's) socks off.

We were the only company to bring a demo system. Everyone got a chance to try out COCONET before and after the session. People were whispering to me, "gosh, this is much better than Prodigy. Are you aware that a Prodigy rep is going to be on the panel?" Even the Prodigy rep tried out the system before the session. (He was easy to spot -- he was the only person in the room dressed in a suit and tie (IBM navy blue, of course)).

At the session onset, panelists were each given 5 minutes to introduce themselves. (Before the meeting started, the moderator had asked me if I had any preference for the order of intros. He told me the Pac Bell woman had requested to go last. I said order didn't matter. I went first.) Each panelist stuck to the rules and stopped at the 5 minute mark.

The Prodigy guy came across as a very intelligent, knowledgable representative.
It was good to see someone who seemed to know what they were talking about (at least, most of the time :-) Funny thing was, he spent most of his 5 min. talking about.. our COCONET Service! Thought it was great, etc. "Welcomed" us into the business (gee, thanks); wished us the "best of luck." Of course, some of his compliments were kinda bizarre: at one point he spoke of COCONET as being "PRODIGY-compatible" (!).

The guy representing America Online (formerly AppleLink Personal Edition?) was uninformed. Said he had no "vested interest" in America Online -- said he didn't work for them or anything. Kept apologising for not knowing anything technical -- he wasn't very knowledgable about anything, really, and people were left having no idea what America Online was all about.

Then it was the the Pac Bell rep's turn. She launched into a very

defensive tirade about "the enemy" (AT&T) and that nasty bunch named "the government." "We're not _allowed_" to do this, "we're not _allowed_" to do that... it was quite a show. The rest of us on stage kept looking to the moderator for a signal. She went on for fifteen minutes about how Pac Bell couldn't do this or that because everyone's out to get (i.e., regulate) them. Then she proceeded to stand up, walk down the steps to the audience, and began setting up a VCR to play a 12-min. Pac Bell video. The moderator cut her off, much to the everyone's relief (and to the Pac Bell rep's visible displeasure... her arrogance amazed us: this was PacBell's show, and the hell with the rest of the panelists). After the rest of the panelists had introduced themselves, and the moderator let the PacBell woman show her video. We all got offstage and down into the audience to watch it.

It was extremely condescending. Not sure what kind of group was supposed to see it, but certainly not this Computer Society group! The video was a look into what the future might be like, say 40 years into the future, if Pac Bell had its way. We see a mother and her daughter sitting in front of and interacting with a Knowledge-Navigator-like video/telephone/PC that understands and speaks English. Everything goes through PacBell's "Intelligent Gateway"... "sharing information" to everyone everywhere. Some people in the audience started leaving, at this point. When it was over, we all marched back up on stage and began the fun part -- questions from the audience.

For most of the audience, it must have been their first opportunity to confront a Phone Company rep face-to-face. For a while, the audience just drilled her with questions about billing, ripoffs, and other complaints. She spoke of the "information rich" and the "information poor", and how PacBell's gateway would make everyone information rich. I rebutted by voicing my concern over the term "GATEway" -- why have a gate at all? who gets to be the gatekeeper? and why? She responded saying well, let's use different terminology -- information highway. I responded saying, who gets to be the highway patrol? Who runs the toll booths? (Cheers from the audience :-)

The moderator kept asking me and the Progidy guy to reply to her statements. It was interesting to see that we both agreed on almost every point. We both spoke of seeking alternatives to the phone company monopoly (cable, packet radio, satellite, etc). The PacBell rep couldn't pronounce "packet radio"...

Someone from the audience asked the Prodigy guy why they'd spent something like 800 million so far, and it was still so slow. He didn't answer the question. Worked around it; didn't admit that perhaps Prodigy's system design wasn't optimal... He went into a very bizarre analogy about seeing some actress's centerfold in PLAYBOY, and how things in the picture just weren't right. Didn't make any sense to me, and lots of the audience was completely puzzled by the analogy.

The moderator asked us to talk about trends for the future. Prodigy guy said the hardware's there, but it's the software that isn't, and that it would take large corporations & lots and lots of money before we would see software capable of the kinda of tricks shown in the PacBell video. I replied saying Coconut Computing, a veritable ma-and-pa company of two,

had put together a set of software that even _he'd_ found to be impressive. And we did it on a shoestring, compared to you-know-who. I reminded him that it was hackers and Jobses and Wozniaks who created the PC revolution. And it'll be the same grassroots homebrewers who make the telecomm revolution happen.

The audience returned to sending volleys of questions towards the PacBell rep. The PacBell rep announced that the surcharge for touch-tone service was going away on Jan 1 (cheers from aud.). She spoke about how the phone co. is only set up to handle 20% of customers making calls at any time. Audience members asked (in the "do you mean to tell me.." tone of voice) if that meant they were only supposed to dial 20% of the day? She said no, no, no, but she didn't clarify. She did say that there was a "task force" working on a new intermediate-level pricing structure --- in other words, a residential rate, a business rate, and something in between. Lots of howls from the audience. Suffice to say, the PacBell rep managed to turn everyone off, make everyone cynical, and reinforce the public skepticism. Lily Tomlin's operator ("we're the phone company.. we don't have to care...") couldn't have done it any better.

The encounters between the PacBell rep and the audience really struck me. It made it clear that the average ratepayer has no idea what the phone co. is up to, and vice versa. What's really needed is a way for more of the public to have an open forum with the phone co., like Dave Hughes' forum for US West on the Old Colorado system. We're going to see if the Pac Bell will do the same in San Diego.

-- brian

Topic 476: COCONET: San Diego's Community Computer Network
72: Howard Rheingold (hlr) Sun, Oct 22, '89 (14:13) 1 line

thanks, brian

Topic 476: COCONET: San Diego's Community Computer Network
73: Robert Deward (bobd) Sun, Oct 22, '89 (17:38) 7 lines

Yes, and thanks for your demo at the Hackers Conference. I was really impressed too. The flexibility with which users can express themselves was a major eye-opener. The facial expressions one can paste --"emoticons" -- and the variety of type size and style were particularly attractive.

I'll pass along the audience's perceptions to those who ought to know in Pac Bell. I'm sure they will do some good.

Topic 476: COCONET: San Diego's Community Computer Network
74: David Alan Feustel (feustel) Sun, Oct 22, '89 (18:29) 7 lines

Brian,

I reread this topic from the beginning and would like to know if your bbs can be reached via PCPursuit. I don't have an EGA/VGA at the moment but I'll be getting one shortly. If the system is PCPursuitable, I will be signing up as soon as I get my VGA display/controller. Maybe Prodigy will buy you out for $$$$!

Topic 476: COCONET: San Diego's Community Computer Network
75: Brian Lawrence Dear (whofan) Sun, Oct 22, '89 (19:40) 18 lines

Yes, we have at least one customer who accesses our service via PC Pursuit. I'm told it works fine; the only problem, I hear, is that sometimes PC Pursuit's San Diego dial-out lines are busy.

I should say that Coconut hasn't tried PC Pursuit so it makes no guarantees. The reports we have gotten indicate it "works like a champ."

I'd like to add that anyone interested in copying any of my notes from this or other WELL conferences please get my permission first. I would ask that my notes not be distributed or copied to other systems or printed out for others to read without my permission. Thanks. :-)

-- brian

Topic 476: COCONET: San Diego's Community Computer Network
76: Blair Newman (metaview) Sun, Oct 22, '89 (22:31) 3 lines

Any chance of setting up a demo at one of the regular Well parties, or at least letting us know if any Bay area demo's are scheduled? Is their a demo on floppy available? Sure would like to see this.

Topic 476: COCONET: San Diego's Community Computer Network
77: Jack Powers (jackp) Mon, Oct 23, '89 (10:53) 4 lines

Thanks, Brian, for that excellent report.

It confirs my suspicion that the telephone people and the data people have _very little_ in common!

Topic 476: COCONET: San Diego's Community Computer Network
78: Jon Carroll (jrc) Wed, Oct 25, '89 (13:21) 2 lines

Very nice and funny, Brian; nice to have your corner of the universe active and smart.

(r)espond, (p)ass, or ? for help: p

This is the login message on Boston Citinet. Guess they've decided to try to make their money through the new NYNEX gateway in eastern Mass. -- through which they charge $30 an hour for the chat services they were offering directly through CitiNet for $30 a year!

Goodbye and Thank You CitiNetters!

The staff of Boston CitiNet would like to take this opportunity to say goodbye and thank you for the past six great years. As of Monday, July 23 1990, Boston CitiNet will no longer be "on the air".

Some of our information providers will still be available on the NYNEX InfoLook Gateway in the Boston area. For information on the gateway, please call 1-800-338-2717 and ask for extension 56. Tell them you would like to connect to their gateway.

Our popular National Marine Fisheries Information will be available through Omaha CitiNet. Their modem number is 402-593-2000.

A special thanks to all of you who helped make Boston CitiNet feel like a neighborhood of friends!

1: Brian Lawrence Dear (whofan) Sat, Jul 21, '90 (20:07) 4 lines

That's too bad. A very interesting development. Maybe it'll help Channel 1 (a huge BBS) in Boston.

2: Earl Crabb (esoft) Sun, Jul 22, '90 (00:03) 2 lines

Anyone know if Omaha CitiNet is included or excluded? I believe it was closely associated.

3: Tom Mandel (mandel) Sun, Jul 22, '90 (08:53) 17 lines

This *is* fascinating, and it is an important failure, since CitiNet was a major attempt to develop a commercially viable regionally-oriented conferencing and interactive information business.

Any and all information on this failure by the cognescenti here would be welcome.

Does the failure have anything to do with the New England recession, or is it simply related to a failure--yet again--to make the medium work commercially?

This withdrawal from business probably has negative implications for Prodigy.

It could have some positive ones for the WELL--a much smaller business--especially if the WELL can attract some of CitiNet's brighter customers.

4: Kathleen Creighton (casey) Sun, Jul 22, '90 (10:07) 2 lines

How was CitiNet set up (internally)? I'm wondering if it was a co-op kind of a deal or what?

Loni Hancock
Mayor; City of Berkeley
2180 Milvia, 5th Floor
Berkeley, CA 94704

Dave Fogarty
Office of Economic Development
2180 Milvia Street
Berkeley, CA 94704

Anna Rabkin
Auditor
2180 Milvia Street
Berkeley, CA 94704

Britt Johnson
Environmental Health Division
2180 Milvia, 3rd floor
Berkeley, CA 94704

Eric Landes-Brenman
City of Berkeley health and Human
2180 Milvia Street, 3rd Floor
Berkeley, CA 94704

Sean Gordon
City Manager's Office
2180 Milvia Street
Berkeley, CA 94704

Catherine Lew
Executive Assistant to the Mayor
2180 Milvia St.
Berkeley, CA 94704

Marie McKechney
City of Berkeley
2180 Milvia Street
Berkeley, CA 94704

Ron Pacheco
Personnel Department
2180 Milvia
Berkeley, CA 94704

Richard Rothman
City College of San Francisco
50 Phelan Avenue
San Francisco, CA 94112

Regina Minudri
Director; Berkeley Public Lit
2090 Kittredge
Berkeley, CA 94704

Nancy Skinner
Councilmember; District 1
2180 Milvia Street
Berkeley, CA 94704

Sandi Lawson
Office of Economic Developme
2180 Milvia Street
Berkeley, CA 94704

Douglas Hill
1197 Cragmont Avenue
Berkeley, CA 94708

5: Adam Gaffin (adamg) Sun, Jul 22, '90 (16:01) 2 lines

No, it was supposed to be a for-profit service, supported by advertising and by companies paying for space on the system.

6: Robert Horvitz (rh) Sun, Jul 22, '90 (20:53) 6 lines

Boston has such a high concentration of literate, computer-owning, curious, with-it people, that failing there raises questions about survival of CitiNets elsewhere. Maybe there's too much local competition (Usenet availability at the colleges, BBSs for the public)? Yes, anyone with more inside info abou this, please tell us.

7: Earl Crabb (esoft) Sun, Jul 22, '90 (22:13) 2 lines

CitiNet was also one of the few service bureaus up on multiple RBOC gateways, so there are some implications there, too.

8: Taylor Walsh (taylorw) Mon, Jul 23, '90 (08:13) 59 lines

Unfortunate, because this will be read as another "Videotex Disaster" - not exactly the models one is looking for if one is developing local services elsewhere. To put it mildly.

You'll have to get Richard Koch on the record here (he's the founder of American Citinet, which sprang from Boston Citinet, and which has the Omaha CitiNet deal there, so far as I know.

This should not be looked on as a major failure to establish local service (everyone will understand my somewhat subjective take on all this...since I run one in Washington). My take on this development includes the following:

- Boston Citinet as a locally oriented service was doing fine up to 1987 or so, when the RBOCs began dancing the Song of the Gateways. Since Citinet was the only local service approxinating a commercial approach to the business, its management found itself lured into the compelling but dubious world of gateway development.

- As a result (one infrequent observer's view -- infrequently online to Boston, that is), the basic service - the local service in Boston was left untended. Information was out of date, no one was riding herd on the info providers or otherwise freshening the info.

- I don't know to what extent management tried to raise capital to extend the service, but I believe that there was more business to be had working with the RBOC gateway developers, so time and attention was placed there instead. I know that management always believed that ultimately getting hooked up to the Gateway would be a way to print money, since the phone companies would do all the marketing and billing, once you hooked your information providers up to the Gateway.

- This may yet prove to be the case, and American Citinet may well be doing okay in the Gateway development game (although I doubt it...) There stuff is available on lots of local gateways; but who in Washington cares about real estate services in Boston Mass? Not many. The Omaha operation has been said to be intent

on development of _local_ stuff, but I don't know how well that has proceeded.

- Boston has a slew of locally oriented online services: I think Delphi, in addition to Channel 1 also had Boston services.

There are Boston WELL users here: how many signed up - or didn't - to Boston Citinet? How come?

Finally, this was not, as Tom suggest, a "major attempt to develop a commercially-viable, regionally oriented conferencing and interactive information business." A "major attempt" has solid, long term financial backing, a full staff, and a sustained marketing plan. Boston Citinet was a bootstrap operation, with none of the resources a "major attempt" would entail. The problem is that this characterization is likely to prevail, further obscuring the opportunity that such services have inherent in them. (Remember, I operate an equally non-major attempt, so you'll find little objectivity here.)

9: Adam Gaffin (adamg) Mon, Jul 23, '90 (08:33) 46 lines

After a couple of months I gave up on CitiNet: there was no sense of community, little of interest, and like Taylor says, plenty of stale information. Still, there are some loyal CitiNet users, and they're having a meeting Friday night, at either 6 or 7 p.m. at the Meridien Hotel downtown to talk about how to keep the service going.

Here's the story from Bonnie Silveria, soon-to-be-unemployed account executive at Boston CitiNet (I'm still trying to get Richard Koch):

American CitiNet is shutting Boston but keeping Omaha Citinet, which charges about $4 a month and is run with the Omaha World Herald. Koch, one of the two CitiNet founders, will apparently still own a piece of the company, but won't have anything to do with running it anymore. Tom Considine, the other founder, is out altogether. Five Boston employees will also be out of jobs as of 3 p.m. this (Mon.) afternoon.

The issue, of course, is money - which Boston CitiNet was no longer making (unlike the still profitable Omaha CitiNet).

Part of the problem was the general slowdown of the New England economy. But what really did them in were problems with the NYNEX gateways. CitiNet invested heavily in the gateway concept: it not only provided its own services but acted as a service bureau for others who wanted to get onto the gateways. The theory was that ``when the gateways made money we would make money.'' But none of the Nynex gateways (New York, Burlington and Boston) are making money.

This was on top of the problems CitiNet always had selling advertising. Most companies were extremely skeptical of the concept, and the few willing to take a chance usually wanted to work out trades instead of actually forking over money (WZLX, a rock station in Boston, for example, would advertise CitiNet in exchange for space on the system). So although Boston CitiNet made some money at the beginning, it's been a money loser for the past 18 months or so.

American CitiNet will continue to offer services through the gateways, including an entertainment newswire, the ever-popular National Marine

Fisheries data and chat services (at 25 cents a minute - $15 an hour).

Oh, I seem to recall that CitiNet brought some of its gateway problems on by itself. People in Burlington were really annoyed, for example, that the property listings section there consisted entirely of information from Boston!

10: Earl Crabb (esoft) Mon, Jul 23, '90 (09:02) 4 lines

Back in the early days of CitiNet, they were called YellowData, and provided the BBS and Chat services in Danville for PacBell's pre-gateway pre-ISDN trial, Project Victor The host machine was actually housed at the Chronicle Teleguide offices.

11: Tom Mandel (mandel) Mon, Jul 23, '90 (09:17) 3 lines

Thanks for the thoughtful and helpful explanation, Taylor. That sounds entirely plausible.

12: John Coate (tex) Mon, Jul 23, '90 (11:45) 10 lines

"no sense of community" sounds like a key item.

Certainly we wished out here that pac Bell woudl get their gateway going and take over some of the more headache provoking aspects of this business, but they never looked like they were going to have their fundamental act together despite numerous song and dance routines they trotted out for us.

i think the lack of attention to local detail is really important. Maybe they should have had monthly office parties.

13: Adam Gaffin (adamg) Mon, Jul 23, '90 (13:25) 37 lines

Here's what Richard Koch has to say: He blames the softening of the New England economy - his biggest advertisers were the employers and real-estate companies - but said CitiNet lost several hundred thousand dollars last year gearing up for gateway services. ``They haven't done as well as we expected,'' he said of the gateways, adding that had the economy shown any signs of improving, CitiNet would have stuck it out in Boston.

He said he decided to shut down several months ago, and CitiNet had long stopped processing checks and credit-card accounts from people who wanted to buy its chat and e-mail services.

He said he's staying in the Boston area to do consulting for companies interested in getting into the videotex market, which he compared to Boston drivers at a red light: there's a lot of jockeying for position, but the light hasn't turned green yet.

But Gary Arlen, who puts out a newsletter on videotex, says the demise of CitiNet says more about CitiNet than the industry as a whole. ``CitiNet has not always been one of the most stable businesses. ... It's interesting to see how they have managed to hang on throughout the years on a very fingernail basis.''

Koch's claims of 40,000 users in Boston ``have never been believable''

and its users tended to be people with little disposable income. That's probably why advertisers stopped using CitiNet.

Rusty Williams, general manager of Delphi's Boston service, said he had heard from some advertisers they didn't get any response at all from CitiNet ads.

Williams questioned CitiNet's attempt to sell some of its services for 30 cents a minute through gateways that it was offering for free directly - and that some of those services might not have been worth charging for. ``Somebody was making a strange assessment of (the information's) value," he said.

14: Earl Crabb (esoft) Mon, Jul 23, '90 (15:23) 2 lines

who EVER stopped for a red light in Boston? or have they changed their driving patterns?

15: John Coate (tex) Mon, Jul 23, '90 (17:06) 3 lines

Their whole advertising driven game plan seemed dubious to me. CitiNet had a very pricey booth at the VIA conference. Lotta dough went down the drain on the CitiNet project in general I would imagine.

16: Kathleen Creighton (casey) Mon, Jul 23, '90 (18:47) 1 line

Yeah, sounds like this guy should *be* a "consultant" :-).

17: Taylor Walsh (taylorw) Mon, Jul 23, '90 (19:34) 8 lines

Adam, isn't Citinet going to continue to be the host for information providers available through the New England gateway? Considine was the main technical partner. Or has Nynex put everything on its "file storage" facility? I believe that Newsday, which has run a successful BBS for several years, put a rendition of that onto Citinet computers (in Boston) so that Nynex InfoLook customers could get to their stuff through the gateway.

18: Adam Gaffin (adamg) Tue, Jul 24, '90 (07:18) 12 lines

You're right. Citinet as a gateway IP and service bureau lives on - it's the free dial-in Boston Citinet that died. Here's the deal as I understand it: Boston Citinet was shut down by its parent company, American Citinet, which is selling all of Boston Citinet's assets - i.e., its computers and gateway accounts - to Omaha Citinet, a joint venture between American Citinet and the Omaha World Herald. Omaha will then operate all of the existing IP services through the Nynex gateways (including Newsday - so somebody on Long Island will now have the thrill of being connected to Omaha when he calls what he thinks is his local paper!). I don't think Nynex could take this over even if they wanted to because of the ban on information services.

19: Waaaaaaaaay off topic... (cgodwin) Tue, Jul 24, '90 (10:47) 4 lines

Two questions on Omaha Citinet:
1. What's their phone # ?
2. Does anybody know whether they have a good agriculture discussion there? (Feel free to reply to the latter in email rather than cluttering here.)

#aeddl modified by Susan Coons on 5/16/90
I WOULD THE WILLOW

20: Cliff Figallo (fig) Tue, Jul 24, '90 (10:52) 3 lines

And is the NYNEX gateway at all out of the woods at this point? Or can anyone know that until the announcement that "the test is being discontinued"?

21: Reva Basch (reva) Tue, Jul 24, '90 (11:16) 3 lines

>Omaha Citinet: 402/391-8200 (Voice) or 402/341-4000 (Modem).

22: John Coate (tex) Tue, Jul 24, '90 (11:27) 9 lines

be interesting to see how Omaha does with this..the idea that people will wade through advertising to get a service for free.

My theory is that ads don't wash as well online because the nature of your attention is a lot different that print..when you read a magazine you have more choice in the matter and you can flip around the pages and stuff and sometimes ads have pretty pictures and whatnot. Online your attention is a lot more focused, like tunnel vision, and the whole ball game is differnt because of that.

23: Kathleen Creighton (casey) Tue, Jul 24, '90 (12:44) 3 lines

I'd agree that's probably the case with ads only. Some firms are probably doing pretty well with ads and online ordering on Prodigy, such as Sam Goody (records, CDs and tapes) and Computer Express.

24: Earl Crabb (esoft) Tue, Jul 24, '90 (15:43) 10 lines

Since online services can tell what you're interested in, as opposed to magazines with no feedback mechanism whatever, the advertisements on online services can be narrowed to the point of being interesting to you, i.e., very focused. From what I've seen of Prodigy, they do a little of this, though they could do a lot more.

The cost per reader of an ad on an online service can be much higher because of this selection process, because the only people exposed to the ad have a much higher probability of being interested in the product.

25: Taylor Walsh (taylorw) Tue, Jul 24, '90 (21:40) 12 lines

I'd like to know how much advertising Citinet sold after the RBOCs came calling. Not much, I expect.

I believe this medium will support ads, so long ad advertisers make use of its special attributes and not try to force "pages" into an environment someone once termed "the rolling present." Of course, it's not like that doesn't present some significant educational opportunities to prospective advertisers. But like everyone else, they need to be bought along gently into the medium so that they can experience where its value lies. And see the extend to which they want to become involved, and the involvement of course the message.

26: Earl Crabb (esoft) Wed, Jul 25, '90 (00:00) 5 lines

There is, however, one case in which users are more willing to swallow pages of advertising being forced upon them, that being

if connect time is free. The best example of this is Prodigy, where most (not all, to be sure) users put up with the advertising with the understanding that the ads pay for the connect time.

27: david m. simons (dvc) Thu, Jul 26, '90 (17:11) 29 lines

Prodigy was based upon the same business model as was Venture One (a 1982-3 AT&T/CBS videotex trial in Ridgewood NJ). i.e. 70% of revenue was to come from advertising and "transactions". The original major Prodigy development execs were majors in Venture One.

In a 1983 article in the IIA magazine I observed:

> " Many in the videotex industry forecast 10% penetration by 1990, while at the same time building according to a business model that has commercial viability depending upon advertising revenues which, on a per household basis are 50% greater than those of national network television ($15/mo vs. $10/mo).....Consumers buy the service, not the advertising, and advertisers buy a medium to the extent that consumers use it. If cable TV had attempted to build its basic business on advertising revenue we'd all be back to rabbit ears by now...."

The very first Prodigy signup kits took you through a long questionnaire with which Prodigy collected detailed demographic/lifestyle information which the expected would attract advertisers. No more. As the experience of development of cable tv advertising demonstrated, advertisers are slow to change--and when it comes right down to it, if you don't have the raw audience size, demographics, no matter how detailed, don't matter.

Hence Prodigy's focus has been on signing up raw numbers. And, they're still not within sighting distance of the 70% model. I predict that before too long, Prodigy will raise subscription prices and, perhaps, add surcharges for various services (e.g. messaging).

28: Kathleen Creighton (casey) Thu, Jul 26, '90 (17:15) 3 lines

The Prodigy service agreement contained a statement two years ago that they might charge for other services such as email. And there is a rumor going around that Prodigy will raise its rates to 12.95/month on 9/30.

29: Tom Mandel (mandel) Fri, Jul 27, '90 (13:08) 10 lines

Prodigy revenue concepts seem based on the way print magazines work, and I don't think, the way the service is currently designed, there's a chance in hell that they can get that fraction of revenues from ads and transactions. I hadn't heard the rumor that Kathleen mentions, but it makes great sense.

I have never seen a company do so much market research before launching its product or service. Prodigy must have purchased every major consumer database service in the country before it got going...

30: Earl Crabb (esoft) Fri, Jul 27, '90 (18:12) 7 lines

When the Mac version was announced I got 8 mailers in a single day...yes, they must have bought some lists...especially since I didn't have a Mac at the time.

I have heard the rumor, and know that a bunch of journalists were up in their area for some undisclosed purpose a week or so ago, so i'd guess something is about to be announced soon.

