




FAIRCHILD
A Technology Company

Published for the Employees of Component Test Systems of San Jose

LATE LATE LATE
May 1982

The Marathon Man



Ron's anticipation of the big event... "There's nothing like running in the Boston Marathon! There's so much enthusiasm, celebration and motivation!" Ron's reaction after running the course you ask? "It was the hardest race I've ever run, but it was also the most fun! The crowds that lined the streets were great! Little kids were holding out their hands as we ran by so we could hit them; they were handing us ice cubes and orange slices to help us avoid dehydration.

"Rise and Shine" is a familiar tune for most everyone. But what about rise and shine at 4:00 a.m.? RON NELSON has the early bird's viewpoint. In the wee hours of the morning, he jumps to his feet, does stretching warm-up exercises, runs eleven miles, does cool-down exercises, and then comes to work for a full day of challenges in Production Control.

For Ron, the "payoff" was the 86th Annual Boston Marathon on Monday, April 19. It's a thrilling, exhausting and climatic event for the serious long distance runner. The world famous Boston Marathon is 26.2 miles of varied terrain that actually proves to be rather deceiving. It starts with downhill slopes, which oftentimes causes a runner to start out too fast making it difficult to set a steady pace.

"They even hosed us down a few times to keep us cool! When I finished the race, I went to the First Aid Tent to lie down...there must've been 700 cots in there with the people on them being fed intravenously. Some arrived in wheelchairs or were carried in by volunteers. I thought there would be at least seven deaths! I was lucky though - I seemed to be alright after about only ten minutes!"

Ron's training to qualify for the "big one" began by running in high school, basically for fun and his own conditioning. He has been involved with

competitive racing for about four years and has been racing in marathons (five of them) for only two years. To have qualified for the "Boston" in only two years is quite an accomplishment.

One last question for Ron was, "Have you ever 'hit the wall'?" Ron just smiled and said, "I've never hit the wall hard like some runners. Hitting the wall means your body suddenly wants to violently rebel. It's physically exhausted, in pain with leg cramps, and your breathing is somewhat labored. Your muscles just want to stop and try to tell you they're not going to move again - ever. At this point, the mental attitude is crucial. You must always keep the mind positively active and convince the body that it can and will keep running. The next step is obvious - KEEP RUNNING!"

Ron crossed the finish line with a time of 2:59:38, and placed 1,977th out of approximately 7,600 runners. Quite an accomplishment Ron, and each and every one of us is proud to be working with the "Marathon Man!"

Sue Curtzwiler

Series 50 — the FAST way to the future.

The 1990's are here at Fairchild with the production of the new Series 50 just around the corner. The Series 50 is the largest ATE system that Fairchild has ever designed and built - but size is not all...the designs of the Series 50 are all state-of-the-art! With the use of hybrid devices and gate arrays, the Series 50 is unique to any other system that Fairchild has ever built.

The Series 50 Hardware Design Team is headed by Bert Graeve, with Bob Burnett as the Software Program Manager. Bert and his staff are working hard on the design of the Series

50. The software team goals are to have the basic Series 50 software components available to demonstrate in October of 1982. The first Series 50 system will be delivered in July of 1983.

The Series 50 will be able to test high speed, high complexity bipolar and MOS VLSI devices in a manner that will go beyond the capabilities of the current Series 20. In addition, the throughput of the Series 50 will be five times that of the Series 20 in production programs, and user test program development will be at least twice as fast as that of the Series 20.

The software of the Series 50 will be significantly easier to use in terms of command structure, language syntax, and friendly software. Given the proper maintenance procedures, the Series 50 will have 95%+ uptime and 90%+ availability.

The overall Series 50 test system will be two basic sub-systems: the Test Area Manager and the Distributed Test Unit, (TAM and DTU, respectively). In the TAM, up to eight DTU's will be under indirect control. Also, the management of facilities, data, programs and networks related to

Continued, next page.

State of the Business

On April 28, 1982, all GP-LSI employees attended general communication meetings to discuss the state of our business with General Manager, Lanny Ross. Following are a few of the highlights from these meetings.

Mr. Ross began by summarizing our business and the affect the economy had on it in the first quarter of the year. Since the beginning of Fairchild history, the trend of the bookings/billings cycle has remained consistent. Typically, November and December are our biggest months for business, with a sharp decline following in January. 1982 has not been an exception to this. The difference this year though, is that orders were below any previous first quarter in our history. Hence, a cost reduction program was implemented. In order to avoid layoffs and extended plant shutdowns, the first step taken towards cost cutting was to extend the Memorial Day weekend. "We regret the necessity of asking people to take those days as vacation or PPA, but the alternatives are much less desirable," Lanny emphasized.

Other cost cutting measures include the installation of a new guard facility between the two buildings. Savings in security expense will exceed \$100,000 per year. When the new guard station opens, the only other entrances to the facility will be the two main lobbies, and on a restricted basis, the rear Training Lobby in Building 32. However, the guard facility between the two buildings will be accessible from either parking area. The project should be completed by the end of June.

Another security related cost cutting measure is the implementation of the new badge system. "We're getting to the point where we have a lot of very valuable information to protect which represents millions of dollars of investment. We are not willing to make it easily accessible to people outside of the company." Lanny feels that the new badge system is necessary, and replies on the subject of theft, "God help anybody we catch; they're going to go to jail forever! I don't think people realize what happens here when they take critical material. It ripples throughout the entire company!"

Mr. Ross then went on to share his impressions of his recent visit to Japan. "Despite the severe difficulties we had during 1979-80 in falling behind in the technology of our business, we still hold a strong position and reputation in Japan." According to Lanny, we are now committing an unprecedented level of resource to not only regaining our technological leadership, but to dominating it as well. Half of our engineering budget is being spent to enhance our software superiority. "It's going to be so good, that the competition can never hope to compete on an equal footing with the new products coming out of this division," says Lanny. The Japanese people are dedicated to market share and to high product quality and reliability. They will talk about these things more often than performance, and are more meaningful criteria for use in selecting a new test system than even price. "We have to keep these things in mind when we design new products."

In summary, Lanny feels that the closure of the Building 36 Cafeteria will solve the logistics problem of getting together more frequently. "We have not talked often enough," he says, "and I may take possession of it just for that purpose!"

Denise Hutson

FAST Continued

device test programming will be indirectly controlled by the TAM. Under the DTU, the Test Hardware System is directly controlled. The Distributed Processing Unit (DPU) makes up part of the DTU also, and is made up of coupled networks of Digital Equipment Corporation (DEC) and Motorola processors along with peripherals and software.

The Series 50 may be a new term to some of you, but it's far beyond preliminary stages. Many of the printed circuit boards used in the system are in layout, and others are going through review and design cycles. Test Engineering is starting to develop test programs for the circuits used in the system, and Reliability Engineering is analyzing component and system reliability.

The Series 50 project is well on its way, and when it does arrive, everyone at GP-LSI will be involved with it. So keep your eyes open for the 1990's... they may be closer than you think!

Dave Witts



"Through
Thick
&
Thin"

When Julie Price and Rita Ackerman began their careers at Fairchild in 1968, little did they know they were destined to become close friends. Their first positions at the Sunnyvale location were in the Chassis Department working side-by-side. Julie left Fairchild a year later for another company and was caught in a layoff shortly thereafter. She spent the next two years as a housewife with one of the years spent recovering from an accident. Rita continued on at Fairchild and was herself caught in a layoff in 1970. She also spent the next year as a housewife, and in 1971, both of them, knowing a good thing when they saw one, returned to Fairchild.



1968 - Julie on left, with friend center, and Rita on right.

Currently, Julie works in the Model Shop under Ed Smith, and Rita is a Rework Specialist reporting to Steve Bowen. They often go out together after work on Fridays, and each year at Christmas they exchange gifts. Both are happily married with kids to raise (Julie has 5, and Rita has 3), and when time allows, they keep themselves busy crocheting afghans. With the economy in the shape it's in right now, and the future uncertain, one thing remains the same; their friendship will continue "through thick and thin!"

Linda Brewer

The Question Man

What is the most unusual situation you've experienced in your years as a secretary in regards to incoming and outgoing phone calls?



A Recruiter: "Hello there - perhaps you can help me. I just flew in from Japan where I had attended a party with one of the men in your department. I'd like to get together with him, but can't remember his name. Would you mind reading the list of employees there? If I heard the name, I'd remember it!"

An Emergency: "Would you tell Janis that her backyard is on fire?!"

Gayle Kwarta, Executive Secretary
MIS Department



While covering for one of the other secretaries when she was on vacation last summer, a man called for her boss. I told the man he was on vacation, so he then asked to speak to his secretary. Before I could think, I told him that she was also on vacation that week. He started laughing and I then realized how it must've sounded! It turned out he was a close personal friend of the manager and his wife, so he got a real kick out of threatening me that he'd call the manager's wife about it, though I kept insisting that they were NOT on vacation TOGETHER! He did tell them, and everyone got a good laugh out of it. My face was sure red when they came back to the office the next week!!

