



## Product Groups Merge to Form Software AG Users' Group

Michael Berman of INCO, Inc., New York, was elected President of the newly formed International Software AG Users' Group. The new Group was formed in San Diego by the merger of the ADABAS Users' Group and the Complete Users' Group at their respective International Conferences, June 11-15, 1979.

Charles Rolls, State of Texas Highway Department, was elected Vice President, and Roger Martin, Allied Breweries, United Kingdom, was elected Secretary.

The new Software AG Users' Group organizational structure consists of an Executive Committee comprised of Regional Representatives and Product Representatives. The Regional Reps are elected in the local regions and the Product Reps are elected at the annual International Conference for each independent Software AG product line. Natural and ADABAS-M Product Reps will be elected at the next International Users' Conference. The officers of the Users' Group are elected by the Executive Committee.

A list of the newly-elected Software AG Users' Group Executive Committee is on page 2.

## PRESIDENT'S MESSAGE

Michael Berman  
INCO, Ltd.

I would like to thank all of the people who worked to make the San Diego conference the success it was along with Rob Macmillan who has done an outstanding job as president of the ADABAS Users' Group over the past two years; Roy Decker who was president of the Com-plete Users' Group; Steve Greaves; Ann Todd; Sheri Gotay; and Shirley Lake. I would also like to thank Daniel Skwarcan who has done an outstanding job with the Change/Enhancement system over the past years.

At the Conference it was decided to combine the ADABAS and Com-plete Users' Groups into a single Software AG Users' Group. This change should improve the workings of the User Group and allow it to strive for the common goals of the Group.

At the Boston Conference, an attempt was made to develop a User Profile System; however, many problems were encountered with the data entered and profiles were not produced. Due to the importance of having a User Profile System, we will try to put one in place this year.

In the next few days, you will be receiving a "User Profile Request" form. I am urging all users to fill out these forms and return them as soon as possible. All users who return these forms will receive a copy of the User Profile Report when it is available.

The Special Interest Groups played a very important role at the Conference. I would like all users to contact the S.I.G. chairpeople if they would like to contribute and/or receive information from these groups.

## "Best Speaker" Awards Presented at Conference

Software AG of North America, Inc. presented cash awards of \$1,000 for the presentation judged best by the conferees at the International Conferences.

Bob Becker from Foremost Insurance Company, Grand Rapids, Michigan, won \$1,000 as the Best Speaker at the Second International Com-plete Users' Conference in San Diego.

The balloting ended in a tie for the Best Speaker Award at the Seventh International ADABAS Users' Conference. Roger Martin and James Wetherbe were selected co-winners and split the \$1,000 Software AG prize. Roger Martin is from Allied Breweries, United Kingdom, and James Wetherbe is from Houston Oil and Minerals, Houston, Texas.

## International Software AG Users' Group Executive Committee

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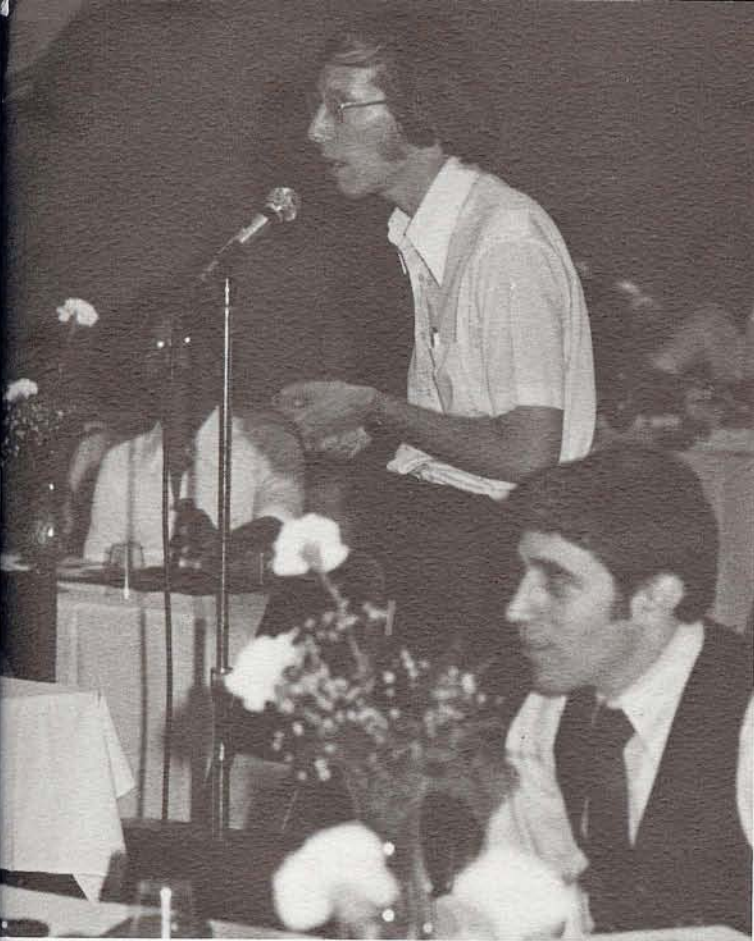
Mr. William Thornton, Change/Enhancement Coordinator  
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Mr. Ted Hillis, ADABAS Change/Enhancement Chairperson  
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Mr. Rob Macmillan, Former President, ADABAS Users' Group  
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Mr. Roy Decker, Former President, Com-plete Users' Group  
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Bob Becker, Foremost Insurance Company



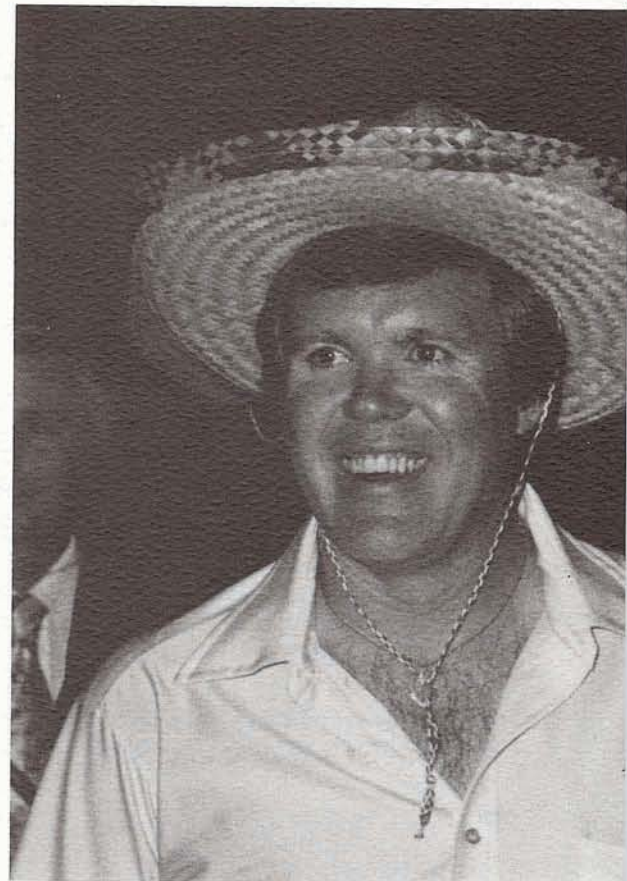
Alan Routhier, County of Sacramento Data Processing



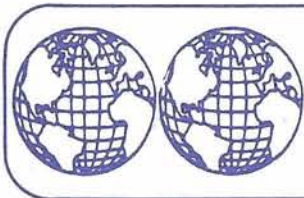
Roger Martin, Allied Breweries, Ltd



Don Sickle, North American Life Assurance Company



Jon Schmitt, State of California



## Software AG Regional Reports

### **EAST CENTRAL U.S. REGION**

Bob Becker  
Foremost Insurance Co.

An East Central U.S. ADAGROUP Regional Meeting was held on May 17, 1979 in Madison, Wisconsin, at the Concourse Hotel. Ten user sites were represented at the meeting. ADAGROUP business was the first item on the agenda.

During the business meeting, Bob Becker of Foremost Insurance was elected Regional Representative for the upcoming year.

Jim Bando of Verex Corporation presented a paper on the use of the ADABAS Dictionary at Verex.

Bob Becker addressed the attendees at the meeting on a methodology for ADAGROUP review of ADABAS internal design and changes. A proposal will be drafted on this topic and presented to the Executive Committee in San Diego.

A general discussion session followed with an interchange of ideas on Data Dictionary, Restart/Recovery and Performance.

The next East Central Regional meeting will be held in Chicago on September 20, 1979.

### **HAWAII REGION**

Kenneth M. Kojima  
Honolulu Federal Savings and Loan Association

On July 18, 1979 ADAGROUP-HAWAII held its first meeting of the year in the State Capitol building. Forty-three persons attended, representing ten State of Hawaii agencies and four ADABAS users.

Ken Kojima reported the activities in the Executive Committee meetings and the '79 San Diego Conference.

Pat Gilbert of the University of Hawaii gave presentations on a few key sessions from the Conference. They included ADABAS 3.2.1 VS 4.1 performance, Security by Value, Distributed Data Bases and some major discussions and concerns.

Roger Angell from the University of Hawaii provided the attendees with an insight as to the direction and importance of the Data Dictionary and presented the Dictionary System the University created.

David Del Rio of Software AG spoke on ADABAS Version 4.1 and how to efficiently utilize its new facilities.

Our next meeting is scheduled for October 24, 1979. The tentative agenda includes the experiences of an ADABAS-M installation.

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### **CALIFORNIA/NEVADA REGION**

Jon Schmitt  
County of Sacramento

The quarterly meeting of the California/Nevada Region (ADAWEST) was held at Sacramento County on May 18, 1979. The new Software AG technical representative, Mick Wokich, was introduced to the group. Interest had been expressed in the area of data administration and its interface with the DBA. Thus, the meeting started off with a roundtable discussion of this area and how it was being addressed by each user. The exchange of information pointed out the differences in each of the organizations and how they were really using ADABAS. It appeared to be of benefit to all.

The second item on the agenda was the Data Dictionary. Bob Preger of Software AG talked about the enhancements within the next release of the product. A discussion followed concerning whether or not these enhancements would relate to the immediate problems most of the users were having trying to use the dictionary product, and the reasons why users declined to use the dictionary. The third topic covered the area of change/enhancement voting — the problem being the limited time period to vote on so large a volume change/enhancement when many of them overlapped. Also the problem unique to the State of California — that many of the ADABAS users were not included in the voting process — was addressed and resolved. It was suggested that at each of the users' group meetings we go over specific components of the ADABAS software and develop change/enhancements that each member could identify. ADAWEST would then formulate a change/enhancement request that all members could identify. Individual voting could then be made based on the impact the change/enhancement had on the individual user. Basically, the users all agreed to this approach and it was decided we should begin with this format at the next users' group meeting.

The representative from the southern California users announced that due to the travel problems, the southwest users were going to formulate their own users' group. Most southwest users were unable to travel the 400-500 miles to Sacramento for the ADAWEST meeting. It was deemed desirable to establish a direct channel of communication between the two users' groups.

The final portion of the ADAWEST meeting was devoted to Natural. This was done at the request of Sacramento County. Sacramento County was having problems using their standard application programming language 'COBOL' and ADAMINT in a Com-plete environment. They were interested to see if any of their problems would be resolved by Natural. Bob Preger and Mick Wokich held a discussion on the concepts and facilities of Natural. This was followed by dialing into a computer in Reston for an actual demonstration. The ADAWEST meeting adjourned following the demonstration.

## EAST COAST REGION

Bob Taylor  
 Evans Products Company

As those of you who attended the International Conference are aware, I was elected as your Regional Representative. At the meeting, we decided to hold a one-day regional meeting in Washington, D.C. on the 17th of October at the National Education facilities. I am asking for volunteers to make 1/2 hour to 3/4 hour mini-presentations on topics of interest. As soon as an agenda is formalized, I will be sending it out. I urge any users who are interested in attending this meeting to let me know so that we can make final arrangements. If you have any other questions, please contact me.

## WEST CENTRAL REGION

Charles L. Rolls  
 Texas Department of Highways  
 & Public Transportation

The meeting held at the Airport Marina Hotel, Dallas, Texas, on Thursday, July 19, 1979 at 9:00 a.m., was conducted by Charles Rolls, Texas Department of Highways. The minutes were taken by Bob Holub, The Superior Oil Company.

Client companies represented at the meeting were:

Dallas County Community College District  
 Dallas County EDP  
 Computer Language Research  
 Texas Department of Highways and Public Transportation  
 City of San Antonio  
 Pennzoil  
 Shell Oil Company  
 Getty Oil Company  
 Superior Oil Company  
 Houston Oil and Minerals  
 Federal Aviation Administration  
 Software AG of North America, Inc.

University of Texas at Austin, a prospective company, was also represented.

The major topics discussed at this meeting were as follows:

Problem Resolution  
 ADABAS - Com-plete Users' Group Merger  
 Executive Committee Meeting  
 Houston Software AG Users' Meeting  
 ADABAS Retrieval  
 ADABAS 4.1 Conversion  
 Miscellaneous Information

Each of these topics will be discussed separately.

### 1. Problem Resolution

- The status of companies logging all problems reported to Software AG and the promptness of response was taken. Houston Oil and Minerals and Superior Oil reported

that Software AG's response had been good. We will continue to log all problems until after the new TSOP group in Denver becomes functional.