32: Brian Lawrence Dear (whofan) Sat, Jul 28, '90 (09:21) 7 lines

On RelayNet, they're talking about the new upgrades to Prodigy... it'll support 640x350 EGA, 640x480 VGA, mouse, autologin, lots of other goodies like a re-written installation procedure allowing installation on any disk drive, etc.

34: David Alan Feustel (feustel) Sat, Jul 28, '90 (17:03) 2 lines

Does anyone know whether there are email addresses for congresspeople and newspapers like the NY TIMES, etc?

35: Adam Gaffin (adamg) Tue, Jul 31, '90 (14:17) 9 lines

Would you believe the Middlesex News in Framingham, Mass? The Houston Chronicle has one as well.

AP is reporting that the American Medical Association is getting out of the on-line business too, because it lost $4.2 million on AMANet last year. Although it got 40,000 doctors to sign up, only about a third of them used the service, which included a medical database, on any regular basis. The other two-thirds never logged on at all, according to AP.

36: Cliff Godwin Jr. (cgodwin) Fri, Aug 3, '90 (18:32) 4 lines

> email to congresspeople...

David, email to congress was discussed is a prolonged topic drift in Tele 662, starting at response 126.

38: John Nagle (nagle) Sat, Aug 4, '90 (07:45) 9 lines

Prodigy can't last. $1,000,000,000 spent so far, and only 100,000 users. That's $10,000 per user. If you take the advertising revenue as being comparable to network TV ($10/month/subscriber), and include the new higher subscription fee discussed above ($12.50), it will take about 40 years before Prodigy pays back its startup expenses.

By comparison, when Edison built his first central power station, on Pearl Street in Manhattan, the projected payback period was 9 months. In fact, it took under two years.

39: Taylor Walsh (taylorw) Sat, Aug 4, '90 (11:13) 8 lines

But reports are that Prodigy is ready to announce its national rollout this fall. With the PS/1 (modem-equipped and Prodigy ready) also due for fall/Xmas marketing madness...it sounds like they're willing to prolong the suffering.

Industry reports also say that Prodigy is looking hard at international markets. I've often wondered what IBM and SEARS shareholders are told about this venture, if anything.

40: Tom Mandel (mandel) Sat, Aug 4, '90 (11:35) 4 lines

John, how do you come up with the $1 billion investment figure? I've heard $600 million or so frequently mentioned but I've never been able to determine the real basis for such an amount.

41: Kathleen Creighton (casey) Sat, Aug 4, '90 (11:43) 2 lines

$800 million is their own latest figure I think. By the time you're talking about $800 mil, you might as well be talking about a billion.

43: Griff Wigley (gwigley) Sat, Aug 4, '90 (19:22) 3 lines

They had 1,100 people on staff a year before they opened their doors.. tis the rumor I heard.

44: Earl Crabb (esoft) Sat, Aug 4, '90 (19:35) 1 line

that $600m was their number about three or four years ago, as I recall.

45: Leo L. Schwab (ewhac) Mon, Aug 6, '90 (12:11) 5 lines

Even if you paid those 1100 people $100K per year each, that's still only $110M. Assume this has gone on for 3 years, that's $330M. So where'd the other $300-500M go?

// /

Boston CitiNet[sm]

User Reference Card

Boston CitiNet–New England's Free Videotex Service

CitiNet Computer Line: 617-439-5699

BOSTON CITINET[sm]

How to Access Boston CitiNet

Setup Parameters:

- 300 or 1200 baud
- 7 data bits, mark parity or 8 data bits, no parity
- 1 stop bit
- Full duplex
- Bell 103/212A or compatible
- No echo

Dial-up Line

1. Call CitiNet at **617-439-5699.**
2. Once you receive a connect or "online" signal, press the return key several times.
3. CitiNet will ask you to select a user name and password for future sessions. *Record your name and password on this card for future reference!*

User Name: _____

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4. CitiNet will ask you a series of questions about your computer/terminal characteristics.
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6. If you have any problems gaining access, call 617-439-5678.

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[T]op Takes you to the main menu.

[B]ack Takes you back one menu.

[H]elp Gives you helpful information if you get stuck.

[E]xit Exits you from CitiNet.

See INFO for advanced commands.

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The World Trade Center Boston
Suite 717
Boston, MA 02210
617-439-5699

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You're going to want to be on-line with us for a lot of reasons.

Here are just three.

1. We're Seasoned Pros.

We're American CitiNet and we've been in the Videotex business for over five years. We know the markets and we have the market shares – in cities like Boston, New York, Washington D.C., Philadelphia, Burlington and Omaha.

2. We Have the Most Advanced Protocols.

Our subscribers are a diverse group, which is why we offer not one, but three protocols: ASCII, TELETEL and even NAPLPS high resolution graphics.

3. We'll Make You an Offer You Can't Refuse.

Become an ASCII Information/Service Provider with American CitiNet and we'll foot the bill. We'll provide you with software. We'll waive your start-up costs. We'll even have a CitiNet representative assist you in getting started. You do what you do best – provide your service or information on American CitiNet. You don't pay anything until your program starts making money.

So before you shell out a lot of money with some new start-up, talk to American CitiNet. We'll put you on. On-line that is.

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Thomas A. Pfau
Director of Operations

World Trade Center, Suite 717
Boston, MA 02210

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User Name: INEMCIK

Password: SLUGGY

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So before you shell out a lot of money with some new start-up, talk to American CitiNet. We'll put you on. On-line that is.

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By signing and returning this card, I agree to abide by the policies established by CitiNet.

NAME _____ USERNAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

SIGNATURE _____ DATE _____

Thank you for registering on CitiNet.

Registering entitles you to send electronic mail and participate in on-line forums.

Registration is FREE! However we will revoke privileges from any user who violates generally accepted standards of public behavior when using CitiNet.

We need to confirm that the user information you provided is correct. This information will be kept confidential; your identity won't be revealed to other users unless you choose to do so yourself.

Please fill out the attached card and mail it back to us if you want to become a registered user.

PLACE STAMP HERE

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World Trade Center
Boston, MA 02210

SOME OF THE APPLICATIONS AMERICAN CITINET HAS HOSTED

Weather

Personals

Conferencing

Sports Updates

Direct Catalog Ordering

College Course Listings

Foreign Language Forums

County Registry of Deeds

Radio Station Guides & Surveys

Real Estate Listings

Home Repair Project
Of The Week

Public Television Programming
Guide

A SAMPLING OF AMERICAN CITINET INFORMATION PROVIDERS

Cabot Farmer's Cooperative Creamery

Cineman Syndicate

The Coffee Connection

800 Spirits

Events On-Line

Hollywood Hotline

Gimmee Jimmy's Cookies

Leighton Hill Music

RealNet

The Writing Edge

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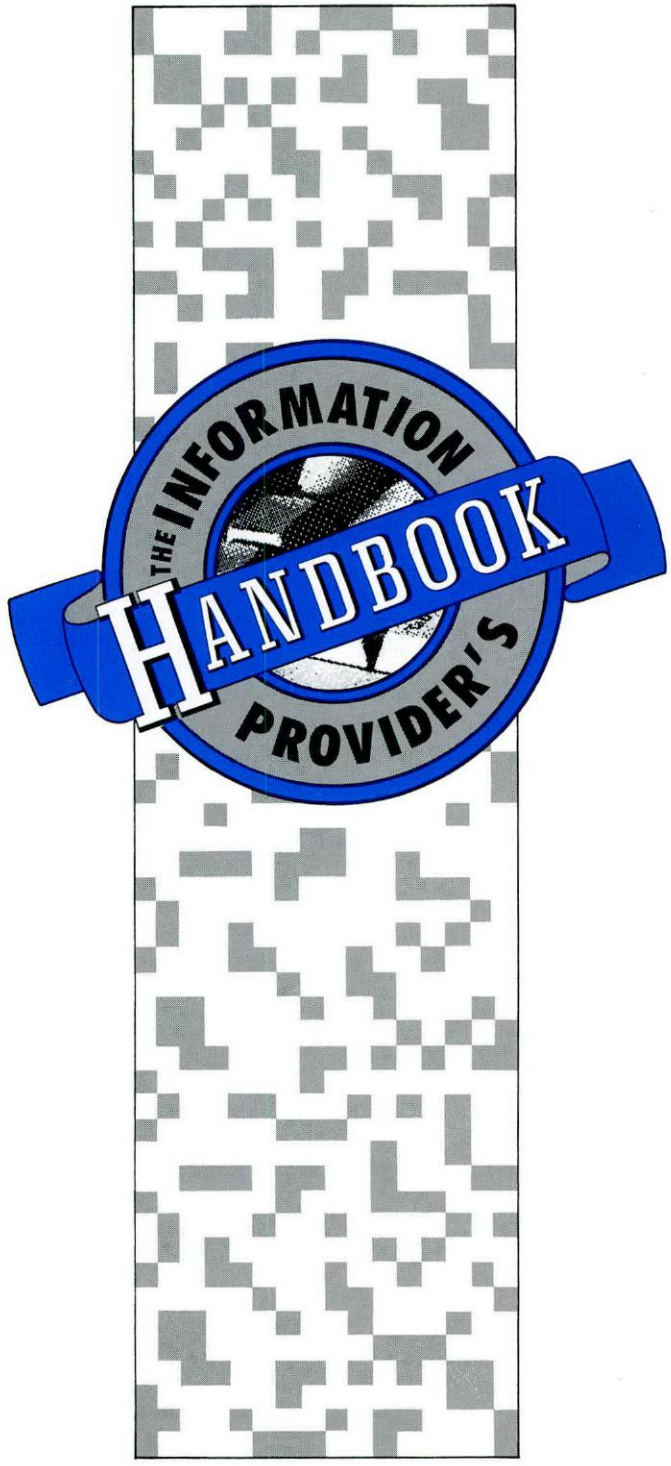


Videotex is an electronic service that links consumers and businesses to a variety of resources. Through a personal computer or a simple terminal and a modem, a user can obtain various types of information, conduct daily financial transactions, purchase goods and services, seek advice and interact with other users. In cities throughout the United States, hundreds of thousands of individuals access information gateways, service bureaus and bulletin boards, which makes this exciting, new medium of videotex what it is today.

WHAT IS AN IP?

An Information Provider is any organization or individual that creates the content that contributes to videotex services.

They include:

- Retailers
- Non-Profit Organizations
- Local Businesses (Car Dealers, Restaurants, Real Estate)
- Financial Service Institutions
- Publishers
- Medical/Health Providers
- Entertainment/Recreation
- Educational Institutions
- Entrepreneurs
- Professional Service Firms
- Travel
- Government
- Community Services

WHY BECOME AN IP?

Becoming an Information Provider enables you to be more productive, competitive and profitable in your field. Whether you're selling a product or service, or publicizing local events or news, being on-line as an IP allows you to create new business opportunities, expand your geographical reach and gain strategic advantages over your competitors. But most importantly, it provides you the opportunity to make money.

If you have:

- A product or service to promote
- A catalog of products
- Course schedules to post
- Meetings to announce
- Jobs to fill
- Surveys to conduct
- Events to publicize
- Advice to give
- A topic to discuss

then you're an IP waiting to happen.

WHAT DOES IT COST TO BECOME AN IP?

There are a number of videotex service operators throughout the United States. Many charge for initial set-up and monthly maintenance and may take a percentage of your sales revenues. At American CitiNet we don't work that way. For a limited time, become an ASCII Information Provider with us and we'll foot the bill. We'll provide the software. We'll waive any set-up or maintenance costs. We'll even have a CitiNet representative assist you in getting started. You do what you do best – provide your service or information on American CitiNet.

HOW SOON WILL YOU START MAKING MONEY?

As soon as your information or service appears on the system and someone accesses it, your service begins to generate revenue. We will share with you the revenue generated.

HOW CAN YOU BECOME AN IP?

It's easy. Just pick up the phone and call American CitiNet. We'll put you on... on-line that is.

For more information on how American CitiNet can help you become an Information Provider, call us at (617) 439-5678.

AMERICAN CITINET

THE KEYS TO AMERICA'S CITIES

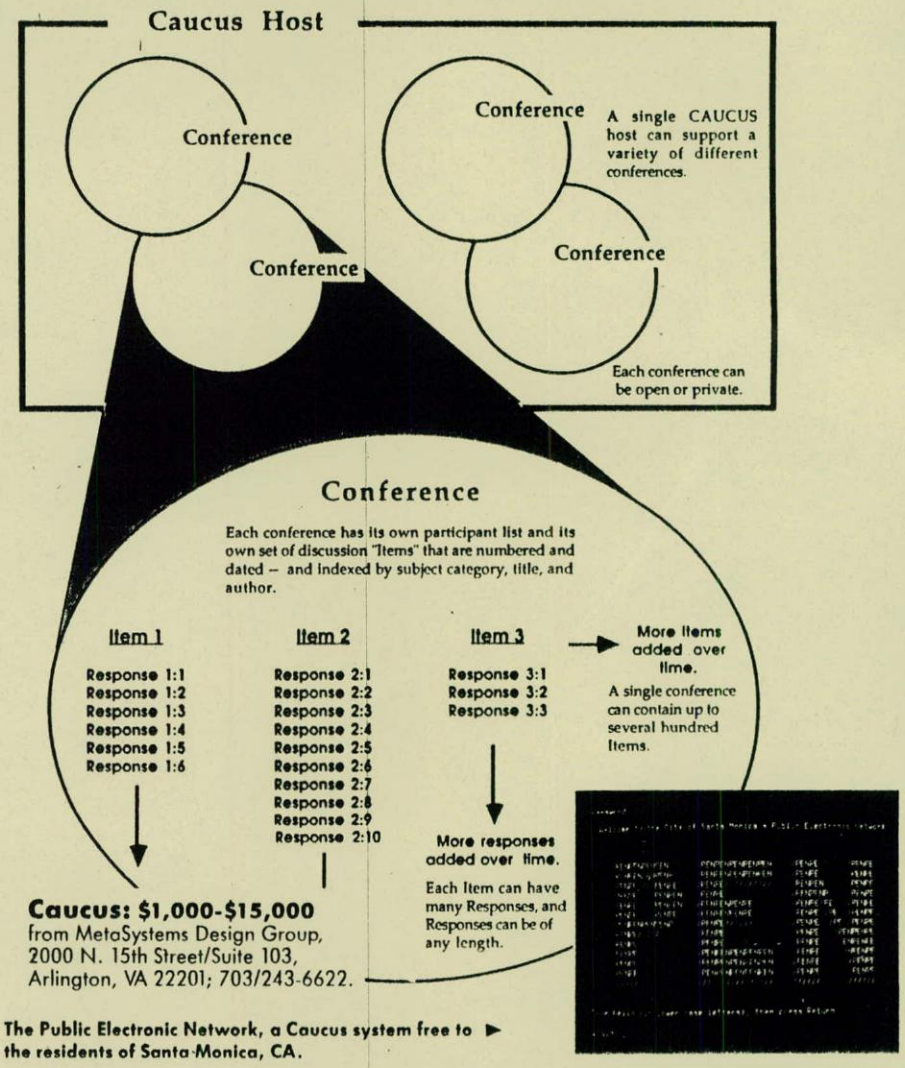
Caucus

The most accessible leap yet into starting your own computer-based conferencing system. For $5,000 you can buy all the computers, software, and modems you need for four people to call in and use it at once — a price that includes an IBM AT clone, SCO Xenix (the "operating system"), and this program. Caucus runs on a dozen different types and sizes of computers; if your finances rise, you can graduate to a $25,000 workstation or mini-mainframe setup that lets ten people use it at once. You can move your conferences, without losing a word, directly into the new computer.

The structure and commands are similar to those of the WELL — within a conference you can enter "items," or add to a chain of "responses" to each item — but it's much more tailor-able than the WELL. You can compose your own dictionaries of prompts so that users can view your metaphorical meeting ground in its regular version ("And Now?"), surly computerese ("Yeah?"), French ("Et bien?"), or any other language.

I should point out that the purveyors of Caucus — MetaSystems Design Group — are friends of mine, but so are most computer conferencing software purveyors. Where I teach, at New York University, we chose Caucus for a burgeoning conference system, and we have not been disappointed. Already, the new connections between formerly isolated departments are beginning to change the school, for the better. Other institutions are adopting it too; most recently, the city of Santa Monica, California, is reshaping some of its city government around a public-access Caucus system. —Art Kleiner

The Structure of Caucus™



Caucus: $1,000-$15,000
from MetaSystems Design Group,
2000 N. 15th Street/Suite 103,
Arlington, VA 22201; 703/243-6622.

The Public Electronic Network, a Caucus system free to the residents of Santa Monica, CA. ►

Paradox 2

Lou Farina, a friend of a friend, is burly and streetwise, owns a gas station in Astoria, New York, and has a half-dozen mechanics working for him. In other words, he's not a man you'd want to cross. He needed a database built on his IBM compatible — a simple job, to keep track of his customers and invoices. Could I handle it? Sure, I said blithely, how hard could it be to figure out? Only after I took his money did I see what I'd gotten myself into.

Using Paradox 2 saved me from having to leave town. Like its competitors — dBase III, RBase, Oracle — it's a tool for making your own databases and customizing menus and procedures for guiding people effectively and unambiguously through the facts in those databases. Paradox is generally considered — most recently by ***Personal Computing*** *— as the most welcoming of its peers without sacrificing depth.*

One savvy programmer on CompuServe said that he could put together something in 50 hours that would take 200 in, say, dBase. I believe him.

As with HyperCard, using Paradox means starting with simple skills — displaying some facts — and gradually being suckered into full-fledged programming. HyperCard, however, doesn't have the data management capabilities — sorting, sifting, and shuffling hundreds of similar items — that a gas station, for instance, needs in its invoice system.

By now, my database for Lou includes pop-up menus with the names of his mechanics, automatic tax calculation, and an ability to tell instantly, when he enters a licence plate number, whether it belongs to a new customer or someone he's serviced before. Though I had to cross a psychological threshold to create these features — in which I forced myself to learn such esoterica as functions and procedures — I still maintain I'm not a programmer, per se; I'm an information artisan.

To learn Paradox effectively, I recommend an account on CompuServe, where the publisher, Borland, maintains a Forum (and many skilled Paradoxers hang out). Use the Debug tool to test the effects of your scripts, step by step (an aid whose value you won't believe until you try it). I bought several extra books, but Borland's own manuals are far and away the best. I wish all software manuals were as good.

Database programming is not a bad way to earn a living, actually. I've already sold mine to a second gas station, and Lou is scouting around for me for a third. Guess I stayed on his good side after all. . . . —Art Kleiner

Paradox 2: Not copy-protected. For IBM compatibles, 512K. **$495** from Borland Software, 4585 Scotts Valley Drive, Scotts Valley, CA 95066; 800/543-7543.

New Features in Release 2.2 of Caucus$_{tm}$

Menus

With its new menu interface, the full power of Caucus is available to people with no prior experience in using a computer conferencing, bulletin board or electronic mail system. Three different forms of the menus are available -- a complete form that includes an explanation of each option, a shorter form, and a quick Executive Menu. From the main menu, users can choose which form they want to use -- or they can turn off the menus and use the command interface. And, they can return to the menu interface at any time just by entering the word "menu" at the command line prompt. *A unique feature of the menu interface is that any regular Caucus command can be entered at a menu prompt.*

Return Receipts for Messages

You can ask for and receive an automatic notification when a private message has been displayed by the recipient. The automatic "return receipt" includes the date and time the recipient displayed your message and the subject line of the message. With a new SET command, you can specify whether identifying text from your original message will be sent in your return receipts -- and if so, how many lines will be included.

Responses in Reverse Order

LIFO --"last in, first out" -- is a new modifier to the SHOW ITEMS and SHOW RESPONSES commands. When you add the "lifo" modifier to one of these commands, Caucus shows you responses to items in reverse order beginning with the last response entered. This new feature makes it easy for users to catch up with the most recent discussions in a fast-moving conference.

Read-Only Conference Access

With the CUSTOMIZE USERS command, the organizer of a Caucus conference can add "read-only" users to the conference access list. Read-only participants can display items and responses in the conference but they are not allowed to add items or responses of their own. *They do, however, retain full access to their private messages while inside a conference where they have read-only access.*

Who Has Seen A Particular Item

In addition to being able to see a list of all items a particular person has seen, a new command has been added that lets you see a list of all persons who have displayed a particular item -- and how many of the responses to the item each person has seen. You can ask for this list for a particular item *-- or for all items in the conference.*

Invisible Private Conferences

The name of a conference is displayed only to those persons who have access to it. This makes it possible for you to host a variety of private as well as open conferences on your Caucus system while making it clear to individuals which conferences they can join.

Seeing Your Own New Responses

A new SET command has been added that gives you control over when Caucus shows you your own responses. You can use this command to specify that your own responses will be tagged as "new" for you (1) immediately after you enter them, (2) after they have been followed by one or more other new responses, or (3) never. The "never" setting means that you will not see your own responses when you give the SHOW NEW RESPONSES command.

New Text Entry Options

Another new SET command has been added that gives you the capability of going immediately and automatically into your favorite text editor or word processor whenever you enter text into a Caucus item, response, or private message. *You have the choice of using any editor available on your host system.*

Additional Power for Developers

Already known as the most flexible conferencing and bulletin board program available today, a wide variety of new enhancements have been added to Caucus 2.2 to provide system managers and developers with an even more impressive range of tools to use in customizing Caucus for particular applications or groups of users.

Caucus is a Copyright & TM of Camber-Roth. Distributed by Metasystems Design Group, Camber-Roth, and a worldwide network of dealers.

Authorized Caucus Reseller and Applications Developer

Evolutionary Learning Systems
3051 Adeline Street, Suite D, Berkeley, CA 94703
Phone: (415) 548-2343, Fax: (415) 548-2353

Caucus(tm) *On Campus*

- **Computer Bulletin Boards**
- **Computer Conferencing**
- **Electronic Mail**
- **Groupware**

Distance Education

Create and deliver credit and non-credit courses via *Caucus* computer conferencing. Asynchronous conferencing provides an interactive environment where students can access course material and converse with each other as well as with the teacher just by signing on to your host with any personal computer. The *Caucus* interface is friendly (unlike mainframe-based e-mail) which makes it popular with students in all disciplines - not just the ones in computer science! It's not only cheaper than video for distance education, it allows you to create fully indexed online archives of information and material for future use.

Course Enhancement

Caucus computer conferencing provides a supplementary communication vehicle for use between classes. Students can work on team projects even when they live off campus or have conflicting schedules. Students can use the system to report on independent study projects and receive feedback from teachers even when on-campus meetings are not possible. Sub-groups from large classes can use the system to develop a more intimate feeling about the course and work more effectively with teaching assistants. And, of course, you can integrate your use of *Caucus* computer conferencing with video teleconferencing and computer-based instruction as well as classroom sessions.

Outreach

You can involve people off-campus in special projects online. *Caucus* can support professional networks for allumni/ae, research project participants, continuing education, interns, and resources for career and job placement programs. Since *Caucus* allows you to set up private as well as public conference spaces, you can easily keep these conferences separate from online courses and internal business. Participating in a *Caucus* network makes people feel more a part of your community. And, since *Caucus* allows you to establish macro hooks to other applications, you can send and receive mail from external mail systems like BITNET from within your *Caucus* network.

Administration

Corporations have already discovered how interactive communications and "groupware" systems can contribute to internal management. You can use *Caucus* to support inter-departmental planning teams and task forces and to supplement meetings which are difficult to schedule. *Caucus* can be used to develop collaborative reports and provide online access to draft documents in a way which allows a select group or the whole faculty community to comment. Material developed on *Caucus* is easily downloaded for printing or desktop publishing. You can also integrate your *Caucus* system with other applications running on your host and provide your users with access to databases, group authoring programs, and file transfer capabilities.

Caucus is a Trademark of Camber-Roth

Authorized Caucus Reseller and Applications Developer

EVOLUTIONARY LEARNING SYSTEMS
3051 Adeline Street, Suite D, Berkeley, CA 94703
Phone: (415) 548-2343, Fax: (415) 548-2353

CERRITOS PROJECT —

GTE CALIFORNIA

818 707 3911

LOYD CARTER

Michelle Apple (213) 860-0311

5/14/90

Cerritos — size of city = 59,000 LA county.
1.9 Square mile

Comparison of twisted pair, coaxial cable & fiber optics

operational service May 1988. Fiber tests since fall of 1989.

- why was city interested in fiber? → bid for cable 1985 - wanted to provide for future comm. needs. No bids from regular cable ops. all utilities are underground so system is more expensive
- Apollo Cable out of San Luis Obispo
- GTE California out of 1000 oaks. — owns & maintains underground coaxial & Fiber network
- GTE Service Corp out of Stanford interested in Fiber Tests.

rec. to Council to pursue option. → portion leased to GTE.

↑ lease a portion to Apollo for regular cable system

Coax through - empty conduit.
750 homes are in fiber tests - 1500 in fiber. → i

GTE feasibility
- services & technology
- all prototype equipment.

telephone services
interactive services like home banking.

- Future Applications

just starting "Main Street" on Coax rather than fiber.
interactive services via remote control of TV

R & Development $'s to City.
GTE is shaping telecom services - economically & technically.

city would like city portion providing city services on hr. that city hall is not open — housing permits, dog license, reserving space in classes.

PI of office hours / departments & Division for test — unfair advantage to cable. options ? need to setup credit card option?

Main Street — another division: GTE:

Showcase

- why is city interested — "brainstorming mode"

provide informational - other local representatives, city history and facts } on line in fall.