Carla King, Executive Secretary
GP-LSI Sentry Engineering



Many of the calls that come to my extension are requests for information about products - some obsolete or for other divisions. The following was kind of a change of pace: The young lady caller obviously had no conception of the size of the Fairchild complex (not too unusual). She had been at the Gourmet Restaurant the

day before and was talking to a Fairchild employee who was interested in buying the Volvo she had for sale. She had lost his card but would recognize his name if she heard it. Could I give her some names of applications engineers or had I heard of anyone who was looking for a Volvo? I suggested that since she had been in Palo Alto, perhaps the person worked at R&D, gave her the phone number, and wished her a LOT of luck!

Marian Oswald, Executive Secretary
GP-LSI Marketing



I called information for the number of a local hotel so I could get a room for

a customer. I called the number, asked for the Reservations Desk, and the operator transferred the call. When I requested a room, the party asked what DOCTOR I wanted! I said I didn't want a doctor, just a room, and she informed me I had been connected to "Admitting" at O'Connor Hospital!

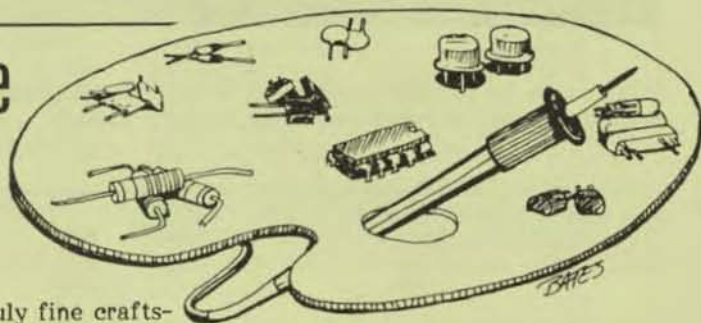
Joyce Lull, Executive Secretary
GP-LSI General Manager's Office



Well ladies, at least it keeps it entertaining, right?

Dave Witts

Machine Age Craftsmen



Do you believe that truly fine craftsmanship is a lost art, and that the craftsmen who labor for hours to perfect the most meticulous detail of a design are a vanishing breed? Well then, stop by PCB Assembly where we assemble our printed circuit boards! In the art of design, color is to form, what verse is to prose - a more harmonious and luminous vehicle of thought.



PCBA Department

In the electronics business, we use color to define the electronic value of each component - and we use all the colors of the rainbow! The first thing we must learn is our color code, for here there is no covering up a mistake. If you were to use one component with a small line of red instead

of violet, you would have changed the electronic value from two points to seven, thereby making your board worthless! Reworking a board is like resetting a stone in a piece of jewelry. You have to know how to flow red hot solder down a wire no larger than the end of a needle, and how to make a tear drop of solder no larger than a pin head. Our artists use a board instead of a canvas, and colored electronics components instead of oil paints. In place of nature, we use a blueprint for our pattern.

Most of these boards are covered with colored components that we labor on for hours to perfect the most meticulous detail of each design. Each component that is placed on a board must speak a language of its own when put into the computer. While the purpose of these boards is not to please the eye of the beholder, some of them are beautiful! Some are backed in copper plated silver, and others with circles of gold. We are craftsmen that take pride in our craft - a cog in the wheel of production of a product we take pride in.

Barbara Herrmann, Guest Writer
PCBA Department



May's winner for Photo of the Month is CHUCK IDLER of our Technical Publications Department with his submission "Dusk at Pacific Grove".

BENEFIT\$

VACATION ACCRUAL

During your first year of employment, you are credited with five vacation days after the completion of six full calendar months of employment. Again, after the completion of the second six full calendar months, you receive a second credit of five vacation days. The following schedule is used for succeeding years:

Vacation Schedule
(Effective January 1, 1982)

Number of Full Years of Employment*	Vacation Days Earned Per Year	Hours Accrued Per Month
1	10	6.67
2	11	7.33
3	12	8.00
4	13	8.67
5-9	15	10.00
10-14	18	12.00
15+	20	13.33

* The next higher accrual rate will apply in the month in which the full year of employment is attained. For example, a hire date of 1-4-82 will accrue 11 days beginning in January, 1984.

All permanent full-time and part-time employees are eligible. Part-time employees accrue vacation at half the rates indicated above.

You may accrue two times your annual accrual rate, but once you reach your maximum, there are no further accruals until you are below your maximum.

Angie Carey

MEDICAL TALK

High Blood Pressure Month—
May 1982



Here's a quiz for people with high blood pressure. Ask yourself: How high is my blood pressure now? How much lower should it be? What do I have to do to bring it down to that lower level? If you know the answers to all three questions, then you and your doctor have a good partnership going. You already know what part you play in controlling your blood pressure and how to keep track of your progress. If you couldn't answer all three questions, visit the Medical Department during the month of May, get a free blood pressure check, and ask these and other questions you may have about your blood pressure.

HIGH BLOOD PRESSURE...
TREAT IT FOR LIFE

Pat Alvarado
Health/Safety Coordinator



SAFETY TIP: Nothing protects you better than constant safety awareness.

DATA BITS Staff, etc.

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Photographer	Dave Witts
Cartoonist	Bruce Bates

Editorial Policy

All articles submitted are subject to editing and will not be returned. Articles submitted in one month will be printed in that month provided that available space and issue size allows. All articles contents must conform to common sense and decency standards, and to established company policies.

Deadline

Deadline for submitting classifieds, suggestions, and contributions is the third Monday of each month.

Please address all correspondence to DATA BITS, M/S 36-301.



Alex Catli with about "5 lbs. of money" ready for pay day!

20 Years!

Alex Catli is a member of our Payroll Department, and is someone well known and loved by all - on payday! Alex was hired by Fairchild Semiconductor in 1962 as a Timekeeper and has "been around" Payroll ever since. Later, Alex transferred to the Instrumentation Division in the Cost Accounting group, and also acted as Interface to Mtn. View Payroll. In 1972, Alex was transferred to this division, again working in Cost Accounting and acting as Payroll Interface.

Since August of 1981, GP-LSI has had its own payroll system and Alex says, "It's great to have our own payroll." Previously, all PAN's (Personnel Action Notices) were sent straight to Mtn. View Payroll, and all questions regarding pay were funnelled through Alex before he had any knowledge of the pay action. Even so, he prefers a payroll function over Cost Accounting because of the employee contact. He says, "Payroll is much more controlled now." As much as Alex likes the new payroll system, he hopes to see more payroll processing equipment in the future.

Alex's favorite hobby is fishing - especially the deep-sea variety. He goes fishing on weekends regularly and feels that at least there is a chance of obtaining a return for his time!

Clareen Shafer

5 Years (March)

Mike Prater Sr. Test Engr.

5 Years (May)

Bahram Ghods-
Showghi Sys. Test Spec.
Ray Gore Sr. Prod. Engr.
Jean Hare MIS OPS Sys. Mgr.



10 Years!

Carolyn Cordova was hired by Fairchild's R&D Division in 1972 as an Assembler Trainee. Now with this division, Carolyn is an Electro/Mechanical Assembler Specialist.

Carolyn has worked almost exclusively with chassis and has experience in most of the functions in that department. For the past month though, she has been with the Cable Department working with carousels. Of her many duties with Fairchild, Carolyn's favorite has been wire wrapping.

In her off-hours, she spends as much time as possible with her daughter Laura, age 11.

Clareen Shafer

3 Years

David Abdo
Lenny Deddo
Tim Deroboam
Denise Hutson
Mack Jackson
Chong Kim
Lein Nguyen
Van Nguyen
Fahri Repishti
Kim Tidd
Tim Wrye

Des. Engr.
Quality Engr.
Tech. Maint. Suprv.
Sr. Exec. Secty.
Elec. Insp. B
Asst. Elec. Tech.
Rec. Insp. B
Sys. Test. Spec.
Inter. Clerk
Expeditor
Sys. Test Suprv.

Clareen Shafer

New Employees

For the Months of March and April

Craig Delamore	Staff Engineer
Raymond Eberhardt	Engr. Writer
Carl Farmer	Sci. Programmer
Walter Kaufman	Sr. Des. Engr.
Deborah Kepley	Sr. Elec. Tech.
Judy Kishimura	Software Engr.
John Liu	Sr. Reliab. Engr.
Mathew Menzel	Software Engr.
Darride Nguyen-Khoa	Software Engr.
Brian Rossi	Mechanical Engr.
Denise Scholz	Sr. Prod. Engr.
Linda Yamanoha	Software Engr.

Mary Bettencourt

Rec Council News...

Listed below are the officers and members of the Rec. Council for 1982.