- All clients should have received the Problem Resolution Microfiche from Software AG by this time. Shell Oil and Pennzoil reported that they have not received it yet.
- It was announced that Paul Peterson will be heading up a secondary TSOP to be located in Denver, Colorado. This will be for the support of all customers from the Rockies to the Alleghenies. Working in this group as Technical Support Representatives will be:

Jane Weinkauff - Indianapolis, Indiana  
 Pat Cravens - St Louis, Missouri  
 Terry Jones - Houston, Texas  
 R.J. Thomas - Dallas, Texas

Two more openings currently exist for Technical Support Representatives in the secondary TSOP group.

At this time, there are no phone numbers for the Denver TSOP office. The phones should be in by September 1.

To get Technical Support, clients should continue to call the person that they have been calling all along. All Technical Support Representatives will be carrying TI terminals to provide Instant On-site Support. All requests for tapes, documentation, support, etc. should now go to Denver.

- SM-2 is the last maintenance level for Complete. Paul Peterson has a tape with SM-2 on it. Houston Oil and Minerals reported they have not received SM-2.
2. ADABAS - Com-plete Users' Group Merger
    - The International ADABAS and Com-plete Users' groups voted in San Diego to merge into one group to be known as the International Software AG Users' Group. Regional meetings will now include Com-plete users. It was decided at today's meeting to have all Com-plete discussions with the entire regional group present instead of providing a time for Com-plete users to breakout and discuss their topics.
  3. Executive Committee Meeting
    - At the last Executive Committee Meeting, a Design Review Group was proposed whereby representatives from the user community could become involved with the direction and design of a Software AG product before it was programmed and released. It was reported that Software AG was receptive to this proposal.
    - The current Executive Committee will be concerned with the formulation of new

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regions. Our Regional Representative, who is on a sub-committee for this purpose, asked for our comments on region size and representation at Executive Committee Meetings.

- Next year's International Software AG Users' Conference (to be held in Houston or Denver) has been set for 4 days. Our regional group decided today that their preference was for a 4-day conference in 1981. Charles Rolls, our Regional Representative, will let our preference be known at the next Executive Committee Meeting.
  - A Product Development Milestone Schedule was distributed at the last Executive Committee Meeting. Charles Rolls will send a copy of this schedule to those installations who ask for it. He will send a copy to Superior Oil, who will distribute it to all Houston area users.
4. Houston Software AG Users' Meeting
- Minutes of a breakfast meeting held by Houston Software AG users were passed out and discussed. The purpose of the breakfast meeting was to discuss our problems and our needs and to encourage active participation within our regional meetings.
  - Every Software AG installation will receive a User Profile Form from Software AG. These should be filled out and returned as soon as possible so that the collection of user profiles can be out by mid-year. These profiles will be updated once per year.
5. ADABAS Retrieval
- Getty Oil, Superior Oil, and the Texas Highway Department expressed interest in continued use and support of the Simon Fraser Interface between Mark IV and ADABAS. Charles Rolls will forward a letter to Software AG asking if Software AG will support and maintain the interface.
  - Several users reported that their ADACOM problems were not being solved immediately by Software AG, but instead they were being told to wait until the next release of ADACOM. Tom Berrisford advised that we not plan on using ADACOM until the next release, which is scheduled for October.
  - There are some modifications available to ADASCRIP+ Version 1.1. These modifications will fix 28 known problems and should have been included with the Problem Resolution Microfiche.
  - Houston Oil and Minerals suggested that there be a user exit for ADASCRIP+ in the Complete driver for security checking on the user. Getty Oil said that they have a special macro which will do the SIGNON for the user. Pennzoil suggested setting up a dummy SIGNON which, when invoked,

would do nothing and, thus, not allow unauthorized access.

## 6. ADABAS 4.1 Conversion

- ADABAS Version 4.1 will be pre-released to about 15 installations in September, 1979. If your installation desires to be a pre-release site, send a letter to Ed Forman and copy Tom Berrisford and Paul Peterson.
- ADABAS Version 4.1 will have several threads available for command processing. Update commands will always go through Thread #1. Complex commands will go into a queue until a thread is free. Thread assignment will be geared up for simple command users. An installation cannot control thread assignment. The MPM log will indicate for each detail command the thread used to process that command. The MPM log will also show the number of commands which went through each thread. This will help us determine if we need to increase or decrease the number of threads.
- In ADABAS Version 4.1, a batch user which issues an OPEN with ACC = \_\_\_\_\_ or UPD = \_\_\_\_\_ will automatically become an ET user. If the batch user uses the same files as the TP system, then the batch user must be an ET user. For this situation, there are two alternatives:
  - a. Make the batch programs into exclusive users so that no one else may access the files while the batch program is running;
  - b. Code the batch program to process transactions like an ET user.
- For programs issuing direct calls, the documentation says certain fields in certain buffers are "not used" when in fact they must be blank. Paul Peterson said that Version 4.1 will be even stricter and suggested that blanks be put in any place where the documentation says "not used".
- There will be two user exits in ADABAS Version 4.1. These exits will be:
  - a. Before the command is processed;
  - b. After the command is processed.
- Tom Berrisford will send to all installations a book on ADABAS Version 4.1 as it relates to TP programs and what actually occurs during time-outs.
- Paul Peterson indicated that ADAM files under Version 4.1 are slow to load and fast to update. Once a file is loaded for use by ADAM, it cannot take a data storage extent simply because the number of blocks originally allocated is used in the randomizing algorithm. There are two ways to get around this problem:
  - a. Re-load the file;
  - b. Shut the ADAM key off (not documented).

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- Version 4.1 code should require less space in storage. Buffer sizes will be larger, however, and with 3 threads running in the MPM, the amount of storage should come out about the same as what is running today.
- The work file under Version 4.1 will be larger. For comparison purposes, if the work file is now 30 cylinders, it might require 50-60 cylinders under 4.1.
- The ADABAS interface to Com-plete should not change. For ADAMINT programs, CALLADA = NO should be used.
- The ADABAS MPM under Version 4.1 will only be a queueing mechanism or a driver module. All of its functions prior to Version 4.1 will be internal to ADABAS under Version 4.1. The SVC under 4.1 will be a load module with no source. The link routines will probably be supplied in source form.
- Software AG's policy of release support is that they will always support 2 releases. Therefore, Version 3.2.1 will continue to be supported until the version which replaces 4.1 is released.

#### 7. Miscellaneous Information

- Tom Berrisford passed around a copy of the MIS Quarterly which contained Jim Wetherbe's article on Hueristic Development. Tom agreed to send a copy to everyone who indicated they wanted one.
- Tom Berrisford will initiate the creation of an ADABAS Application Catalog for the West Central Region. He will be sending the forms to each installation.
- The Data Pro Survey has been out for 1 week. It was mailed to the person in your installation who is a subscriber to DATAMATION and who has the highest sounding title.

#### User Profiles

Profiles of their ADABAS installations were presented by Tom Ballard - Dallas County Community College District, Vince Sortile - Dallas County EDP, and Glenn Hevron - Computer Language Research.

#### Action Items

1. Bring your completed forms for the ADABAS Application Catalog to the next regional meeting.
2. Locate the Data Pro survey form sent to your installation and spend some time with it.
3. The next meeting of the ADABAS West Central Region users will be held in Houston and hosted by the Superior Oil Company. Tom Berrisford will try to get the Software AG class on Version 4.1 Facilities and Conversion as a 1-1/2 day class to be the presentation portion of our meeting. There will be a fee for this of

approximately \$150 per person. A general business meeting will be held for another 1/2 day with a possible presentation on the evening in between. This will occur in late September or early October.

#### SOUTH AFRICAN REGION

John Baker  
 Standard Bank of South Africa, Ltd.

On 28 March representatives from 6 of the 8 ADABAS users in South Africa attended a meeting arranged by the South African agents for ADABAS, Systems Programming Limited (SPL).

The 'Get to know you' meeting was very successful and it was decided to form a Regional Group, affiliated to the International Group, in order to establish close communication and co-operation between users in South Africa and to establish communications with Groups worldwide.

The results of the election of committee members was:

John Baker (Standard Bank of South Africa Ltd.) -  
 Chairman  
 Rawdon Simon (AA Mutual Insurance Association)  
 Gert Lotz (Public Service Commission)  
 Johann Oosthuizen (South African Railways)  
 Peter Feasey (Shell South Africa (PTY) Ltd.)

The nitty gritty's have still to be worked out, but we intend to have 2-4 full meetings per year and we want to appoint a liaison person for each Special Interest Group.

The committee would like to express their sincere thanks to SPL for arranging the first meeting.

#### JAPAN

Yasuo Shimizu  
 Fuji Photo Film Co., Ltd.

The fifth JADAGROUP meeting was successfully held on July 23 in Tokyo, and to my honor, I was elected President. It is a pleasure to see the growth of the number of users in Japan and the Far East since we at Fuji Photo Film Co. purchased ADABAS in 1977 as the fourth installation in Japan.

DBA's here formed a group called ASIGN (A Special Interest Group of Nippon) and are holding meetings every month to exchange information among users and discuss whatever problems they may have with Software AG.

We learned of the great success of the ADABAS/Com-plete Users' Conference in San Diego. When the ADABAS community expands,

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we can confirm that we made a superb decision. It is our sincere hope that the JADAGROUPs all over the world will further grow and become a stronger pressure group to facilitate enhancements of Software AG products.

Although there is a language barrier between Japan and the U.S.A. and other countries, we sincerely wish that the International Users' Meeting will be held in Japan in the future.

I would like to keep you informed of the development of the JADAGROUP so that we can share common experiences.

#### UNITED KINGDOM REGION

Roger Martin  
Allied Breweries, Ltd.

On May 23rd, 1979, a UK Region meeting was hosted at Burton-on-Trent. Of the 26 current UK Users, 16 were represented together with two prospective users — resulting in an attendance of 27 people. The following activities were pursued:

1. Formation of an Executive Committee (4 people — Chairman, Secretary and two others) to meet midway between User Group meetings and perform the following tasks:

- to discuss the minutes and review the previous meeting;
- to form the agenda and arrange presentations for the next meeting;
- to take executive action and progress any problems on behalf of the Group.

The following officials were elected for the year, commencing June 1979:

Chairman - Roger Martin (Allied Breweries (UK, Ltd))  
Secretary - Peter Spooner (ICI Organics)  
Members - Jeff Thomas (Chrysler UK)  
- Mick Wells (Midland Bank)

2. The four people attending the San Diego Conference were asked to pursue the following points:

- ADABAS read only Source Code for ASL
- Status of Natural
- ADACOM — 'End User' facilities
- Progress on Data Dictionary Systems
- Availability of International User Profiles

3. Bob Hall (ICI Plastics) reviewed the current position of the proposals for an Escrow Agreement with Software AG.

4. A list of UK Convenors for the Special Interest Groups was agreed with the instruction to make contact with the appropriate SIG chairman after San Diego.

5. A further 4.1 seminar run by ASL was planned for August 1979.

6. Peter Spooner presented the DBA function as it operates at ICI Organics Division. This was a central group with responsibilities for all aspects of database, including file design and all utilities. A discussion followed on the differences in approach to the DBA function in other companies.

7. A presentation was given by George Gosline (ASL) on the facilities of Instant On-site Support, together with some of the features of Com-plete.

Next meeting is scheduled for September 13th at Henry Wiggin (Hereford). The main topics will be users' experience with:

- Natural
- Datamanager

On May 30th, 1979 a meeting took place for the Senior Managers from UK ADABAS sites. Prof. Peter King spoke on the 'Academic View of Future DB/DC Software' and Peter Schnell and John Maguire spoke on the 'Long Term Development Plans of Software AG.' Two Users (Midland Bank and Allied Breweries Ltd.) also presented their long term plans.

#### AUSTRALIA

John Lord  
Tooth & Company, Ltd.

In Australia, ADABAS currently has four contracted users and three users involved in trials. One year ago there were none.

As we, from down under ada-need to be heard back at Software AG, SPL (Australia) was only too happy to assist in the setting up of an Australian ADAGROUP. The inaugural meeting will be held within the next few months and, until then, John Lord of Tooth & Co., Sydney, will be the interim International ADABAS Users' Group Representative.

Tooth & Co. Brewers, Wines & Spirits merchants and property owners were the first in Australia to install ADABAS commercially. Hard on its heels were the National Library, Dulu and Overseas Containers.

When Tooth & Co. decided to go database for its system replacement and enhancement, ADABAS was chosen as its DBMS. Since the completion of trials, considerable time and effort has been spent in creating the DB/DC environment.

CICS was already being used and it was decided to stay with it using Version 1.4 but to look at an extension package called Central Software. This package would initially be used for its message-formatting functions. At Tooth all recovery will be kept within ADABAS, and CICS conversational mode will be avoided whenever possible. To provide a message-switching capability, "Inwell/Outwell," was developed in consultation with SPL

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(Australia). The Inwell/Outwell concept provides a transaction-switching queue for the storage and retrieval of data and is fully recoverable under ADABAS. These packets of data may be stored or accessed by CICS transactions and/or batch programs.

With Inwell/Outwell, CICS, Central Software, and in-house written interfaces and protocol checkers, we have provided a fully recoverable DB/DC environment.

All development guidelines and interfaces have been designed for the recovery features of 4.1 and here that classic quote by Geoff Holloway, SPL (Australia), "I'm looking forward to 4.1," springs to mind. Perhaps a word in the ear of Software AG, because we want to design new systems for 4.1 NOW. So how about it, Software AG? You get 4.1 off and running and we'll do the same for ADAGROUP in Australia. Remember, SPL has already done it for ADABAS in Australia.

#### ITALY

Elio Caramagna  
S.A.I.

The Fifth Italian ADAGROUP meeting was held on June 29, 1979 at Cedacrinord in Collecchio (Parma). There were 14 attendees representing 6 of the 16 ADABAS installations.