- not slow motion video, series of slides here so its less expensive less expensive pictures & words.
- using TV

testing use.
how much would citizens pay for a service like this.

- what are people actually doing with it

Graphical Mapping: City Manager.

Screen still want to be understand

initial rollout is 100 homes.

Commercial applications — housewares at Sears — 2 items on different tiers —

viewing it primarily as a service to residents.

89-90

- initially no costs for Main Street
- Costs have not been negotiated for post-test
- Did not get studios or equipment for cable.
- Main Street. ∂ no residence.

- Ilona Smith - GTE (805) 372-6790 GTE California
  w/ project since the beginning.

- Fiber: Don Bache - GTE - General Mgr of Test Bed
  (213) 404)-5810 GTE Service Corp.

- Main Street - Diedre Brown - (213) 926-8556.

- Apollo Cablevision - Tom & Charlotte Robak - SLO (805) 541-0544.

- heard from residents - say great things about - No complaints
  You presume there is no complaint every thing going great."

Fibertone - phones over city

if fiber is not feasible -
Costs to every home is the issue.

John Saunders, Director of Internal
Affairs.

MULTIFOCUS

UPDATE ON THE CERRITOS PROJECT

By LINDA HAUGSTED

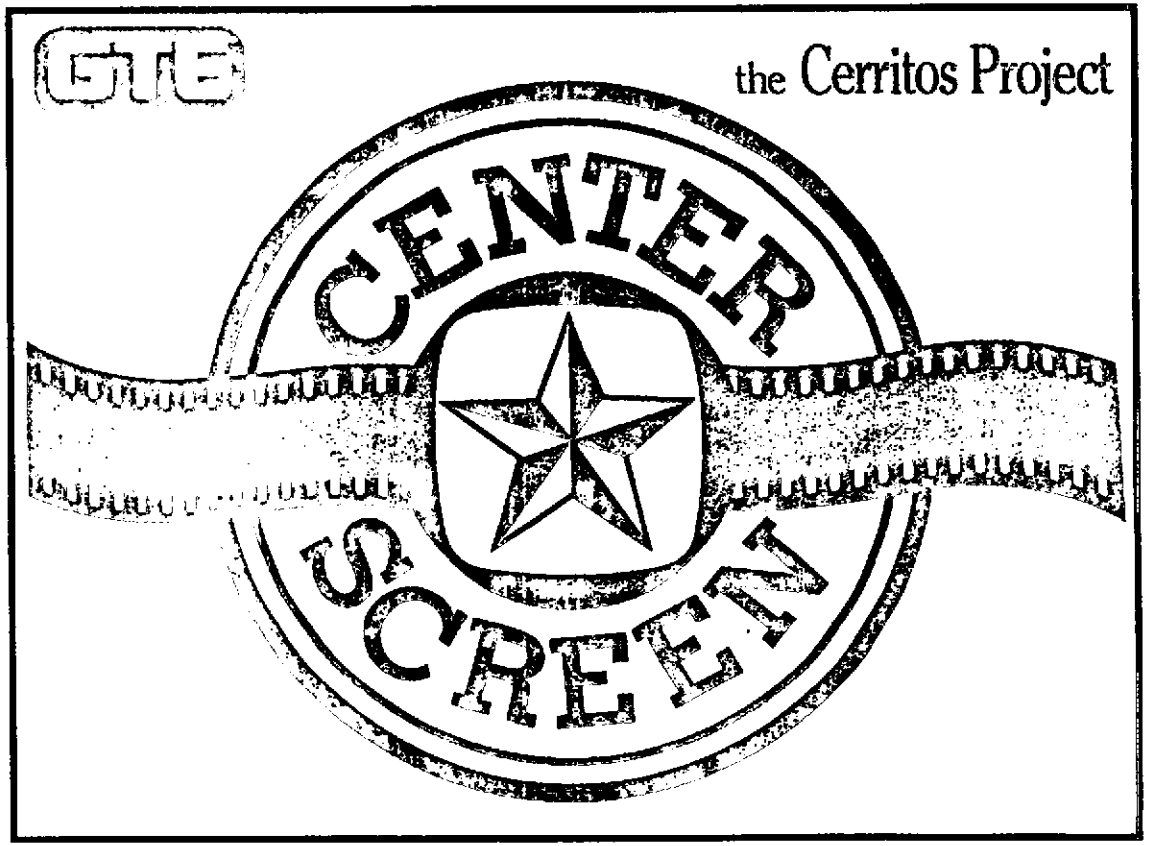
CERRITOS, CA — While the cable and telephone industries duke it out on Capitol Hill over legislation to let the utilities into the cable business, telco's biggest cable experiment to date, in Cerritos, has quietly completed its build and the promised bells and whistles are beginning to sound, although on a limited basis.

The 550 MHz coaxial system, built by GTE California Inc. (GTECA) and leased back for operation by Apollo Cablevision, has capacity for 78 channels.

Apollo is using half of the bandwidth to provide basic and pay cable in this upscale Los Angeles County community. The other half is split for use by GTECA and its lessee, the GTE Service Corp., (GTESC) for testing cable, data and video service delivery.

The tests will compare the quality of twisted-pair, coaxial cable and fiber optics.

GTE has established three test areas in the northeast end of the city.



test bed totals just over 2,400 miles. The third area will be a control group, not served by fiber optics.

The most eagerly awaited tests via coax, such as that of GTE Main Street, an interactive video service, will not be tested in the community until June or later, according to

full-scale roll out with promotional support on July 1, when it will increase Center Screen's delivery to 28 channels.

Center Screen is currently delivered on nine of GTESC's channels, giving the operation the ability to deliver 300 PPV events each day via coaxial

two technologies side-by-side to prevent inconvenience or disruption to customers while changing out the S-A boxes. GTECA expects to complete the conversion.

Though these converters will give two-way capability to consumers, the utility noted in a

The pay-per-view service, dubbed Center Screen, was launched on Jan. 4 on a limited basis to 232 homes.

year, two of the then-39 FiberTone customers called to report outages, the company said, adding that one was determined to be the fault of the customer, who cut power to the Optical Network Interface and killed his back-up batteries while working on his home. The other outage was caused by GTE equipment that was damaged on installation and failed during use.

Other fiber tests include attempting to integrate voice, data and video. This test will involve 50 homes in Area 2 and is currently scheduled for August. A point-to-point switched-video-services test that will include video telephone, video-on-demand, digitized

GTECA and its lessee, the GTE Service Corp., (GTESC) for testing cable, data and video service delivery.

The tests will compare the quality of twisted-pair, coaxial cable and fiber optics.

GTE has established three test areas in the northeast end of the city. Erik Phelps, customer demonstration center administrator for GTECA, said the areas were picked because of their proximity to a large GTE service center adjacent to Cerritos in the city of Santa Fe Springs and not because of the demographics or technical sophistication of the residents.

The 550 MHz coaxial system, built by GTE California Inc. and leased back for operation by Apollo Cablevision, has capacity for 78 channels.

Test Area 1 is designed to test installation of fiber to the home using a star topology. In Area 2, the star layout will also be tested, but other topologies — such as a ring, mesh and fiber-to-the curb — can also be tested here when the company can show that the equipment it develops or acquires can support voice, video and data. Fiber installation in the test bed totals just over 2,400 miles. The third area will be a control group, not served by fiber optics.

The most eagerly awaited tests via coax, such as that of GTE Main Street, an interactive video service, will not be tested in the community until June or later, according to GTE officials. This service most likely will include danger awareness guides, a library catalog and electronic encyclopedia,airline reservations access and financial services. The utility reports that the city has put first priority on the development of city directory types of information.

But while that and other tests are being developed, the system is already offering what it terms near-video-on-demand, and telephone dial-tone via fiber, known as *FiberTone*.

The pay-per-view service, dubbed *Center Screen*, was launched on Jan. 4 on a limited basis to 232 homes. It is now available to 2,500 to 2,900 of Apollo's 7,300 subscribers. The utility hopes for a full-scale roll out with promotional support on July 1, when it will increase Center Screen's delivery to 28 channels.

Center Screen is currently delivered on nine of GTESC's channels, giving the operation the ability to deliver 300 PPV events each day via coaxial cable. Another channel delivers instructions on how to operate and order the specially designed Oak Industries Inc. addressable converter, one is a preview channel and third channel constantly monitors the status of the coaxial network. The other six telephone company-controlled channels are reserved for future use.

The company calls the PPV service near-video-on-demand, because films and specials are available on multiple channels with start times staggered by only 15 to 30 minutes.

Complete roll-out of the service has apparently been slowed by a change-out of equipment. Apollo's original head-end was supplied by Scientific-Atlanta. But last year, the system installed a custom-designed Oak headend that will interface with the set-top converters equipped with the Telephone Interface Module needed for impulse ordering. The system has been operating with the two technologies side-by-side to prevent inconvenience or disruption to customers while changing out the S-A boxes. GTECA expects to complete the conversion.

Though these converters will give two-way capability to consumers, the utility noted in a quarterly report on the project to the FCC that it does not anticipate a two-way institutional network in the city "in the near term." It cites increased signal distortion on the upstream channels and development delays by Oak in its RF module.

GTE officials said they were pleased with the take rates on the yet-to-be-promoted PPV service, but added that they consider the sales figures proprietary and not for publication.

Rights for motion picture titles and other programming for Center Screen are currently being acquired and packaged for the utility by McDermott and Associates of Hollywood on a day-and-date basis with other PPV services.

FiberTone is available on a much more-limited basis. By the end of 1989, fiber passed 906 homes. GTE officials said 62 homes have gone on line with FiberTone since October, using 72 lines. From roll-out to the end of the

Other fiber tests include attempting to integrate voice, data and video. This test will involve 50 homes in Area 2 and is currently scheduled for August. A point-to-point switched-video-services test that will include video telephone, video-on-demand, digitized cable TV signals and digital voice and data services, will be tested in four homes in the third quarter.

One test that GTE apparently won't be scheduling in its coax bed is phone service via cable. GTE's report updating the Cerritos project said preliminary tests on such a delivery system were done at GTESC's offices in Stamford, CT, on a coaxial interoffice local area network. GTE reports that the test was successful, proving that two-way voice communications over traditional broadband cable networks without interference is possible.

However, the report added that the test was not extensive enough to prove that this mode of delivery is viable on a commercial basis. Because the manufacturer used in the test no longer produces the equipment in the test and because of the limited two-way capabilities in Cerritos, GTESC plans no further testing of coax dial tone, the company said.■

819 Pacific Avenue, Suite 2, Santa Cruz, CA 95060 408/427-0808 FAX 408/427-0115

HANDSNET™
THE CONTINUING SPIRIT

February 20, 1990

Evelyn Pine
Community Memory
2617 San Pablo Ave.
Berkeley, CA 94702

Dear Ms. Pine:

Thank you for your interest in HandsNet's growing information and communications network. Enclosed are materials to acquaint you with the network.

HandsNet offers members efficient, economical communications through electronic mail, plus convenient access to a library of pertinent up-to-date information. The network links you with a diverse group of organizations, working on a broad range of human service issues. There are currently over 600 subscribing organizations in 44 states, with new agencies coming online each week.

Most personal computers will connect you to HandsNet. We offer Macintosh and MS-DOS compatibility. The hardware requirements and fees are listed on the enclosed subscription order form. HandsNet is easy to use and quite affordable.

Please contact us if you have questions. Our new address is 819 Pacific Ave., Suite 2, Santa Cruz, CA 95060.

We hope to see you online!

Sincerely,

Mary Ross

Mary Ross
Subscriptions Manager

Enclosures

Who's on HandsNet?

NATIONAL ORGANIZATIONS

Catholic Charities USA
Center for Law & Social Policy
Center on Social Welfare Policy & Law
Coalition on Human Needs
Habitat for Humanity
Housing Assistance Council
Low Income Housing Information Service
National Council of State Housing Agencies
National Alliance to End Homelessness
National Center for Youth Law
National Coalition for the Homeless
National Council of La Raza
National Health Law
National Housing Law Project
National Puerto Rican Coalition, Inc.
Project Vote
Support Centers of America
Center for Community Change
Center on Budget & Policy Priorities
Children's Defense Fund
Food Research & Action Center
Homelessness Information Exchange
Interfaith Action for Economic Justice
National Clearinghouse for Legal Services
National Economic Development & Law Center
National Center for Youth Law
National Center of Immigration Rights
National Community Action Foundation
National Health Care Campaign
National Housing Institute
National Neighborhood Coalition
National Senior Citizens Law Center
Second Harvest Food Bank Network
US Catholic Conference

STATEWIDE ORGANIZATIONS

Alabama Coalition Against Hunger
Arizona Community Action Association
California Conference of Mental Health Directors
California Indian Legal Services
Cal/Neva Community Action Association
California Homeless Coalition
Federation of Appalachian Housing Enterprises
Florida Community Action Association
Food Bank of Iowa
Illinois Statewide Housing Action Coalition
Kentucky Task Force on Hunger
Maryland Citizen Action Coalition
Massachusetts Coalition for the Homeless
Massachusetts Law Reform Institute
Michigan Housing Coalition
Mississippi Housing Coalition
Missouri ACORN
Nevada Legal Services
North Carolina Housing Finance Agency
New York Rural Housing Coalition
New York State Tenant & Neighborhood Coalition
Ohio Coalition for the Homeless
Pennsylvania Coalition on Food & Nutrition
Pennsylvania Housing Finance Agency
Texas Assoc. of Community Action Agencies
Texas Housing Agency
Texas Rural Legal Aid
Vermont Foodbank
Washington Assn. for Comm. Economic. Dev.
Washington State Governors Task Force on Hunger
West Virginia Coalition for the Homeless
Arkansas Legal Services
Association of Arizona Food Banks
California Emergency Shelter Program
California Rural Legal Assistance Foundation
California Coalition for Rural Housing Project
Colorado Coalition for the Homeless
Federation of Southern Cooperatives
Florida Low Income Housing Coalition
Illinois Community Action Agency
Iowa Citizens for Community Improvement
Maine State Housing Authority
Maryland Food Committee
Massachusetts Tenants Organization
Michigan Community Action Agency Assoc.
Minnesota Housing Partnership
Mississippi Human Services
New Jersey Right to Housing
North Carolina Housing Coalition
Nutrition Consortium of New York State
New York State Coalition for the Homeless
Ohio CDC Association
Ohio Housing Coalition, Inc.
Pennsylvania Low Income Housing Coalition
Rural California Housing Corporation
Texas Development Institute
Texas Legal Services Center
United Connecticut Action for Neighborhoods
Virginia Legal Aid Society
Washington Coalition for the Homeless
Wisconsin Nutrition Project
West Virginia Comm. Action Directors' Assoc.

...and, more than 350
community-based organizations in 42 states.

Join your colleagues, subscribe to HandsNet!

HandsNet's dynamic library of online information is updated daily. Coverage is regularly expanded to include new topics.

Alerts!

Urgent notices and calls for action on public policy and state and federal legislation.

Calendar

Notices of conferences, trainings and other events. Listings often include forms for online registration or enrollment.

Public Policy

News and analysis of federal, state and local legislation and budget actions on hunger, homeless, housing, community development, health and related issues.

Open Forum

An opportunity to raise topics for discussion, exchange ideas, ask questions and receive suggestions and solutions from the diverse network of HandsNet subscribers.

News & Blues

Daily summaries from national newspapers and the wire services on a broad range of human service issues. Thousands of archived articles are available for online keyword search.

Resources

Notices of available funding and donated goods and services, excerpts from the Federal Register, job announcements, assistance and literature offered by national support organizations.

Housing & Cmty Devel.

Information on housing trust funds, Community Development Block Grants, community reinvestment and credit, assisted housing preservation, economic development and rural housing.

Legal Services

Updates on case law, statutes, federal and state regulations, model briefs and pleadings, legal reference materials, law office automation and management information.

Hunger & Poverty

Hunger action tools, abstracts of nutrition and poverty-related studies, updates on Food Stamps, WIC and other nutrition programs, notices of surplus food to share.

Homeless

Coverage of the Stewart B. McKinney Act, homeless studies and directories, sample shelter forms, policies and procedures, and descriptions of model programs.

Using HandsNet

Tools for the most effective and cost-efficient use of the network, a state-by-state directory of HandsNet subscribers, technical assistance and training.

In addition, using HandsNet's electronic mail system, you can send and receive confidential correspondence and exchange data files or graphics — in a matter of minutes! You can also create a personalized address book and group mailing lists.

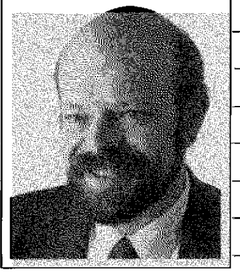
303 Potrero Street, Suite 54 • Santa Cruz, CA 95060 • 408/427-0808

"HandsNet provides two-way communications between our office and those working in the field. It's invaluable to our work as advocates."

— Michele Tingling-Clemmons, Senior Field Organizer, Food Research & Action Center

"Timely communication is key to my work. HandsNet is fast, inexpensive, easy to use and offers the confidentiality my work requires."

— Gary Blasi, Legal Aid Attorney; President, National Coalition for the Homeless



Two-way communications

"HandsNet connects people and organizations, not just computers. It has saved us money and increased our effectiveness and decision-making ability."

— Catherine Camp, Executive Director, CA Conference of Local Mental Health Directors

Special features of the software make accessing the library of information quick and easy! *New Since* calls your attention to items added since you were last online. *Table of Contents* guides you through the information areas. And, *Keyword Search* turns the entire HandsNet Forum and its archives into a searchable data base. We all know that ***"It's made my work more enjoyable and efficient."*** information is power. HandsNet improves your access to information and resources. Better communication means better informed, more effective decision making.

"HandsNet is an electronic conference. It provides me with timely information from experts, along with the opportunity to communicate with colleagues doing similar work."

— Reverend Eugene Boutilier, Emergency Issues Manager, Los Angeles United Way

"Through HandsNet, information and resources are more accessible to smaller, rural programs. We're less isolated and better informed."

—Alice Paris, Institute Director, Federation of Southern Cooperatives

"Much of what we do is share information. HandsNet gets our information to you before it becomes stale."

— Barry Zigas, Executive Secretary, Low Income Housing Information Service

HandsNet is an effective tool to improve the way people and organizations work together. National research centers and advocate organizations provide the network with news and analysis of federal budget, public policy and administrative actions. Your organization can establish a public or private information area on HandsNet.

Contact us for more details.

Subscribe to HandsNet today!

AN EXCITING NEW INFORMATION AND COMMUNICATIONS NETWORK

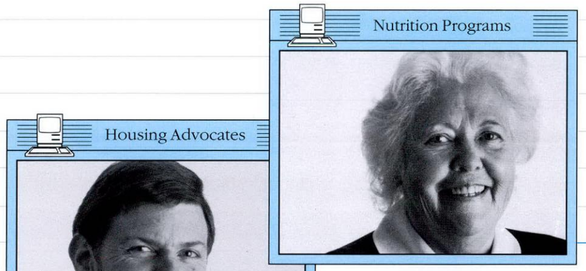
HANDSNET™
THE CONTINUING SPIRIT

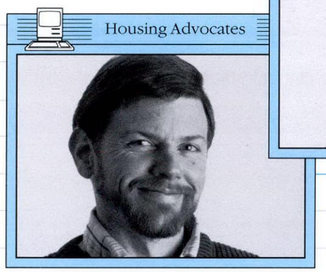
HANDSNET™ is an exciting new communications tool offering timely access to relevant news, resources and information on a broad range of human service issues. Using HandsNet, you can also communicate directly with others working in your field. HandsNet summarizes articles from major newspapers and wire services, and carries public policy analysis, poverty statistics, abstracts of key studies and reports, and information on available resources and services. When you need specific information, you can request it through HandsNet's *Open Forum* and receive a quick answer from the diverse community of HandsNet members. HandsNet is easy to use, thanks to simple graphic-based software which works almost identically on Macintosh and IBM-compatible PCs. In a short time, using HandsNet becomes second nature. The network's electronic mail service will save you time and money by eliminating the frustration of "telephone tag," costly overnight mail services and long-distance phone charges. Our subscribers say that HandsNet more than pays for itself.

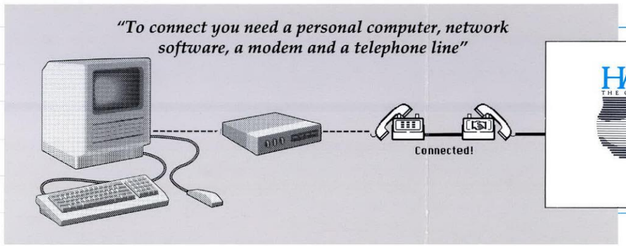
"New subscribers come online each week."

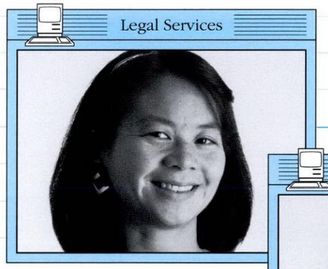
"The extraordinary power of telecommunications lies in its ability to improve the way people communicate and work together. This new technology challenges the way information has traditionally flowed. With HandsNet, everyone's a player."

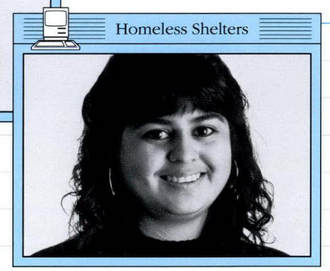
— Sam Karp, Executive Officer, HandsNet, Inc.

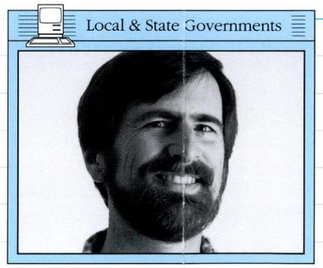












"You can communicate directly with your colleagues on HandsNet."

HandsNet's dynamic library of online information is updated daily. Coverage is continually expanded to include new topics.

Alerts! Urgent notices and calls for action on public policy and state and federal legislation.

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Using HandsNet's electronic mail system, you can send and receive confidential correspondence and exchange data files or graphics — in a matter of minutes! You can also create a personalized address book and group mailing lists.

HandsNet is supported by grants from Apple Computer, Inc., the State of California, USA for Africa/Hands Across America and the MAZON Foundation.

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An Exciting New Information & Communications Network

☐ YES, *I want to subscribe to HandsNet!*

Introductory Offer includes network software, the first month's subscription and 1 hour of free on-line time. After the first month, I can elect to be billed $25 monthly or prepay $270 now for an annual subscription, a 10% discount off the regular monthly subscription price. Enclosed is my check or purchase order for:

Macintosh Version	$100	$ _____
MS-DOS Version	$100	$ _____
Annual Subscription	$270	$ _____
	TOTAL	$ _____

NAME _____ TITLE _____

ORGANIZATION _____

ADDRESS _____ CITY _____

STATE _____ ZIP _____ TELEPHONE ( ) _____

ORGANIZATIONAL PURPOSE _____

AUTHORIZED SIGNATURE _____ DATE _____

Hardware Requirements & On-line Access Charges

Macintosh Version requires a Macintosh with at least 1 megabyte RAM; an additional 800K external drive or hard disk drive; System 6.0; Finder 6.1 or higher; a 1200- or 2400-bps Hayes-compatible modem.

MS-DOS version requires an IBM PC®, XT, AT, 386, PS/2, or 100% compatible computer; a CGA, VGA, EGA or Hercules-compatible graphics card; a hard-disk drive; MS-DOS 3.1 or greater; and a 1200- or 2400-bps Hayes-compatible modem. A mouse is *strongly* recommended.

The **CONNECT Business Information Network**, our host system, bills subscribers directly for their low-cost on-line access charges. These charges are billed at $10 per hour for network connect time from 7 am to 7 pm, Monday through Friday and $5 an hour 7 pm to 7 am on business days and all day on weekends and holidays. Data transfer is billed at 3¢ per 1000 characters during peak hours and 2¢ during off-peak hours.

Ask about our discount program for multiple subscriptions within an organization. Prices subject to change.

Send completed subscription form and payment to: HandsNet, Inc.
819 Pacific Avenue, Suite 2, Santa Cruz, CA 95060 408/427-0808

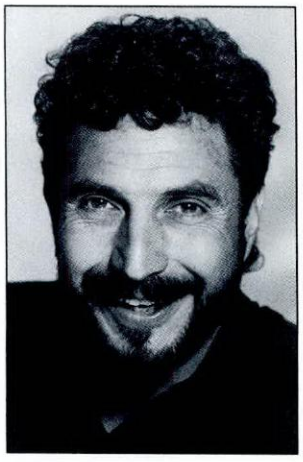
HANDSNET™
THE CONTINUING SPIRIT

Connections

Volume 1 • No. 1 — Fall/Winter 1989-90

Susan Dormanen, Editor

Improve Your Connections



Sam Karp
HandsNet Executive Officer

In August, HandsNet reached another milestone in its development with the addition of our 400th subscriber. An increased subscriber base means more effective use of HandsNet as a vehicle for sharing views, connecting with colleagues doing similar work, and gaining access to timely and relevant information.

While our initial focus was on hunger and homeless issues, we have gradually broadened that focus to include housing and community development, legal services, and welfare reform. During the coming year we plan to expand coverage on health and mental health concerns, children's issues, rural issues, nonprofit management, and voter participation.

HandsNet remains committed to using telecommunications technology to provide more equitable access to information and resources, and to develop cooperative working relationships among human service organizations. The building of community remains one of our highest priorities.