PRESIDENT Linda Brewer	MEMBERS:
VICE PRESIDENT Tom Bettingfield	Valery Carpenter
TREASURER Steve Boshnyak (2nd Shift)	Sherry Gallo
SECRETARY Marey Crawford	June Moss
ADVISOR Nadine Faile	Rock Palladino
	Jacqui Poore
	Stuart Puryear
	Marie Shane
	Gary White



The Russian River Canoe Trip is scheduled for Sunday, June 6. The bus will leave Fairchild at 7:30 a.m. and return at 7:30 p.m. The trip includes wine tasting, four to five hours of canoeing and a barbeque chicken dinner at the end. All this for \$27.00 per person! To sign up, contact Sherry Gallo in Personnel x2786. Don't delay, sign up now!

Be creative and volunteer to do face painting at the company picnic! A workshop will be held on Saturday, June 5 at 11:00 a.m. If interested, contact Rock Palladino at x2407.

Tickets for the Company Picnic will go on sale Thursday, May 27, 1982. Prices are \$3.00 for children, and \$4.00 for adults. Get your tickets early, and we'll see you Saturday, June 19, at Saratoga Springs for the time of your life!

Linda Brewer

BITS & PIECES

Congratulations to DAVE WITTS of our Test Engineering Department (and Data Bits Photographer), and his bride-to-be KATHY RAMSEY (Communications Department) on their recent engagement! Dave decided to pop the question on their one year anniversary together, and chose the top of Harvey's in Lake Tahoe as the setting. Though no definite wedding date has been set, sometime next spring looks like a possibility!

•••

"Love is in the air" in our Communications Department lately! RITA MILLER has recently announced her engagement to Ezra White, a Printer for Intel in Santa Clara. When asked if they had set a wedding date yet, Rita responded, "undecided - I think we'll take it one step at a time!"

•••

Congratulations to STACEY SELLIN (Test Engineering Department) and his wife BARBARA on the recent arrival of their baby daughter SHELBY NICOLE. Shelby was born on March 31, 1982, at 7:00 in the evening, and weighed in at 6 lbs., 7 ozs. Both mother and baby are doing fine, and Pop took the week off to help get her settled in.

•••

Double your pleasure, double your fun, and join us in congratulating LEN KRUKOWSKI (Product Sales Department) and his wife LINDA on the births of their fraternal twins KIRA MARIE and NIKOLAS JACOB! They were born on Friday, April 9, 1982, (Good Friday!) at 10:30 and 10:31 a.m., and weighed in at 5 lbs., 12 ozs.,

and 6 lbs., 11 ozs., respectively. Kira measured 19" long, and Nikolas measured 3/4 of an inch taller. Dad is all smiles and floating on a cloud these days, and says, "Now the fun begins!"

•••



Please join our staff in welcoming MARIANN SOLARI to the team at DATA BITS! Mariann has been with Fairchild for 2-1/2 years, and works as a Senior Clerk for the PCB Assembly Department. She will act as the focal point for any of you that work within the Production or Test Operations organizations that wish to give input for the newsletter. Again, welcome Mariann, we all look forward to working with you!

Denise Hutson

•••

Any photos submitted to DATA BITS for use as Photo of the Month will be kept on file for a period of approximately 90 days unless you specify that you would like them returned to you sooner. And please...don't be shy! We're sure you must have a favorite photo in your album that would be enjoyed by all - so go ahead and submit it to us!

Want to see more Word Search Puzzles in DATA BITS? Want to perhaps design one yourself or expand to crossword puzzles? Let us know your preference, and if you would like to take pen in hand and give it a go, give us a call at x2256, and we'll help if we can!

•••

The Cafeteria in Building 36 closed for business on Monday, May 17. At the present time, the Cafeteria in Building 32 is opened with full services for both day and swing shifts.

CLASSIFIEDS

This column is a service for Fairchild employees only. Advertisements from commercial organizations or their representatives will not be accepted.

For Sale: Honda CL175 - Street Bike. In mint condition. Best '73 bike around. Only 5900 miles on it!! 60 mpg - 4 speed. O.K. for highway. \$550. firm. Contact Dennis Levy at x2266, or (408) 272-2327. (Will consider trade for larger bike).

For Sale By Owner: 3 Bdrm/2 Bath seven year old home in excellent condition. 1642 sq. ft. located in Blossom Valley near IBM. Asking \$105,000 but will negotiate. Contact Meena Advani at x2009 or after 5:00 at 629-8119.

Room For Rent: Female/non-smoker only. \$200/month including utilities, located in Milpitas. Contact Clara at x2168.

I have a Question,
but don't know who to
go to for the answer.



Well then, let **DATA BITS** do the asking for you by submitting your question(s) of general interest to our staff. We will then do our best to get your company related question(s) answered for you.

If sufficient interest exists in any one subject, it will be responded to in Data Bits at the earliest opportunity or will be addressed at the next employee meeting. If you prefer a confidential answer, either by memo or phone call, please sign your name below.

Name _____ X _____ M/S _____

Address all correspondence to DATA BITS at M/S 36-301

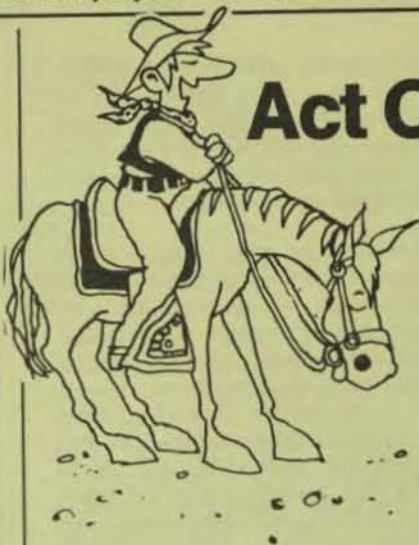
South San Jose Study Completed

A material balance study of Fairchild's South San Jose facility was recently completed and announced to the media. The study followed Fairchild's discovery on December 4, 1981 that an underground solvent storage tank at the plant had failed, resulting in a leak which affected a nearby water well. Well #13, owned by the Great Oaks Water Company, was taken out of service on December 7, 1981, when it was found to contain amounts of the industrial cleaning solvent 1,1,1 trichloroethane (TCA).

The report, filed with the Regional Water Quality Control Board, compared quantities of the incoming chemical solvents to quantities of materials consumed in the manufacturing process or removed from the plant to approved waste disposal sites. The report indicates that the probable failure occurred sometime after mid-1980 and that about 58,400 gallons of solvent could have leaked prior to the discovery.

Fairchild also announced the results of studies conducted by an environmental engineering firm, Canonie Environmental Services. This study shows that Well #13 could have been affected by the solvent for about three months before it was disconnected from the system.

Remedial measures began immediately after the problem was identified and are proceeding under Canonie's supervision. These measures include recovery and treatment of water from Well #13 and other ground water services. Public drinking wells, irrigation wells, and about 40 test wells in the area continue to be monitored.



Act One, Scene One!

After a couple of years had gone by and everyone had put their careers behind them, Rita arrived home from work one day and was told to return a call to Warner Brothers in San Francisco. Would she be interested in a part in "The Right Stuff?" — you bet!

Rita went for an interview for the part and details of the movie were then filled in. The scene would be a 1962 parade and barbecue in Houston, Texas, celebrating the arrival of our astronauts. They gave her a list consisting of the time, place, type of make-up and wardrobe she would need.

The big day finally arrived, and Rita was on her way to the Cow Palace where the shooting was to take place. Walking inside was like taking a step into the heart of Texas! Old Glory was flying high and wide along with the lone star of Texas. There was food everywhere — and all of it real! Eight barbecue pits were in action with real sides of beef sizzling away. Unbeknown to Rita at the time, was that the beef had been roasted two days beforehand with blowtorches and that a special liquid was being used to make it look like there was some real cookin' going on!

What a scene! The parade consisted of cowboys on horseback (who must have been saddlesore after ten hours of shooting!), Texas Rangers dressed in radiant costumes, and spectacular Lincoln convertibles.

After eleven hours, Rita was exhausted and headed on home. Was the glamour, excitement and anticipation of the time it would take worth it all? Yes! Yes! Yes!

The picture will hopefully be released by the end of this year or early 1983. For now, we must all wait to see the newest star of Fairchild.

I would like to thank Rita for all her help and time in getting this article together. I most certainly enjoyed the interview, and maybe, just maybe, someday another star will be discovered!

Mariann Solari

Did you know we have a "Hollywood Star" right here at Fairchild? Mrs. Rita Ackerman, Electronic Assembler Specialist, in our Sub-Assembly Test Department, will be appearing soon, "at a theatre near you" in "The Right Stuff" based on a leading 1980 best-seller by Tom Wolfe!

It all began a few years ago while Rita and her two teenagers Tina and Troy were on their way to do some shopping. The car radio was blasting (as we with teenagers know), when the announcement for movie extras was aired. It sounded like fun, so mom and kids followed the instructions and stopped by their local Chamber of Commerce. Quick and simple — snapshots were taken, and they were told they would be contacted if a need arose.

A few weeks later, Tina and Troy received a call to audition for a part in the television movie "Confession of Miss Leona" starring Lee Redgrave. Troy, unfortunately, was too young for the second lead, so he and Tina played college students.