The discussion included presentation from the Cedacrinord of his integrated data base and distributed processing with the tools used in system developing (ADAMINT, ADACOM).

A report of the San Diego Conference was given by Mike Coane of Selesta Sistemi, the Italian representative of Software AG. The attendees were very interested in the changes in Version 4.1 of ADABAS and of the new features of Natural and Com-plete.

In the afternoon there was a discussion on the On-site Support and on the new ADAGROUP Constitution and By-laws.

Our next meeting was set for the end of September at Euratom in Ispra.

#### GERMANY REGION

Lutz Heymer  
Helaba Frankfurt

As a result of the 6th International ADABAS Users' Conference held in Munich, several Special Interest Groups have been formed within the German-speaking region. From the seven originally planned SIG's, five groups have been left:

1. ADASCRIP/ADASCRIP+
2. Data Dictionary
3. Performance
4. TP
5. Utilities/DBA-Tools including Restart/Recovery.

Because of the revision of the ADABAS Version 4.1 Milestone Schedule as outlined by Kenneth D. Rardin in the ADABAS Newsletter No. 3 (March 1979), we decided to postpone our regional meeting, which was intended to be held early in May, to the end of November. Thus we will meet on the 29th and 30th of November in Vienna/Austria, which will be the ninth meeting in total since the foundation of the German ADABAS Users' Group. In the meantime our regional activities concentrated on the work within the SIG's.

Topics of the Vienna meeting will include reports of the German Version 4.1 test installations as well as presentations by the various SIG's. Another topic of great interest will be the question: "What comes after Version 4?" We expect Software AG to report on future plans concerning distributed processing as indicated by Kenneth D. Rardin in the above mentioned Newsletter as well as on the operation of ADABAS with "non-BDAM-supported" disks (conversion to VSAM?).

German users await eagerly the conceptual distributed processing plan announced by SAGNA to be released by September 1979.

#### NEW YORK CITY/TRI-STATE REGION

Michael Berman  
INCO, Ltd.

The first New York City/Tri-State Regional meeting was held on August 21st at the New York Princeton Club. Michael Berman presented a report of the last Executive Committee meeting held in San Diego. Al Knott, one of the Tri-State technical representatives, announced his resignation. He is beginning studies leading to a degree in law. Michael Jakes introduced Colin Moore, a former New York ADABAS user, who will be the Vice President of the new consulting service of Software AG. A video tape of Peter Page's Natural presentation was shown. Made at the conference in San Diego, this was screened for those users who could not make it to California. At the request of the Tri-State users, the video tape of ADABAS-M will be shown in conjunction with its release. The New York Princeton Club will be primary site of future Tri-State users' meetings.



Registration welcomes you to Town and Country, San Diego, California.



Kenneth D. Rardin thanks Roy Decker for an excellent year as Com-plete Users' Group President at the Awards Banquet.



Mangos, raspberries, pineapples?



Dieter Keppler meets a new friend at the fiesta.

## INTERNATIONAL USERS' CONFERENCE ROUND-UP

### SAN DIEGO REMINISCENCE

By all accounts and measures, the ADABAS and Com-plete Users' Conferences were a smashing success! Just ask any of the 550 conferees —

For five days, users and designers shared experiences. Workshops and Special Interest Groups refined their goals and Software AG announced future plans and product enhancements.

The Users' Groups merged, elected new officers and voted on future convention sites.

Evening highlights included cruising on Mission Bay, dancing to the music of the San Diego Youth Orchestra and swimming with Shamu.



A little bit of Mexico.



Margueritas, pinatas and mariaches for a Mexican Welcome party for ADABAS users.



Cruising on Mission Bay to the Com-plete Awards Banquet.



Enjoying the warm California sun.



Mr. Louis J. Campiglia, conductor of the San Diego Youth Symphony.



The Emperor's Waltz at the ADABAS Awards Banquet.



Leis from Hawaii to compliment a Polynesian evening at Sea World.



A leader needs no introduction!



Companions enjoy a fashion show in La Jolla.



John Maguire presents Rob Macmillan with a token of appreciation for an outstanding year as ADAGROUP President.



Newly elected President, Michael Berman, with Jim Forestell at the San Diego Zoo.



"What DBMS do you use?" John Maguire never quits selling even at a relaxing evening at Sea World.



## New Software AG Users Around the World

### AUSTRALIA

**Overseas Containers Australia Ltd.**  
38 Bridge Street  
Sydney NSW 2000 Australia  
(2) 20575

Technical Contact:  
Ms. Ann Penn

Software: ADABAS  
Hardware: 370/135  
Operating System: DOS/VS  
Teleprocessing System: CICS

**Tooth and Company Limited**  
12th Floor, American Express Tower  
CNR King and George Streets  
Sydney NSW 2000 Australia  
(2) 20941

Technical Contact:  
Mr. John Lord

Software: ADABAS  
Hardware: Amdahl V5  
Operating System: MVS  
Teleprocessing System: TSO/CICS

### EUROPE

**Bundesanstalt fuer Wasserbau**  
Kussmaulstrasse 17  
D-7500 Karlsruhe  
West Germany  
0721-75011

Technical Contact:  
Mr. Bonin

Software: ADABAS  
Hardware: SIEMENS 7755  
Operating System: BS 2000

**EDEKA Datenverarbeitungsges. mbH**  
New York Ring 6  
D-2000 Hamburg - 60  
West Germany  
040-6371

Technical Contact:  
Dr. Knopf  
Mr. Goetsch

Software: ADABAS  
Hardware: IBM 370/158  
Operating System: OS/VS1  
Teleprocessing System: Com-plete

**Georg Fischer AG**  
Muehlealstrasse 10  
CH-8201 Schaffhausen  
West Germany  
004153-811111

Technical Contact:  
Mr. Egk

Software: ADABAS  
Hardware: IBM 370/158  
Operating System: OS/VS1  
Teleprocessing System: CICS

**Heimstatt Bauspar-Aktien-Gesellschaft**  
Haydnstrasse 6  
Postfach 151 020  
D-8000 Muenchen - 15  
West Germany  
089-53821

Technical Contact:  
Mr. Reinhardt

Software: ADABAS  
Hardware: IBM 370/145  
Operating System: DOS  
Teleprocessing System: CICS,

**Kernforschung Karlsruhe GmbH**  
Abt. DV und Instrumentierung/ADI  
D-7514 Karlsruhe Eggenstein -  
Leopoldshafen  
West Germany  
07247-821

Technical Contact:  
Mr. Antonczyk

Software: ADABAS  
Hardware: IBM 3033  
Operating System: OS

**Land Berlin**  
Rechenzentrum des LED  
Krankenhaus Spandau  
Lyonner Strass 12  
D-1000 Berlin  
West Germany  
030-867.6047

Technical Contact:  
Mr. Eis

Software: ADABAS  
Hardware: SIEMENS  
7.748  
Operating System: BS 2000

**LOB Rechenzentrum GmbH**  
Leonrodplatz 2  
D-8000 Muenchen  
West Germany  
089-181006

Technical Contact:  
Mr. Matthes

Hardware: IBM 370/145  
Operating System: OS/VS1  
Teleprocessing System: Com-plete

**Ministerium fuer Ernaehrung,  
Landwirtschaft und Umwelt Baden-  
Wuerttemberg**  
Rechenzentrum  
Spittlerstrasse 8  
D-7000 Stuttgart - 13  
West Germany  
0711-21551

Technical Contact:  
Dr. Erlenspiel

Hardware: IBM 370/158  
Operating System: OS/VS1  
Teleprocessing System: Com-plete

**Polygram Record Service GmbH**  
Klusriede 26  
Postfach 26  
D-3000 Hannover-Langenhagen  
West Germany  
09-24077

Technical Contact:  
Mr. Werner Matuschke

Software: ADABAS  
Hardware: SIEMENS 7760  
Operating System: BS 1000  
Teleprocessing System: COSMOS

**Rasselstein AG**  
Koblenzer Strasse  
D-5470 Andernach  
West Germany  
02631-811

Technical Contact:  
Mr. Braukmann

Software: ADABAS  
Hardware: IBM 370/138  
Operating System: DOS/VS  
Teleprocessing System: CICS

### FAR EAST

**Sumitomo Metal Industries, Ltd.**  
3 Hikari  
Kashima-cho, Kashima-gun  
Ibaragi-ken, Japan  
028-998-2-2111

Technical Contact:  
Mr. Yutaka Tanaka

Software: ADABAS  
Hardware: IBM 3033  
Operating System: MVS  
Teleprocessing System: Home-made

Application: Steel Mill Control System,  
having many subsystems,  
is under development



**New Software AG**  
**Users Around**  
**the World**

**Takeda Riken Industry Company, Ltd.**  
1-16-1 Fujimi  
Gyoda-shi, Saitama-ken, 361, Japan  
048-554-8434

Technical Contact:  
Mr. Kazuhiko Fujimatsu

Software: ADABAS  
Hardware: FACOM M-160  
AD

Operating System: OSIV/F4  
Teleprocessing System: AIM/DC

Application: Technical Information  
Management System —  
under planning

**DOW Chemical Company**  
Oyster Creek Division  
P.O. Box BB  
Freeport, Texas 77541  
(713) 238-9896

Technical Contact:  
Mr. Ray Senesac

Software: ADABAS  
Hardware: 370/138  
Operating System: OS/VS1  
Teleprocessing System: CICS

**Hughes Aircraft Company**  
Radar Systems Group  
2230 Imperial Highway  
4th Floor, Rockwell Building  
El Segundo, California 90245  
(213) 648-0069

Technical Contact:  
Mr. David Berg

Software: ADABAS  
Hardware: 370/158  
Operating System: MVS  
Teleprocessing System: Com-plete,  
TSO

Application: Engineering

**Massachusetts General Hospital**  
200 Charles River Plaza  
2nd Floor  
Boston, Massachusetts 02114  
(617) 726-2172

Technical Contact:  
Mr. Sanford Isaac

Software: ADABAS  
Hardware: IBM 370/145  
Operating System: VS1  
Teleprocessing System: Com-plete

**Ray-O-Vac**  
101 E. Washington Street  
Madison, Wisconsin 53703  
(608) 252-7608

Technical Contact:  
Mr. Bernard Conner

Software: ADABAS  
Hardware: 370/148  
Operating System: DOS/VS  
Teleprocessing System: CICS

**Uni-Coll Corporation**  
3401 Science Center  
Philadelphia, Pennsylvania 19104  
(215) 387-3890

Technical Contact:  
Mr. David S. Workman

Software: ADABAS  
Hardware: 370/168  
Operating System: MVS  
Teleprocessing System: CICS

**University Hospital**  
**University of California at San Diego**  
225 Dickinson Street  
San Diego, California 92103  
(714) 294-5990

Technical Contact:  
Mr. Ted Uyeda

Software: ADABAS  
Hardware: 370/158  
Operating System: DOS/VS  
Teleprocessing System: CICS

Application: Various hospital applica-  
tions; initial personnel  
system

**University of California at Riverside**  
Computing Center  
P.O. Box 112  
Riverside, California 92521  
(714) 787-4608

Technical Contact:  
Ms. Alice Hunt

Hardware: IBM 370/155  
Operating System: OS/MVT  
Teleprocessing System: Com-plete

**University of Utah**  
State of Utah  
150 Park Building  
Salt Lake City, Utah 84112  
(801) 581-3303

Technical Contact:  
Mr. Bernie Schmertz

Software: ADABAS  
Hardware: 370/145  
Operating System: VS1  
Teleprocessing System: Com-plete

## NORTH AMERICA

**Block Brothers**  
1030 West Georgia  
Vancouver, British Columbia  
Canada D6E 2Y3  
(604) 685-3474

Technical Contact:  
Mr. Carlyle Hendrickson

Software: ADABAS  
Hardware: 370/148  
Operating System: VS1  
Teleprocessing System: Com-plete

**Chemical Abstract**  
2540 Olentangy River Road  
Columbus, Ohio 43220  
(614) 421-6940, ext. 2070

Technical Contact:  
Mr. Allan Driskell

Software: ADABAS  
Hardware: 370/168  
Operating System: MVS  
Teleprocessing System: TSO

**Daniel Construction Company**  
Daniel Building  
Greenville, South Carolina 29602  
(803) 298-3722

Technical Contact:  
Mr. Jay Craft

Software: ADABAS  
Hardware: 370/145  
Operating System: OS/VS1  
Teleprocessing System: Com-plete

## SOUTH AMERICA

**Comision Nacional de Energia Atomica**  
Avda. Libertador 8250  
1429 Buenos Aires, Argentina  
(541) 755-0234

Technical Contact:  
Dr. Tito Suter

Software: ADABAS  
Hardware: 370/158  
Operating System: VM/VS1  
Teleprocessing System: CICS

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## Regional Representatives

### NORTHWEST U.S. & WESTERN CANADA REGION

Mr. Douglas Hart  
Washington State Administration for Courts  
Information Systems Division  
Temple of Justice  
Olympia, Washington 98504  
(206) 753-3365

### NEW YORK CITY/TRI-STATE REGION

Mr. Michael Berman  
International Nickel Corporation, Ltd.  
1 New York Plaza  
New York, New York 10004  
(212) 742-4180

### EAST COAST REGION

Mr. Bob Taylor  
Evans Products Company, Homes Group  
1777 Walton Road  
Dublin Hall, Suite 200  
Blue Bell, Pennsylvania 19422  
(215) 628-4800

### HAWAII REGION

Mr. Kenneth Kojima  
Honolulu Federal Savings and Loan  
188 Merchant Street  
Honolulu, Hawaii 96822  
(808) 546-5049