HandsNet's success in improving the way organizations work together has exceeded our expectations. We are excited about its potential to serve a broad constituency working on social justice issues. There are now subscribers in 42 states and Canada, including more than 40 national organizations serving as information providers to the network. New agencies continue to join each week.

Our role is to develop and maintain a dynamic and responsive forum that is affordable and easy to use. Feel free to contact us for more information about how HandsNet can help you make better connections.

Who's On HandsNet?

HandsNet subscribers are a diverse group. They include national research centers, direct service providers, local and state government agencies, community action agencies, public policy advocates, legal service programs, nonprofit housing developers, United Way agencies, and grassroots hunger, homeless, community development and health care coalitions.

Subscribers value better communications with their colleagues and new opportunities to communicate with the broader human services community. HandsNet puts them in touch with the "bigger picture" outside their normal focus of work.

Please join us in welcoming some new subscribers, a sample of the nearly 500 organizations now online:

- Health Advocacy Resource Center, Washington D.C.
- City of Los Angeles, Human Services Division
- Texas Legal Services Center
- West Side Community House, Cleveland
- Association of Arizona Food Banks
- Family Life Development Center, Cornell University
- National Center for Youth Law
- Regional Council of Neighborhood Organizations, Philadelphia
- Massachusettes Tenants Organization
- Toledo Fair Housing Center
- United Way of Greater Milwaukee
- Florida Community Action Association
- Legal Services of Eastern Oklahoma
- Minnesota Housing Partnership

You can make the network serve you better by bringing those you work with online. Please notify us of any prospective subscribers you would like us to contact.

Invite HandsNet to Your Next Conference

Tired of playing telephone tag or paying for overnight mail deliveries to your board, committee members or key constituents? HandsNet can increase your organization's effectiveness and productivity through the use of telecommunications.

We are eager to assist you in developing, organizing and supporting specific activities on the network. Conference demonstrations and workshops allow your organization to discuss HandsNet's potential uses and experience the benefits of the network first hand.

If you would like a HandsNet presentation at your next conference, contact: Chris Williams, Network Administrator, 408/427-0808.

NETWORK NEWS

Community Link Joins HandsNet

Community Link, a network of national and local organizations working in the field of community development on behalf of grassroots organizations and low-income people, joined HandsNet in early July, bringing online 85 national and local organizations. The two networks began sharing information in 1988, and soon recognized their mutual goals and subscribers would be best served by joining forces.

A project of the Center for Community Change, Community Link provides expert coverage on housing trust funds, Community Development Block Grants, community reinvestment and credit, assisted housing preservation, economic development, housing policy and rural housing issues in HandsNet's Housing and Community Development forum. In addition to expanded coverage of housing issues by Community Link specialists, the forum provides a framework to develop consensus on current public policy issues.

For more information contact Mary Brooks, Center for Community Change, 570 Shepard St., San Pedro, CA 90731, 213/833-4249.

Legal Services Community Chooses HandsNet for National Network

During a recent national conference in Chicago, representatives from the legal services community announced a nationwide campaign to bring legal aid offices online with HandsNet.

Last summer, the San Francisco-based Public Interest Clearinghouse began coordinating the Legal Services Forum on HandsNet. Since then, more than 90 legal services providers in 18 states have joined the network. The decision to expand HandsNet's Legal Services Forum nationwide represents a major step in linking the nation's poverty lawyers electronically, a long-standing goal of legal services providers.

Members of a national advisory group headed by Professor Donald Trautman of Harvard Law School chose HandsNet after evaluating several other networks. The decision was based on HandsNet's cost-effectiveness, ease-of-use, excellent track record in network administration, and synergy with groups working on poverty-related issues. Those providing legal services to the nation's poor can look forward to enhanced communication, resource sharing, and better access to information as HandsNet subscribers. For more information on the Legal Services Forum, contact David Goldsmith at the Public Interest Clearinghouse, 200 McAllister St., San Francisco, CA 94102, 415/565-4695.

ON-LINE SERVICES

Support Centers of America to Offer On-line Services

The Support Centers of America provide management training, consulting, and information to nonprofits across the country. This fall they will begin a pilot program to explore how HandsNet can be used to deliver nonprofit management support and information.

"We are impressed that in less than two years HandsNet has demonstrated the important role telecommunications can play in helping nonprofits be more effective service providers and advocates," says Brian Backe, National Marketing Director for the Support Centers of America. "We are eager to demonstrate HandsNet's capacity to deliver administrative support and nonprofit management information on such issues as fundraising and accounting."

Support Center staff will offer on-line discussions on nonprofit management as well as answer questions and work with subscribers to solve specific problems via electronic mail.

Gifts In Kind Donations Online!

Gifts In Kind products are now available through the HandsNet Forum. "HandsNet offers us an exciting new avenue to make our services available," said Susan Corrigan, Gift In Kind's Executive Vice President and CEO. "We are impressed with HandsNet's success in making telecommunications technology accessible to the nonprofit community, and look forward to exploring its use to distribute donations."

Over 50,000 organizations have received donations through Gifts In Kind, Inc. Items such as office equipment and supplies, clothing, personal care products, medical supplies, software, film, and building materials have been donated by a wide range of companies.

Donations now available are listed online and can be ordered through electronic mail.

Eye on Federal Register

A great new resource has been added to the HandsNet Forum! Phyllis Smith of the Wisconsin Nutrition Project now compiles Federal Register notices on food, homeless, housing, health, and other poverty and human service issues. The list is updated regularly and includes Requests for Proposals (RFPs) of special interest to subscribers. Bob Serafin of the National Clearinghouse for Legal Services provides a like service for the legal aid community. Save yourself an expensive, time-consuming task by finding the Federal Register information you need on HandsNet.

Housing NOW! Organizing on HandsNet

On October 7th, 1989 over half a million people will meet on the Washington Mall for the National March for Housing NOW! The coalition built around this issue has incredible breadth.

Recognizing telecommunicatons as an ideal tool to organize an undertaking of this scope, Kit Thornton in the national office of Housing Now! is managing a folder on HandsNet to coordinate activities around the country and share information on local efforts in conjunction with the March. Subscribers can read national and local reports and share information from their community.

Free 24-Hour Toll Support

HandsNet subscribers now have 24-hour toll free customer support through our host system, the CONNECT Business Information Service. Call 800/456-0553 or send electronic mail to: CONNECTINC any time. Support staff will answer questions and help solve your problems.

HANDSNET IN ACTION

HandsNet subscribers *use the network in many innovative ways. Here are a few examples of how telecommunications helps them to be more effective service providers and advocates.*

Victories for the Homeless

The National Coalition for the Homeless says the credibility and effectiveness of their work depends on sharing information with a variety of sources across the country. With key contacts and board members in 18 states online, HandsNet makes communication much easier, eliminating costly and time-consuming "telephone tag" with fellow activists.

Particularly in cases where a timely response is crucial, HandsNet has proven an invaluable resource. The National Coalition used HandsNet to collect data from throughout the country on available surplus federal property not being offered to the homeless as required by the Stewart B. McKinney Act. HandsNet subscribers helped identify properties and groups that had tried to gain access, and even joined the litigation as plaintiffs. Following a successful lawsuit, a list of released properties was announced on the network. Through HandsNet, low-income housing advocates in Southern California learned of an available site in Orange County, on which they have negotiated a lease with plans to build 63 low-income apartments.

Again, when HUD reported that shelters were operating at only 70% capacity, the National Coalition used HandsNet to gather comments and data from shelter providers and regional activists across the country. Using responses from California, Ohio, Illinois and Atlanta, the Coalition showed HUD's statistics were implausible. Based on input from shelter providers, they also argued that the timing of the survey during August, when good weather allows more people to sleep outside, was inappropriate. Such timely and accurate rebuttal of misperceptions about homelessness is an integral part of the Coalition's work.

Rural Legal Assistance Enters Telecommunications Era

"With 16 offices covering all the rural areas of the state, California Rural Legal Assistance has a particular need for the powers of telecommunications," says Anthony White of the central office. "HandsNet is fulfilling those needs, plus much more."

Attorneys send files between branch offices to work together on common pleadings and research, even though separated by hundreds of miles. In an emergency, legal papers can be received in literally minutes, improving the ability to respond to crisis situations enormously. New with HandsNet is the opportunity to communicate with the larger legal services and poverty advocacy community. Particularly for field offices in remote areas, increased access to news, digitalized pleadings through an online Clearinghouse, Federal Register abstracts, etc., opens a whole new way of finding information.

Branch offices are quickly getting familiar with the "user friendly" system, encouraging more constant use. "The future seems to have arrived with HandsNet" says White, "none too soon to aid in the work we all do to help those in need."

Impact of Washington State Hunger Task Force

The Washington State Governor's Task Force on Hunger found HandsNet extremely helpful in the development and release of its "Hunger in Washington State" report with the Food Research and Action Center (FRAC) in Washington, D.C. The Task Force used HandsNet to collect data, edit the report, and coordinate a joint press release with FRAC, resulting in extensive national coverage.

Again, during work to implement Task Force recommendations, HandsNet provided easy access to experts at FRAC and experienced advocates throughout the country, leading to passage of a school breakfast mandate and funding for food stamp outreach. Linda Stone of the Task Force says her HandsNet connections are essential to having an impact at the national level.

Cooperating to Preserve Low-Income Housing

In 1987, the Low Income Housing Information Service (LIHIS) recognized an emerging threat to much of the nation's low-income housing. Poor renters were in danger of being displaced by more upscale tenants as private landlords took their buildings out of federal subsidy programs. Because displacement is a nationwide crisis, very technical and fast breaking, telecommunications soon became a valuable tool to concerned tenant groups around the country.

Information online from the National Anti-Displacement Project of LIHIS about owners intending to leave the HUD program was used by a Washington State coalition to obtain legislation requiring tenants be notified of potential conversions of low-income housing to market rate. Housing advocates around the country are actively using E-mail to discuss strategy and share approaches to the problem, while NADP uses the HandsNet forum to keep them up to date on developments in Washington. HUD Secretary Kemp is developing policy on the issue, and a blitz of legislative activity is expected later this year. Larry Yates of NADP says grassroots tenant organizations have a lot at stake, and telecommunications will prove its worth in determining how quickly and effectively they can respond and influence changes in public policy.

Teamwork Wins WIC Expansion

Successful networking by the Washington D.C.-based Center on Budget and Policy Priorities and the California Rural Legal Assistance Foundation produced an innovative infant formula rebate program in California that will allow a $50 million expansion of the Women, Infants and Children (WIC) food program. Those active in the effort agree that the rapid dialogue and exchange of information made possible through HandsNet was a major factor in the victory. As a result, 125,000 at-risk women and children are now being added to the program.

HandsNet Saves Subscribers Money

Subscribers find that using HandsNet not only improves access to information and their colleagues, but saves them money as well. "HandsNet has saved us more than $100 a month in long-distance phone charges and overnight mail costs, aside from the value of the information," says Laurie True of the Northern California Hunger Action Coalition. Kevin Knudtson, of Community Economics, notes HandsNet offers the kind of communication "... that is either too costly or simply impossible in any other context."

Average monthly costs for using HandsNet are $40 to $50, including $25 for the monthly subscription and $15-25 in on-line charges, depending on actual time used.

Subscriber Satisfaction Survey

We learned a lot from the many thoughtful responses to the first on-line Subscriber Satisfaction Survey. Subscribers say better communications is the most valuable asset of HandsNet. Electronic mail keeps people in touch with colleagues, and is used in many other creative ways: to provide technical assistance, organize conferences, write and edit legal drafts, and prepare press releases, position papers and publications. New contacts made through E-mail, better access to national support organizations, and feeling less isolated are seen as primary benefits of the network.

WHAT'S MOST VALUED? Subscribers say the diversity of timely information on HandsNet saves them hundreds of dollars in publications costs. Noting that "information is a major weapon in the war on poverty," they voted daily news summaries, legislative analysis and alerts, and information on available funding and resources the most useful material on the forum. The opportunity to pose questions in the Open Forum folder and receive solutions from the broad network of subscribers is a great asset. The "New Since" function, which lists daily additions to the forum, and powerful keyword searching capabilities are favorite software features for keeping abreast of the ever-growing volume of information.

SUBSCRIBERS RECOMMEND: Many are interested in more strategy discussion and coordination of advocacy efforts. The current Housing Now! folder to organize national and local activities around the October march is one example of how HandsNet can be used by organizations throughout the country to work together. The most frequent recommendation was for expansion—bringing on more organizations across the country and broadening the range of information.

The survey provided us with a wealth of suggestions and new ideas to follow up on. Our goal is to keep the network dynamic and useful.

☐ YES, I want to subscribe to HandsNet!

An Exciting New Information & Communications Network

Introductory Offer includes network software, the first month's subscription and 1 hour of free on-line time. After the first month, I can elect to be billed $25 monthly or prepay $270 now for an annual subscription, a 10% discount off the regular monthly subscription price. Software and subscription prices are subject to change. Enclosed is my check or purchase order for:

☐ Mac Version $125 $ _____

☐ MS-DOS Version $150 $ _____

☐ Plus Annual Subscription @ $270 $ _____

TOTAL $ _____

Name _____ Organization _____

Address _____ City _____

State _____ Zip _____ Telephone ( ) _____

Organizational Purpose _____

Authorized Signature _____

Ask about our discount program for multiple subscriptions within an organization.

HandsNet's Hardware Requirements & On-line Access Charges

Mac version requires a Macintosh with at least 1 megabyte RAM; an additional 800K external drive or hard disk drive; System 6.0; Finder 6.1 or higher; a 1200- or 2400-bps Hayes-compatible modem.

MS-DOS version requires an IBM PC®, XT, AT, 386, PS/2, or 100% compatible computer; a CGA, VGA, EGA or Hercules compatible graphics card; a hard-disk drive; MS-DOS 3.1 or greater; and a 1200- or 2400-bps Hayes-compatible modem. A mouse is strongly recommended.

The **CONNECT Business Information Network**, our host system, bills subscribers directly for their low-cost on-line access charges. These charges are billed at $8 per hour for network connect time from 7 am to 7 pm, Monday through Friday and $4 per hour 7 pm to 7 am on business days and all day on weekends and holidays.

Send completed subscription form and payment to: HandsNet, Inc.

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THE CONTINUING SPIRIT

Connections

Volume 2 • No. 1 — Spring 1990

Susan Dormanen, Editor

Rural Telecommunications Initiative

Rural America is falling behind the mainstream economy in both job and income growth. Traditional rural industries such as agriculture, mining, and timber employ fewer workers each year.

"Yet some rural communities are beating these odds," notes Susan Sechler, Director of the Aspen Institute's Rural Economic Policy Program. "They are identifying strengths to transform their employment and income base by developing and expanding local businesses and attracting new companies." A major challenge for rural communities is keeping up with activities of the economy at large, and learning from the experience of others, she adds.

"Some rural communities are beating the odds."

A Rural Telecommunications Initiative is being developed on HandsNet as a reliable and inexpensive method for exchanging information between rural communities, policymakers, researchers and others. The Initiative will make state-of-the-art computer and information technology accessible to many rural community-based organizations. It will provide a variety of rural organizations and leaders with experience in planning and implementing new technologies. And, it will carry technical assistance to rural groups as well as valuable research, news, and program information from national support and advocacy organizations.

The Initiative is a project of the Ford Foundation's Rural Poverty and Resources Program, in collaboration with the Aspen Institute's Rural Economic Policy Program, Manpower Development Corporation (MDC), the Center for Community Self-Help, the Rural Community Assistance Program, and others.

Initially, several model projects involving rural policy, rural economic and enterprise development, and water/wastewater issues are being planned within the state of North Carolina and throughout the Southeast. According to Mary Mountcastle, MDC's Vice President for Economic Development, "Research has demonstrated the economic importance of better communications and access to information. The challenge is to bring these technologies, and the benefits they offer, to rural America."

"The challenge is to bring new technologies, and the benefits they offer, to rural America."

For more information on the Rural Telecommunications Initiative, contact Mary Mountcastle, MDC, Inc., 1717 Legion Road, Chapel Hill, North Carolina, 27514; 919/968-4531.

Peace Dividend? Follow the Budget on HandsNet

The Washington Post notes leaders from both parties are predicting "a long, divisive and potentially paralyzing debate" on the 1991 federal budget. Prolonged disagreement in Congress could result in automatic spending cuts called for by the Gramm-Rudman-Hollings Act—itself the subject of a controversial proposal to abandon the deficit reduction law.

This year's debate is intensified by growing public expectation of a 'peace dividend.' Yet, the basic message conveyed by the Bush Administration budget proposal seems to be that of limits in health, education and welfare programs—the Center on Budget and Policy Priorities calculates total appropriations for low income programs would be $2.5 billion below the levels needed to maintain current services

Follow this year's budget developments on HandsNet. In addition to summaries from major daily newspapers and the wire services, leading research and advocacy organizations online in Washington contribute up-to-the-minute coverage, alerts and incisive analysis on issues of top concern to human services agencies.

On the day President Bush's spending proposal was released, the Center on Budget & Policy Priorities provided a preliminary budget assessment on HandsNet. By the next morning, the Food Research and Action Center, National Community Action Foundation, Coalition on Human Needs and Low Income Housing Information Service had each reported on the budget's implications for their area of expertise. As Barry Zigas said in announcing his summary of the budget's housing proposals for low-income and homeless people, "You'll be shocked! You'll be mad! But you WON'T be confused after reading the LIHIS FY1991 HUD budget summary!"

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Community Action on HandsNet

"HandsNet has made things easier for us in many ways," says David Bradley, National Community Action Foundation (NCAF) lobbyist and executive director. "It speeds our communications. People can get updated information from us more quickly through HandsNet than from our newsletters or waiting for a phone call to be returned." NCAF relies on HandsNet as a source of timely information and an efficient way to interact with the growing number of community action agencies and state and regional associations online, as well as other HandsNet members.

Encouraging the participation of more CAAs on HandsNet is one of NCAF's major goals in 1990. To that end, NCAF now manages a Community Action forum on HandsNet to circulate up-to-the-minute information about the federal budget, appropriations, and Congressional and Executive Branch activity on the Community Services Block Grant, Stewart B. McKinney Homeless Assistance programs, Low Income Energy Assistance and Weatherization, Head Start, and other issues important to CAAs.

Updates are issued daily when Congress is considering pertinent legislation. Bradley plans to use HandsNet as a major tool during the upcoming reauthorizations of several important programs. The Community Action forum will be especially useful for coordinating grassroots activity, keeping agencies informed of Congressional decision-making, and posting legislative alerts.

ALERT AIDS SUMMER LUNCH PROGRAM

Zy Weinberg of the Texas Association of Community Action Agencies recently discovered that a HandsNet alert can initiate nearly immediate response from members across the country, making advocacy efforts more successful. An alert by TACAA on an endangered bill resulted in enough pressure to ensure that several million more poor children will receive free lunches this summer. "Such victories are made easier by HandsNet, a network that links people across the nation that are ready to act on issues," says Weinberg. "Even for a computer novice like me, the system is simple. I enthusiastically recommend HandsNet to human service advocates and administrators throughout the United States."

"I was amazed by subscribers' willingness to offer assistance."

IL CAA VALUES NATIONAL INFORMATION

Don Tebbe of the Illinois Community Action Association writes, "I only realized the power of HandsNet when we started receiving responses to the first request for information we posted in Open Forum. I was amazed by subscribers' willingness to offer assistance. HandsNet makes the knowledge and experience of the nation's experts on poverty issues available to each of us. Given the complexities of poverty, we need this capability to build and access a network of collective wisdom, and we should be using it!

"We really appreciate the materials that NCAF posts, and check the information two or three times a day when there's lots of action in Congress (the "New Since" function is priceless for finding recent additions.) Often we get the results of Congressional action before the State agencies charged with administering the programs. On one occasion, we gave a HandsNet notice about final negotiations on an appropriation to a State agency, which called their Washington office with a question. The Washington office was unaware of the negotiations, and asked to have the HandsNet message FAXed to them so they could respond.

"Any organization that takes a stand on poverty and is interested in being an effective force for change cannot afford to miss being a part of HandsNet."

For information, contact Betty Weiss, National Community Action Foundation, 2100 M Street N.W., Suite 604A, Washington, D.C. 20037; 202/775-0223.

EDITORIAL

Information Anxiety?

IF...

- You feel guilty about not reading periodicals you've ordered;
- You're depressed about not knowing what all the buttons do on your VCR, and blame yourself for not being able to follow the reference manual;
- You nod knowingly at the mention of a book you've never heard of;
- The inbasket on your desk casts a shadow on your life...

Sue Dormanen, Network Editor

THEN, it's a good bet you are suffering from what author Richard Saul Wurman terms 'Information Anxiety,' the "ever-widening gap between what we understand and what we think we should understand."

Anxiety is a common reaction when people first confront an electronic information network.

We often hear concerns about "not being able to handle any more information." One benefit of an information network is that you don't need to 'handle' it. When newsletters arrive via U.S. Mail, you have to sort and scan them to glean what you need, and file them if you want to retrieve something later. An information network can do that for you. One HandsNet member likened it to being able to command all the papers on her desk to "jump up and show me only the ones I need to see now."

Just as importantly, a telecommunications network is a way to share knowledge and experiences. It puts you in touch with colleagues around the country that have the same unique problems you do. It's one solid way to defeat the erroneous anxiety that everyone else knows something that you don't. And, while a phone call comes at its own convenience, you'll find telecommunications a more efficient and convenient way to work together, without needing to be on the same schedule, or in the same time zone.

In "Information Anxiety," Wurman calls conversation the one 'organic' means of communication, because it works the way our minds think and learn. A telecommunications network provides information in a conversational form. You don't need to take only what's there and try to make sense of it. Being online is interactive, giving you the opportunity to question, comment, ask for clarification—and receive answers straight from the source. It's a way of communicating that enables understanding to happen.

Smithsonian Nomination

Recently, HandsNet was nominated for a Computerworld Smithsonian Award, presented annually to acknowledge "outstanding progress for society through visionary use of information technology." HandsNet was proposed in the Government and Nonprofit Organizations category for beneficial use of technology to serve the hungry, homeless and poor.

We expect the competition to be stiff and are honored to be considered. All HandsNet members can take credit for this recognition, which is due to the continuing support and contributions of network participants.

Award winners are announced in June, and become part of the ongoing Information Age exhibition at the Smithsonian Institution's Museum of American History. The Awards program is a partnership of the Smithsonian, Computerworld magazine, and 51 leading corporations in the information industry.

HandsNet Receives Development Support

Financing for HandsNet's third year has been generously provided by the Ford Foundation, the William & Flora Hewlett Foundation, the MAZON Foundation, Pacific Bell, the Public Welfare Foundation, and the State of California. Apple Community Affairs continues to provide invaluable material and technical support to assist the network's growth and development. In the past year, more than 400 organizations have joined HandsNet, for a current total of 650 members in 44 states.

Network Demonstrations

To acquaint organizations with the network's benefits and ease of use, HandsNet will present demonstrations and workshops at these upcoming conferences:

- **February 24-26** – National Low Income Housing Conference, Washington, D.C.
- **March 7-9** – Community Action Legislative Conference, Washington, D.C.
- **March 10-14** – National Association of Community Health Centers, Washington, D.C.
- **April 2-3** – CA Low Income Housing Conference, Sacramento
- **April 2-4** – Council on Foundations, Boston
- **May 8-9** – CA Hunger Conference, Sacramento

check with our office for additions

A hands-on demonstration at your next conference is the best way to explore how the network can help you and your colleagues work together more effectively. For information, contact Chris Williams at 408/427-0808.

HANDSNET DEMO DISK

The free HandsNet Demo Disk lets you preview the variety of information and services available on the network, without actually being online. The Demo Disk is available for Macintosh computers only. Contact HandsNet Subscriptions.

E-Mail Gateway to PeaceNet, IGC

HandsNet members can now exchange electronic mail with the Institute for Global Communications' more than 5,500 members, including PeaceNet, EcoNet and ConflictNet, via a CONNECT-DASnet gateway. HandsNet and PeaceNet will provide address listings and cross-network mailing instructions to support communications between their members. The gateway represents a significant link between thousands working on a progressive agenda of social justice, the environment, peace and disarmament.

Survey on Network Use

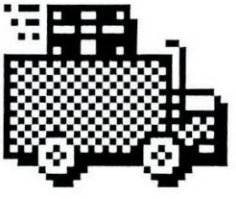
To keep HandsNet responsive, we recently surveyed members to assess the network's usefulness. Regarding frequency of use, 23% of respondents say they use electronic mail daily, and 20% use it more frequently. E-mail is used an average of five times per week. 87% feel e-mail is as reliable and confidential as the U.S. Post Service—several people commented it is more dependable, others appreciate the greater speed, and being able to check if mail they send has been read by the recipient.

49% of respondents say they look at information on the HandsNet Forum daily or more frequently. 60% find the information very useful, 37% say it is somewhat useful, less than 1% report it is not useful to their work. 82% have requested information through the Open Forum or e-mail, and an impressive 94% of those who made requests received useful responses from the network. 87% had responded to others' requests for information. One member, who had not yet used the network to request information, noted that, like African wildlife, the opportunity has significant "existence value."

When asked about the cost of being online, respondents quoted monthly costs ranging from $25 to $125, depending on volume of use. The average monthly cost for a single address is $47, including HandsNet subscription and CONNECT hourly charges for online time. 72% agree the cost is affordable, 26% responded "don't know," while only 2% report that the charges are hard to afford. "A bargain for the return we receive," many commented.