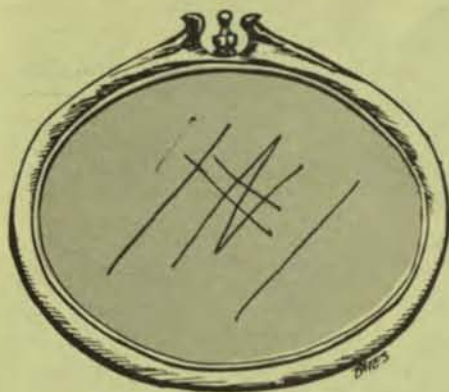
Everybody Will Do It



This is about four persons named Everybody, Somebody, Anybody, and Nobody. There was an important job to be done and Everybody was asked to do it. Everybody was sure that Somebody would do it. Anybody could have done it, but Nobody did it. Somebody got angry about that because it

was Everybody's job. Everybody thought that Anybody could do it, and Nobody realized that Everybody wouldn't do it. It ended up that Everybody blamed Somebody, when actually Anybody should have known that Everybody was to blame.

Mirror, Mirror On The Wall



"Mirror, mirror on the wall, who's the fairest one of all...?" Remember that fantasy story? Think then of "Oven, cooler, heat us high and cool us low; tester, tester find us strong and ready to go." Yes, ready to go out the door to a customer in absolute top condition and of course, the "...fairest of them all."

Let's take a look into that magic mirror to see just how Quality Assurance functions and what its impact on the company is. Mr. Bob Hasterlik, Manager of Q.A., describes his department's charter as one to help the division design, build, and deliver the best systems possible. An example of Q.A.'s role in design is accomplished by a relatively new concept of working closely with Engineering "...to design in quality as opposed to trying to paste it on later."

Incoming orders also pass through Quality Assurance. Actually, they are handled in two areas. Q.A. monitors incoming parts by tracking record certification; Manufacturing performs an inspection routine. According to Bob, there have been instances where a vendor's process went bad on him, we caught the problem and returned the merchandise, thus a means to protect our own product.

There are many criteria involved in producing a quality product. A few examples of hardware testing are temperature, stress, and post-installation. Temperature can be important for quality in performance. Extreme temperature changes or high operating temperatures affect a system's performance. Temperature testing is also a type of stress test for parts. The Post-installation is our method of monitoring the product, the installation, the "power-up" and any problems that might occur or that may surface later. Customer Service and Tech. Services work together for follow-up.

The Software has its own testing measures to stand up against. First, good data is used to determine if the programs are working correctly. Likewise, bad data is used to determine if the correct "error" or "warning" messages are displayed. This kind of data testing also demonstrates if the particular tester is working properly according to its design specifications.

Marketing also has contact with Q.A. Currently, they are working together on the Series 50. For example, Q.A. is watching its development and following the specifications, forecast and delivery schedules right along with Marketing and the factory.

Tech. Services also contributes to the effectiveness of Q.A. "We have somewhat of a unique set up in the industry with Tech. Services reporting through our organization — often they report through Field Engineering. This gives us a very strong view into the field. We can see what's happening to our equipment after we ship. We can learn where our weak points are. We're building a Q.A. organization of top notch engineers so that we can work one-on-one with Engineering. We want to be in a position where we can suggest solutions. There are times when we have to make unpopular decisions...we have to look at a machine not just from a profitability standpoint as it ships off the loading dock, but over its life.

Another new spotlight feature for Q.A. is that they are currently predicting failure rates of new systems. This is done by collecting actual history and actual failure rates on current products, and by analyzing the product with intricate statistical methods to calculate MTBF (mean time between failures). By comparing actual data with calculated MTBF, we then have a higher confidence level when we calculate MTBF for a new product (such as the Series 50) so that we'll know what to expect. It also finds weak spots before the product is finished. This will prove to be extremely helpful and timesaving in design, and final availability. This is particularly critical today, as product reliability is a key competitive issue.

I think it is easy to see that no one department works on its own. Q.A. has some very tight networks that are crucial to the success of our products. They are working diligently on the promise of turning out the best product possible and that includes purchasing only the best parts. It is quite obvious that the story of Q.A. is not one of fantasy. An overall statement from Mr. Hasterlik, "We're here to help, to certainly help by shipping good products, to help in design, and to make the system more manufacturable." That's no fairytale; it's serious business!

Sue Curtzwiler

"Let's Make a Deal"

Selling one of our test systems involves a lot more than convincing a customer that he can't survive without one! Our Credit and Collections Department gets involved long before the contract is drawn up. Bruce Tarbox is the person responsible for determining if a new customer indeed has the financial capability to write us a check for anywhere from \$300,000 to a million dollars. He also needs to know if they pay their bills on a timely basis. With our terms being Net 30 days, we can't afford to take a chance on someone who will make two or three payments, 90 to 120 days down the line. We want to be paid according to our terms.



GP-LSI's Credit and Collections team, Bruce Tarbox (L) and Eldon Garrett (R).

Since Fairchild is an unsecured creditor, granting an open line of credit to a customer for a system worth half a million dollars requires a very conservative approach. In cases where Bruce is dubious about a customer, he works out other means of financing where the money is guaranteed — bank loans where the money flows straight to us from the bank, letters of credit and third party leases. A third party lease is where the lease company owns the system and the customer makes payments to that company. He recently did one where the company opened up a certificate of deposit in our favor. The customer continues to earn interest on his money, but when the certificate matures, that money is ours. They can never withdraw it or hold it back at that point. "What we want to do is make the sale, so we have to be a little creative in helping the customer," says Bruce.

In one instance, we had a customer in Pennsylvania who needed his system by a certain date. They were going to use a third party lease but had't established who the lease company would be. Requiring a purchase order before we could take any action, Bruce "bent over backwards" to help the customer out. He got together with

Jim Cooper in Shipping and the Salesman, and said, "O.K., this is what I'm going to

Continued, next page.

"Let's Make a Deal" continued.

do...I'm going to put this machine on a truck with a long rubber band, and we're going to start that machine on its way. By Wednesday Mr. Salesman, you have to have that purchase order. If we don't have what we need by Wednesday, that machine is going to come back!" Fortunately, the customer found a lease company and the system arrived as planned, satisfying all parties concerned. This was a calculated risk that paid off.

Eldon Garrett is responsible for the Customer Service portion of Credit and Collections, which involves spare parts, field service, and training. While Bruce handles a low volume of invoices in high dollar amounts, Eldon takes care of an extremely high volume of invoices in lower dollar figures.

Bruce resides in Fremont with his wife and eight year old son. In his off-hours, he umpires high school baseball and plays an occasional round of golf.

Eldon is a bachelor with his home in Los Altos. An avid collector of antiques, old movies and all types of collectables, he spends his weekends haunting flea markets and garage sales.

Linda Brewer

MEDICAL TALK

Test Your Health



Most people have come to the conclusion that as long as they feel good, there is no reason to worry. The fact is that the symptoms of many serious diseases including heart disease, diabetes, high blood pressure, and liver disease may not rise to your conscious feeling until advanced stages. There are, of course, tests to help discover those symptoms long before you feel them.

Mediscan, a multiphasic health testing corporation, is dedicated to the preventative health field. Due to special arrangements with Mediscan, the Medical Department is offering to all employees and spouses, this valuable service whose purpose is to assess the presence of disease symptoms in your body. This examination is convenient, quick, and pleasant to take. The Mediscan Program will be coming to Fairchild ATE in mid-August.

Pat Alvarado
Health/Safety Coordinator

Safety Sense

Many people are unfamiliar with the Safety Committee. We are a group of your fellow employees working in various departments throughout GP-LSI/ATE who share in the responsibility for insuring safe working conditions. Our members are:

Andy Ferreira	Facilities	x2699
Jean Hare	MIS	x2267
Doug Headrick	Production Control	x2768
Roberta Hilmer	Production Control	x2423
Jeff Law	Engineering Lab	x2593
Henry Newton	Personnel (Bldg. 32)	x2441
Mary Piazza	Sales 80 Engineering	x2911
Rene Shales	Training	x2652
Rich Smart	SAT (Swing)	x2598
Mike Sutton	Manufacturing	x2250

You can identify committee members by a green cross pin attached to our badges.

Monthly meetings are held to review problems and corrective actions to be taken. You can help your Safety Committee members by being our extra eyes and ears, and when you see a potential safety hazard, bring it to the attention of your supervisor and/or a committee member.

To date this year, there has been a total of twelve industrial injuries which amounted to a total of 54 lost days of work. Two areas that plague us constantly are equipment or cords which block aisles, and shelves that are stacked with heavy, unsecured items that are above head level.

Let's everyone try to be more safety conscious.



The Safety Committee Members are (standing, L to R) Lanny Ross (Guest Speaker), Henry Newton, Rich Smart, Andy Ferreira, Mike Sutton (Chairperson) and (seated, L to R) Mary Piazza, Roberta Hilmer, Pat Alvarado, Rene Shales. (Not pictured, Jean Hare, Doug Headrick, Jeff Law)

You will be hearing more from your Safety Committee members on ways you can help make our company a safer place to work.