### EASTERN CANADA & UPPER NEW YORK REGION

Mr. Ted Hillis  
The Consumers' Gas Company  
500 Consumers' Road, P.O. Box 650  
Scarborough, Ontario, Canada M1K 5E3  
(416) 492-5089

### EAST CENTRAL UNITED STATES REGION

Mr. Bob Becker  
Foremost Insurance Company  
5800 Foremost Drive, S.E.  
Grand Rapids, Michigan 49501  
(616) 942-3364

### WEST CENTRAL UNITED STATES REGION

Mr. Charles Rolls  
State Department of Highways & Public  
Transportation  
State of Texas  
38th & Jackson  
Austin, Texas 78701  
(512) 475-7173

### CALIFORNIA/NEVADA REGION

Mr. Jon Schmitt  
State of California  
Teale Data Center  
2415 1st Avenue  
Sacramento, California 95814  
(916) 322-3713

### ROCKY MOUNTAIN REGION

Mr. Nick Gangwish  
Jefferson County Public Schools  
13300 W. Ellsworth  
Golden, Colorado 80401  
(303) 988-5810

### UNITED KINGDOM

Mr. Roger Martin  
Allied Breweries, Ltd.  
Station Street  
Burton-on-Trent  
Staffordshire, England  
0283-45320, ext. 2649

### GERMANY

Mr. Lutz Heymer  
Hessische Landesbank - Girozentrale  
Postfach 3163, Junghofstrasse 18-26  
6000 Frankfurt am Main 1  
(0611) 132-3403

### SWITZERLAND

Mr. Dominic Renaud  
Centre de Calcul Electronique  
de l'Administration Federale  
Hallwylstrasse 15  
3003 Bern Switzerland  
(031) 618783

### ITALY

Mr. Elio Caramagna  
S.A.I.  
Via Marengo, 15  
10126 - Torino, Italy  
(011) 65621

### SOUTH AFRICA

Mr. John Baker  
Standard Bank of South Africa Ltd.  
P.O. Box 62167, Marshalltown  
Johannesburg, 2107 South Africa  
(011) 836-9271

### SOUTH AMERICA

Mr. Paulo de Azambuja Rodrigues  
Embratel  
Rua Senador Pompeu, No. 119 S/904  
Rio de Janeiro, Brasil  
(021) 221-8182, R. 942

### AUSTRALIA

Mr. John Lord  
Tooth and Company Ltd.  
12th Floor, American Express Tower  
CNR King and George Streets  
Sydney NSW 2000 Australia  
(2) 20941

### JAPAN

Mr. Yasuo Shimizu  
Fuji Photo Film Co., Ltd.  
2-26-30 Nishi-Azabu, Minato-ku  
Tokyo 106 Japan  
(03) 406-2777

# ADABAS

# PRODUCT NEWS

the Adaptable DATA Base System



## Editor's Notebook

Jon Schmitt  
County of Sacramento

We all returned home from the San Diego experience thoroughly dazzled by Software AG.

From the time we awoke in the morning until we fell exhausted in our beds at night, we were fed, educated, entertained, talked to, listened to, and just generally kept busy. For those of us that had been to a prior Users' Conference, it was obvious that Software AG had outdone themselves once again. The users' presentations seemed better than ever, although there was some repetition from previous years. The quality of presentations was up, with the large "Advent" video screens a definite plus.

With the goal of the Users' Conference to exchange information, I am sure we accomplished that. I talked to many a user who was headed home convinced he or she now had the answer to their problems. The long awaited release of Version 4.1 is still awaiting, although things look more promising than ever.

ADACOM is installed all over, albeit some minor bugs are popping up. Software AG has responded with fixes, and ADACOM looks like another quality product. It is quickly gaining widespread use and acceptance out here on the West Coast.

Now for some serious talk. **What's happening out there?**

You users must remember that this is your Newsletter, and we on the Newsletter Staff need to hear from you, the users.

What's your new application?  
What are your problems?  
What is working for you?  
How is (ADACOM, Natural, Com-plete, Release 4.1 of ADABAS, etc.) doing at your site?

All we need is a short narrative on a subject related to a Software AG product, and we will print it as is, expand on it, or completely rewrite it using your facts. Give me a call, drop me a line, let me hear from you! This is my first attempt at Editor of a Newsletter this size, and I need your input.

My mailbox is always open, so to speak, and I'll see you next time.



Suzan Schultz, past ADABAS Newsletter Editor, accepts award from John Norris Maguire.

## Product Rep's Report

Suzan Schultz  
American Electric Power

We are anxiously awaiting the results of the reorganization of Software AG. We expect great improvement in release dates accuracy and a problem resolution procedure that resolves problems rapidly and notifies other users of the solutions.

Since the ADABAS Product Representative is a new position, I would like feedback about user experiences. I feel that the APR should be a central clearing office for all problems dealing with ADABAS support. Special Interest Groups concerned with Data Dictionary, ADACOM and ADASCRIP+ should forward their problems. Users' experiences with promised items like reorder associator should be sent. Thus the APR will be able to approach Software AG with full knowledge of the user communities' needs and problems.

To provide all this, I need your support. Please send me all information pertaining to ADABAS product performance.



## ADABAS CICS-BATCH-CICS Interface Developed in Australia

P. Thorn  
SPL (Australia)

A Sydney ADABAS user (OS) commissioned SPL (Australia), the ADABAS Agents, to provide a data interface between CICS transactions and batch programs. This was required as a replacement for the IMS Batch Message Program facilities, and also to enable updates to the various master files which would normally be performed by the CICS transactions with all the associated time and resource overheads to be done by a batch process at a convenient time. Security of data and recoverability were, therefore, important considerations which made such possible solutions as CICS intrapartition data undesirable.

A simple data entry transaction (or series of pseudo conversational transactions) stores the supplied data onto an ADABAS communication file (via the COBOL 'INWELL/OUTWELL' interface program), directed to an appropriate batch validation and/or update process. This batch process extracts these 'packets' of data, performs any required validation, and updates the appropriate ADABAS (or other) files. If required, the batch program can store feedback information, such as reports, on the same ADABAS communication file for extraction by a nominated CICS user and transaction ID, or even another batch process.

Since the various batch processes are controlled by the presence of these 'packets' of data, they may be initiated at the start of the day and 'scavenge' continuously. This provides a very efficient feedback to the online user at minimal resource cost.

The same 'INWELL/OUTWELL' service program is used by both CICS transactions and batch processes and offers such facilities as:

'PUTFIRST' which identifies the first record of a new 'packet' of data addressed to a nominated destination, such as a batch program name or CICS user and transaction ID.

'PUTNEXT' record of the current data 'packet'.

'GETFIRST' record of the next available 'packet' addressed to me (having my destination).

'GETNEXT' record from the current packet.

'ENDPGM' which is an explicit request to release for processing (or mark as processed) the current 'packet'.

[Continued on page 17]

## ADABAS Special Interest Group Chairpersons

DATA DICTIONARY  
Ms. Virginia Sullivan  
International Nickel Corporation, Ltd.  
1 New York Plaza  
New York, New York 10004  
(212) 742-4165

DBA/TOOLS  
Ms. Ellen Kasun  
Hewlett-Packard  
Loveland Instrument Division  
P.O. Box 301  
Loveland, Colorado 80537  
(303) 667-5000

DOS  
Mr. John Kaye  
City of Milwaukee  
200 E. Wells Street, Room B-8  
Milwaukee, Wisconsin 53202  
(414) 278-3877

PERFORMANCE  
Mr. Bob Becker  
Foremost Insurance Company  
5800 Foremost Drive, S.E.  
Grand Rapids, Michigan 49501  
(616) 942-3364

RESTART/RECOVERY  
Mr. Bob Taylor  
Evans Products Company, Homes Group  
1777 Walton Road  
Dublin Hall, Suite 200  
Blue Bell, Pennsylvania 19422  
(215) 628-4800

RETRIEVALS/INTERFACES  
Ms. Dottie Butts  
Department of Energy  
Room 5222  
2000 M Street, N.W.  
Washington, D.C. 20461  
(202) 634-2079

PUBLIC SECTOR  
Mr. William Belisle  
State of California  
Department of Youth Authority  
4241 Williamsborough Drive  
Sacramento, California 95823  
(916) 322-3713

EDUCATION/DOCUMENTATION  
Mr. John Kaye  
City of Milwaukee  
200 E. Wells Street, Room B-8  
Milwaukee, Wisconsin 53202  
(414) 278-3877

ADAMINT  
Vacant



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Mr. John A. Kaye, Data Base Specialist  
City of Milwaukee  
Central Electronic Data Services Department  
City Hall — Room B-8  
200 East Wells Street  
Milwaukee, WI 53202

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Mr. John A. Kaye, Data Base Specialist  
City of Milwaukee  
Central Electronic Data Services Department  
City Hall — Room B-8  
200 East Wells Street  
Milwaukee, WI 53202

## ADABAS Education SIG Questionnaire

1. Our organization has developed in-house training sessions in the following areas:

- \_\_\_\_\_ a. ADASCRIP+ For **END** users
- \_\_\_\_\_ b. ADAMINT programming
- \_\_\_\_\_ c. ADABAS (native "call") programming
- \_\_\_\_\_ d. ADABAS systems development
- \_\_\_\_\_ e. ADABAS file design
- \_\_\_\_\_ f. ADABAS management overview
- \_\_\_\_\_ g. Other (Please Specify)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Software AG courses attended by members of our organizations (**not** counting initial installation training):

- \_\_\_\_\_ a. Using ADABAS
- \_\_\_\_\_ b. ADABAS Internals
- \_\_\_\_\_ c. The DBA
- \_\_\_\_\_ d. Data Administration
- \_\_\_\_\_ e. ADACOM
- \_\_\_\_\_ f. Design Workshop
- \_\_\_\_\_ g. Design Methodology
- \_\_\_\_\_ h. NATURAL

3. Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## DOS User Questionnaire

1. Your Name and Title:

\_\_\_\_\_

2. Your Company's Name and Address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. What is the size of your ADABAS MPM Partition?

- \_\_\_\_\_ a. under 200K      \_\_\_\_\_ d. 300K - 350K
- \_\_\_\_\_ b. 200K - 250K    \_\_\_\_\_ e. 350K - 400K
- \_\_\_\_\_ c. 250K-300K      \_\_\_\_\_ f. Over 400K

4. How much **real** "CORE" is available to your ADABAS MPM partition?

- \_\_\_\_\_ a. under 50K      \_\_\_\_\_ d. 150K - 200K
- \_\_\_\_\_ b. 50K - 100K      \_\_\_\_\_ e. Over 200K
- \_\_\_\_\_ c. 100K - 150K

5. How large is your MPM user buffer (QMAX as zapped in ADADAK \$)?

- \_\_\_\_\_ a. under 50K      \_\_\_\_\_ d. 100K - 125K
- \_\_\_\_\_ b. 50K - 75K      \_\_\_\_\_ e. 125K - 150K
- \_\_\_\_\_ c. 75K - 100K     \_\_\_\_\_ f. Over 150K

6. Is your MPM sub-tasked in its partition?

- \_\_\_\_\_ a. Yes              \_\_\_\_\_ b. No

7. Have you tried adjusting QMAX to improve response time?

- \_\_\_\_\_ a. tried, no change
- \_\_\_\_\_ b. tried, improved
- \_\_\_\_\_ c. tried, got worse
- \_\_\_\_\_ d. did not try



**ADABAS  
SPECIAL  
INTEREST  
GROUP  
REPORTS**

## DOS Users' Special Interest Group Report

John Kaye  
City of Milwaukee

Enclosed with this newsletter you will find a DOS User Questionnaire. I would appreciate your taking a few moments right now to fill it out and mail it, so I can develop a composite profile of user experiences relating to performance as a function of partition size, real "core", and user buffer size in a DOS environment. These results will be published in the next issue of the Newsletter, along with a second DOS User Questionnaire, seeking **your** recommendations for questions to be asked of our fellow DOS users.

I have recommended to our Newsletter Editor that he make this postcard technique a permanent communications feature for **all** Special Interest Groups, in hopes that we can improve the response to questions posed by various users in their Newsletter articles.

If any DOS users wish to contact me on their own with questions or experiences they wish to share via my article in some future issue of the Newsletter, please contact me.

## Education/Documentation Special Interest Group Report

John Kaye  
City of Milwaukee

I would like to see the Education/Documentation SIG play a more active role in making users needs known to Software AG. As such, I am asking you to take a few seconds to fill out and mail the Education Questionnaire enclosed in this Newsletter. Results will be published in the next issue, along with a follow-up questionnaire on how you would rate the courses in order of importance and content.

I will gladly include questions which **you** would like to see answered, but I would prefer that they be stated as yes-no or multiple-choice inquiries, so the answers can be more readily evaluated.

## Public Sector Special Interest Group

Bill Belisle  
State of California  
Department of Youth Authority

The Public Sector Special Interest Group has been established within the Software AG Users' Group during the Seventh International Users' Conference in June 1979. The primary goals of the group are:

- (1) Enhance the possibility for application exchange among government users;
- (2) Consolidate Product Enhancement Requests from government users.

The group initially consisted of some 34 state and local government data centers in North America which use ADABAS. The group has voted to invite educational institutions (20 now using ADABAS) and Federal Government Agencies (13 now using ADABAS) to participate. Therefore, all Government and educational institutions in North America which use ADABAS will be members of the Public Sector Special Interest Group. Government & Educational users in other countries can join and be put on the distribution by notifying the Group Chairperson in writing. The Group Chairperson for 1979/80 is Mr. Bill Belisle, State of California, Department of Youth Authority.