Members say the network saves them from $25 to $115 per month on such expenses as long distance telephone and FAX charges, publications, and postage. The average monthly savings for those who could estimate an amount is $80. However, many note their biggest saving is in time, and the real value of the network lies in new capabilities, contacts, and information. "For me the cost/savings is somewhat irrelevant," responds one member. "Some of the information is simply not available elsewhere... and the existence of this type of communication network gives me hope—without which I couldn't work. Now THAT's value."

HANDSNET has moved to 819 Pacific Avenue, Suite 2, Santa Cruz, CA 95060. Our telephone number remains 408/427-0808, our fax number is now 408/427-0115.



Headway in Legal Services Forum

More than 125 legal aid offices in 27 states are now online with HandsNet. David Goldsmith of the Public Interest Clearinghouse, coordinator of the Legal Services Forum, plans to continue last year's energetic campaign to link the nation's poverty law community through HandsNet.

The Legal Services Forum now offers all HandsNet subscribers timely information on legal matters affecting low-income people. The Forum serves advocates working on housing, health, public benefits, immigration, employment, seniors' issues and more. "Anyone working on legal services and poverty-related issues should be using HandsNet to quickly and cost-effectively share information, transfer documents, solicit advice and assistance, and stay on top of new developments affecting our clients," says Rhoda Schulzinger, Special Counsel for the National Legal Aid & Defenders Association. "The network's greatest strength is ease of use, which makes telecommunications possible for organizations that are short on time, money and computer expertise."

"The network's greatest strength is ease of use."

Case updates, issue alerts, news on legislative and regulatory developments, task force reports, and other vital resources are provided by state and national support centers with expertise in a particular area of law, such as the National Housing Law Project, National Health Law Program, National Immigration Law Center, and the Western Center on Law & Poverty.

In addition, the Legal Services calendar announces trainings and conferences for poverty law advocates, and a Community Resources folder provides funding information, news on LSC and Trust Fund developments, pro bono recruitment resources, directories, sample manuals and forms, and, soon, a listing of job openings for public interest lawyers. There's also a Law Office Technology folder focusing on automation issues affecting legal services providers. A private area allows legal services providers to work confidentially on internal business or discuss case strategy. For more information on the Legal Services Forum, contact David Goldsmith, Public Interest Clearinghouse, 200 McAllister Street, San Francisco, CA 94102-4978; 415/565-4695.

HUD USER Online

HUD USER, the clearinghouse established to disseminate the latest materials from HUD's Office of Policy Development and Research and other HUD offices, plus the Drug Information & Strategy Clearinghouse and the Fair Housing Information Clearinghouse are now all accessible through HandsNet. Together, these clearinghouses furnish the latest materials on homelessness, affordable housing, enterprise zones, housing for the elderly, resident management initiatives, drugs and crime in public housing, and fair housing.

HUD USER disseminates updated research and information on housing and urban development. It offers Recent Research Results; a dissemination service for recently published, unpublished and out-of-print materials; resource guides on relevant topics; a Directory of Information Resources in Housing and Urban Development; and HUD USER ONLINE, a bibliographic database containing more than 5,500 citations.

For more information on any of the three services, contact Nina Corin, Aspen Systems Corporation, 1600 Research Boulevard, Rockville, MD, 20850; 800/245-2691 (301/251-5154 in the Washington, D.C. area.)

State Housing Agencies Select HandsNet for National Network

"By using the available technology of HandsNet's well established and user-friendly forum, Housing Finance Agencies can implement a national network with very modest start-up costs," says John McEvoy, Executive Director of the National Council of State Housing Agencies (NCSHA), announcing the Council's selection of HandsNet to connect its members.

Ultimately, all the information the Council now disseminates to HFAs by phone, mail and at meetings will be available online. In addition to improving communications among state agencies and the national office, summaries of HFA programs and press releases will be available to all HandsNet subscribers.

NCSHA's Automation Task Force recommended HandsNet because of competitive online charges and subscription fees, ease of use and minimal training time for both Macintosh and MS/DOS computer users, the network's track record of service and support to subscribers, HandsNet's library of housing and related information, and access to other CONNECT services such as newsfeeds and stock exchanges.

Several state housing agencies (CA, KY, ME, NC, PA, TX) are already seasoned HandsNet subscribers. 1990 will see 30 or more state agencies and a variety of affiliated organizations online.

For more information, contact Sheila Greenlaw at NCSHA, 444 N. Capitol N.W. Suite 118, Washington, D.C. 20001; 202/624-7710.

New Resource on Immigrants' Rights

The National Immigration Law Center now informs HandsNet members on a broad spectrum of issues affecting aliens. Immigration forum topics include employment, public benefits, legalization, asylum and refugee law, defenses to deportation and detention, exclusion, visa petitions and processing, and resources such as memoranda and indexes to brief banks and periodicals.

The Center provides immediate access to news, by posting updates as developments occur in the field and publishing reports from legal services providers around the country.

The National Immigration Law Center (formerly National Center for Immigrants' Rights) is a national support center for legal services and other nonprofit organizations, furnishing technical assistance, advice and consultation, and training. The Center is also involved in major impact litigation. For more information, contact Daniel Levy, National Immigration Law Center, 1636 West 8th Street, Suite 215, Los Angeles, CA 90017; 213/487-2531.

National Clearinghouse Support

For nearly a quarter of a century, The National Clearinghouse for Legal Services has published on a variety of law-related and public interest topics. Its monthly journal, Clearinghouse Review, is the premier publication on the legal problems facing poor people.

Now National Clearinghouse information services are available online, providing timely support to advocates of low-income people on the HandsNet Forum. "It's wonderful having access to the Clearinghouse folder," writes the director of a Wisconsin food program. "I pulled down eight articles the first day, including one on a health care bill we had been trying to get specifics on for weeks. Thanks!"

A wide range of poverty-related topics are covered, including homelessness, public assistance eligibility, child support enforcement, Medicare and Medicaid issues, immigrants' rights, and employment discrimination. Representative articles recently examined how to reclaim tax delinquent properties for low-income housing, a state's responsibility in protecting children from abuse, advocacy methods for alleviating homelessness, how to seek bilingual Food Stamp services, replacing demolished public housing units, and preventing infant mortality.

The National Clearinghouse forum, located within the Legal Services area on HandsNet, offers abstracts of Clearinghouse Review articles containing practical advice and information on advocacy for the poor; reviews of recent publications; timely notices of public interest-related Federal Register items and summaries of cases submitted to the Clearinghouse that affect the rights of poor people.

The Clearinghouse also offers court-related documents such as pleadings, briefs, and opinions by mail order, as well as practice manuals, position papers, and community legal education materials. For more information, contact Bob Serafin, National Clearinghouse for Legal Services, 407 S. Dearborn, Suite 400, Chicago, IL 60605; 312/939-3830.

ACCESS to Public Service Job Referral

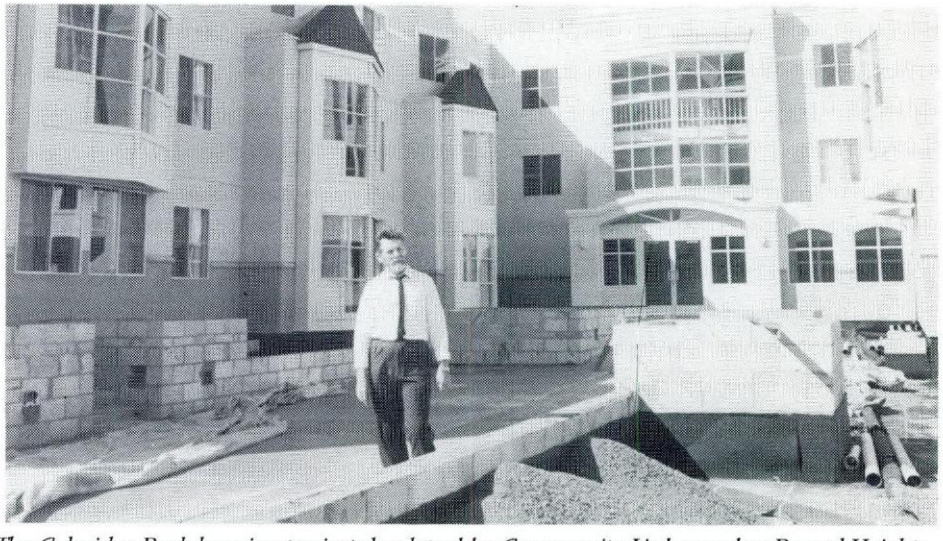
ACCESS: Networking in the Public Interest is the first nationwide public-service job referral system. Now on HandsNet, ACCESS offers members a larger pool of qualified job applicants than ever before, plus individual help for those seeking work in the public sector. Organizations who post job openings on HandsNet have the option of also publishing their announcement, at no charge, in the ACCESS monthly job register. "Opportunities in Nonprofit Organizations" is used by thousands of job-seekers at university career offices, public libraries and other reference centers in over forty states. ACCESS also offers individualized Public Service Job Search to HandsNet members at a discounted price. For more information, contact Jim Clark at ACCESS, 96 Mt. Auburn Street, Cambridge, MA 02138; 617/495-2178.

Community Link Accomplishments

COMMUNITY LINK, a project of the Center for Community Change, completes its first year with promising accomplishments! Not only did membership more than triple from 30 to almost 100 organizations, the policy and steering committee got off to a running start with meetings in Washington, D.C. and Chicago. Since July, Community Link has managed the Housing & Community Development forum on HandsNet, providing expert coverage on these issues to all subscribers.

Perhaps most importantly, members continue to benefit by working together through the network. For example, Dennis West of Eastside Community Development in Indianapolis credits Community Link for aiding the grassroots push to get a $5 million Housing Trust Fund passed in Indiana last spring. The network was particularly useful during the campaign, he says. "When we got a question [from legislators] that was a stumper, there were lots of places to get an answer. It showed we were doing our homework." Neil Gilbert of the South Bend Heritage Foundation in Indiana recently needed ideas on funding for a community organizing program. Through an inquiry on the network, he discovered two little-known funding sources.

Community Link also offers community-based groups working on low-income housing and community development a private forum on HandsNet for confidential work on strategies, resource development and other internal issues. Membership is open to nonprofit grassroots organizations, coalitions and technical assistance providers working with low-income constituents. Members agree to contribute a minimum of eight articles a year to the forum. For more information, contact Mary Brooks, 570 Shepard Street, San Pedro, CA 90731; 213/833-4249.



The Coleridge Park housing project developed by Community Link member Bernal Heights Community Foundation in San Francisco. The 49 homes are built over a store as a result of an innovative "air rights" agreement. Federal subsidies and proceeds from syndication make the units affordable to low-income people. Photo credit: Mary Ann Dolcemascolo

Wisconsin Wins Help on Food Stamp Forms

When anti-hunger advocates in Wisconsin began a campaign to improve their Food Stamp program, they turned to HandsNet to find out what others were doing to increase participation in this important food assistance program.

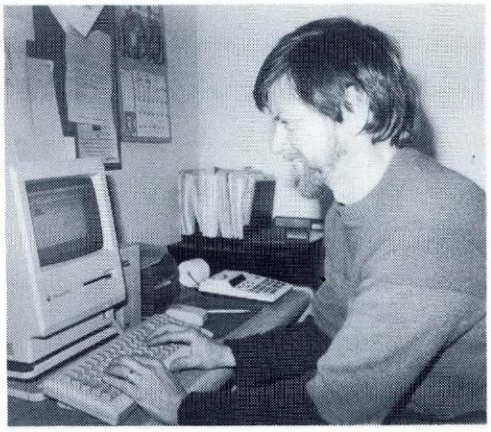
"One of the biggest barriers to getting food stamps in Wisconsin is our 22-page application form," said Carol Croce, Director of the Wisconsin Nutrition Project. "I knew other states had simpler forms, but I didn't know which states they were." As a HandsNet subscriber, Croce posted a request on the network for examples of short, easy-to-read applications that Wisconsin could use as a model. Through electronic mail, she also directly contacted the Food Research and Action Center (FRAC) in Washington D.C., an advocacy organization which acts as a clearinghouse on food stamp issues.

The response was immediate and gratifying, says Croce. "Within days, samples of simple application forms began to arrive." Some respondents explained how they had succeeded in simplifying their state forms, and the positive impact it had on increasing participation in the program. FRAC provided research they had compiled on the literacy level of recipients, with guidelines on making forms more readable and easily understood.

"It would have taken several weeks and many phone calls to track down this information," said Croce. "Through one request to the HandsNet network, we garnered enough material to convince state officials that a simpler application process is not only possible, but is already successful in other states."

"This is the cutting edge of information exchange," notes a homeless health care activist. "It's an extremely powerful tool now available and affordable to anti-poverty advocates."

"HandsNet is helping an exciting group of pioneers to work together," writes the administrator of an emergency food and shelter program. "The payoff is new, more effective ways to serve the poor. By its very nature, the network increases egalitarianism—reducing the power of manipulators, loudmouths, those with charisma, those 'in charge,' those in the right place at any one time."



"We received an alert that a crucial homeless service may be cut and are now actively participating in the effort to restore funding," reports an emergency housing program in Seattle.

Helping Children in Poverty

Leigh Hallingby of the National Center for Children in Poverty writes, "I was to join HandsNet by a letter from Robert Greenstein at the Center on Budget and Policy Priorities. It was evident that many organizations we work closely with belong to HandsNet, therefore we want to be part of it. As we are a new organization, another motivation for joining is to acquaint people working in the poverty field with the National Center for Children in Poverty. We also wish to support an excellent resource. It is impressive that this kind of high-technology network is available to advocates for people in poverty, and we want to do our part to make sure that it succeeds.

"During our first week online, I used HandsNet to gather information on child care for homeless children. I was very successful in finding what was needed, by using the keyword search function and through posting a request in the Open Forum. We have also disseminated information on the Center's activities on the network, and announced the release of a new publication."

The National Center for Children in Poverty, affiliated with Columbia University's School of Public Health, was established in 1989 to develop and strengthen programs and policies to help children under six and their families who live in poverty. For more information, contact Leigh Hallingby, National Center for Children in Poverty, Columbia University, 154 Haven Avenue, New York, NY 10032; 212/927-8793.

"I've used e-mail to finalize agendas, share ideas, cry on shoulders, hold feet to the fire, zing one-liners, send electronic encouragement, vent, publicize, exhort, celebrate..." exclaims a food advocate in California.

"Terrific utility for learning what's happening outside our usual contacts. Great source of news, gossip, etc. Easy. Fun. Powerful..." remarks a national health care organization.

The Coalition on Human Needs comments, "We use the information forum to promote conferences and market our publications. HandsNet is also an important source of information for us on state and national legislative activity, recent developments, and poverty statistics."

VISTA Assists Quake Relief at CA Food Bank

"Every organization has particularly signficant moments in its life," writes Willy Elliott-McCrea, Director of the Second Harvest Food Bank of the Central Coast in Watsonville, CA. "Ours came one day last spring when, browsing through the HandsNet Forum, I found a notice of available VISTA volunteers giving a name, a phone number and an application deadline. We called. We applied. We were approved.

"Our five new VISTA volunteers started work September 5th. By the October 17th earthquake they were as prepared as any of us to swing into full action. During the weeks that followed, the Food Bank became a clearinghouse for donations to the devastated communities of Watsonville, Santa Cruz and Hollister. The workload increased dramatically—we received and distributed $2 million of material relief, with the help of our VISTAs. We're not sure what we would have done without them. Thanks for the support."

Second Harvest Food Bank of the Central Coast

Online in Massachusetts

Thanks to the efforts of the Massachusetts Law Reform Institute (MLRI) in Boston, more than twenty legal services offices around the state have recently joined HandsNet, bringing the current total of Massachusetts subscribers to 44 organizations. In addition to legal services, Massachusetts members include such organizations as the MA Coalition for the Homeless, Community Training Assistance Center, Coalition for a Better Acre, MA Tenants Association, MA Community Economic Development Assistance Corporation, and ACCESS, a national public interest jobs clearinghouse.

John Wong of the Coalition for the Homeless, who has been working with MLRI to get Massachusetts groups on HandsNet, finds the "critical mass" of more subscribers makes the network increasingly beneficial. "Hopefully, we'll be able to duplicate in the shelter sector the fantastic job being done by Mass Law Reform in the legal services sector," he says. Beyond state boundaries, Wong notes that information exchange with other state groups on the network has helped his own rental subsidy lobbying efforts.

"The 'critical mass' of more subscribers makes the network increasingly beneficial."

Taking the lead in getting Massachusetts agencies online fits well with MLRI's goals as a statewide support center. "We are enthusiastic and hopeful about how participation in HandsNet will affect our work," says Ellen Hemley, director of training at MLRI. She values the new ability to post legislative alerts on the forum, and co-counsel on cooperative projects. Online information from the forum is a research tool for MLRI lawyers, who can also use the network to collect material from people in the field. "Because mass mailings and telephone tag are a way of life at MLRI, we saw that HandsNet offers the opportunity to communicate more quickly, efficiently and economically."

Recognizing, however, that the benefits of telecommunications can be hard for computer novices to understand, MLRI decided to win converts by giving strong incentives to try HandsNet. Through a grant from the Massachusetts Legal Assistance Corporation, the state funding source for legal services providers, they were able to purchase software and provide three months of HandsNet subscriptions for each legal services office in the state. In addition, hands-on training was provided to each new HandsNet subscriber.

Linking programs via electronic mail and information forums is a natural extension of MLRI's activities. These include working to shape government programs that impact poor people, coordinating the efforts of advocates statewide, providing technical assistance and support to workers in all sectors of human services, making the laws that concern poor people more understandable by publishing educational materials, and providing advocates with technical support in their efforts to computerize. They regularly schedule trainings for social workers, Community Action Program staff, housing authority staff, shelter workers and others, and continue an active outreach campaign of HandsNet presentations. For more information, contact Ellen Hemley, MA Law Reform Institute, 69 Canal Street, Boston, MA 02114; 617/742-9250.

"Getting information on what is going on around the country enables us to do 'comparative shopping' for innovative solutions—keeps us from having to re-invent the wheel," says the West Virginia Homeless Coalition.

NEW! HandsNet Members' Forums

Organizations now have the opportunity to develop their own areas within the HandsNet Information Forum. HandsNet Members' Forums provide a better method to present information to a select audience. While HandsNet is committed to increasing public access to information, we recognize that confidentiality may be required for certain aspects of your work. Therefore, organizations may choose to open their forum to all HandsNet subscribers, or limit access to designated participants.

Groups such as Community Link, the National Council of State Housing Agencies, and the nation's legal services community maintain private areas to conduct internal or confidential work separately from their public information forums on HandsNet. The Mental Illness Network Developers (MIND) Project plans a forum to connect California state and county agencies and community organizations that serve the mentally ill Linder Allen of the MIND Project also anticipates working closely with the aggregate of HandsNet members, as "legal services, affordable housing, homelessness, hunger and poverty are all issues that the mentally ill and their service providers deal with continuously."

Habitat for Humanity manages a public forum to coordinate the work of its International Headquarters and Regional Centers, which support the nearly 500 Habitat affiliates building affordable housing around the country. The Habitat forum provides administrative, technical, and fundraising information and serves as an "Idea Exchange" for Regional offices and other interested HandsNet subscribers. Plans for the coming year include connecting more Habitat for Humanity regional offices and affiliates via HandsNet.

Habitat for Humanity

HandsNet staff provide assistance in setting up and managing members' forums. There is a $100 set-up fee, with no maintenance or storage charges. Normal hourly on-line charges apply. For more information or an application, contact Chris Williams at HandsNet.

☐ YES, I want to subscribe to HandsNet!

Introductory Offer includes network software, the first month's subscription and 1 hour of free on-line time. After the first month, I can elect to be billed $25 monthly or prepay $270 for an annual subscription, a 10% discount off the regular monthly subscription price. Enclosed is my check or purchase order for:

Mac Version $100 $ _____

MS-DOS Version $100 $ _____

Annual Subscription $270 $ _____

TOTAL $ _____

NAME TITLE

ORGANIZATION

ADDRESS CITY

STATE ZIP TELEPHONE ( )

ORGANIZATIONAL PURPOSE

AUTHORIZED SIGNATURE DATE

HandsNet's Hardware Requirements & On-line Access Charges

Macintosh version requires a Macintosh with at least 1 megabyte RAM; an additional 800K external drive or hard disk drive; System 6.0; Finder 6.1 or higher; a 1200- or 2400-bps Hayes-compatible modem.

MS-DOS version requires an IBM PC®, XT, AT, 386, PS/2, or 100% compatible computer; a CGA, VGA, EGA or Hercules-compatible graphics card; a hard-disk drive; MS-DOS 3.1 or greater; and a 1200- or 2400-bps Hayes-compatible modem. A mouse is *strongly* recommended.

The **CONNECT Business Information Network**, our host system, bills subscribers directly for their low-cost on-line access charges. These charges are billed at $10 per hour for network connect time from 7 am to 7 pm, Monday through Friday and $5 per hour 7 pm to 7 am on business days and all day on weekends and holidays. Data transfer is billed at 3¢ per 1000 characters during peak hours and 2¢ during off-peak hours.

Ask about our discount program for multiple subscriptions within an organization. Prices subject to change.

Send completed subscription form and payment to: HandsNet, Inc.
819 Pacific Avenue, Suite 2, Santa Cruz, CA 95060 408/427-0808

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Computer Network Links Antipoverty Groups

'60s Activists' Rap Sessions Yielding to High-Tech Communication

By Spencer Rich
Washington Post Staff Writer

Poverty organizations are going high-tech.

A generation ago, social activists working for the poor, the hungry and the homeless often had to rely on personal rap sessions over beer and banjos at community halls and dingy store front offices to communicate with those in similar organizations.

Now one of those 1960s activists, Sam Karp—who cut his teeth in the 1968 Chicago Democratic National Convention demonstrations, and as as a civil rights and anti-Vietnam War demonstrator—is bringing advocacy organizations into the computer age.

Over the past two years, Karp, 42, has created a computer network called HandsNet, headquartered in Santa Cruz, Calif., which now connects nearly 400 service and advocacy organizations and hopes to link up 2,000 more within the next few years. The symbol of the system is helping hands reaching out across America.

All that is needed is an Apple Macintosh computer of 512E or greater capacity or an IBM PC or clone, a special software package, a telephone and a "modem," which is a special electronic box that connects a computer to a telephone line.

"We find it very efficient," said Carolyn Bucey Eberle, director of field operations for the Coalition on Human Needs, an umbrella groups for national advocacy organizations located here.

For an initial fee of $95 (Macintosh edition) or $125 (MS DOS edition), plus a monthly fee of $25 and $8 an hour for daytime periods when an organization is actually "on-line" (connected to the network)—or $4 during off hours—an organization can send and receive messages to and from all others in the system, send and receive statistical information as well as program information.

An organization can instantly obtain the information it needs for its service and advocacy work from people who are expert in their fields, and who, in many cases, would not otherwise be accessible to all those needing their help, Karp said.

"Recently we sent out a list of how much money each state will get for job training" under the new federal welfare proposals, said Eberle, "it took only 60 seconds to transmit."

"We sent an inquiry out for a reporter asking questions about people involved in certain kinds of welfare cases," she said. "It took 30 seconds." There were several responses. "Today I received a 'letter' from an organization wanting help raising money for an Alabama coalition to improve welfare benefits."

"We get reports, statistics and budget information from the Center on Budget and Policy Priorities, a think-tank based here that does social and statistical analysis and research, Eberle said. "A group in Maryland needed a quick summary of the welfare bill—we sent it immediately over HandsNet."

For her organization, she said, the advantage is a big savings in the time required to get information; it also saves on mailing and telephone costs in sending information.

Other groups that have joined include the Low Income Housing Information Service, Food Research and Action Center, National Coalition for the Homeless and a variety of hunger, religious and legal services groups as well as many local and state government agencies involved with the poor.

Karp, a transplanted Pennsylvanian who has been in California for 20 years, is a graduate of Washington and Jefferson College, ran a commercial goat dairy in Santa Cruz, and was an anti-war and civil rights activist in the 1960s and 1970s. He became director of a community food and nutrition program serving low-income people in Santa Cruz and lobbied the California state legislature on child and elderly nutrition issues.

In 1986 he was the California coordinator for the Hands Across America public demonstration that raised money to alleviate hunger and homelessness.

"Around that time it became clear to me that we needed a method for organizations to share information, experiences and resources. With 35 leaders of the hunger and homeless movement in California, I approached Apple Computer and asked for their advice and technical assistance in building a network to connect California organizations. Apple provided that assistance and they gave us computers as well. We also conducted market research to understand how organizations currently communicated.

We first went on-line in California in December 1987 and spent the next year in a pilot phase of development. By the end of the year, there were 100 organizations participating. In January of this year we opened subscriptions nationally. There are 40 national organizations, 130 California organizations and another 200 local or state organizations outside of California."

Karp said that while he hopes HandsNet can become financially self-sufficient through its subscription fees in three years, it is still dependent on grants from businesses, state government and foundations.

"There are two ways to communicate on HandsNet. There is electronic mail and there is a library of information—a searchable database of resources and statistics, demographics, public policy issues, news and other information.

"We want the organizations serving the poor to have the same access to new technology and information that the corporate sector is now using and experimenting with to do things rapidly and efficiently. Because of the assistance of Apple Computer and others, we're now on the cutting edge," he said.

CompuServe®

Introductory Subscription

FREE Subscription

Go Online Immediately!

Plus a $15 Usage Credit. Worth Up To 2 Hours or More!