Roberta Hilmer



BENEFIT\$

The Fairchild Educational Aid Program is designed to offer assistance to employees who wish to further their employment potential at Fairchild, and to assist employees who want to acquire and/or retain skills or professional competence directly related to their present or probable future job assignments at Fairchild.

All permanent, full-time employees of operations within the continental limits of the U.S. including employees of domestic Fairchild subsidiaries and U.S. Expatriates on foreign assignment who have completed six months of service are eligible.

If you are approved to participate in the Educational Aid Program, you will be reimbursed at the end of each semester or period of study for the following: 90% of the actual costs for tuition, application fees, registration fees, laboratory fees, required textbooks, graduation fees including cap and gown rental, and thesis expenses.

Reimbursement will be made only for each approved and successfully completed course.

Prior to registration, you should do the following:

- * Obtain from your Personnel Representative, and complete, an Educational Aid Application (at least 30 days prior to registration.) Please note that applications submitted late could result in denial.
- * Obtain approval signatures from your immediate Supervisor, Department Manager and Division Controller.
- * Submit the application with above signatures to your Personnel Representative for final approval.

You will receive notification prior to registration of approval or denial of your application.

Happy learning!

Angie Carey

Old Fashioned Picnic Fun 1982



Photo/Collage by Dave Witts



20 Years!

Phil Noyes is the Supervisor of the Sustaining Engineering Group, and is a Project Engineer for the Sentry product line.

"I started with Fairchild twenty years ago with an engineering group making in-house automatic test equipment for the products that Fairchild was then building. This group grew and became the Test Systems Division. I have been in ATE for all twenty years at the engineering end of things, and I like the 'systems business' because the work is challenging and is always up to date on new technology."

"Off the job, I like to bowl and take trips to Reno to try my luck at the tables."

Phil Noyes/Clareen Shafer



15 Years!

Rudy Staffelbach was hired by Fairchild's Instrumentation Division in 1967 as an Engineer. His first project was working with the 4000MA system, which was the predecessor to the 5000C series of testers. Rudy is now a Senior Staff Engineer for GP-LSI. In the past, he was involved with the Sentry II, Sentry VII, and S-21 development, and is presently in the S-50 Engineering Group working on the high speed portion of that system. Rudy says he stayed in ATE because "It has always been interesting; always something new," and S-50 is no exception to that. He also contributes his 15-year stay to the many good people he has worked with here at Fairchild.

Rudy, who is originally from Switzerland, spends his spare time in the Winter participating in his favorite sport — snow skiing. In the Summer, he stays busy with his other favorite sports — water skiing and swimming.

Clareen Shafer



10 Years!

Alan Ashley started with Fairchild in 1972 as a Technician in the Sub-Assembly Test Department. From there, he moved into the Final Test Department and worked on 5000C testers. Later, he moved into QA and was the first person hired to do software evaluation for Quality. Of his past jobs, Alan says, "Electronics has always been interesting to me...I've learned a lot on the job." Alan is now a Software Engineer and says "I like the creativity and the challenge of software, I can really dig into things in depth in an engineering environment." Alan has received recognition for Technical achievement in his work on SAGE for S-20. He is now working on SAGE for S-50 and says, "Software is where everything is going nowadays; it's the future!"

Alan is involved in many kinds of sports activities and finds his home in Aptos the perfect place to live.

Clareen Shafer

20 Years!

Vince Schommer came to this division in July of 1962 after graduating from UC Berkeley with a BSEE. Since then, he has been involved in both hardware and software design of test equipment. Areas of experience include custom and standard products for testing transistors, diodes and integrated circuits. Vince's IC testing projects extend back to the testers and life test facilities for Fairchild's first logic family in 1962. His software design work began in 1967 with Fairchild's first computer controlled test equipment and continued with the Sentry family in 1971. During this same period, Vince attended the University of Santa Clara and received an MSEE degree in 1971. Starting in 1975, software design focused on microprocessor controlled test equipment. This pursuit involved Vince in working for the Microprocessor, Memory and Digital Equipment Divisions on microprocessor applications and CCD memory systems.

In 1980, Vince transferred back to the Test Systems Division and is currently a Senior Staff Engineer working on Series 50 diagnostic software.

Vince Schommer/Clareen Shafer



10 Years!

"I started my career at Fairchild in Sub-Assembly Test working on Programmable Automatic Transistor Testers...then it was on to Final Test for six years. In 1979, I transferred to the Sentinel Division as a Supervisor. Presently, I do qualification of new software and hardware products." (Bob Crabb currently works as a Technical Support Engineer in our Technical Services Department.)

"I enjoy the out-of-doors and have just recently bought a camp-trailer. The best thing that ever happened to me at Fairchild — I found (my wife) Ema!"

Bob Crabb/Clareen Shafer



10 Years!

Ilda Maciel has worked for Fairchild for ten years. She was hired as a Chassis Assembler Trainee when this division was still located in Palo Alto. Since moving to this location, Ilda has been working in the Cable Department and is now a Specialist. Ilda's comment on her last ten years here is, "I just like this kind of work!"

Ilda spends most of her spare time at home with her family.

Clareen Shafer



10 Years!

Jim Taylor, Senior Engineer, came to Fairchild in 1972 with a background in electronics. He was hired by the MOS Division and has since worked at the Time Products Division. Jim has had many varied assignments with Fairchild ranging from developing a watch repair tracking system on Syfa, to developing Sentry diagnostic programs. In 1979, he transferred to GP-LSI, and because of his previous experience as a Software Library Coordinator, was given his present responsibility of System Coordinator controlling the activities of all systems utilized to develop software, and of supervising personnel in SODC.

When he gets the chance, Jim likes to golf, loves to go fishing with his family and says, "If you're too busy to go fishing, you're just too cotton-pickin' busy!"

Clareen Shafer

New Employees

For the month of June

Steven Carroll	Engrg. Tech. II
Manchung Chew	Engrg. Tech. II
Frank Corr	Sftwr. Tech. III
Sharon Freeman	Sci. Prgrmr. Assoc.
Lyle Frohman	Sftwr. Tech. IV
Ronald Greenwood	Reliab. Engr.
Lisa Hebert	Softwr. Tech. IV
Alexander Holland	Des. Engr. Assoc.
Shih Neng Huang	Sftwr. Engr.
Joanne Hughes	Exec. Secretary
James Keith	Engrg. Tech. III
Nelson King	Staff Sftwr. Engr.
Glenn Kramer	Engrg. Tech. III
Niels Lauritzen	Engrg. Tech. II
Leroy Leahy	Sr. Sftwr. Engr.
John Lentini	Engrg. Tech. III
Michael Low	Draft. Des. Checker
James Lutz	Engrg. Tech. II
Penny McClure	Edit Term. Oper.
Richard Medrano	Drafter II
William Oscarson	Staff Mech. Engr.
Chris Parsels	Secretary
Kenneth Reeves	Des. Engr.
Herve Riaille	Sr. Sftwr. Engr.
Joseph Riordan	Staff Apps. Engr.
Fannie Starks	Sr. Comp. Engr.
Will Urschel	Sftwr. Tech. III
Dao Vu	Drafter I
Tim Zurcher	Sftwr. Engr.

Mary Bettencourt

Anniversaries

5 Years

Bob Cancilla
Jose Estrada
Ernie Meri
Cheryl Robbins

Mstr. Schd. Mgr.
Appl. Prgrmr.
T.E. Sycs. Mgr.
Sr. Planner

3 Years

Bernice Adame	Elec. Assem. Spec.
Gary Anderson	Sr. Elec. Tech.
Shawn Armstrong	Sr. Elec. Tech.
Charlie Ballard	Sys. Test. Spec.
Fernando Cabiles	E/M Assem. B
Maria Cabrera	Assem. B
Troy Cundari	Expeditor
Frances Duran	E/M Assem. B
George Fernandez	E/M Assem. B
Kathleen Hemingway	Shipper/Recvr.
Ken Hirschfeld	E/M Assem. B
Ben Husbands	Sr. Planner
Gayle Kwarta	Exec. Secretary
Ramona Menchaca	Prod. Plnr/Assoc. Schd.
Esther Moreno	Assem. A
Bob Murden	Engrg. Mgr.
Oscar Navasca	Sr. Elec. Tech.
Hong Nguyen	Sys. Test Spec.
Nga Thi Nguyen	Elec. Assem. B
Nguyet Nguyen	Elec. Assem. A
Sang Nguyen	Sr. Elec. Tech.
Ik Soo Oh	Elec. Assem. B
Jemell Phillips	A/P Supervisor
Van Cong Phu	Sys. Test Spec.
Andy Postulka	Sys. Test Spec.
Maria Rivera	Secretary
Carole Rondiak	Labor Clerk
Richard Savoca	Sys. Test Spec.
Rich Smart	SAT Suprv.
Rich Smith	Staff Engr.
Monica Speno	Sr. Buyer
Mike Strome	Sr. Elec. Tech.
Jeff Swan	Sr. T.E. Suprv.
Scott Wheelihan	E/M Assem. Spec.
Ray Woods	Sftwr. Tech. IV
Joyce Wrigglesworth	Buyer A

Clareen Shafer



Rec Council News

Make your reservations early for this year's trip to Oakwood Lake in Manteca! The weekend trip is scheduled for Friday and Saturday, August 13-14, and the cost is \$24. (\$12/night, two night minimum). Come prepared to enjoy the water slide, shooting the rapids, paddle boats, a swimming lake, and an arcade! For reservations contact Marcy Crawford at x2323.