The first edition of the catalog of Public Sector Applications has been published. It contains information of 41 applications available for exchange, and the installation profiles on the 34 initial state and local governments participating. An expanded catalog is now being compiled and will be available in October 1979. This catalog will be updated and reprinted twice each year.



[Continued from page 16]

Other functions include:

- The normal ADABAS signon and signoff requests, required to satisfy the installation CICS session protocol logic.
- Recovery in the event that a series of pseudo conversational transactions, which are assembling one 'packet' of data, lose the control information stored on the screen (clear).
- Identification of 'print' packets which are addressed to a standard report display transaction, with such features as optional main and column heading lines, and commands for next page, previous page, first page (top) and last page (bottom).

The calling program provides the data records (max 2000 bytes) together with an optional key (max 44 bytes) which is used to sequence the data within the 'packet'. If a key is not supplied, the data is retrieved in the input sequence.



Kenneth D. Rardin, SAGNA, and Yoshioki Ishii, Software AG Far East



Geoff Holloway, SPL, Australia



Peter Schnell, President, Software AG, enjoys a few relaxing moments in the sun after a very hectic day in San Diego.



Bernard Ly Van Luong, TECSI, Gert Reinhardt, Heimstatt Bauspar-AG, and Hubert M. Desboeufs, Banque Cantonale Vaudoise.



Lutz Martiny, Senator für Inneres Berlin and Herr Loevenich, SAG, Germany.



Natalio Friedman discusses ADABAS with Brazilian users Ricardo Cioglia and Ernesto Gurgel Valente.



Bob Warburton, SPL, Australia and Hettie Steyn, SPL, South Africa.

# Com-plete

# PRODUCT NEWS

the Complete Communications System

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## Product Rep's Report

Jack Plowman  
Evans Products Company

I'm sure everyone had a good time in San Diego. Many thanks to Steve Greaves and his staff for an outstanding Conference. I know they all put in many long days and nights ensuring we all had a good time. Thanks again — we appreciate it and we're all looking forward to next year.

I'd like also to extend my thanks to Roy Decker for the work he has done in getting this group started. Our size after only two years is a tribute to his efforts. I hope we can continue what he started.

Right now is a good time to get started on those change/enhancement requests. It might be a good idea to keep a small supply of them near each terminal. That way you're more likely to get those great ideas down on paper while they're hot!!! In any case, the sooner you can get them into Don Sickle, the better. It will sure make his job a lot easier.

We all need to be thinking about our upcoming regional meetings. I urge everyone to participate; after all, this is where we receive our greatest benefits as a users' group. Bring your change/enhancements requests to the meetings and discuss them with other users. You may find a solution for your problem already exists, or you may want to combine your request with some else's — guarantees more votes!!!

The Special Interest Group representatives are also a good source of information on your change/enhancement ideas. Please contact them about requests that pertain to their topics. They are anxiously awaiting your comments!!!

Here at Evans, we are rapidly on our way forward (?) to MVS, and would like to install and maintain Com-plete with SMF. We would like to hear from anyone with suggestions or similar needs. We are also doing some initial footwork into running MVS SMF R4.0 under MVT. It sounds crazy, but looks like it might actually work!!! We'd sure like to hear from anyone that can shed some light in our direction.

We are also installing a security package (either RACF or ACF2) on MVS, and will be interfacing it to Com-plete. Our LOGON/PASSWORD checking will be done (invisibly) by the security package, and we are also looking at having the package do transaction checking. As soon as it is completed, we will forward the results of our trials and tribulations to the Security and Accounting Chairman — Don Brown of Sacramento County.

I also need some input on setting up the "Product Review Committee" that Roy Decker worked so hard to initiate. I need some "Volunteers" who are willing to donate some of their time, and probably attend one or two meetings a year in Reston. The first task for the committee (and SAG) is to define the review process. As I see it now, Software AG will distribute information about the product to be reviewed by the committee members, and then hold a formal review meeting in Reston about one week later. It is important to remember that timing of the review is critical — we cannot let the review process delay the product. The second task for the committee will be to define the general topics to be covered in the — User Interfaces/Syntax/-Internals/Migration requirements/???. Anyone interested in participating on the committee, please contact me. We want to have a wide variety of interest represented, so please call.

I know we're all very busy, and it's difficult to find the time for the Users' group; but give it a try, I think you'll find the time well spent, often paying unexpected dividends.

Looking forward to hearing from all you "Volunteers"!!!



## Security Based on Authorization

Alan Routhier  
County of Sacramento

Com-plete provides a very comprehensive security facility which users may optionally take advantage of. It is implemented through the log-on utilities, the DASD security utility, and over a dozen exits throughout Com-plete and the utilities it supports. Some of this security is relatively easy to implement, such as password control of access to the teleprocessing system utilizing the \*ULOG utility, or restricting access to several Com-plete facilities by selectively giving personnel CONTROL status. However, if an installation needs to implement stricter overall control of a Com-plete teleprocessing network, then it may do so by writing a series of assembly language exit programs, which involves more planning and effort.

Even though user-written security exits take much more work, they provide greater flexibility and control than could canned routines provided by Software AG. Almost every installation has unique security requirements and it is impossible for Software AG to anticipate them all. However, some techniques may be applicable to many installations, and by sharing them, we can help each other ease the security burden.

The technique I am going to discuss could be called security based on authorization. The County of Sacramento has many Departments implementing on-line systems, each of which has different security requirements. For example, some on-line systems are restricted to people in a specific department, while others are shared by more than one group. Some people can access only one specific on-line system, while others can access several. People who are not programmers shall not be allowed to use many of the utilities such as \*UEDIT or \*UQ. Only a few people shall be allowed to use certain special utility features. Several on-line libraries have been established for various programmer, operations, and end user groups, and each group may only access its own library. There are restrictions on access to specific SD files by specific systems. Programmers may not work with any system unless authorized to do so. In addition, there are a few key people (systems programmers) who need

access to nearly all aspects of the teleprocessing network.

It is relatively easy to make a list of these and many more security requirements. The problem is how to easily identify each person who uses the teleprocessing network with each of the various requirements which apply to him, and to do so in such a manner that the requirements are easy to implement and maintain. Using the terminal ID (TID) to identify people is a bad idea in many environments because people normally use more than one terminal to do more than one thing. Using account numbers to identify people will not work if the requirements for the billing and accounting system are not as detailed as that for security. Having a user ID identify a person is a good idea, but there are too many limitations to this name. It can only be six alpha/numeric characters long, and naming standards must be used to prevent SD file names from being the same as user ID names, because \*UEDIT and \*UED create temporary SD files with the same name as a person's ID. It is difficult to identify very many mutually exclusive requirements through a user ID, but it can be used to pin down a few. I have used it to identify authorization to access several on-line libraries based on the first character of the name.

Software AG has also provided a log-on implemented field called the authorization code. It is a two byte binary number (or code) which can contain any numeric value between -32768 and +32767 in decimal. This is quite a range of members, but one may also consider these values as a way to turn on any combination of the sixteen bits which make up this two byte field. It is possible to identify 65,536 specific combinations of requirements by utilizing this field as a number, or to identify sixteen mutually exclusive conditions by utilizing this field as a set of sixteen bits to be turned on or off. It turned out that we needed to identify both of these things. The solution I choose was to use the first (high order) byte as a series of eight bits to identify eight mutually exclusive conditions, and use the second (low order) byte as a number from 0 to +255 to identify 256 specific combinations of requirements. I call this number a group number.

An example of a mutually exclusive condition is whether or not a person is a programmer and needs to access \*UEDIT, \*UQ, \*ULIB, \*UPDS, \*UDS, and other programmer-oriented utilities. Another such condition is whether or not a person is authorized to execute certain demonstration programs such as 'battleship' or 'tic-tac-toe'.

An example of a specific combination of requirements is whether or not a person is

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authorized to execute a specific system as identified by the first three characters of a program name or SD file name. In general, we utilize group numbers to identify the one or more specific combination of on-line systems which a person may access. Given systems 'A' and 'B', for instance, group 1 has authorization to access system 'A', group 2 has authorization to access system 'B', and group 3 has authorization to access both system 'A' and system 'B'.

Therefore, a programmer can be prevented from working on one on-line system and allowed to work on another by changing the group number which is represented by the second byte of the authorization code which is assigned to him by \*ULOGM. Also, an end user who normally accesses only a specific application system can be allowed to use a new general purpose utility program by turning on the corresponding bit in the first byte of his authorization code. The various security exit programs need only once be taught the meaning of each bit in the first byte, and each number in the second byte. People may come and go, but security can remain untouched.

It is possible to identify the meanings of these codes by utilizing one or more tables which are loaded by the various security exit programs. Unfortunately, a key security exit, ULSRPSFS (on-line program, file and SD-file control), cannot load tables for performance reasons. For this reason, and the fact that each exit is concerned with different things, I hard code this logic into each exit program. With Com-plete as a programming tool, it is not very difficult to maintain the exit programs once the basic program logic is written. Generally, it is just a series of compare and branch instructions.

There is a question as to whether or not eight flags and 256 group numbers is enough. So far we are only using three of the flags and twelve of the group numbers. These limitations are not critical to us now. By making the distinction between the two codes on a byte boundary, it is possible to take advantage of certain byte oriented compare instructions such as 'test under nash' or 'compare logical immediate'. By assigning meanings to the eight high order bits from left to right and assigning group numbers incrementally beginning with one, it is possible to later re-align the shared boundary of these two contiguous one byte fields to either increase the number of flags available or to increase the amount of group numbers available. Therefore, there is a little bit of room to maneuver.

I have been able to implement all of our security requirements by assigning a meaning to the first byte of the user ID Name, and by utilizing the authorization code as described above. This is just one of many possible schemes. I am sure that many users have implemented others. If so, would you please share them with us.

## 3330 to 3350 Disk Conversion

George Boone  
County of Sacramento

The County of Sacramento first began implementing teleprocessing applications when we acquired Com-plete about two years ago. At that time, eight single density 3330 disk drives serviced the IBM 370/145 with 768K of main memory very adequately. Last year we added another 256K of main memory, and traded in four of the 3330 drives for six double density 3330 drives to meet the increasing needs of Com-plete and on-line production files. Neither of these changes required much beyond a sysgen to implement. However, with the acquisition of ADABAS and the continued growth of teleprocessing activity, it soon became obvious that the ten 3330 disk drives, with a single controller which was connected to a single channel, were not only running out of capacity, but they were also a serious performance bottleneck. Therefore, the decision was made to completely replace the 3330's with ten 3350 disk drives serviced by two controllers each with two channel connections.

Since we needed to take full advantage of the performance and capacity of these new disk drives and not utilize the 3330 emulation made, we were faced with a (shudder) conversion. The move was simplified by the fact that we kept the 3330 drives attached to the system for four weeks after the 3350 drives were installed on June 1, 1979. However, one requirement that we faced was that we were to minimize Com-plete down time because of critical on-line applications which run twenty-four hours per day seven days a week. Well, to make a long story short, by utilizing the facilities in Com-plete, we had very little trouble completing the conversion within two months through the efforts of two full time programmers and with the occasional help of two others.

The first month was spent planning the size and layout of all the disk files on the new drives, writing a program which would convert these file specifications (which were stored and maintained on a UEDIT library) into allocation JCL, and writing another program which would scan all the production JCL (which is kept on a PANVALET Library) for disk dependencies and create update statements to convert them. Of course the on-line programming facilities of Com-plete greatly helped these tasks. In addition, an OS/VS1 IO-gen was performed to identify the new devices to the operating system.

When the new disks arrived, the conversion began in an orderly manner:

1. All the files were allocated first using the JCL created earlier.

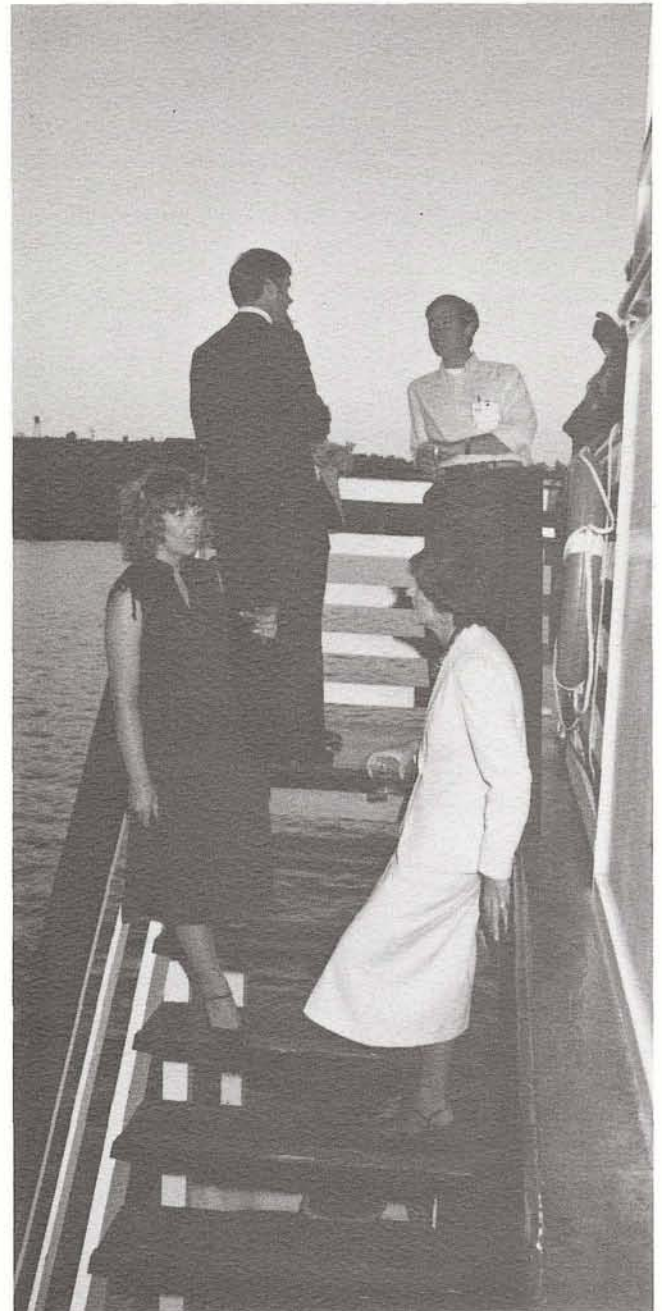
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2. All partitioned data sets (PDS's) were copied to 3350's using the IEBCOPY utility. (Fast Dump/Restore will not handle unsimilar devices.) This was easy to do with JCL which was modified and submitted through UEDIT and monitored through UQ. This included PDS's which UEDIT accessed. By utilizing DISP = OLD in the copy JCL, on-line access was only temporarily prevented while each PDS was copied and recataloged. The overall teleprocessing system was not effected. This was also true of Com-plete's source, object, and load libraries. The ULIB DISABLE function was used while the load libraries were moved, and to access them on 3350's, all that was needed was to stop and start Com-plete, which takes about five minutes.
3. A new operating system was generated on the 3350's. IBM utilities were used to copy the system catalog, and with an IPL the operating system (OS/VS1) was moved.
4. Only a few batch programs which accessed ISAM and direct access files had to be updated with 3350 oriented blocking factors, and re-compiled. On-line programs were untouched by the conversion.
5. Direct access and ISAM files utilized by Com-plete applications were re-created on the 3350's by normal batch update processes which run periodically. Com-plete was stopped and started once to point to these new files. The interruption to on-line systems was hardly noticed.
6. ADABAS was moved by installing the latest release which conveniently came just prior to the conversion. ADABAS files were moved using the ADABAS utilities. This was not critical since there were no production on-line ADABAS files installed at that time.
7. PANVALET data sets were formatted and quickly moved using PANVALET utilities.
8. Com-plete itself was one of the easiest things of all to move. The three roll files, SD file, message file, on-line program file, and DASD security file were pre-allocated on 3350's. Com-plete was stopped and three Com-plete utilities were used to back up error messages, SD files, and on-line programs (with DDN entries). The files were then re-cataloged to the new disks. Next, the files were pre-formatted with the CUDSMAN utility and restored with four other Com-plete utilities. Finally Com-plete was re-started. This whole process took about twenty minutes, and Com-plete came up with no problems. I wish to note here, however, that all of these files should remain on one device type. One user I talked to moved only a couple of these critical files from 3330's to 3350's and

Com-plete would not come up. Do this move all at one time.

This conversion was completed mostly on the day shift with little overtime work. Fortunately we did not have a VSAM catalog or VSAM data sets to complicate the operating system move. In general the UDS and UPDS utilities were a great help. Considering the extent of our on-line applications, this conversion was much easier than we would have expected.



Evening cruise to the Kona Kai Club for the Com-plete Awards Banquet.



Larry Jones  
Software AG of North America, Inc.  
Com-plete Development Staff

At this year's Users' Conference in San Diego, I mentioned that Software AG is implementing development guidelines for future Com-plete utilities. Several users expressed an interest, so it seemed like a good idea to outline these guidelines in this Newsletter. The following is an excerpt from our "Com-plete Development Guide":

#### ON-LINE UTILITIES

In an attempt to maintain some consistency in the operation of on-line utilities, the following rules should be followed:

#### OUTPUT

All information about the characteristics of the terminal being used should be obtained via GETCHR.

Terminal displays should be designed to run on terminals with 40, 80 and 132 character lines. If a particular terminal has an uncommon line length, the display may be formatted for the next lowest line length (for example, the display for a 100-character line may be formatted for an 80-character line).

GETCHR currently provides the number of lines for CRT devices, and, starting with version 3.2, will also provide this information for hard-copy devices. Use these fields to determine the number of available output lines.

Some performance considerations are necessary for hard-copy terminals. Since they are usually slow devices, the amount of extraneous information (headlines, etc.) should be kept to a minimum. Displays should not be designed with lines which contain a large number of blanks to the left of the data being displayed. This takes unnecessary time in spacing across the line.

All output to 3270 devices should contain at least 2 fields, a small one for input, and a large one which contains the remainder of the display. This will minimize data transfer on input from remote devices.

When displaying error messages to CRT devices, always rewrite the entire input line back to the terminal so that the terminal operator can make corrections by overtyping the erroneous data and re-entering the request. This is a good practice even when an error message is not being displayed because many times the next entry is similar to the previous entry.

#### INPUT

When multiple parameters are entered, certain special characters are used in parsing the input. This document refers to these characters by their default character name (i.e., comma, blank, quote, etc.). It is recommended that each utility support the "DEFINE" command, which can be used to

modify these characters. The keyword parameters and their default values are listed below:

COMMAND	Blank	Used to terminate a command
TERMINATE	Blank	Used to terminate an entire entry
DELIMIT	,	Used as a delimiter between positional and keyword parameters and sub-parameters
NEWCOMMAND	;	Used (instead of a blank) to terminate the parameters when multiple commands are to be specified in the same entry
SUBSTART	(	Used to start a list of sub-parameters
SUBEND	)	Used to end a list of sub-parameters
KEYWORD	=	Used to separate a keyword and its data
BRACKET	'	Used to bracket a data string which contains an embedded blank, comma or equal sign; or which begins with a left parenthesis.

The general format of input should be the command, followed by one or more blanks, followed by zero or more positional parameters, followed by zero or more keyword parameters, terminated by one or more blanks. If the same command is being reused, parameters may begin in the first position.

Multiple commands (and their parameters) may be entered by terminating the first command's parameters with a semicolon, and following it with the next command. If the first command has no parameters, the command may be terminated with a semicolon, and the next command entered.

Keyword or positional parameters should be separated by commas.

Keyword parameters may be entered in any order.

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Null values should be allowed for both positional and keyword parameters. If a null value is entered for a positional parameter, that parameter should remain unchanged. If a null value is entered for a keyword parameter, that parameter should be set to its default value.

Whenever a quoted string contains an embedded quote, it must be entered as two quotes, but will be processed as one quote.

Sub-parameters (positional or keyword) are allowed if they are enclosed in parenthesis and separated by commas. If only the first sub-parameter is being specified, the parenthesis may be omitted.

Examples: ARGUMENT =(XYZ)  
 ARGUMENT =XYZ  
 NAME =(LAST =SMITH)  
 NAME =LAST =SMITH  
 ABC, (QRS), XYZ  
 ABC, QRS, XYZ

Whenever the same keyword parameter is duplicated in the input, all occurrences of the parameter should be ignored except the last.

All commands, keywords and selection-type data items (such as a YES/NO selection) may be entered in an abbreviated form composed of any number of characters up to the fully spelled out item, as long as the minimum number of characters (necessary to distinguish the item from another item) are entered. For example, if a particular parameter has the choices of "START", "STOP", and "PAUSE", they may be abbreviated as follows: STA, STAR, START, STO, STOP, P, PA, PAU, PAUS, PAUSE. The exception to this abbreviation rule is certain commands which cause irrevocable action, such as the "SCRATCH" command of the UPDS utility. These commands should be fully spelled out.

Keywords and selection type data items should be assigned values which are actual words whenever possible. Some exceptions are listed below:

DSNAME	data set name
JCL	job control language statements
CUU	channel and unit address

When assigning words for commands, keywords and selection-type data items, try to use the same words which are consistent with the existing utilities. Some examples are listed below:

## COMMANDS

- "LIST" Should be used to request a summarized display of various items (such as in the UPDS utility).
- "DISPLAY" Should be used to request a specific display of a specific item (such as in the UPDS utility).
- "DEFINE" Should be used to modify special delimiters and bracket characters.
- "STATUS" Should be used to obtain information about the current values assigned to parameters.
- "HELP" Should be used to obtain a menu display.
- "+" or "-" Whenever a command begins with A + or -, it should be processed as though it were the "RECORD" keyword.
- "PRINT" Should be used to obtain a hard-copy listing of a display (such as the UPDS utility).

## KEYWORDS

- "DSNAME" Should be used for data set name.
- "MEMBER" Should be used for PDS member name.
- "USERID" Should be used for the terminal operator's sign-on identification.
- "VOLUME" Should be used for volume serial number.

Numeric items should be accepted in free form. Leading zeros, a trailing decimal point, or trailing zeros behind a decimal point should never be required.

Data set and member names may be entered separately, using the DSNAME MEMBER parameters, or together using the DSNAME parameter with the member name appended to the data set name and enclosed in parenthesis.

The HELP facility should be two levels. If the HELP command is entered without end parameters, the menu display should be written which shows the available commands with a brief description of their functions. If the HELP command is entered with a command as its parameter, a detailed display of the command's parameters should be written.

It should be stated that these standards are guidelines, not hard and fast rules. The person responsible for Complete development has the authority to allow a variance whenever special cases warrant it.

In addition to those "externals" guidelines, we have guidelines for internal architecture, naming conventions, and user exit interfaces, which are not included in this article.

## User Programs

Bill Trueblood  
Software AG of North America, Inc.

The supply of user-written programs which are of general interest to the Com-plete user community has not been appreciably growing. In fact, there is still only one user-supplied program: UTLACT.

UTLACT, as many of you know, was written at Sacramento County and provides a display of terminal users currently active, terminal information, and terminal activity over a monitored interval. This program is easily installed and highly recommended for those or you who do not have it.

Three more programs have been added to the user-written library of available programs. These programs are:

- ULOW - Allows the terminal user to enter both upper and lower case characters without having the lower case characters translated to upper case.
- UUP - Allows the terminal user to enter both upper and lower case characters; all characters entered will be translated to upper case (default for Com-plete).
- UUEEX2 - Provides two new commands for UEDIT users (these are subcommands of UEDIT and will be in effect only while using UEDIT):

LOW, which will allow entry of both upper and lower case characters without translation to upper case.

UP, which will allow entry of both upper and lower case characters but will translate all to upper case.

This exit to UEDIT is of particular interest to those interested in using UEDIT to enter and print off memos and letters which should be printed in both upper and lower case.

These three programs, although not written by Com-plete users, are of general interest and are being made available to all users upon request.

Additional programs are invited, recommended, and wanted. However, please supply only source programs. Since many users wish to tailor the programs to their own environments.



## Com-plete/ADABAS Integration

Steve Clark  
County of Sacramento

While at the Com-plete Users' Conference in San Diego, I opened my mouth and said "there should be a better integration of Software AG products — Com-plete and ADABAS". As a direct result of that outburst, it was unanimously decided that I should chair a Special Interest Group on the subject. Now that I know what happens when one blurts something, I would like to discuss just what I meant by "a better integration".

Integration applies to both the total system logical capability and to the total system physical implementation. The goal of this integration being:

1. Increased processing efficiency of on-line data base functions;
2. Reduced system overhead and resources;
3. Easier control and implementation of application systems using Com-plete/ADABAS facilities;
4. A more marketable integrated product line.

I can emphatically state that I am opposed to any integration implementation that would be detrimental to the processing efficiency of either of these products in a stand-alone environment.

With these goals in mind it is my intention to use this column as a forum in which the ideas from the user group can be presented and discussed in order to present a somewhat uniform approach to changes and enhancements that would be beneficial to the combined product users. The majority of on-line ADABAS users are processing with a "foreign" TP monitor (CICS). Therefore, I would expect little interest in Com-plete/ADABAS integration from the ADABAS user at large. Software AG will have to weigh our ideas against marketability in order to determine which ideas are realistic. I believe a modular, fully integrated product line would be very marketable. After experimenting with Natural, I can definitely state that it, too, is a candidate for better integration with Com-plete and ADABAS.

Areas that are of immediate importance to me and about which I would appreciate comments from other users are:

1. Security
2. Time and Resource Accounting
3. On-Line Transaction Logging

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4. On-Line Execution of ADAMINT Modules
5. Interfacing Natural with Com-plete and ADABAS Facilities
6. On-line macro updating via ADASCRIP+ under Com-plete

I am intentionally ignoring the data dictionary. Software AG committed to an integrated data dictionary at the Users' Conference. I know in our environment the dictionary and its utilities are very cumbersome and in a number of instances just do not work. I know Software AG is actively working in this area and I have taken a wait-and-see attitude.

My thoughts on the above areas of integration are:

### Security

Com-plete has an excellent log-on facility in which the password is known only to the individual user. The passwords are associated with individual USER-ID's which can have as attributes a number of fields that can be used to implement a multi-dimensional security matrix. Com-plete also offers the appropriate exits to allow users the capability of tailoring the security based on the various USER-ID attributes in any way he chooses.

ADABAS security is more limited. It appears to have been designed to function in a batch environment and does not lend itself to on-line requirements. There is currently a need to assign multiple passwords to users and user departments. This proliferation of passwords will become more of a problem when security by value becomes a reality in release 4.1 of ADABAS.

Natural, like ADABAS, uses an additional password for accessing and executing Natural programs. Natural currently stores all source in the data dictionary and is dependent on ADABAS security and a pseudo-user code to protect it. I do not know what Software AG has planned for Natural object modules when they become available.

We have found that when more than one password is needed, security turns into harassment for the users. Lists of passwords and associated functions get posted above CRT work stations and security reverts back to the honor system with little means to detect accidental or intentional security breaches.