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Refer to this section to go online immediately!

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Welcome To CompuServe — The First Choice Of Network Nations

This booklet contains a FREE subscription to the CompuServe Information Service — the largest personal information service in the world.

Following completion of your subscription online, you will receive an introductory usage credit equivalent to approximately two FREE hours or more online. (The amount of connect time afforded by the credit depends on your modem baud rate.) Once the introductory credit is used, connect time charges will be billed according to the method you request during the subscription process. If you select the Executive Option (described on page 12), or CHECKFREE billing, the monthly minimum for either of those options will begin one month following your subscription.

In addition to your online subscription, you will receive a FREE subscription to the CompuServe monthly newsmagazine *Online Today*. *Online Today* keeps you apprised of new products and services available on CompuServe, provides helpful information for getting the most out of every online minute, and features information industry news worldwide.

You are under no obligation to remain a CompuServe subscriber. You may cancel at any point through the Feedback area provided online, or by sending a letter to CompuServe Customer Service, P.O. Box 20212, Columbus, OH 43220.

How To Use This Booklet

This booklet provides everything you need to go online and subscribe to CompuServe. Take time to become familiar with Section Two: "Putting CompuServe to Work for You" before logging on, so that the time you invest online is most productive and rewarding. *Note: If you read nothing else before signing up, please read Section One: "Getting Online and Subscribing."*

Remove the sealed package stitched in the center of this booklet before logging on. The package contains your subscription User ID Number and password, and provides information you need for your online subscription.

Section One: Getting Online and Subscribing
takes you online with the enclosed User ID Number and password, outlines the online subscription process, and tells you how to log off.

Section Two: Putting CompuServe to Work for You
introduces the GO and FIND commands for getting around the service; previews CompuServe services; and describes additional instructional materials.

Section Three: Helpful Information for New Subscribers
answers specific questions about hardware, software and other topics related to online computing and CompuServe.

Section Four: Appendices
provides billing information, CompuServe network access numbers and rates.

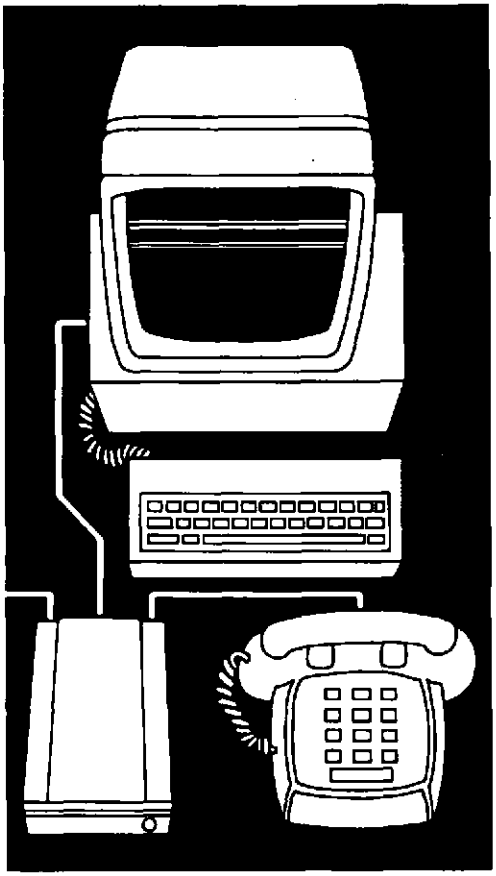
If you need assistance, please contact our Customer Service Representatives:

*Call toll-free **800-848-8990**.*
*In Ohio call **614-457-8650**.*
Monday-Friday: 8 a.m.–midnight Eastern Time
Weekends: 2 p.m.–midnight Eastern Time
Holiday hours vary.

Logging On

Before you log on, tear out the sealed package containing subscription information in the center of this booklet. Complete the personal subscription information section and keep the package handy to help you log on.

1. **Set up your computer and modem** according to your equipment instructions, and load your communications software. Refer to page 21 if you need help selecting communications settings for your computer.



2. **Dial the CompuServe network access number in your area.** Refer to Appendix A for the nearest CompuServe number. Dial according to your modem or software instructions. Then press a carriage return after the telephone number. When you hear a continuous, high-pitched tone, go on to the next step.

3. **Refer to your modem instructions** for initiating a connection. You may need to switch the modem "on," or to "receive." When you receive a "CONNECT" or "CARRIER DETECTED" message, go on to step 4.

4. **Press** [Control] [C] . While holding down the [Control] key, press [C]. If there is no response, or if you do not have a [Control] key, press your [Return] or [Enter] key instead.

Keyboard Equivalents

Model	Control C	Carriage Return
Apple® Atari® Commodore®	[Control] + C	[Return]
Macintosh™	[⌘] + C	[Return]
IBM®	[Control] + C	[↵]
Tandy®16, 100, 1000, 1200, 2000, 600	[Control] + C	[Enter]
Tandy 1, 3, 4 and Color Computers	[↓] + C	[Enter]
Terminals	[Control] + C	[Enter] or [Return]

5. **At the "USER ID" prompt type the User ID Number,** then press a carriage return. Use the subscription User ID Number in the sealed package at the center of this booklet the first time you log on. If you receive a "HOST NAME" prompt, type CIS followed by a carriage return.

6. **Type your password** at the "PASSWORD" prompt, then press a carriage return. Your subscription password is included in the package with your User ID Number. *Note: the password will not appear on the screen. If you type the password incorrectly, you receive two more opportunities to enter it.*

7. **Type the Agreement and Serial numbers** provided in the subscription package at the center of this booklet, followed by carriage returns. *Note: these numbers are used only to enter your subscription.*

Subscribing Online

Note: there are no connect time charges or communication surcharges during the subscription process. Your complimentary usage credit does not begin until you log on with the personal User ID Number provided during the online subscription.

1. First, confirm your agreement with the CompuServe Service Agreement Terms by typing AGREE at the prompt provided online. Read the complete terms printed in your subscription information package beforehand, or review them online.

2. The Executive Option is offered at a special rate during the subscription procedure. The additional services offered in the Executive Option are described on page 12.

3. Please provide your mailing address and telephone number at the next prompts.

4. Select a billing option for your CompuServe account. Several alternatives are offered for your convenience, including VISA®, MasterCard®, American Express® or CHECKFREE® (described on page 26).

5. Your personal User ID Number and password will be displayed at the end of the subscription process. Write them on the Access Cards in the center of this booklet before continuing.

6. A new password will arrive in the mail within ten days to confirm your subscription and provide additional security for your account. Although your current password provides access to most of the service, IQuest, Software Exchange, The Electronic MALL ordering, the National Bulletin Board, and some games will be unavailable until you receive the second password.

To log off, type OFF at any ! prompt. If you are at a colon (:) prompt, type EXIT or QUIT to get back to a ! prompt, then type OFF.

Securing Your Password

Never give your password to anyone online. With a legitimate prompt, your password will not appear on the screen. If your password appears as you type it online, change it immediately. (Type GO PASSWORD at the next ! prompt.) If you suspect that your password has been obtained by someone else, please contact Customer Service.

Note: no one from CompuServe will ever ask you for your password. Please report any such requests via Feedback.

Putting CompuServe To Work For You

The CompuServe Information Service Users Guide is a comprehensive reference for : EasyPlex® electronic mail; Executive News Service; CB Simulator; Forum message boards, data libraries and conferencing; personal file area; transferring files to and from your computer; travel and financial services; games; and more.

Along with the guide, you'll receive over a dozen **Reference Cards** that provide commands that enable you to use key services more effectively, a complete **Quick Reference Word** list and a convenient **Information Service Menu Diagram.**

The CompuServe Almanac is loaded with helpful features for exploring new areas online, learning more about areas you visit daily, and seeing the full scope of the CompuServe Information Service...

- **Comprehensive**. Includes descriptions and Quick Reference Words for hundreds of services, and notes special pricing.
- **Fully-indexed**. Helps locate products within the service.
- **Notebook design**. Ample margins to write in frequently-visited pages and product updates.

The Almanac also includes: an EasyPlex Address directory; listings of popular stocks and mutual funds; symbols for market indexes, commodities, interest and exchange rates and more.

To order the CompuServe Information Service Users Guide and Product Almanac, type **GO ORDER** at any ! prompt. Prices are listed online.

Information Service Overview

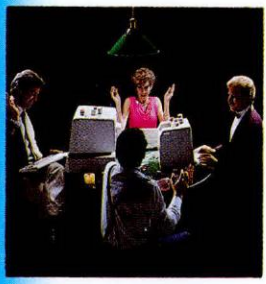
Configure your own *personal information service* from among nearly 700 information and communication offerings available on CompuServe. Preview a few of the many things you can do on CompuServe here, and use the Subject Index on pages 14-20 to locate specific services of interest online.

Travel. Check flight schedules and fares, then book the flight you want. Compare rates and accommodations at hotels worldwide. Plan regional automotive trips. Consult an international bed and breakfast directory and private residence exchange.

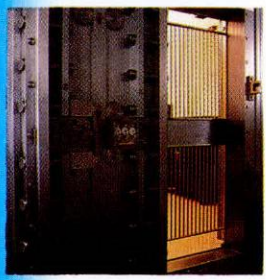
News, Weather & Sports. Scan state and national news wires or automatically "clip and save" articles you specify from the Associated Press or the *Washington Post*. Consult current and extended forecasts of National Weather Service reporting stations for conditions where you are now or where you are going.

Money Matters & Markets. Retrieve market quotes. Study commodities contracts. Comparison shop for mutual funds. Analyze forecasts, estimates, futures and exchange rates. Evaluate public firms. Consult the Social Security Administration.

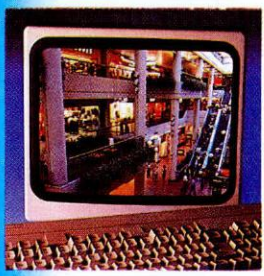
Personal Computing. Communicate with the customer support staffs of leading software publishers and hardware manufacturers. Evaluate personal computing purchases with the members of top microcomputing Forums. Download first-rate, non-commercial software with only connect time cost. Read continually-updated newsletters of leading microcomputer manufacturers for industry developments.



Entertainment & Games. Play interactive adventure, space and war games. Enjoy board or parlor games like casino blackjack, chess or trivia. Play alone or simultaneously with other players around the country. Join an interactive television game show simulation. Read movie reviews and "soap" plots, or Rock 'n' Roll and Hollywood news hotlines.



Financial Transaction Services. Tap the economy and convenience of electronic banking for small businesses and individuals. Place buy and sell orders for securities around the clock. Manage a mutual fund account. Create an online portfolio to evaluate holdings.



Electronic Shopping. Browse The Electronic MALL™ to comparison shop or purchase brand-name items in stores like Neiman-Marcus, Bloomingdales and Sears; or to request product information from firms like EF Hutton, AT&T and Ford.

Home, Health & Family. Consult medical or cooking texts. Learn about insurance products. Refer to federal publications. Compare new cars by feature. Calculate loan payment schedules. Join Forums that support consumer electronics, tropical fish, sailing, auto racing, astronomy, sports and other interests.

Reference. Check facts swiftly and conveniently in an online encyclopedia. Use keywords to perform research in hundreds of national and international databases, indexes and publications accessible through convenient online gateways. Retrieve bibliographic listings, abstracts or full text.

Business and Other Interests. Retrieve key demographic data by city, state or zip code. Meet with peers in legal, healthcare, computing, broadcasting and other job-related Forums. Search a vast index of upcoming seminars and workshops applicable to your current position or one you desire. Exchange advice with entrepreneurs at all stages of start-up.

Communications & Bulletin Boards. Manage your own electronic mail — including interconnects with Telex and MCI Mail, and links to CompuServe news services for convenient routing of articles. Contribute to electronic bulletin boards. "Talk" to other subscribers live on CB Simulator. Transmit and receive text files.

Education. Students — compare colleges, join student Forums, find opportunities for study and travel abroad. Educators — join instructors from specialty areas; consult curriculum planning references and reviews of print, software and other resources; incorporate online services in current events, political science or other curricula. Professionals — investigate undergraduate or graduate programs of U.S. and Canadian colleges, or enroll in an online university.

The Executive Option

Add greater power to your online capabilities with the Executive Option, which extends the Information Service to include exclusive services such as the CompuServe® Executive News Service, SuperSite demographic reports and Disclosure II company information.

The Executive News Service

Custom design your daily newspaper from the *Washington Post* and national and international AP Wires. Specify topics of interest and let the Executive News Service scan the wires around the clock, clip related articles and file them online for reading at your convenience.

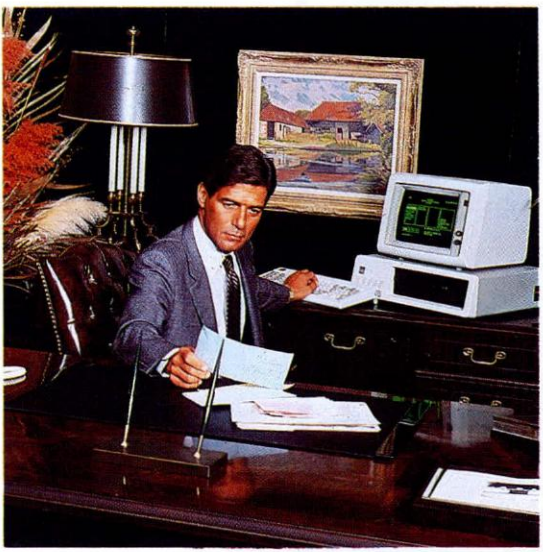
Exclusive Financial Services

Unlock powerful investment and market research services, including: Ticker Retrieval, Disclosure II, SuperSite and the Institutional Broker's Estimate System. Select information on company officers, corporate expenditures, dividends, and more for over 90,000 firms. Retrieve presentation-quality market research reports for any zip code in the nation.

Special Privileges and Discounts

The Executive Option also provides:

- volume discounts on selected transaction-priced financial databases
- a 10% discount on the purchase of most CompuServe products
- a 50% increase in online storage capacity in your personal file area
- a six-month storage period for personal files (30 days is standard)



A Brief Word About Commands

Learn two: FIND and GO. Use them at any ! prompt to get more out of every online minute.

FIND

The FIND Command allows you to locate areas of interest by topic. FIND searches the CompuServe index for topics you specify, then lists related services and their Quick Reference Word. Type FIND, followed by the topic at any ! prompt. (Example: type FIND TRAVEL to list travel-related services.)

GO

The GO Command bypasses the normal menu structure. Use it to proceed directly to areas that interest you. The Subject Index on the following pages lists online destinations and their corresponding Quick Reference Word (or "GO command"). Simply type GO, followed by the corresponding Quick Reference Word, at any ! prompt. (Example: type GO APV to reach the AP Videotex Wire.)

You can also explore the service by making selections from the TOP menu, which appears when you log on with your personal User ID Number.

Type GO COMMAND at any ! prompt to receive a full list of commands for the service. A few of the most important commands are listed below, and can be entered at any ! prompt.

T[op] — Return to the CompuServe TOP menu.
M[enu] — Return to the previous menu.
N[ext] — Takes you to the next menu choice.
EXIT — Return to a **!** prompt. (Also /**EXIT**.)
OFF — Disconnect from CompuServe. *Note: Disconnecting your modem, without first logging off by typing OFF, may cause you to incur up to 15 minutes additional connect and telecommunication charges.)*

The following control characters may be used at any time:

Control C — Interrupts the service and takes you to a **!** prompt.
Control S — Pauses the display of information on your screen.
Control Q — Resumes the display stopped by Control S

Subject Index

COMPUTERS AND TECHNOLOGY	GO COMPUTERS
Personal Computing Forums —Hardware	
Amiga Forum	GO AMIGAFORUM
Apple Users Group™	GO MAUG
Apple II and III Forum	GO APPLE
Apple User Groups Forum	GO APPUG
Macintosh Business Forum	GO MACBIZ
Macintosh Users Forum	GO MACUS
Atari Forums	GO ATARI
Commodore Users Network	GO CBMNET
Commodore Arts and Games Forum	GO CBMART
Commodore Communications Forum	GO CBMCOM
Commodore Programming Forum	GO CBMPRG
Commodore Service Forum	GO CBM-2000
DEC Users Network	GO DECUNET
Epson Forum	GO EPSON
Heath Users Group	GO HEATHUSERS
Hewlett-Packard Series 100 Forum	GO HP
IBM Users Network	GO IBMNET
IBM Communications Forum	GO IBMCOM
IBM Hardware Forum	GO IBMHW
IBM Junior Forum	GO IBMJR
IBM New Users Forum	GO IBMNEW
IBM Software Forum	GO IBMSW
Kaypro Forum	GO KAYPRO
OS9 Operating System Forum	GO OS9
Tandy Users Network	GO TANDYNET
Color Computer Forum	GO COCO
LDOS/TRSDOS6 Forum	GO LDOS
Model 100/Portables Forum	GO M100SIG
Tandy Professional Forum	GO TRS80PRO
Texas Instruments Forum	GO TIFORUM
Personal Computing Forums —Software/Languages	
Ashton-Tate Forum	GO ASHFORUM
Autodesk Forum	GO ADESK
Borland International Forum	GO BORLAND
CADRE Forum	GO CADRE
Computer Art	GO ARTSIG
Computer Club Forum	GO CLUB
Computer Consultants Forum	GO CONSULT
Computer Training Forum	GO DPTRAIN
CP/M User Group	GO CPMSIG
Digital Research Forum	GO DRFORUM
Forth Forum	GO FORTH
LOGO Forum	GO LOGOFORUM
LOTUS Forums	GO LOTUS
Living Videotext Forum	GO LVTFORUM
MicroPro Users Forum	GO MICROPRO
Microsoft Forum	GO MSOFT
Pascal Forum	GO MUSUS
Programmers Forum	GO PROGSIG
Software Publishing Forum	GO SPCFORUM
Whole Earth Software Forum	GO WHOLEEARTH
Word Perfect Support Group	GO WPSG

Electronic Publications and Other Interests	
AI EXPERT Magazine	GO AIE
ANTIC ONLINE	GO ANTIC
APPLES ONLINE	GO AOL
COMPUTER LANGUAGE Magazine	GO CLM
Digital Research Inc.	GO DRI
Dr. Dobb's Journal	GO DDJ
DR. JOB	GO DRJ
FAMILY COMPUTING Magazine Electronic Edition	GO FAM
Microsearch	GO MICROS
ONLINE TODAY	GO TODAY
Personal File Area	GO FILES
Software Publishing Online	GO SPC
Tandy Corporation Newsletter	GO TANDY
Texas Instruments News	GO TINEWS
THE ELECTRONIC GAMER™	GO EGAMER
The World of LOTUS	GO LOTUS
VIDTEX™ Communication Software	GO VIDTEX

COMMUNICATION	**GO COMMUNICATE**
CB Simulator (Computer Conferencing)	GO CB
CB Society	GO CUPCAKE
Directory of Information Service Subscribers	GO DIRECTORY
EasyPlex Electronic Mail	GO EASYPLEX
National Bulletin Board	GO BULLETIN

Communication-Related Forums	
Citizen's Band Interest Group	GO CBIG
HamNet Ham Radio Network	GO HAMNET
Telecommunications Forum	GO TELECOMM

NEWS, WEATHER, SPORTS	**GO NEWS**
AP Sports Wire	GO SPORTS
Associated Press Videotex Wire	GO APV
Computer Sports World	GO CSW
Executive News Service	GO ENS
Hollywood Hotline™	GO HOLLYWOOD
IQuest SM — Online Reference Resource	GO IQUEST
ONLINE TODAY Electronic Edition	GO ONLINE
Sports News	GO SPORTS
St. Louis Post-Dispatch	GO SPD
The Business Wire	GO TBW
Weather Reports, Forecasts, Maps	GO WEATHER

News and Sports Forums	
Auto Racing Forum	GO RACING
Journalism Forum	GO JFORUM
National Issues and People Forum	GO ISSUESFORUM
OMNI OnLine	GO OMNI
Online CompuServe Connection	GO COMPUSERVE
Outdoors Forum	GO OUTDOORFORUM
Sailing Forum	GO SAILING
Sports Forum	GO SPORTSFORUM

TRAVEL SERVICES	GO TRAVEL
Adventures in Travel	GO AIT
American Express Travel Services	GO AMEX
Discover Orlando	GO ORLANDO
Official Airline Guide EE	GO OAG
Pan American Travel Guide	GO PANAM
Rocky Mountain Connections	GO ROCKIES
State Department Travel Briefings	GO STATE
Sun 'N Sand Vacations	GO SNS
Travelshopper℠	GO TWA
TravelVision	GO TRV
VISA Advisors	GO VISA
West Coast Travel	GO WESTCOAST
What's New in Travel	GO WNT
WorldWide Exchange	GO WWX
Travel-Related Forums	
Florida Travel	GO FLORIDA
Travel Forum	GO TRAVSIG
Aviation Services	
Airline Flight Information	GO FLIGHTS
Aviation Forum	GO AVSIG
Aviation Safety Institute	GO ASI
Aviation Services	GO AVIATION
Flight Planning and Weather Briefings	GO EMI
Service Difficulty Reports	GO ASI
Weather Maps	GO MAPS
Weather Reports and Forecasts	GO BRIEFI
SHOPPING SERVICES	**GO SHOPPING**
Comp-u-store OnLine	GO CUS
CompuServe Product Ordering	GO ORDER
CompuServe SOFTEX Software Sales	GO SOFTEX
New Car Showroom	GO NEWCAR
The Electronic MALL™	GO MALL
Selected MALL merchants:	
Air France	GO AF
American Express	GO AXM
Chevy Showroom	GO CHV
Dean Witter Reynolds	GO DWR
Dow Jones & Co.	GO DJ
EF Hutton	GO EF
Fifth Avenue Shopper	GO FTH
Ford Motor Company	GO FMC
H&R Block	GO HRB
Hobby Center Toys	GO HC
L'eggs/Hanes Outlet	GO LH
Magic Castle Video	GO MV
McGraw-Hill Book Company, The	GO MH
Merle Norman Cosmetics	GO MN
Neiman-Marcus	GO NM
Waldenbooks	GO WB

Dear JDR Customer,

Thank you for purchasing your Prometheus modem from JDR. Both JDR and Prometheus want to insure the best possible support for our customers. In the event you have any questions or problems with your modem, or problems hooking it up to your system, please contact JDR at their toll free technical support number:

(800) 538-5000

JDR service and support personnel have been trained by Prometheus to provide you excellent support. You can contact them between the hours of 8:30 AM and 4:30 PM Pacific Time.

In addition to the technical support hotline, JDR also maintains a Technical Support BBS, which is available to all JDR customers. You may send and receive messages from the JDR technical support staff via the BBS. The number for the BBS is:

(408) 374-2171

CompuServe®

Subscription Information Enclosed

Tear out insert. Open by removing edge along the dotted line.

Use the enclosed information to log on and complete your online subscription.