Marcy Crawford



from the Editor...

You've no doubt noticed a recent change in our "Do You Have a Question" format. We are hoping that this new look will help motivate employee participation.

One of the many reasons for this change was that many of the questions we received in the past were seldom responded to adequately. We tried to remedy this situation by going to the sources ourselves to obtain answers.

After many months, and many new approaches to our procedure, we finally decided that something had to be done. We had to have a new plan.

It was then decided that the whole format of our questionnaire had to be revised. With the help of our graphics specialist, our new form was given a fresh look. The wording also changed to reflect an altered approach in getting your questions answered in a more timely manner.

We feel optimistic that our new plan will help in fine tuning communications here at our division. We hope all of you will feel this way too — so give us a try!

Norma Rouge (Asst. Editor)

DATA BITS Staff, etc.

Editor	Denise Hulston
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Photographer	Dave Wits
Cartoonist	Bruce Bates

Editorial Policy

All articles submitted are subject to editing and will not be returned. Articles submitted in one month will be printed in that month provided that available space and issue size allows. All articles contents must conform to common sense and decency standards, and to established company policies.

Deadline

Deadline for submitting classifieds, suggestions, and contributions is the third Monday of each month. Please address all correspondence to DATA BITS, M/S 36-301

BITS & PIECES



FRED PANELO, Engineering Services Manager for Series 80, proudly displays a gift of a "ball(s) & chain" given to him by co-workers three days before his wedding!*** Fred and Ms. Pamela Ponce were married on Saturday, June 19, 1982, at the Queen of Apostles Church in San Jose. Congratulations to you both, and I hope you found the key in time!

• • •

Congratulations go out to JANET KING (Executive Secretary, Test Engineering Department) upon her engagement to HARRY BOWERS. The couple plan to marry on August 28, 1982, in the town of San Mateo.

• • •

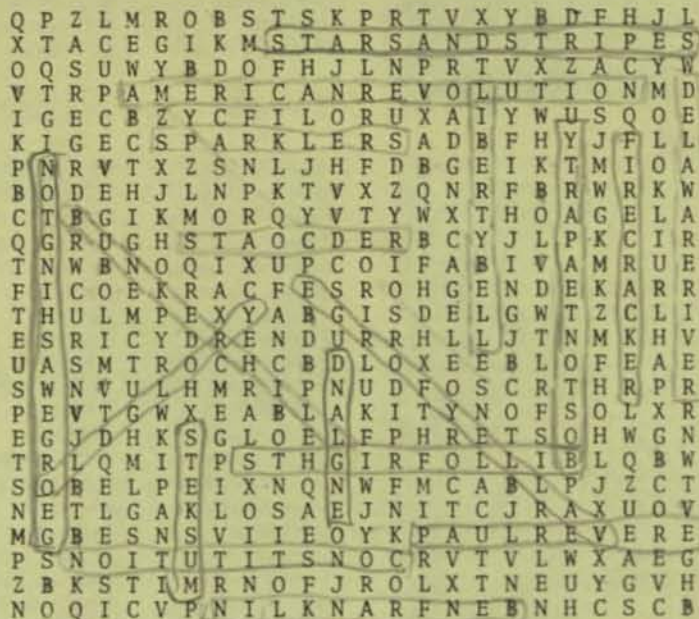
As recently appeared in Leigh Weimers column in the San Jose Mercury: "IBM has had a plant here for years, but IBM in Dayton, NJ isn't familiar with our city. YORKMAN LOWE says he placed a telephone order for a catalog from the New Jersey plant, only to have it arrive addressed to "San Hosea. Muses Lowe: The sender must be an Old Testament student..."

• • •

Congratulations to Miss Dawn M. Levy, daughter of Dennis Levy, Manager of GP-LSI Methods and Procedures, on being chosen one of five winners of the Sherman Fairchild Scholarship for 1982! Dawn, 18, graduated last month from Fremont High School and plans to major in biology at Stanford University this fall.

WORD SEARCH

This month's Word Search has been designed with the "All American" theme of July in mind. Have fun and good luck! Check the Data Bits Bulletin Board in Bldg. 36, Lobby 4, for the Answer Sheet. Designed by Norma Rouge.



- | | | | |
|--|---|--|---|
| <input checked="" type="checkbox"/> England | <input checked="" type="checkbox"/> Yankee Doodle | <input checked="" type="checkbox"/> Boston Tea Party | <input checked="" type="checkbox"/> Stars and Stripes |
| <input checked="" type="checkbox"/> Muskets | <input checked="" type="checkbox"/> Bill of Rights | <input checked="" type="checkbox"/> Paul Revere | <input checked="" type="checkbox"/> Walley Forge |
| <input checked="" type="checkbox"/> Betsy Ross | <input checked="" type="checkbox"/> Constitution | <input checked="" type="checkbox"/> Old Glory | <input checked="" type="checkbox"/> Sparklers |
| <input checked="" type="checkbox"/> Ben Franklin | <input checked="" type="checkbox"/> George Washington | <input checked="" type="checkbox"/> Bunker Hill | <input checked="" type="checkbox"/> Delaware River |
| <input checked="" type="checkbox"/> Redcoats | <input checked="" type="checkbox"/> Liberty Bell | <input checked="" type="checkbox"/> Firecracker | <input checked="" type="checkbox"/> American Revolution |

CLASSIFIEDS

This column is a service for Fairchild employees only. Advertisements from commercial organizations or their representatives will not be accepted.

Lost: Pentax 35mm camera (with film) and black vinyl case. Lost at Company Picnic on Saturday, June 19. If found, please contact Martin Gross at x2625.

Share A Condo: Berryessa, Ponderosa Woods. 4 bdrm/2-1/2 bath. Pool, patio, barbecue, etc. You may rent two bedrooms for \$450/mo. + 1/2 utilities, OR one bedroom for \$250/mo. + 1/3 utilities. Female(s) or male(s) reasonably quiet, clean and straight. Contact Dennis Levy at 272-2327 or x2266.

For Sale: 0.22 caliber rifle. Long barrel, bolt-action. Contact Yorkman Lowe at x2498.

I have a Question, but don't know who to go to for the answer.



Well then, let **DATA BITS** do the asking for you by submitting your question(s) of general interest to our staff. We will then do our best to get your company related question(s) answered for you.

If sufficient interest exists in any one subject, it will be responded to in Data Bits at the earliest opportunity or will be addressed at the next employee meeting. If you prefer a confidential answer, either by memo or phone call, please sign your name below.

Name _____ X _____ M/S _____

Address all correspondence to DATA BITS at M/S 36-301

Sue Shapiro is Citizen Ambassador

"I'm invited to be a member of an American delegation to China!", says Sue Shapiro of GPLSI's Engineering Department. "I really didn't believe it until June 17 when I left Fairchild, first for Seattle to be briefed, and then on to Hong Kong and mainland China to participate in discussions on management. The trip was organized by People-to-People, a non-profit program dedicated to improving international relations through a citizen ambassador program. I joined a 22-member delegation that was mixed in terms of professional backgrounds and experience, with a commonality of extensive training in Human Resource Management, i.e., the motivation and management of employees.

"Our Chinese host organization was the Chinese Association of Science and Technology, one of the management associations for scientific and technological enterprises; they were responsible for our activities throughout our seventeen days in China. Although required to prepare a formal presentation on an assigned topic, we were given little advance information about our itinerary or the people with whom we would be meeting, let alone what topics would dominate our meetings. Upon arrival in Beijing, we were officially invited to visit five cities: Beijing, (Peking), Dalian, Shenyang, Shanghai, and Guanchow (Canton)...to discuss a wide range of topics.

Fairchild '82 United Way Campaign A Success!

Friday, August 27, 1982, marked the official end of the '82 United Way Campaign for the Component Test Division. The '82 goal of \$38,493 was exceeded by \$12,464.88, making for a grand total of donations by Fairchild employees of \$50,957.88!

We would like to take this opportunity to thank all of you that participated in this year's very important campaign...thanks to you, it works for all of us!