What is needed is a single integrated security system in which the user can control his own password. If a user requires ADABAS files in an application, then this password should allow him into the on-line system and its various facilities clear on down to the field level of access and update. Natural modules and execution libraries should fall under this control also. It is my opinion that both ADABAS and Natural applications should provide the same control system as

Com-plete by sharing the internal security tables and supplying the required exits to tailor the system.

### Time and Resource Accounting

On-line ADABAS usage needs to be combined with Com-plete time and resource accounting on the SMF data set. Currently the only method available to determine ADABAS usage for on-line applications is to compare start and termination times between the Com-plete accounting records and the ADABAS log; a very cumbersome, error prone approach. Software AG has promised an exit in which time and resource usage can be passed between the two systems. However, we have not received it to date so I cannot report on it. This type of facility needs to be incorporated into the 'integrated' system.

### On-Line Execution of ADAMINT Modules

Through the use of ADAMINT there is excellent control over who does what to the data in the data base. Unfortunately all ADAMINT modules must be linked together and maintained in memory throughout the execution of the application process; normally with the root of an overlay type structure. In an on-line environment this requires a tremendous thread size to hold the total ADAMINT module for multiple user views and the application program. What I think is needed is dynamically loaded, overlayable ADAMINT user view modules. If this were available, the Software AG software would not arbitrarily limit the functions that could be placed in an on-line program.

My understanding of Natural is that there is no ADAMINT-like function. To allow for complete data control I think the ADAMINT function in Natural is mandatory.

### On-Line Update of ADASCRIP+ Macros Via Com-plete

Software AG has released, and is promoting on-line updating of macros via ADASCRIP+ under Com-plete. This facility is really needed in an integrated environment. The problem is in their method of implementation. The on-line macro feature offers no change or insert facility. If you wish to modify a macro, it must be deleted and re-added. The add macro facility only adds macros at the end of the macro list, thus ruining the macro list, thus ruining the macro libraries sequence. Because macro sequence is critical in ADASCRIP+'s ability to find the proper macro, the on-line macro update feature is worthless if completely unique macro names are not used. The first time you need to modify or add a macro in the middle of the list, the macro sequence is destroyed. The only alternative is to re-load the macro file via the utility loader (ADALD1, ADALD2) or through a batch ADASCRIP+ run utilizing the "MIN" file. I do not know why Software AG would implement an unuseable

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facility. I would appreciate hearing from other Com-plete/ADABAS users on this subject.

These are but a few of my concerns. I think a great deal of work needs to be done in the area of integrating Software AG's products. Other areas for discussion might include:

- Running Com-plete and ADABAS in a single region;
- Eliminating the need for an SVC to communicate between Com-plete and ADABAS;
- Sharing the Com-plete roll files and the ADABAS work file;
- Sharing with Com-plete system information in the Data Dictionary - once it becomes a viable product.

I welcome any and all comments on any of the above. Also, if you have other areas of concern, send them along. The efforts of the Com-plete/ADABAS users in the area of integration should speed along many necessary changes in each of the products that would be of benefit to all.

Send all communications to:

County of Sacramento  
Systems and Data Processing Department  
ATTN: Steve Clark, Technical Services

## Com-plete Special Interest Group Chairpersons

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## \*UM.message from the \*UEDIT.or

Alan Routhier  
County of Sacramento

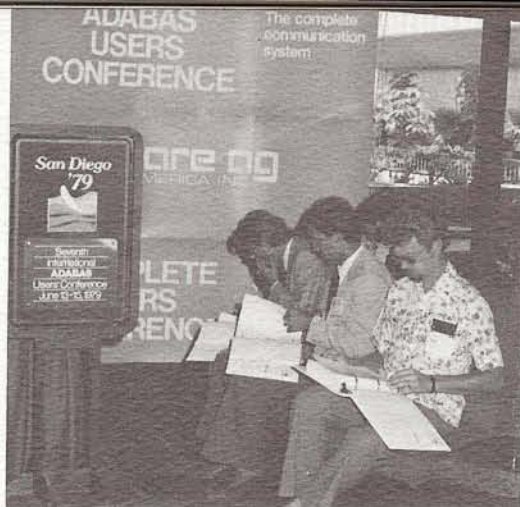
Last year in this column I introduced the Complete Users' Group Newsletter which rode along on the back of the ADABAS Newsletter. After our last Users' Conference this distinction has been eliminated since we have re-organized ourselves into the Software AG Users' Group. Even though many of us tend to concentrate on one or another of the Software AG products, because of the complexities involved, these distinctions are becoming more blurred as the number of organizations utilizing several of these products increases.

In the last issue of the Newsletter, I indicated that I would be willing to have another person fill this position for the coming year. As you can see, no one else stepped forward, and thus, I was elected to carry on. This I do gladly. I am Co-editor of our Newsletter with Jon Schmitt, who was chosen to replace Suzan Schultz as the ADABAS Newsletter Editor. But, as I mentioned above, these distinctions no longer really apply. It is true that Jon's expertise is mainly with ADABAS and mine is mostly with Com-plete; however, we are both available to serve the whole Software AG user community and you may contact either of us at any time with any articles, ideas, and experiences which we will then include in the Newsletter.

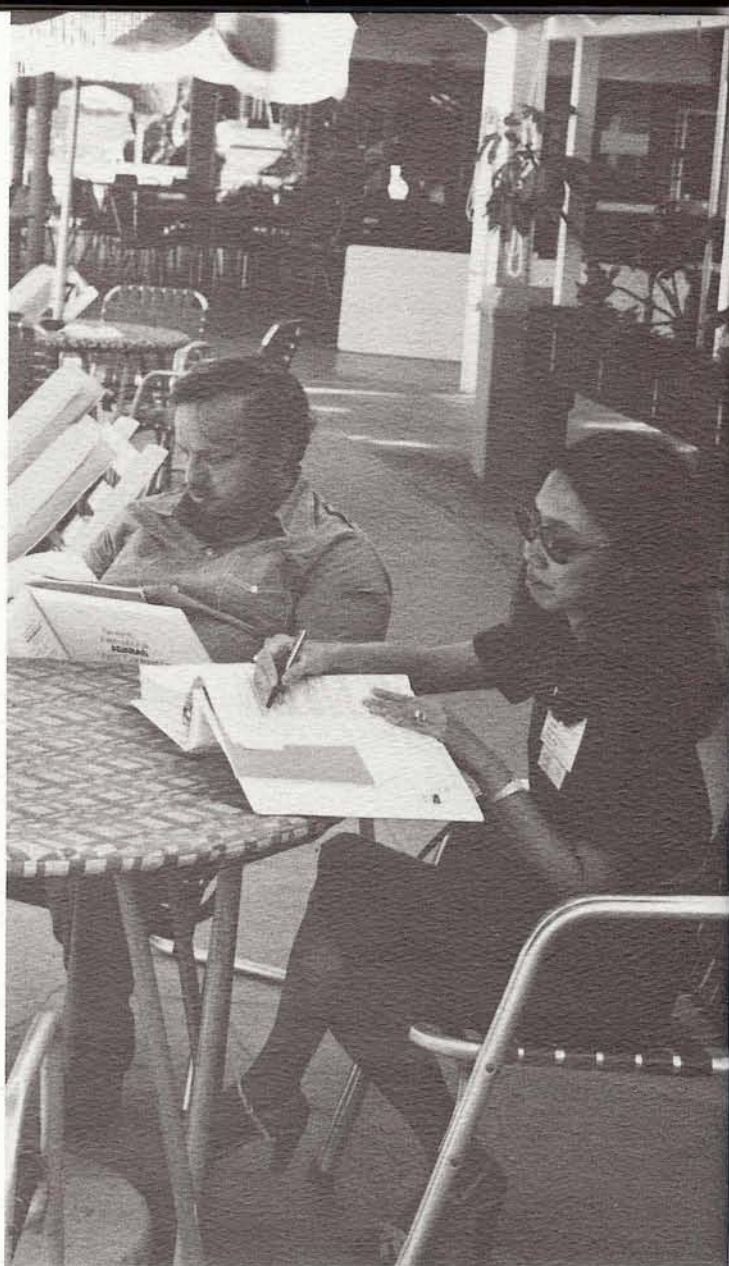
One thing I have noticed in my position as Co-editor is that it is difficult for many people to sit down and write an article even though they have interesting ideas and experiences to share. Therefore, I would like to institute a "Letters to the Editor" column. It is much easier for most people to write a letter than be faced with an 'article'. So folks, get those letters coming.

In order to get the ball rolling, I will include the following "Letter from the Editor":

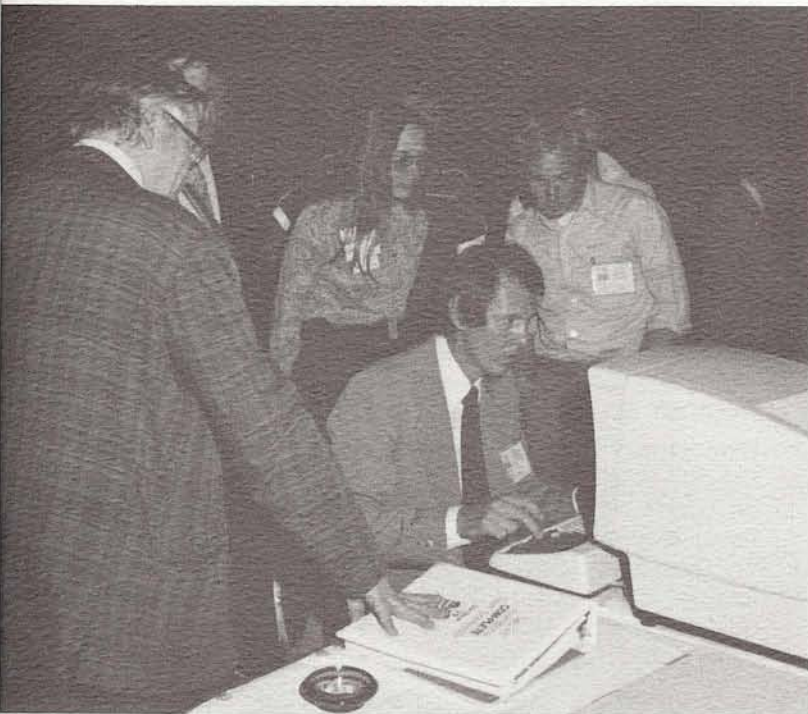
I received a phone call recently from Sandy MacDonald at Evans Products in Portland, Oregon, asking for information about a training program for programmers writing on-line programs utilizing Com-plete. I mentioned the five-day class given by Software AG as a possibility. However, this class is mainly oriented to programmers new to Com-plete, and spends much time introducing the various utilities and facilities available to the programmer. What many users are looking for, including Sandy, is a class on on-line program design which teaches experienced programmers how to solve complex on-line programming problems. Generally, programmers learn these techniques by trial and error and by talking to others who have tried them. If anyone has put together such a program, would you please contact me about it. Other users would be very interested in an outline of such a presentation. Also, if someone has put together a bibliography of material relating to on-line program design, I would like to publish it in the Newsletter. Remember, if you would like to comment on this or any other problem, please write a "Letter to the Editor".



When is the Data Dictionary Workshop?



Sunning & studying a la San Deigo.



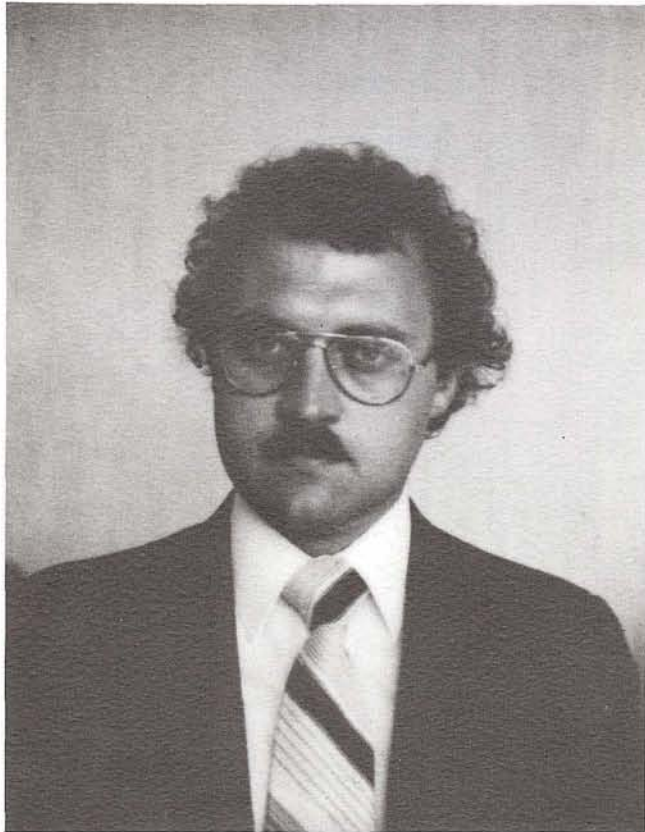
Peter Page demonstrates NATURAL, naturally.



Regional Meetings vote on merger.



Herb Gepner, Software editor of Datapro Research Corporation, thanks Steve Greaves for a sensational wee



## Kenneth D. Rardin Named Executive Vice President

Kenneth D. Rardin has been appointed Executive Vice President of Software AG of North America, Inc.

The appointment of Mr. Rardin gives him responsibility for corporate day-to-day operations and implementation of an aggressive five year business plan.

Prior to this promotion, Mr. Rardin served as Senior Vice President of Software AG, in charge of development, operations and marketing support.

Mr. Rardin was responsible for the development of the product Com-plete. In November 1976, he joined Software AG, bringing with him Com-plete and the key personnel responsible for its development. He joined the Company as a Vice President and successfully introduced Com-plete to the marketplace on a world wide scale.