Tear here to open

Service Agreeme

You will be asked to agree to
Terms during your online subs
following carefully before subs

Service Terms

1. The CompuServe Information Service
services, software and databases so
Operating Rules published over the S
and supersede all prior and contempc
2. Upon notice published over the Servic
Rules, or the Service. Such modificati
implementation of user priorities and c
month's prior notice published over thi
3. Customer's use of the Service is not t
Customer's credit card or any limits es
4. Customer is responsible for and must
access the Service.
5. The Service is provided on an "as-is,
DISTRIBUTORS, NOR ITS SUPPLIERS
INCLUDING WITHOUT LIMITATION TH
PARTICULAR PURPOSE, WITH RESPE
implementing sufficient procedures an
accuracy of data input and output and
reconstruction of any lost data.
6. Customer will not reproduce, sell, pub
information obtained through the Serv
publications or exploitation by any pe
7. The provisions of paragraphs 5 and 6
suppliers; any such data supplier shal
provisions directly on its own behalf.
8. In addition to connect time charges, n
Service, Customer will be responsible
transaction charges, and/or add-on cc
services that generate these charges,
supplemental networks other than Cor
9. This Agreement will be performed in a
claims or causes of action related to t
claim or cause of action has arisen or

Service Agreement

I agree to pay the CompuServe Informati
which the services are purchased and bi
in effect at the time this Agreement is ac
conditions of the Billing Option which I h
maintain confidentiality of my password a
read and fully understand the Terms of th

Serial Number:
8136320

MONEY MATTERS AND MARKETS	GO MONEY
Bond Prices & Volumes Since 1973	GO BONDS
Brokerage Services	GO BROKERAGE
Charts to Analyze Securities Performance	GO TREND
Commodity Market News & Analysis from News-a-tron	GO NAT
Commodity Price & Volume Information	GO CPRICE
Company Information from Disclosure II	GO DISCLOSURE
Company Information from Standard & Poor's	GO S&P
Downloading Interfaces for Company Data	GO IQINT
Downloading Interfaces for Pricing Data	GO MQINT
Earnings & Growth Estimates from the I/B/E/S	GO IBES
Earnings Estimates & Sales Projections from Value Line	GO EARNINGS
Economic Outlooks from Money Market Services	GO MMS
Financial Futures Information	GO COMMODITIES
Financial Statements from Disclosure II	GO DISCLOSURE
Financial Statements from Value Line	GO VLANN
Foreign Currency Exchange Rates Since 1973	GO QUOTES
Market & Industry Indexes Since 1973	GO QUOTES
Market and Industry Index Lookup	GO INDICATORS
MicroQuote II (Program Prompt)	GO MQUOTE
Mutual Fund Distributions	GO DIVIDENDS
Mutual Fund Services	GO FINANCE
Mutual Funds —Noload Fund Descriptions	GO NOLOAD
Options Prices & Volumes for Recent Contracts	GO OPRICE
Portfolio Valuation	GO PORT
Real Estate Appraisal	GO REAL ESTATE
Screening —Company Information	GO COSCREEN
Securities Symbol Lookup	GO SYMBOLS
Security Screening (on Investment Criteria)	GO SCREEN
Spreadsheet Interfaces for Securities Data	GO INTERFACES
Stock Market Highlights	GO MARKET
Stock Prices & Volumes Since 1973 (Multiple Issue)	GO QSHEET
Stock Prices & Volumes Since 1973 (Single Issue)	GO PRICES
Stock Quotes for the Current Day (Delayed 20 Minutes)	GO QQUOTE
Stock Splits & Dividends	GO DIVIDENDS
Tax & Benefit Information from the Social Security Administration	GO SSA
Tax Information from the Internal Revenue Service	GO IRS

Online Banking and Brokerage Services	
Business Banking Direct from PSFS	GO BBD
Max Ule & Co.	GO TKR
NCNB National Bank, Charlotte, N.C.	GO NCNB
PSFS, Philadelphia, PA	GO PSFS
Quick & Reilly	GO QWKWAY
Rappaport Diamond Brokers	GO RDC
Southeast Bank, Miami, Florida	GO SEB
Unified Management	GO UMC
United American Bank, Memphis, TN	GO UAB

Financial and Investment Forums	
Ashton-Tate Support Library	GO ASHTON
Ask Mr. Fed Forum	GO ASKFED
Financial and Investment Forums	GO FINFORUM
Investors Forum	GO INVFORUM
World of LOTUS (LOTUS 1-2-3, Symphony, Jazz)	GO LOTUS

BUSINESS MANAGEMENT AND REFERENCE	GO BUSINESS
American Association of Medical Systems and Informatics Communications	GO AAMSI
American College of Obstetricians and Gynecologists	GO ACOG
American Express® ADVANCE	GO AMEX
AP Videotex, Business	GO APV
Aviation and Flight Planning	GO AVIATION
Calculate Net Worth	GO FINTOL
Checkbook Balancer	GO CHECKBOOK
DR. JOB	GO DRJ
EdVENT II	GO EDVENT
Executive News Service	GO ENS
Fedwatch Newsletter	GO MMS
Independent Insurance Agents Association	GO INSURANCE
Information USA	GO IUS
Int'l Entrepreneurs Network	GO USEN
IQuest℠ —The Online Reference Resource	GO IQUEST
Loan Amortization	GO FINTOL
Microsearch	GO MICROS
PaperChase (MEDLINE)	GO PAPERCHASE
Rare Disease Database	GO RDB
Social Security Administration	GO SSA
Stevens Business Reports	GO SBR
SuperSite Demographic Information	GO SUPERSITE
The Business Wire	GO TBW
U.S. Government Publications	GO GPO
World-Wide Investment System	GO REAL ESTATE

Industry and Professional Forums	
American Association of Medical Systems and Informatics	GO MEDSIG
Broadcast Professional Forum	GO BPFORUM
Communications Industry	GO MEDIA
Computer Consultants Forum	GO CONSULT
Consumer Electronics Forum	GO CEFORUM
Int'l Entrepreneurs Network	GO USEN
Journalism Forum	GO JFORUM
Legal Forum	GO LAWSIG
Military Veterans Services	GO VET
Public Relations and Marketing	GO PRSIG
Safetynet Forum	GO SAFETY
Telecommunications	GO TELECOMM
Work From Home Forum	GO WORK
Writers and Editors	GO WESIG

HOME, HEALTH & FAMILY	GO HOME
Calculate Net Worth	GO FINTOL
Checkbook Balancer	GO CHECKBOOK
HealthNet	GO HNT
Home Management	GO HOME
Human Sexuality	GO HUMAN
Independent Insurance Agents Association	GO INSURANCE
Internal Revenue Services	GO IRS
Loan Amortization	GO FINTOL
Rare Disease Database	GO RDB
Social Security Administration	GO SSA

Special Interest Forums

Aquarium & Tropical Fish	GO FISHNET
Astronomy Forum	GO ASTROFORUM
Comic Book Forum	GO COMIC
Consumer Electronics	GO CEFORUM
Disabilities Forum	GO DISABILITIES
Family Computing Forum	GO FAM
Food/Wine Forums	GO FOOD
Good Earth Forum	GO GOODEARTH
Ham Radio Forum	GO HAM
Literary Forum	GO LITFORUM
Model Aviation Forum	GO MODELNET
Music Forum	GO MUSICFORUM
National Issues and People Forum	GO ISSUESFORUM
Online CompuServe Connection	GO COMPUSERVE
Outdoors Forum	GO OUTDOORFORUM
Religion Forum	GO RELIGION
Science Fiction Forum	GO SCI-FI
Space Forum	GO SPACEFORUM
WITSIG	GO WITSIG

EDUCATION AND REFERENCE	GO EDUCATION
Education	
College Press Service	GO CPS
Educational Products Information Exchange (EPIE)	GO EPIE
EdVENT II	GO EDVENT
Handicapped Users' Database	GO HUD
Peterson's College Guides	GO PETERSON'S
Rehabilitation Database	GO REHAB
Science Trivia	GO SCITRIVIA
Touch-Type Tutor	GO TMC

Reference

Academic American Encyclopedia	GO ENCYCLOPEDIA
Information USA	GO IUS
IQuest℠ —The Online Reference Resource	GO IQUEST
SuperSite Demographic Information	GO SUPERSITE
U.S. Government Publications	GO GPO

Education Forums	
Assoc. for Education in Journalism and MASS Communications Forum	GO AEJMC
Assoc. for the Development of Computer-based Instructional Systems Forum	GO ADCIS
Computer Training Forum	GO DPTRAIN
Educational Products Information Exchange	GO EPIEFORUM
Educational Research Forum	GO EDRESEARCH
Educators Forum	GO EDFORUM
Foreign Language Education Forum	GO FLEFO
LOGO Forum	GO LOGOFORUM
Science and Math Education Forum	GO SCIENCE
ENTERTAINMENT AND GAMES	**GO GAMES**
Entertainment	
Hollywood Hotline™	GO HOLLYWOOD
Movie Reviewettes	GO MOVIES
Soap Opera Summaries	GO SOAPS
The National Satirist	GO KCS
Entertainment/Games Forums	**GO EGFORUMS**
Comic Book Forum	GO COMIC
Music Forum	GO MUSICFORUM
RockNet	GO ROCK
Sci-Fi Fantasy Forum	GO SCI-FI
WitSIG	GO WITSIG
Games Forums and Publications	**GO GAMECON**
The Gamers' Forum	GO GAMERS
The Gaming Connection	GO GAMECON
The Multi-Player Games Forum	GO MPGAMES
THE ELECTRONIC GAMER™	GO EGAMER
Adventure Games	**GO ADVENT**
CastleQuest	GO CQUEST
Flying Buffalo	GO BUFFALO
House of Banshi	GO BANSHI
New Adventure	GO NEWADVENT
Original Adventure	GO ORADVENT
Scott Adams Adventure Series	GO ADAMS
Board/Parlor Games	**GO BPGAMES**
Astrological Charting	GO ASTROLOGY
Baffle Word Game	GO BAFFLE
Biorhythm Charting	GO BIORHYTHM
Hangman	GO HANGMAN
The Casino	GO CASINO
Fantasy Role-Playing Games	**GO FRPGAMES**
BlackDragon	GO BLACKDRAGON
Castle Telengard	GO CASTLE
Island of Kesmai	GO ISLAND
Simulation/Sports Games	**GO SSGAMES**
Advanced Digital Football	GO ADFL
Air Traffic Controller	GO ATCONTROL

Modem Settings

Your modem may be built into your computer. If you have an external modem, make sure it is turned on and set to "receive." Load your communications software and select these settings:

- Select a **BAUD RATE** for connecting to CompuServe. CompuServe supports baud rates of 110, 300, 450, 1200 and, in some areas, 2400 and 9600. *Note: there is a higher connect charge for baud rates above 450.*

- Set your computer to **ASCII.** Most computers will already be set to ASCII; some may require that you select this setting.

- Set your computer to **ONE STOP BIT.**

- Set your computer to **7-BIT, EVEN PARITY.** Select 8-BIT NO PARITY as an alternative.

- Set your computer to **FULL DUPLEX.**

Customizing CompuServe to Your Screen Size

When you log on the first time, you will receive a series of menus that help you customize the way CompuServe displays information on your screen. The options include:

- **Terminal type** — select yours from the list of computer models. If you are not sure what type of computer you are using, choose the menu item "Other" (general purpose).

- **Screen size: lines per screen** — if you enter "yes" for help in determining the size of your screen, markings will show the number of lines your screen can display.

- **Screen size: characters per line** — if you enter "yes" for help in determining the height of your screen, you'll see a similar grid for line-length, from left to right.

Note: if display problems persist, try typing "⋆ OTHER " following your User ID number when logging on. (For example: 70000,11⋆ OTHER). To reset your terminal type or screen size, type GO TERMINAL at any ! prompt.

Answers from Customer Service

Refer to your *CompuServe Information Service Users Guide* first for comprehensive instructions and assistance. If your subscription did not include a guide, see page 8 to order one.

The **HELP COMMAND** provides fast assistance anywhere online. At any ! prompt, type HELP to get instructions pertaining to the area you are in at the moment.

The following areas are also available for online assistance:

Quick Word	Description
GO BILLING	Review monthly bill, change billing or address
GO COMMAND	Summary of Information Service commands
GO HELP	Returns full "Help & Instructions" menu
GO INDEX	Select topics from an alphabetic index
GO LOGON	Review logon procedures
GO NODES	List the nearest CompuServe access number
GO PASSWORD	Change your password
GO PROFILE	Choose display options, create new menus
GO RATES	Current rate information
GO TOUR	Visit popular areas of the service

PERSONAL COMPUTING FORUMS (GO FORUMS) offer a wealth of information, assistance and software updates.

ONLINE Q & A (GO QUESTIONS) addresses frequently asked questions, and is divided by subject for easy reading.

CUSTOMER SERVICE FEEDBACK (GO FEEDBACK) is a special form of electronic mail that enables you to send questions to Customer Service Representatives online. There are no connect time charges when in FEEDBACK, and questions are answered via return electronic mail, with a telephone call, or by U.S. Mail.

CUSTOMER SERVICE REPRESENTATIVES are available to answer questions that require special attention or research. For immediate assistance, call toll-free at **800-848-8990** (614-457-8650 in Ohio):

Monday-Friday .....8 a.m.-midnight ET
Weekends and Holidays .....2 p.m.-midnight ET
Holidays hours vary.

Appendix A
CompuServe Network Access Numbers

Legend

Modem Type		Baud Rate	
A	212 Bell	**1**	300
B	212A Bell	**2**	1200
C	212 MNP	**3**	300/1200
D	224 Bell	**4**	300/450/1200
E	224 MNP	**5**	2400
F	Bell/Vadic		
G	Vadic		

Alberta

Edmonton	403/466-4501	A3

Alabama

Bessemer	205/879-2250	A3
Birmingham	205/879-2250	A3
Huntsville	205/536-4405	A3
Mobile	205/478-0688	A3
Montgomery	205/262-0010	A3

Arkansas

Little Rock	501/224-9311	A3

Arizona

Mesa	602/256-2951	A3
Phoenix	602/256-2951	A3
	602/371-8171	C2
	602/256-9493	D5
	602/943-9425	E5
Scottsdale	602/256-2951	A3
Sierra Vista	602/459-6390	A3
Tempe	602/256-2951	A3
Tucson	602/748-2004	A3
	602/748-2009	A3
	602/745-8745	E5
Yuma	602/782-7191	A3

British Columbia

Vancouver	604/738-5157	B3

California

Alameda	415/531-3700	A3
Anaheim	714/520-9724	A3
	714/520-5231	E5
Bakersfield	805/323-7691	A3
Belmont	415/592-5490	C5
Berkeley	415/531-3700	A3
Beverly Hills	213/739-8906	A4
	213/739-0371	A3
	213/383-9284	D5
	213/487-6461	G2
Canoga Park	818/902-0932	A3
Castro Valley	415/581-2631	A3
	415/889-0369	E5
Cathedral City	619/325-4584	A3
Concord	415/682-2633	A3
Culver City	213/390-7531	A3
	213/216-0010	A3
	213/390-9617	A3
	213/397-8812	G2
Cupertino	408/988-8762	A4
Encinitas	619/753-2728	A3
Fresno	209/252-1892	A3
Hayward	415/581-2631	A3
Hollywood	818/982-1813	A3
Inglewood	213/739-8906	A4
	213/739-0371	A3
	213/383-9284	D5
	213/487-6461	G2
Irvine	714/851-0145	A3
	714/833-2518	C2
	714/851-6801	E5
Lake Tahoe	916/541-5940	A3
Livermore	415/443-9202	A3
Long Beach	213/591-8392	A3
Los Altos	408/988-8762	A4
Los Angeles	213/739-8906	A4
	213/739-0371	A3
	213/384-1261	C2
	213/383-9284	D5
	213/384-1460	E5
	213/487-6461	G2
Monterey	408/375-9931	A3
Mountain View	408/988-8762	A4
N. Hollywood	818/982-1813	A3
Newport Beach	714/851-0145	A3
	714/833-9915	E5
Oakland	415/531-3700	A3
	415/482-0190	E5
Pacheco	415/682-2633	A3
Palm Springs	619/325-4584	A3
Palo Alto	415/591-5846	A3
	415/591-5591	A3
Pleasant Hill	415/682-2633	A3
Pomona	714/865-2229	A3
Riverside	714/359-7801	A3
	714/354-6191	C2
Sacramento	916/971-4681	A3
	916/482-1094	E5
Salinas	408/754-2751	A3
San Bernardino	714/881-1583	A3
San Carlos	415/591-5846	A3
	415/591-5591	A3
San Diego	619/569-0697	A3
	619/283-6091	A3
	619/283-6021	A3
	619/569-8324	D5
	619/280-1896	E5
San Fernando	213/739-0371	A3
	213/739-8906	A4
	213/383-9284	D5
	213/487-6461	G2
San Francisco	415/956-4281	A3
	415/956-4191	A4
	415/781-2922	C2
	415/398-0905	D5
	415/781-1506	E5
	415/982-9055	G2
San Jose	408/988-8762	A4
San Marcos	619/471-0960	A3
San Mateo	415/591-5846	A3
	415/591-5591	A3
	415/592-5490	C5
	415/591-5415	D5
Santa Barbara	805/682-2331	A3
Santa Clara	408/988-8762	A4
	408/986-0345	C2
	408/988-5366	D5
	408/727-6917	E5
Santa Cruz	408/476-0422	A3
Santa Rosa	707/579-1490	A3
	707/579-1490	A3
Sherman Oaks	818/902-0932	A3
Sierra Madre	818/303-2563	A3
Solana Beach	619/481-3527	A3
Stockton	209/465-7251	A3
Sunnyvale	408/988-8762	A4
	408/988-5366	D5
Thousand Oaks	805/499-0371	A3
Torrance	213/542-4311	A3
Van Nuys	818/902-0932	A3
	818/902-0488	E5
Ventura	805/643-0177	A3
Walnut Creek	415/682-2633	A3
West L.A.	213/739-8906	A4
	213/739-0371	A3
	213/383-9284	D5
	213/487-6461	G2

Colorado

Aspen	303/925-5892	A3
Aurora	303/629-5563	A4
	303/629-9145	D5
	303/623-4711	G2
Boulder	303/629-5563	A4
	303/629-9145	D5
	303/623-4711	G2
Colorado Sprngs	303/596-0910	A3
Denver	303/629-5563	A4
	303/892-7920	C2
	303/629-9145	D5
	303/892-1199	E5
	303/623-4711	G2
Dillon	303/668-0991	A3
Durango	303/259-5880	A3
Ft. Collins	303/493-8601	A3
Glenwood Spring	303/945-0424	A3
Grand Junction	303/241-1885	A3
Lakewood	303/629-5563	A4
	303/629-9145	D5
	303/623-4711	G2
Longmont	303/651-3207	A3
Loveland	303/663-0992	A3
Vail	303/476-8700	A3

Connecticut

Bridgeport	203/926-0001	A3
	203/926-0316	D5
Danbury	203/797-1815	A3
Fairfield	203/222-1748	A3
Greenwich	203/967-4589	A3
Hartford	203/728-0633	A3
	203/278-3622	C2
Milford	203/926-0001	A3
New Haven	203/467-3489	A3
	203/468-7165	E5
New London	203/444-2509	A3
North Haven	203/467-3489	A3
Norwalk	203/222-1748	A3
Stamford	203/967-4589	A3
Waterbury	203/574-0500	A3
	203/573-0392	G2
Westport	203/222-1748	A3
	203/222-1742	G2

District of Columbia

Washington	703/352-7500	A3
	703/841-9834	A4
	703/352-8750	G2

Delaware

Newark	302/652-8732	A3
	302/656-6451	D5
	302/656-6852	G2
Wilmington	302/652-8732	A3
	302/656-6451	D5
	302/656-6405	E5
	302/656-6852	G2

Florida

Boynton Beach	305/684-9051	A3
Daytona Beach	904/257-5019	A3
Deerfield Beach	305/428-6104	A3
Ft. Lauderdale	305/771-8074	A3
	305/772-3240	A3
	305/772-3603	C5
	305/772-1339	E5
Ft. Myers	813/939-7060	A3
Jacksonville	904/396-7105	A3
Longwood	305/273-8780	A3
	305/273-8805	A3
Melbourne	305/724-0857	A3
Miami	305/266-0231	A3
	305/262-1643	E5
Orlando	305/896-4298	A3
	305/896-3053	E5
Panama City	904/871-4775	A3
Pensacola	904/434-3911	A3
Sarasota	813/355-9331	A3
	813/351-7702	A3
St. Petersburg	813/525-0378	A3
	813/527-0338	E5
Tallahassee	904/222-4144	A3
	904/224-6021	A3
Tampa	813/237-8189	A3
	813/237-8798	C2
	813/238-6067	E5
	813/238-5972	E5
Vero Beach	305/778-0550	A3
West Palm Beach	305/684-9051	A3

Georgia

Albany	912/435-9420	A3
Atlanta	404/237-3003	A3
	404/237-3227	C2
	404/231-3214	D5
	404/237-5198	E5
Augusta	404/733-0346	A3
Martinez	404/733-0346	A3

Hawaii

Kailua	808/263-6670	A3
Maui	808/244-9152	A3

Iowa

Cedar Rapids	319/365-9363	A3
Davenport	319/323-7388	A3

Appendix A
CompuServe Network Access Numbers

Legend

Modem Type		Baud Rate	
A	212 Bell	**1**	300
B	212A Bell	**2**	1200
C	212 MNP	**3**	300/1200
D	224 Bell	**4**	300/450/1200
E	224 MNP	**5**	2400
F	Bell/Vadic		
G	Vadic		

Des Moines	515/270-1581	A3
	515/270-9410	A3
Idaho		
Boise	208/384-5660	A3
	208/384-5666	A3
Ketchum	208/788-5060	A3
Pocatello	208/232-9452	A3
Illinois		
Arlington Hts.	312/332-7382	A3
	312/443-1250	A3
	312/263-5636	D5
	312/372-1402	G2
Aurora	312/859-1557	A3
Chicago	312/332-7382	A3
	312/443-1250	A3
	312/372-2977	C2
	312/263-5636	D5
	312/346-3047	E5
	312/372-1402	G2
Cicero	312/443-1250	A3
	312/332-7382	A3
	312/263-5636	D5
	312/372-1402	G2
East St. Louis	314/241-3102	A3
	314/241-3110	G2
Lombard	312/953-9680	A3
	312/953-4991	D5
Oak Park	312/332-7382	A3
	312/443-1250	A3
	312/263-5636	D5
	312/372-1402	G2
Peoria	309/685-2543	A3
Rockford	815/968-3412	A3
Skokie	312/443-1250	A3
	312/332-7382	A3
	312/263-5636	D5
	312/372-1402	G2
Springfield	217/753-0434	A3
St. Charles	312/859-1557	A3
Indiana		
Elkhart	219/293-1593	A3
Evansville	812/479-0165	A3
Ft. Wayne	219/447-0510	A3
Gary	219/769-0081	A3
Indianapolis	317/638-2762	A3
	317/638-2517	A3
	317/631-6824	E5
	317/638-5785	G2
Lafayette	317/742-6578	A3
Muncie	317/284-3812	A3
Osceola	219/674-6951	A3
	219/679-4705	G2
Richmond	317/935-0061	A3
Kansas		
Kansas City	816/474-3770	A3
	816/472-1283	D5
Mission	816/474-3770	A3
	816/472-1283	D5
Shawnee	816/474-3770	A3
	816/472-1283	D5
Shawnee Mission	816/474-3770	A3
	816/472-1283	D5
Topeka	913/234-1051	A3
Wichita	316/689-8765	A3
	316/689-8585	A3
Kentucky		
Lexington	606/259-3446	A3
Louisville	502/581-9526	A3
	502/583-1277	D5
	502/585-1512	E5
	502/581-9804	G2
Louisiana		
Baton Rouge	504/273-0184	A3
Lafayette	318/233-1150	A3
Lake Charles	318/474-0980	A3
Monroe	318/387-0879	A3
	318/325-6781	D5
New Orleans	504/734-8150	A3
	504/733-2297	E5
Shreveport	318/424-5380	A3
Massachusetts		
Amherst	413/549-7431	A3
Arlington	617/542-1796	A3
	617/542-7148	D5
	617/542-1779	G2
Boston	617/542-1796	A3
	617/542-7148	D5
	617/482-7061	E5
	617/542-1779	G2
Brockton	617/588-3222	A3
Brookline	617/542-1796	A3
	617/542-7148	D5
	617/542-1779	G2
Burlington	617/667-4266	A3
Cambridge	617/542-1796	A3
	617/542-1779	G2
Chicopee	413/734-7362	A3
Concord	617/371-0354	A3
Fall River	617/676-6910	A3
Framingham	617/875-3814	A3
Groton	617/448-9301	A3
Holyoke	413/734-7362	A3
Hudson	617/568-8019	A3
Lawrence	617/975-0451	A3
Maynard	617/897-4746	A3
Medfield	617/359-7603	A3
Medford	617/542-1796	A3
	617/542-7148	D5
	617/542-1779	G2
Medway	617/533-2722	A3
Mendon	617/478-0653	A3
Newton	617/542-1796	A3
	617/542-1779	G2
Quincy	617/542-1796	A3
	617/542-1779	G2
Springfield	413/734-7362	A3
Waltham	617/542-1796	A3
	617/542-7148	D5
	617/542-1779	G2
Westboro	617/366-2617	A3
Worcester	617/792-2512	A3
Maryland		
Annapolis	301/266-7530	A3
Baltimore	301/254-7113	A3
	301/426-5533	C2
	301/254-1652	D5
	301/426-2752	E5
	301/254-1150	G2
Bethesda	703/352-7500	A3
	703/841-9834	A3
	703/352-8750	G2
Dundalk	301/254-7113	A3
	301/254-1652	D5
	301/254-1150	G2
Hyattsville	301/559-8000	A3
	301/559-0200	A3
	301/853-2908	E5
Ocean City	301/548-1502	A3
Towson	301/254-1652	D5
	301/254-1150	G2
Maine		
Portland	207/879-0005	A3
Michigan		
Ann Arbor	313/663-3934	A3
Detroit	313/255-9207	A4
	313/255-9304	D5
	313/255-0390	E5
	313/255-9877	G2
East Lansing	517/321-2388	A3
Flint	313/238-6202	A3
Grand Rapids	616/459-9891	A3
Kalamazoo	616/344-5312	A3
	616/344-2298	A1
Lansing	517/321-2388	A3
Saginaw	517/893-1161	A3
Troy	313/362-2540	A3
Minnesota		
Minneapolis	612/342-2207	A3
	612/333-8731	C2
	612/339-2507	D5
	612/332-5669	E5
	612/375-0328	G2
St. Paul	612/342-2207	A3
	612/339-2507	D5
	612/375-0328	G2
Missouri		
Columbia	314/442-4600	A3
Florissant	314/241-3102	A3
	314/241-3110	G2
Independence	816/474-3770	A3
	816/472-1283	D5
Jefferson City	314/635-9170	A3
Kansas City	816/474-3770	A3
	816/472-1283	D5
	816/474-0007	E5
St. Louis	314/241-3102	A3
	314/436-7677	C2
	314/241-5337	E5
	314/241-3110	G2
Mississippi		
Jackson	601/948-6411	A3
Montana		
Billings	406/245-0863	A3
Helena	406/449-8390	A3
North Carolina		
Burlington	919/584-2971	A3
Charlotte	704/333-6654	A3
	704/331-0905	E5
Davidson	919/725-1550	A3
Durham	919/682-6239	A3
Greensboro	919/373-1635	A3
Raleigh	919/878-8570	A3
Research TriPrk	919/682-6239	A3
Wilmington	919/392-4700	A3
Winston-Salem	919/725-1550	A3
Nebraska		
Lincoln	402/474-1006	A3
Omaha	402/895-5288	A3
	402/896-3853	G2
Newfoundland		
Grand Falls	709/489-4020	A2
New Hampshire		
Nashua	603/883-5551	A3
New Jersey		
Atlantic City	609/645-1258	A3
Bayonne	201/624-6565	A3
Camden	609/665-7555	A3
Cherry Hill	609/665-7555	A3
Elizabeth	201/624-6565	A3
Greenbrook	201/356-0202	A3
	201/356-4747	E5
Hackensack	201/489-0111	A3
Hackettstown	201/852-8070	A3
	201/852-8502	A3
Jersey City	201/624-6565	A3
Montclair	201/783-5400	A3
Newark	201/624-6565	A3
	201/624-0210	C2
	201/624-3444	E5
Parsippany	201/898-1935	A3
	201/292-1529	E5
	201/898-0259	G2
Pennsaukin	609/665-7555	A3
Princeton	609/683-4776	A3
	609/683-4770	A3
	609/921-8930	G2
Ridgewood	201/444-3913	A3
Toms River	201/244-7722	A3
Union	201/624-6565	A3
Union City	201/624-6565	A3
Wayne	201/633-5030	A3
Woodbridge	201/906-0960	A3
New Mexico		
Albuquerque	505/265-1263	A3
	505/265-7046	G2