Morrie Taubman, Chairperson, and
Karen Brown, Vice Chairperson



"These discussions turned out to be the high points of our stay in China. While the sightseeing was extraordinary (yes, we really did climb the Great Wall!), the meetings were so stimulating as to be overwhelming. In Beijing, for instance, we met with very high officials of several Chinese technical and management associations. There I was given the honor of being the first (and, because of time limitations, the only) delegate lecturer. I discussed the User vs. MIS roles in applying a computer to an existing business enterprise. While the presentation was accomplished with the help of an interpreter, I realized that many of our Chinese counterparts spoke fluent English, especially those who were in technical disciplines. We quickly learned to take advantage of their desire to practice English by discussing issues on a one-to-one basis during breaks and after the formal meetings. This was to be the case in most of our discussions, especially those taking place in the universities and/or engineering institutes. As we were to learn later during our visits to primary and secondary schools, English is now being taught routinely and, in fact, is required for college entrance.

"We saw some exceptional things while in the schools of engineering. The computer center at Fudan University in Shanghai featured a test system for memories that functioned by providing a sound recognizable to the human ear; if it sounded like rain on the roof, the memory was deemed to be acceptable! At the Dalian Institute of Technology, we found current issues of Engineering Design News, a magazine in which Fairchild products are frequently described.

"Our discussion groups were generally technical and/or business oriented. We delved into subjects ranging from systems analysis and organizational design, to project control methods and theories of motivation...we learned we had many problems in common. We both are looking for ways to increase productivity, stimulate employees, create changes in the working environment without upsetting people, etc. One of our most intriguing discoveries was that China now believes in financially rewarding its employees for exceptional achievement, i.e., bonuses and/or profit sharing.



Sue displays a current engineering magazine in a Chinese university library.

(By the way, the average worker's salary is approximately \$32 per month!) What Chinese management was interested in learning from us was what we have learned from day-to-day experience, especially those of use who work in technical environments. We were left with a definite impression that computers have yet to be installed in business; they are primarily still in the universities. However, we were also given the impression that China is trying to take giant steps forward in this regard, and only economic difficulties are preventing them from doing so. Chinese management styles fascinated us. It appears that the management of a Chinese enterprise is not necessarily accomplished by the top-level manager who is part of the enterprise; in most instances, it is done by the appropriate management association. All major purchases are made by the association, as well as all major decisions. It was reluctantly acknowledged that this method of management does cause numerous problems for the local manager.

"Upon returning to Hong Kong following our seventeen days in China, we met with the American Chamber of Commerce for a debriefing of our activities and impressions. We were all tired but felt we learned more in seventeen days than we could have in a lifetime of reading about China. Most frequently mentioned was the sense of excitement that China was trying to leap from the 1940's to the 1980's and the wish to be a part of bringing China into modern times as a friend and business partner of the United States."

Sue Shapiro, Guest Writer
GPLSI Engineering

We're Number One!

We're number one! Fairchild GPLSI has installed more LSI/VLSI testers than all of our competitors combined. How does a company reach the top and maintain its leadership position? Obviously, with top quality state-of-the-art products — and with the support of an active marketing communications program.

In a recent interview with Terri Hodges, Manager of Marketing Communications, she stated her department's charter is "...to protect, promote and help create a positive image for the division and its products." GPLSI products, at this time, include Series 10, Series 20, Sentry 21, SAGE, TAM (Test Area Manager), and Series 50. They also support the Series 80 product line.

So far this year, they have produced five new ads with four more in the works — all emphasizing solutions to the customer's testing problems. A very attractive program of product publicity supports the ad campaign. Technical articles and product feature stories have been placed in major electronic publications, and Interface a quarterly publication sent to customers and prospects, tells even more about our family of products. To support Field Sales, they also produce promotional literature, direct response mailers, audio/visual presentations and technical application notes.



Standing (L to R): Kim Domino, Terri Hodges, Peggy Moore, Sherrill Funk, Liz Drath; Seated: Chris Mole and Mary Garrod

Trade shows and customer meetings are also an important part of the Marketing Communications mix. We participate in two major trade shows each year — Semicon West in San Mateo and the IEEE Test Conference in Philadelphia. New products or new product enhancements are introduced at these shows and the customer or prospect can participate in specific product demonstrations as well as have an opportunity to meet top company management — all experiences that are useful in helping our customers make sound buying decisions. Customer user meetings and application seminars also help educate customers about our products.

Marketing Communications is particularly proud of its accomplishments in the area of product publicity/technical literature. The

"Author's Club" has been revitalized (see Data Bits, June '82) and we, as a company, are writing more than we ever have. There have also been some big improvements in audio/visual. We're getting much more sophisticated in our use of different formats such as multi-image shows, where multiple projectors and professional "voice over" is used to create a more educational and exciting program. Marketing Communications is also eager to do more projects in conjunction with the Media Center. Videotapes are an excellent tool for promotion and can be easily shipped to sales offices so we can all be kept better informed on a real-time basis.

Sue Curtzwiler

We Want to Know!

Yes, we want to know exactly how you feel about "Fairchild Magazine," our new employee newscast being shown in the Building 32 Cafeteria.

Do you have an idea for a story? Do you have any constructive criticisms? Is there something we're not doing that you'd like to see happen?

This show is for all of you, so let us know how you feel. Contact Jody Bostik, x2078, or Gene Mendoza, x2449.



Q: What is the (Schlumberger) rationale behind repeatedly filling upper management vacancies from other Schlumberger companies whose personnel have no knowledge of the electronics business rather than promoting capable people from within Fairchild?

A: There is no "rationale" emanating from some entity you refer to as Schlumberger. Decisions concerning the filling of upper management positions within Fairchild Test Systems, as well as other Fairchild Groups, are made by those Fairchild managers responsible for those positions. The fact that those managers have access to talent throughout the Schlumberger family of companies should be considered an advantage to us. Likewise, other Schlumberger companies now have the ability to consider management talent within Fairchild in filling openings. Since April, I can recall four promotional moves at the General Manager level. All four managers have extensive knowledge of the electronics

business; two were long-service Fairchild employees; one had been with Fairchild two years after twelve years with several other Schlumberger companies, and one had ATE experience with a Schlumberger company in Europe.

Tom Clark, Group Personnel

Q: Since the JOS and COS Programs have been cancelled, how does an employee find career opportunities within the company?

A: The JOS Program has not been cancelled, and is still an active, viable program within GPLSI. The guidelines have been changed, and the format of the program has been expanded in some areas to make this a better program for all those jobs falling within its scope. Supervisors within the departments now have copies of this enhanced program and can share it with all employees.

With regard to the COS Program, this, in fact, was cancelled effective January 1, 1982, although positions through Grade 7 are posted as part of the JOS Program. Career planning and opportunities should be discussed with an individual's supervisor, next level manager, and the Personnel organization.

The intent of the new system is to have both the individual's manager, as well as the individual themselves, take responsibility for career planning; to plan out the necessary steps for an individual to achieve their career aspirations and to assist the individual to move into the identified career path.

Q: Considering how much computer paper we go through, and most of it ends up in the trash, why don't we have receptacles near the systems so that the used computer paper can be collected and recycled?

A: At the present time, there is a procedure in place to reprocess much of the computer paper within the GPLSI facility. The primary areas where this activity is performed are those areas that have the abundance of paper flow, that is to say the MIS area, Repro., and Finance. There are also bins located throughout the facility for confidential paperwork. Computer paper can be discarded into these receptacles. The paper in these receptacles is reviewed prior to being discarded, and much of it is reprocessed. This was a good observation on the part of the person that asked the above question. He should be aware that the company is saving a great deal of money by the recovery process in place.

Introducing Materials



Standing (L to R): Cary Heller, Dennis Kottke;
Seated: Tony Delgado, Dick Gonzales and
Rob Reynolds

The Materials organization, headed by Dick Gonzales, has undergone many changes in the past two years as a result of reorganizations throughout the company. Today, it consists of five separate functions, each with a function designed to assure that a quality product is built on time and to our customer's needs.

Purchasing, headed by Tony Delgado, is responsible for all procurement activities for the GPLSI Division. The department's main objective is to buy quality products for the best price and insure their on-time delivery.

Production Control is responsible for all material and production planning, master scheduling and customer interface. This group is managed by Rob Reynolds, who insures that systems have powered-on clear and on time, as well as keeping a fairly smooth flow of work to the assembly lines.

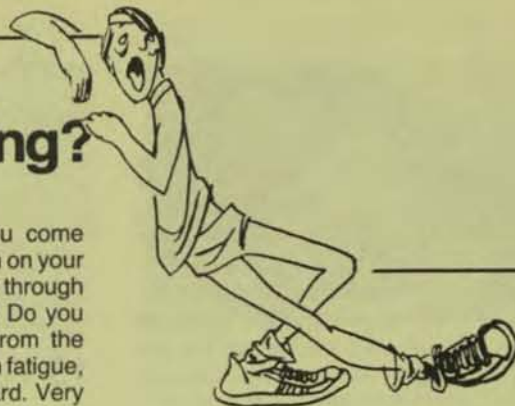
Dennis Kottke recently joined the GPLSI Division from Customer Service and is responsible for the Inventory Control Department. This group's main charter is to maintain accurate inventory records, via COPICS, and is responsible for all Stores and Traffic functions at GPLSI.