## Forman and Greaves Named to Key Positions

As a part of a major corporate reorganization, Executive Vice President, Kenneth D. Rardin, announced two key promotions, effective August 20, 1979.

Edward J. Forman was promoted to Vice President, Technical Operations, and Steve Greaves to Vice President, Development.

In their new roles, Mr. Forman will head up all product support for North America and affiliate countries and Mr. Greaves will be responsible for all North American product development.

Mr. Forman has held the positions of Manager of North American ADABAS Development and Director of Northeast Technical Support for Software AG. He has also been employed by Chase Manhattan Bank where he was responsible for ADABAS software on a major financial application system.



Edward J. Forman

Mr. Forman will be enhancing customer support through the establishment of corporate based product support groups for each Software AG product. Additionally, he will be opening several regional technical support offices throughout the United States.

Mr. Greaves joined Software AG in February, 1978, and has been responsible for Marketing Services activities, as well as serving the Users' Group Community as liaison with Software AG. Prior to joining Software AG, Mr. Greaves was with Seattle Public Schools as a Software Manager and Market Analyst.



Steve Greaves

Mr. Greaves' initial objectives will be to establish an integrated development environment, integrate documentation further into the development process and evaluate new product directions.

# Corporate Reorganization Reflects Growth . . .

## Eastern, North Central, Southern and Western Regions Announced

Responding to tremendous sales growth, Software AG announces a reorganization of the sales regions, as well as a newly developed sales support plan.

Michael Jakes, Vice President, will head up the Eastern Region. The New England states, New York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia, West Virginia, Virginia, North Carolina, South Carolina, Georgia and Florida comprise this region.

Ted Charlebois, Vice President, is in charge of the North Central Region which includes: Ohio, Michigan, Indiana, Illinois, Wisconsin, Iowa and Minnesota.

The Southern Region, managed by Vice President, Tom Berrisford, is made up of the following states: Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Arkansas, Missouri, Kansas, Oklahoma and Texas.

California, North Dakota, South Dakota, Nebraska, Colorado, New Mexico, Montana, Wyoming, Idaho, Utah, Arizona, Nevada, Washington, Oregon, Alaska and Hawaii encompass the Western Region which is headed up by Richard Currier, Vice President.

Besides technical reps, each region will have sales support representatives who will assist in pre- and post-sales work. Functions for the sales support reps include researching leads, yearly visits to customer sites and organizing seminars.

"Although we expect to grow rapidly in the next few years, support of our customers is of utmost importance to Software AG . . . with tech reps and sales support reps, continued communication is guaranteed." stated John N. Maguire, President.

Proceedings from the Seventh International ADABAS Users' Conference and the Second International Com-plete Users' Conference can be purchased from headquarters through the Documentation Coordinator (703) 860-5050. The cost of the proceedings are \$30 and \$25 respectively.



## Colin Moore to Head Consulting Division

Software AG of North America is entering into the DB/DC consulting marketplace. To compliment its software products, Software AG will offer consulting services in the use and application of ADABAS, Com-plete, Natural and ADABAS-M.

The establishment of this new service will be under the direction of Mr. Colin Moore who has joined Software AG in the capacity of Vice President of Consulting Services. Mr. Moore is already known to many of our users in the New York area where he was responsible for the data base design for the Korvette department store chain. Prior to the Korvette position, Mr. Moore was employed by IBM in the United Kingdom and in France.

"While Software AG has offered some consulting over the years, there has never been a real emphasis in the area," explained Moore. "Software AG has always received many more requests for the service than could be provided. We now expect to enter the field in a big way . . . with the best technicians and the best software."



# Managerial Positions Affected By Reorganization

## Growth Enhances User Support

Enhanced user support and corporate productivity were major themes reflected in Software AG's reorganization. Education, Technical Representatives, TSOP, Publications and Marketing Services announced major personnel changes.

Gary Bowers has been appointed to the position of Manager of Education. Gary will be responsible for all public and on-site training classes in North America. Mr. Bowers' initial objectives will be to develop new curriculums and to expand the training staff.

Regional Technical Support Offices are being established to provide better localized (and thus personalized) technical support for North American users. The first Regional Manager, Paul Peterson, has established a local support center in Denver, Colorado. The new support procedures will be explained in a memo to all users, as soon as the other offices are operational.

Scott Watanabe has been promoted to the Special Projects Group. His first assignment will be to assist Peter Schnell and Jim Addis in the final testing phase of ADABAS Version 4.1.

Gordon E. Perrins has been promoted to Manager of ADABAS Technical Support. He will be responsible for supporting technical reps, regional offices and affiliates.

Mick Wokich has been promoted to the Manager of North American ADABAS Development. His initial goal will be to establish a controlled development effort for all North America ADABAS related projects.

Rick Josephs has been promoted to Manager of Publications. Mr. Josephs has recently returned to the states from Software AG in Darmstadt, Germany, where he was involved in the creation of ADABAS Version 4.1 documentation.

Sunday Lewis has been promoted to Manager of Marketing Services. In addition to direct sales related responsibilities, she will also serve as Users' Group Liaison until this position can be filled.



11700 Sunrise Valley  
Reston, Virginia 22091

## Software AG to Build Corporate Headquarters

We're moving! Not tomorrow, but sometime in 1981, Software AG of North America, Inc. will move into its very own, brand new building.

Right now, the new site is several acres of wooded Virginia countryside a few hundred yards down Sunrise Valley Drive from our current headquarters in Reston, Virginia. In fact, John Maguire will be able to follow the progress of the construction from his present office in the Reston International Center.

"It's an exciting project," exclaimed Maguire. "It is tangible proof of how far we've come since 1971. I remember sharing a telephone with Penny Fulton at a desk in a warehouse — now this!"

"This" is a 50,000 square foot modern structure housing special facilities for computers, classrooms, publications and distribution, as well as office space for nearly 150 of our 300 executives and staff involved in development, support, maintenance, documentation, training, consulting, and corporate administration.

"We have had the land for some time and have taken our five-year growth plan and translated it into space needs," explained Maguire. "It has taken meeting after meeting after meeting with the architects, but at last we have finalized the plans."

"The new facility will be a first class exciting place to work," emphasized Maguire. "But then, Software AG has always been that way!"

# SAGNA Computer Center

Bill Trueblood  
Software AG of North America, Inc.

The Software AG of North America (SAGNA) Computer Center is in full swing. Having been operational since July 1, many planned objectives have been met while many more remain to be accomplished.

Specific functions being performed by the SAGNA Computer Center are:

- Service bureau activities for one remote user using the RJE facilities of Com-plete;
- Dial-up demonstration support for potential customers;
- Dial-up demonstration support for existing customers;
- Dial-up services for existing customers to obtain specific information (i.e., Macros, Zaps, etc.);
- Program development activities for SAGNA employees;
- ADABAS technical support activities;
- Com-plete technical support activities;
- Real-time application and testing of proposed software fixes;
- Documentation creation and control;
- Customer information storage and retrieval.

The SAGNA Computer Center is gradually being expanded into a full-fledged SAGNA Computer Service Bureau. We currently have only one computer but are expecting to add another machine and associated configuration by April, 1980. The current configuration consists of the following types of devices:

- System/370 145 with 2 megabytes of storage;
- 1 1403 N1 printer with both QN and TN print trains;
- 1 2540 card reader/card punch;
- 1 1270 memorex TCU;
- 9 3330-11 type disk drives from ITEL;
- 3 3420 type tape drives from ITEL (800-1600 BPI).

Combined with the current software, this hardware is being used to support the following functions and operating systems:

- 6 TTY dial-up lines, each 300 BAUD, on a common rotary;
- 2 TTY/2741 dial-up lines, either 300 or 1200 BAUD, each on a separate line;
- 1 point-to-point leased line for Com-plete RJE support;
- 1 point-to-point line, using a modem eliminator, to support a PDP-11 being used as a HASP/RJE station located in the SAGNA corporate headquarters;
- VS1 operating system;
- VM/VS1/DOS operating system;
- VM/VS1/DOS - VM/CF operating systems.

Plans are currently in effect to implement the following functions and operating systems:

- DOS/VSE;
- MVS;
- VS2;
- Dial-up support for a HASP/RJE station at 4800 BAUD;
- Multi-drop line, at 4800 BAUD, for multiple Com-plete RJE type stations.

With installation of the second computer, the existing hardware configuration will be used strictly as a service bureau type machine; the second machine will be used solely for internal SAGNA usage only.

## Education Highlights

Gary Bowers  
Software AG of North America, Inc.

In September, Software AG will begin to offer a series of one-day seminars on "Version 4 Facilities and Conversion." These seminars will offer an ideal opportunity for the Data Base Administrator or applications programmer/analyst to review the major new features of ADABAS Version 4. Particular emphasis will be placed on how to take advantage of these new features and optimize system performance. Time will be reserved in each seminar for a question and answer session. Please refer to the schedule printed in this newsletter for the seminar location nearest to your installation. (Note the addition to the previously published schedule of a seminar in Houston on October 8 and 9.)

In addition to the "Version 4 Facilities and Conversion" Seminar, beginning in November and December, several other ADABAS courses will be oriented toward Version 4. It is strongly recommended that users plan to attend these sessions prior to their conversion to Version 4.

Throughout this year, Software AG has been responding to the increased demand for educational services by increasing the number of course offerings for both Com-plete and ADABAS, as well as expanding the Reston-based education staff. The increase in demand has been particularly evident in the increased enrollment for public training classes. For several classes it has been necessary, unfortunately, to turn away students as a result of excessive enrollment. If you plan to attend or send someone to one of our Com-plete or ADABAS classes, **it is strongly recommended that you register at least three weeks in advance.** We sincerely apologize for any inconvenience caused by the increase in enrollment. To compensate for the increase in demand, Software AG in 1980 again will expand the number of public classes. You can expect to receive in November a new education catalog with a schedule of the public classes for 1980.



## CLASS SCHEDULE

September - December 1979

CLASS MONTH	USING ADABAS	ADABAS INTERNALS	DBA	[DBD] DA	ADACOM	DESIGN WORKSHOP	[LBMS] DESIGN METHODOLOGY	NATURAL	V4 ADABAS FACILITIES & CONVERSION	Com-plete APPLICATIONS	Com-plete INTERNALS
SEPTEMBER	LOS ANGELES Sheraton Town House September 10-13		LOS ANGELES Sheraton Town House September 27-28		LOS ANGELES Sheraton Town House September 14	LOS ANGELES Sheraton Town House September 26		RESTON Sheraton Inn & Int'l. Conf. Center September 5-6	LOS ANGELES Sheraton Town House September 17		
	OTTAWA Data Logic Training Center September 25-28										
OCTOBER		NEW YORK Sheraton St. Regis October 17-18	NEW YORK Sheraton St. Regis October 15-16	RESTON Sheraton Inn & Int'l. Conf. Center October 1-3					HOUSTON October 8-9		
									NEW YORK Sheraton St. Regis October 19		
NOVEMBER	NEW YORK Sheraton St. Regis November 5-8 Version 4	RESTON Sheraton Inn & Int'l. Conf. Center November 14-15 Version 4		LOS ANGELES Sheraton Town house November 28-30	NEW YORK Sheraton St. Regis November 9	RESTON Sheraton Inn & Int'l. Conf. Center November 16			RESTON Sheraton Inn & Int'l. Conf. Center November 13	RESTON Sheraton Inn & Int'l. Conf. Center November 26-30	
DECEMBER	OTTAWA Data Logic Training Center December 4-7 Version 4	OTTAWA Data Logic Training Center December 17-18 Version 4	RESTON Sheraton Inn & Int'l. Conf. Center December 6-7 Version 4		RESTON Sheraton Inn & Int'l. Conf. Center December 13	RESTON Sheraton Inn & Int'l. Conf. Center December 5		RESTON Sheraton Inn & Int'l. Conf. Center December 3-4			RESTON Sheraton Inn & Int'l. Conf. Center December 10-12



## CHANGE/ENHANCEMENT REQUEST PROCEDURE

A request for changes and/or enhancements may originate from any user of a Software AG product. Completed forms should be sent to the Change/Enhancement Coordinator:

Mr. William Thornton, Change/Enhancement Coordinator  
The Superior Oil Company  
P.O. Box 1521  
Houston, Texas 77001  
(713) 751-4802

In order to be included in the current year's voting list, a request must be received at least 12 weeks prior to the Annual Users' Conference. However, it would be appreciated if requests could be submitted throughout the year rather than just before the deadline. A detailed schedule will be published in the User Newsletter.

1. Name of the product to which the request applies.
2. A short title for the request.
3. The Category in which the request should be classified, e.g. nucleus, utilities, mapping, performance, etc.
4. A complete description of the request giving sufficient detail to allow all users to fully understand the proposal. Please emphasize the problem rather than a detailed solution and remember we are after long-term goals, not immediate fixes.
5. List the benefits as you see them.
6. Supply the date of the request, name of requestor, company name and address and telephone number.

Please feel free to reproduce this form if more copies are needed.

\_\_\_\_\_  
(Product Name)

\_\_\_\_\_  
(Title of Request)

\_\_\_\_\_  
(Category)

Complete Description of Change/Enhancement (Please type):

Identify Benefits:

Date: \_\_\_\_\_

Submitted by:

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

**For User Group Use Only:**

Request Number: \_\_\_\_\_

Date Received: \_\_\_\_\_

Received by: \_\_\_\_\_

Consolidated with

Request Number: \_\_\_\_\_

## DATES TO REMEMBER

December Newsletter

- copy due — November 1




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