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Modem Type		Baud Rate	
A	212 Bell	**1**	300
B	212A Bell	**2**	1200
C	212 MNP	**3**	300/1200
D	224 Bell	**4**	300/450/1200
E	224 MNP	**5**	2400
F	Bell/Vadic		
G	Vadic		

Los Alamos	505/662-4122	A3
Nevada		
Las Vegas	702/878-0056	A3
Reno	702/786-5308	A3
	702/786-5356	A3
	702/786-7416	G2
New York		
Albany	518/439-7491	A3
Binghamton	607/724-1171	A3
Buffalo	716/874-3751	A3
	716/875-3711	E5
Hicksville	516/681-7240	A3
	516/681-7347	A3
	516/681-5470	E5
Lake Grove	516/981-0880	A3
Limestone	716/925-7042	A3
New York	212/758-4114	A4
	212/422-8820	A3
	212/758-2090	A3
	212/968-7790	D5
	212/509-8130	E5
	212/888-1020	E5
	212/344-5674	G2
	212/758-0330	G2
Niagra Falls	716/284-3570	A3
Poughkeepsie	914/473-2617	A3
Rochester	716/458-3465	A3
	716/458-3460	A3
	716/647-1567	E5
Schenectady	518/439-7491	A3
Syracuse	315/458-6016	A3
Tonawanda	716/694-6263	A3
Troy	518/439-7491	A3
White Plains	914/993-0923	A3
	914/993-0762	E5
Williston Park	516/294-1482	A3
Ohio		
Akron	216/867-1237	A3
	216/867-1243	A3
Athens	614/594-8364	A3
Cambridge	614/439-7360	A3
Canton	216/455-2126	A3
	216/455-2516	A3
Cincinnati	513/771-1630	A3
	513/771-8543	E5
	513/771-1760	G2
Cleveland	216/771-6860	A3
	216/566-7830	C2
	216/771-4014	D5
	216/621-7670	E5
	216/771-8350	G2
Columbus	614/876-2116	A3
	614/457-2105	A4
	614/876-8928	D5
	614/761-1133	E5
	614/451-5573	G2
Dayton	513/461-1064	A3
	513/226-1907	E5
Euclid	216/771-6860	A3
	216/771-4014	D5
	216/771-8350	G2
Granville	614/587-0932	A3
North Canton	216/867-1237	A3
	216/867-1243	A3
Parma	216/771-6860	A3
	216/771-4014	D5
	216/771-8350	G2
Ravenna	216/678-5066	A3
Toledo	419/244-0073	A3
	419/243-2818	D5
	419/244-6286	G2
Youngstown	216/743-4992	A3
Oklahoma		
Bethany	405/946-4799	A3
	405/946-4860	A3
Norman	405/946-4860	A3
	405/946-4799	A3
Oklahoma City	405/946-4860	A3
	405/946-4799	A3
Tulsa	918/749-8801	A3
	918/742-9884	E5
	918/749-8953	G2
Ontario		
Toronto	416/752-4150	B3
	416/265-8035	E5
Oregon		
Eugene	503/689-9800	A3
Portland	503/232-1072	A3
	503/239-6126	C2
	503/239-6124	E5
Pennsylvania		
Allentown	215/776-6960	A3
Butler	412/285-8187	A3
Erie	814/453-7538	A3
Harrisburg	717/657-9633	A3
King of Prussia	215/279-5811	A3
	215/279-4568	C2
Norristown	215/279-5811	A3
	215/279-4568	C2
Penn Hills	412/391-7732	A3
	412/391-8818	A3
	412/261-4192	D5
	412/391-8218	G2
Philadelphia	215/977-9758	A3
	215/564-4384	C2
	215/977-9794	D5
	215/569-4020	E5
	215/977-9790	G2
Pittsburgh	412/391-8818	A3
	412/391-7732	A3
	412/261-4192	D5
	412/562-9456	E5
	412/391-8218	G2
Reading	215/375-4850	A3
Somerset	814/443-6402	A3
Upper Darby	215/977-9758	A3
	215/977-9794	D5
	215/977-9790	G2
York	717/845-7631	A3
Quebec		
Montreal	514/374-8961	B3
	514/374-5340	E5
Rhode Island		
Providence	401/941-6900	A3
South Carolina		
Charleston	803/763-0090	A3
	803/556-0422	G2
Columbia	803/783-5484	A3
	803/776-8459	C2
	803/776-5355	D5
Greenville	803/255-4686	A3
Myrtle Beach	803/238-8625	A3
South Dakota		
Rapid City	605/341-3733	A3
Tennessee		
Chattanooga	615/877-5804	A3
Chattenooga	615/870-4793	E5
Gatlinburg	615/436-2001	A3
Knoxville	615/584-9902	A3
Memphis	901/452-8530	A3
	901/452-1710	A3
	901/323-0220	D5
	901/458-3001	E5
	901/452-2470	G2
Nashville	615/366-1947	A3
	615/360-7923	E5
Oak Ridge	615/483-2292	A3
Texas		
Abilene	915/698-1111	A3
Amarillo	806/379-8411	A3
Austin	512/444-7234	A3
	512/440-1411	C2
	512/444-0566	E5
Conroe	409/756-8904	A3
Corpus Christi	512/882-1465	A3
Dallas	214/953-0212	A4
	214/953-1971	A3
	214/953-1164	C2
	214/953-0436	D5
	214/953-0801	E5
	214/953-1168	G2
El Paso	915/565-4661	A3
	915/562-2617	G2
Ft. Worth	817/870-2461	A3
	817/870-1257	E5
Galveston	409/763-5125	A3
Houston	713/225-2330	A3
	713/225-9064	C2
	713/225-0843	D5
	713/225-0692	E5
	713/225-2500	G2
Laredo	512/722-8008	A3
Lubbock	806/763-5081	A3
Midland	915/697-8211	A3
San Antonio	512/435-3883	A3
Utah		
Provo	801/377-1120	A3
Salt Lake City	801/521-2890	A3
	801/521-6326	D5
Virginia		
Alexandria	703/841-9834	A3
	703/352-7500	A3
	703/352-8750	G2
Arlington	703/841-9834	A3
Chesapeake	804/461-6128	A3
	804/461-6167	A3
Fairfax	703/352-7500	A3
	703/591-5039	C2
	703/591-0506	D5
	703/385-5996	E5
	703/352-8750	G2
Hampton	804/722-0016	A3
Manassas	703/368-5707	A3
Midlothian	804/358-8274	A3
Norfolk	804/461-6128	A3
	804/461-6167	A3
	804/461-8117	E5
Portsmouth	804/461-6128	A3
	804/461-6167	A3
Richmond	804/358-8274	A3
Roanoke	703/563-8421	A3
Virginia Beach	804/461-6167	A3
	804/461-6128	A3
Williamsburg	804/888-0555	A3
Vermont		
Burlington	802/862-1575	A3
Washington		
Olympia	206/786-6666	A3
Seattle	206/241-7023	A3
	206/241-9111	A3
	206/243-8933	C2
	206/242-5767	D5
	206/243-7610	E5
	206/241-8137	G2
Spokane	509/326-0515	A3
Tacoma	206/922-1790	A3
Wisconsin		
Brookfield	414/258-5616	A3
Madison	608/256-6525	A3
Milwaukee	414/258-5616	A3
	414/258-1419	C2
	414/258-6049	D5
	414/258-4157	E5
Wauwatosa	414/258-5616	A3
	414/258-1419	C2
	414/258-6049	D5
West Virginia		
Charleston	304/768-9700	A3
Huntington	304/736-2331	A3
Parkersburg	304/485-4225	A3
Wheeling	304/233-9470	A3
Wyoming		
Casper	307/234-6914	A3
Jackson	307/733-1640	A3
Laramie	307/742-9641	A3

Appendix B
CompuServe Billing Options

Charge Card
With charge card billing, you can have your CompuServe charges sent directly to your MasterCard®, VISA®, or American Express® charge card account.

Enter your charge card information, including card number and expiration date. Each week, charges for the previous week are forwarded to your card issuer. Each month, your card statement lists your CompuServe charges. (Note: Cards from outside the U.S. must be international cards.)

CHECKFREE®
If you have an address and a checking account within the U.S., you can join thousands of subscribers who prefer to pay for their CompuServe charges through CHECKFREE. CHECKFREE enables you to make payments from your checking account through the Federal Reserve system without writing a check.

Enter your checking account number and bank's name, address and routing transit number during the online subscription process. Each month, prior to the CHECKFREE transfer, you receive a notice by U.S. mail which lists current charges, payments, credits, and the amount of your transfer for that month. (This information is also available online for convenient reference.) On the precise payment date, CHECKFREE asks the bank to pay CompuServe on your behalf. The bank makes your payment and lists it on your checking account statement.

There is a $5.00 per month minimum charge for the CHECKFREE option. All connect time and other charges count toward the $5.00 minimum. This minimum is waived for Executive Option subscribers, who are subject to a single $10.00 monthly minimum. All monthly minimums begin 30 days after you subscribe.

Business Account
To establish a Business Account, the authorized signer for a registered business must complete and sign the Business Account Application/Agreement form and New User Worksheet on pages 27 and 29. Be sure to include the Agreement and Serial numbers you received with this booklet in the application and mail it to:

CompuServe Credit and Collection Department
P.O. Box 20212, Columbus, Ohio 43220.

There is a one-time, non-refundable, $44.95 set-up fee for a Business Account's initial User ID which includes a $35.00 usage credit. There is a $19.95 charge for each additional User ID. Upon credit approval, a Business Account User ID number and password will be mailed to the user, along with a Users Guide for each User ID requested. There is also a $10.00 monthly minimum for each User ID Number on the Business Account.

If you have already signed up and wish to apply for the Business Account option, please complete the Business Account Application and New User Worksheet. If approved, your account will be converted for a one-time transfer fee of $10.00.

If you are not already an Executive Option subscriber, you are automatically authorized for the Executive Option at no additional charge when you open a Business Account. *(Note: The Business Account option is available only for business addresses within the United States and Canada.)*

Business Account Application and Agreement

Before completing this application, please read the Business Account terms on the reverse side. After completing the form, please make a copy of both sides for your records. Information submitted for credit verification will be held in strictest confidence.

(Please Print Clearly)

Billing Attention

Purchase Order Number

Business Telephone
( )

Company Name

Form of Business
□ Individual □ Corporation □ Partnership

Billing Address (Number, Street, City, State, Zip)

Date Started

No. of Employees

Division or Subsidiary of

Kind of Business

Address

Duns Number

Bank References

Bank Name (Loan)

Contact

Address

Account Number

Branch

Telephone
( )

Bank Name (Checking)

Contact

Address

Account Number

Branch

Telephone
( )

Trade References

1. Company Name

Contact

Address

Telephone
( )

2. Company Name

Contact

Address

Telephone
( )

3. Company Name

Contact

Address

Telephone
( )

This Agreement must be signed by an individual of authority to bind the terms and conditions to all subsequent users set up under this business account.

Accepted: (Customer)

(authorized signature)

(print name)

Title

Date

Accepted: CompuServe Information Services, Inc.

(authorized signature)

(print name)

Title

Date

When returning this form: Include a check or money order for **$44.95** to cover the cost of your initial User ID Number. Forward to: CompuServe Credit Department, P.O. 20212, Columbus, Ohio 43220.

For CompuServe use only: BAN: Set up date:

By:

Business Account Service Terms

Read these Business Account Service Terms carefully before completing the application on the reverse side.

1. The CompuServe Information Service consists of the use of the computing service, software, supplies, and databases which are made available by CompuServe. These Terms together with any Operating Rules and Rates published over the Service, will constitute the entire Agreement for the Service and will supersede all prior land contemporaneous statements, communications, and documents.
2. This Agreement shall be effective from the date of its written acceptance by an officer of CompuServe and shall continue in full force and effect until either party gives written notice of termination at least thirty days prior to the effective date of termination.
3. The Customer will guarantee performance and indemnify CompuServe Information Services, Inc. against liability for the actions of each person (the "User") to whom it distributes a Business Account User Application and who subsequently becomes a User of the CompuServe Information Service (the "Service") as identified by a unique User ID number and password set up under the Business Account number established by this Agreement.
4. Upon notice published over the Service, CompuServe may modify these Terms, the Operating Rules or the Service. Such modifications may include, without limitation, price changes, implementation of user priorities and discontinuance of parts of the Service. Upon at least six months prior notice published over the Service, CompuServe may terminate the Service.
5. This Business Account is not transferable and will be subject to any account limits established by CompuServe.
6. The Customer shall provide all telephone and other equipment necessary to access the Service.
7. The Service is provided on an "as-is, as available" basis. **Neither CompuServe nor its information providers make any warranties, expressed or implied, including without limitation those of merchantability and fitness for a particular purpose with repsect to the Service.** The Customer is responsible for implementing sufficient procedures and checkpoints to satisfy its reuqirements for accuracy of data input and for maintaining a means external to the Service for the reconstruction of any lost data.
8. The Customer will not reproduce, sell, publish, or in any manner commercially exploit any information obtained through the Service or participate in or knowingly allow such reproduction, sale, publication or exploitation by any person.
9. The provisions of paragraphs 7 and 8 are for the benefit of CompuServe and its information providers; and any such information provider shall have the right to assert and/or enforce such provisions directly on its own behalf.
10. Charges for the services and supplies provided under this Agreement will be accumulated by User ID number and will normally be invoiced following the end of the month in which the service and supplies are provided. Terms of payment on all charges are net, ten (10) days in U.S. funds only. If any payment due hereunder is not made by Customer within thirty (30) days after the invoice date, a late charge of one and one-half percent (1 1/2%) per month shall be due and payable with respect to such payment, and CompuServe may, in addition, at its sole discretion and without notice to Customer (a) suspend its performance under this agreement and Customer's access to and use of the Service or (b) terminate this agreement and Customer's access to and use of the Service.
11. Notwithstanding any acknowledgement of a Customer purchase order by CompuServe, any provision or condition in any purchase order or other memorandum of Customer which is in any way inconsistent with, or adds to, the provisions hereof is null and void.
12. The Customer will be responsible for payment of all premium program charges, transaction charges, add-on connect time charges when the Customer or User accesses programs such as do generate these charges, and for any communication surcharges.
13. This Agreement will be governed by the laws of the State of Ohio. Any claims or causes of action related to the Service must be instituted within one year after the claim or cause of action has risen or be barred.

Business Account New User Worksheet

Please complete one worksheet for each User ID Number which will be billed to your Business Account. (Please photocopy this worksheet if more are needed.)

Account Status

New User ID Number

☐ Please set up a User ID Number and send the appropiate User's Guide.

Addition to existing account

If this is an addition to an existing Business Account please indicate the Business Account Number.

Business Account Number: BAN:_____

Conversion

☐ Please transfer the following User ID Number to my Business Account.

User ID Number:_____

☐ Please set up a User ID Number from my Executive Service Subscription Kit or Intropak.

Serial No.:_____

Agreement No.:_____

User and Administrator Information

Please provide the following user and administrator information. A copy of this worksheet will be returned to the Company Administrator. Each month's invoice will be mailed to the address set up for that purpose under your Business Account number.

User

Company Name_____

Individual User Name_____

Street Address_____

City_____

State_____ Zip_____

Phone Number(_____)_____

Company Administrator

Company Name_____

Administrator Name_____

Street Address_____

City_____

State_____ Zip_____

Phone Number(_____)_____

For CompuServe Use ONLY

BAN: User ID: Processed:

Appendix C
Transaction And Premium Program Charges

Current rates can be accessed online by typing GO RATES from any "!" prompt.

CONNECT RATES (per connect hour)

	Prime/Daytime	Standard/Evening
300,450 baud	$ 6.00	$ 6.00
1200,2400 baud	$12.50	$12.50

Connect time is billed in one minute increments (1 minute/session minimum). Connect time rates do not include communication surcharges.

HOURS OF OPERATION (based on local time at location of network connection): Prime/Daytime, 8 a.m. to 6 p.m. weekdays. Standard/Evenings, 6 p.m. to 8 a.m. weekdays, all day Saturday-Sunday, announced CompuServe holidays. Service between 5 a.m. to 8 a.m. on as-available basis.

COMMUNICATION SURCHARGES (per connect hour)

	Prime/Daytime	Standard/Evening
CompuServe	$ .25	$ .25
Telenet® and Tymnet® from contiguous U.S.	$10.00	$ 2.00

Note: Additional access networks, rates and instructions can be found by typing GO LOGON from any "!" prompt.

MINIMUMS

There are no minimums associated with the basic CompuServe Information Service subscription. The following options have monthly usage minimums.

CHECKFREE billing option ..... $ 5.00/month minimum
Executive Service Option ..... $10.00/month minimum
(Includes CHECKFREE minimum if applicable)

MISCELLANEOUS CHARGES

Account Reactivation	$10.00 each
Hardcopy billing detail	$ 3.50/report
Returned CHECKFREE payment due to insufficient funds	$10.00 each
Service fee for foreign addresses	$10.00/month

ADDITIONAL CHARGES

The great majority—some 90%—of CompuServe services are available at basic connect rates. However, some value-added services have an additional cost associated with them. These services are identified below, grouped by product area. These services are identified online by a "$" on the menu choice.

ELECTRONIC MAIL

EasyPlex™	no additional charge
receipt requested feature	$ .25/request
multiple send feature	$ .10/2nd-10th request
EasyPlex to InfoPlex® transfer	$ .45/message
EasyPlex to MCI® Mail message transfer	$ .45 to $1.00/message
EasyPlex to domestic TELEX®/TWX® machines	$ .60/.65/300 characters

(Foreign TELEX/TWX charges are provided online.)

FINANCIAL/STOCK MARKET INFORMATION

MicroQuote

Current market and historical quotations: (rates apply to following products: Quick Quote, Pricing History, Commodity Pricing, Ticker Retrieval)

While the market is OPEN	$ .07/issue
End of day quotes	$ .02/issue
Historical daily/weekly/monthly quotes	$ .05/issue
CUSIP/ticker symbol lookup	$ .25/lookup

Appendix C
Transaction And Premium Program Charges

Dividends,splits,distributions,interest points	$ .15/issue
Portfolio Valuation	$ 1.00/valuation + .05/issue
Reports and Charts (see online information)	$ 1.00 each
Return Analysis	$ .50/report + .15/issue
Stock Market highlights	$ .10 to .50/report
Company Screening	$ 5.00/screen + .50/company reported
Security Screening	$ 5.00/screen + .25/security reported
Investment Support	
Disclosure/Spectrum	$ 5.00 to $13.00/report
Disclosure II	$ 2.00 to $5.00/report
Institutional Brokers' Estimate System (I/B/E/S)	$ .50 to $2.00/report
S&P Online	$ .25/company
Value Line Data Base II	$ .40 to $1.60/report
Futures Focus (Prime/Standard hours)	$20.00/$15.00/hour
Money Market Services	$ 2.00 to $5.00/report
News-A-Tron Market Reports	$ 1.25 to enter
OTC NewsAlert	$15.00/hour
Online Brokerage	
Quick Way® (Prime/Standard hours)	$14.00/$4.00/hour
Tickerscreen	$ .02/quote
GAMES AND ENTERTAINMENT	
You Guessed It! (contestants only)	$ 3.00/hour
Hollywood Hotline	$ 6.00/hour
Soap Opera Summaries	$ 6.00/hour
NEWS	
Executive News Service	$15.00/hour
REFERENCE/EDUCATION	
Academic American Encyclopedia	$ 7.50/month subscription*
EdVENT II	$15.00/hour
EPIE Educational Software Database (TESS)	$49.95/1 year subscription
Florida Corporations Access	$25.00/hour**
IQuest	$ 7.00/search; $2.00/abstract; $1.00/no hit; $ 4.00 to $25.00 surcharge for some databases
Microsearch	$10.00/hour
New Car Showroom	$ 1.20/comparison search; $.90/price one model
PaperChase (MEDLINE)	$24.00/hour
Peterson's College Guides (Prime/Standard hours)	$14.00/$7.00/hour
SUPERSITE (Demographic) Reports	$10.00 to $100.00/report
TRAVEL/AVIATION	
Aviation Weather	
All reports	$ .25 to enter
VIDTEX or EMI Weather Maps	$ .50/map
Educational Travel Connection Newsletter	$ 3.00/month subscription*
EMI Flight Planning	
Flight Plan including weather briefing	$ 1.00 to $6.00/plan
Enroute weather briefing	$ 2.00 maximum
Official Airline Guide (Prime/Standard hours)	$32.00/$21.00/hour

* Other subscription options are available. Check online.
**Subject to one $25.00/hour connect charge, plus any applicable surcharges.

Rates are effective June 1987

CompuServe®

CompuServe Incorporated
5000 Arlington Centre Boulevard
Post Office Box 20212
Columbus, Ohio 43220

An H&R Block Company.

CS-1261(07/87)

WARRANTY REGISTRATION CARD

Please completely fill out the information below and return this card to Prometheus Products Inc. so that your warranty will remain in effect.

Name: _____

Company: _____

Address: _____

City: _____ State: _____ ZIP: _____

Name of Product: _____

Date Purchased: _____

Serial Number: _____

Name of Dealer Purchased From: _____

_____

Complete Dealer Address: _____

_____

Other products you would like to see: _____

_____

Comments/Suggestions: _____

_____

_____

Please carefully read your warranty statement!

PLACE
STAMP
HERE

PROMETHEUS
PRODUCTS INCORPORATED

P.O. Box 230907 • Tigard, Oregon 97223

Now The Source gives you more PC power...for less.

Use the coupon below to save $29.95 when you join The Source. Plus, you'll receive a $60 usage credit that gives you up to 10 hours of free online time!

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Send this coupon or call 1-800-336-3366 to join The Source.*

The Source Information Network

Send no money. To sign up, just mail this coupon. Or call The Source toll-free at 800-336-3366* (in the continental U.S.) and give our representative the claim number on the back cover. (Collect calls accepted from Alaska, Canada and Hawaii.)

Claim number (from back cover)_____

☐ Yes, I want to join The Source and take advantage of your fee-waived membership offer and $60 usage credit.**

☐ Also send me the SourcePak users manual for the reduced rate of $12.95 (plus $3.50 postage and handling. Please allow two weeks for delivery.***) Charge to credit card below. Regularly $21.95.

Bill my SourcePak users manual (if ordered) and all charges on my account (including monthly minimums) to:

☐ Visa ☐ MasterCard ☐ Discover℠ ☐ American Express

Credit Card #_____(must be provided) Expiration date_____

Name_____

Address_____

City_____State_____Zip_____

Signature_____

Mother's maiden name (for online password verification)_____

PC type_____

Phone (day)_____(evening)_____

MAIL TO: The Source, PO Box 1305, McLean, VA 22102

The Source is a registered service mark of Source Telecomputing Corp.

Discover℠ is a service mark of Discover Card Services, Inc.

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*In Virginia, call 703-821-6666.

**A $10 monthly membership fee is applied toward usage. $60 usage credit will be applied toward usage charges and/or monthly membership fee in $5 increments monthly for the first 12 months of membership. Each month when the $5 credit is exhausted you'll begin paying per minute rates. PLEASE NOTE: To be eligible for your full $60 credit, you must use the service within 30 days of receiving your ID and password.

***International customers: Airmail charges outside U.S. and Canada added to your bill. Indicate shipping address changes above; cannot ship to P.O. Boxes.

Offer expires 12/31/88

We'll pay your $29.95 registration fee and give you $60 in free online time to get started.

Join The Source® now and get these valuable extras:

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— Exciting offers, discounts and contests during the year.

"The Source is…a smooth, sophisticated service with a lot of class."
—Alfred Glossbrenner, *The Complete Handbook of Personal Computer Communications*, St. Martins Press

Usage Charges

Here are the low basic per-minute charges when you are online with The Source:

	300 Baud	1200 Baud	2400 Baud
Non-Prime Time	.14	.18	.20
Prime Time	.36	.43	.46
Special Rates for Special Interest Groups via The Source:			
Non-Prime Time	.10	.13	.15
Prime Time	.18	.23	.25

Non-Prime Time 6 PM-7AM Monday-Friday
All day Saturday & Sunday

Prime Time: 7 AM-6PM Monday-Friday

For specific per-minute pricing for value-added services, call 1-800-336-3366 or refer to the online RATES service *(Type RATES at Command Level)*. A $10 monthly minimum is credited toward usage.

***Claim Number:* 6630010**

The Source® INFORMATION NETWORK

PO Box 1305 McLean, VA 22102

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