Jack Reed is the Manager of Supplier Quality Assurance. His role is to insure the material received performs to its specifications, and if not, returns it to the appropriate vendor. Almost all of our semiconductors are 100% tested to help reduce failures in S.A.T. and Final Test.

Our newest addition to Materials is Logistics, managed by Cary Heller. This group is responsible for supplying our Field Service regional offices with spares, scheduling the repair facility, and processing orders for all customer spares requirements, both domestic and international.

Norma Rouge

Weary of that worn out feeling?



Are you so exhausted when you come home from work that you flop down on your bed? Do you find it hard to make it through the day because you're so tired? Do you spend the weekend recovering from the week? If you chronically suffer from fatigue, don't chalk it up to working too hard. Very few cases of fatigue are related to excessive physical labor. Ironically, in most instances, people are tired from not doing enough!

Studies have demonstrated that the most common cause of fatigue is lack of exercise. Since we tend to sit a lot, we gradually reach the point where even walking is tiring. Overweight is also a big contributor to fatigue. For every pound of fat you put on, there is an extra three-quarters of a mile of blood vessels that your heart has to pump blood through. Even when you're sitting, your heart is working overtime.

When doctors cannot find a physical or organic reason for fatigue, they look for psychological reasons. (According to researchers in only 15% of fatigue cases is the tiredness a symptom of an organic problem such as thyroid deficiency, cancer or hypertension.) Fatigue is a typical symptom of people who are depressed. There is a general slowing down, and the

severely depressed even begin to move and speak slowly.

Fatigue can also be a defense against anxiety. Some people respond to anxiety by getting all "hyped-up"; others try to control it. That can be very tiring, and can actually wear you out. Fatigue can often be a substitute for other feelings such as anger or resentment that we are afraid or unable to express.

If you are suffering from fatigue, investigate these possible causes with your physician. Under your physician's guidance, begin a program to eliminate the cause of your fatigue.

Pat Alvarado, R.N.,
Health and Safety Coordinator



September's Photo of the Month is titled, "Open for Business", by Mukesh Mowji of our Test Engineering Department.



15 Years!

Congratulations to Jim Cooper, GPLSI Traffic Manager, on completing 15 years of service with Fairchild! Unfortunately, Jim was not available for our standard interview, but we did manage to sneak a picture!

Denise Hutson



10 Years!

BOB FORSTER has worked for Fairchild for 10 years. He was hired into the Advanced Systems Group at the Research & Development Division and has worked on the leading edge of design since then. Bob has worked on MOS LSI design, some of the forerunners of the Sentry line, and was very involved in the design and re-packaging of testers beginning with the first of the Sentry line.

Bob is currently in Engineering, coordinating the design simulation effort between the S50 program and our Bi-Polar Division. His "interests lie in injecting high technology, such as hybrid capabilities, into the Fairchild Engineering Group." In looking over the last few years with Fairchild, Bob says, "The changes in the engineering environment, such as tools and capabilities since 1980, are really quite amazing -- and encouraging...I certainly project that this is not the end. We're moving forward with more intelligent tools for the engineer." He also adds that he feels we need to use this new technology to continue to be a dominant factor in our business.

Bob has a variety of hobbies, one of which is operating his home microcomputer.

Clareen Shafer



15 Years!

NANCY RAMIREZ started out keypunching in a trailer in Mountain View working for Accounting. She moved with Fairchild from Mountain View to Sunnyvale to Palo Alto, and finally to San Jose. After doing payroll, budget, sales, and accounting, Nancy worked for Production Control keypunching inventory transactions and material requirements. Later, she worked for MIS where she received training on the IBM System 34.

Currently, Nancy works in SODC and maintains a software library, issues software packages to be shipped with systems, and schedules user time on systems in the SODC and Engineering labs.

Nancy collects records (45's), and enjoys dancing. She's also busy with her two children: Lisa, 6 and Warren, 2.

Clareen Shafer



10 Years!

BARBARA HERRMANN began her ten-year career with Fairchild as an Assembler Trainee in the PCBA Department of the Test Systems Division. She has done virtually every job within that department and is currently an Electronic Assembler Specialist in the Gold Plating area.

Before her arrival at Fairchild, Barbara says, "I'd never even heard of this kind of business!", and considers herself lucky to have always held positions that she has thoroughly enjoyed. The company recently sent Barbara to a special school to learn electrolyte metals.

In her off-hours, Barbara plays golf, and spends time with her good friends of twenty-five years, and her two granddaughters. She has also taken the time to contribute to Data Bits as a guest writer in the past.

Denise Hutson

Anniversaries

5 Years

Gallo, Wayne
Garcia, Gloria
Jensen, Svend
Kordes, Bill
Law, Jeffery
Rader, Debora
Russell, Glenn
Seo, Wan
Spillette, Ann

Prod. Planner
Exec. Secretary
Methods Analyst
Project Coord.
Engrg. Technician

Data Recon. Clk.
Elec. Assem. Spec.
CAD Technician

3 Years

Bacon, Laura
Bettencourt, Maria
Bridges, Sherman
Camblin, Kirk
Capraro, Rhonda
Chu, Wen
Falkenrath, Robert
Gonzales, Phillip
Gray, Robert
Hamamjian, Sue
Idler, Chuck
Ladwig, Otto
Lopez, Michael
Oh, Kyung
Perez, Anita
Pinon, Anita
Qualls, Larry
Sanchez, Beatrice
Smith, James

Tech. Typist
Assembler A
Sr. Mat'l. Planner
Shipping Suprv.
Expeditor
Staff Engr.
Elec. Assem. Spec.
Computer Oper.
Sys. Spec.
Exec. Secretary
Sr. Engrg. Writer
Sys. Test Spec. B
Indus. Engr.
Elec. Assem. Spec.
Sftwr. Technician
Storeskeeper
Elec. Assem. B
Elec. Assem. B
E/M Assem. Spec.

Clareen Shafer/Denise Hutson

Meet the New Kids on the Block

(for July and August)

Paul Dodd
Victor Goehner
Kempton Jones
Susan Gold
Elaine McClard
Wymond Schultz
Michael McKamey
Humbert Primavera
Victor Reinhardt
Lindolph Lowery
Tin Phan
Dennis D'Antonio
Robin Jackson
Sandra Johnston
Hoang Tu
Minh Tran
Richard Becker
Miguel Bugarini
Barbara Kreston
David Garten
Phillip Maslin
Yie-Fong Dan

Sr. Des. Engr.
Insp. B
Mach. Oper. B
Elec. Assem. Spec.
Elec. Assem. Spec.
Maint. Tech. Spec.
Elec. Tech.
Designer I
Film Tech.
CAD Technician
Sftwr. Prog.
Elec. Tech.
Buyer A
Elec. Tech.
Elec. Assem. B
Assoc. Des. Engr. Comp.
Drafter/Designer
CAD Technician
Sr. Mat'l Plnr.
Material Planner
Checking Supvr.
Sr. Des. Engr.

New Transfers

Herb Brunner
Frank Han

Staff Engr.
R&QA Engineer

Mary Bettencourt



10 Years!

KEN CHASTAIN has been with us for ten years and is in Series 80 Marketing and Product Sales. He is responsible for three major tasks in his position: S80 Marketing interface with Sales; S80 Product Sales Manager; and S80 Project Coordinator, managing the introduction of S80 and its options into Manufacturing.

At first, Ken saw Fairchild as a means to relocate to Northern California and accepted a position with Fairchild as a Final Test Technician. Now, Ken says he's been able to grow in his career within Fairchild and says, "The company has been good to me." Ken has been with the Training, Field Service, and Marketing departments since coming to Fairchild and says, "Absolutely, I've enjoyed Marketing the most! It's a continual learning and growing experience in this job; I just love it."

Off the job, Ken participates in sports for relaxation and goes to night school for fun.

Clareen Shafer

Does the Shoe Fit?

Do you have questions on safety policies or procedures? Recent inquiries to Safety Committee Members indicate that at least a few employees do. If you have questions regarding safety, please feel free to call or address a note or memo to any of the committee members. We will research the questions and publish the answers in Data Bits. Remember, if you have a question, in all probability, others have questions on the same subject.

Recently, a new Safety Policy regarding footwear was published. There have been many questions relative to this policy and its enforcement. Policies of this nature are for the protection and safety of employees as well as the protection of Fairchild. It is the responsibility of each employee to follow the guidelines established and for supervisors to enforce the policy.

Questions regarding this policy should be addressed to your supervisor for interpretation. Only through understanding, cooperation and compliance can we maintain a safe, pleasant working environment.

SAFETY TIP: Carelessness causes more accidents than lack of knowledge!

GPLSI Safety Committee

BENEFIT\$

Profit Sharing and Retirement statements were sent out in July and August. If you were supposed to receive a statement and did not, contact Angie Carey in Personnel, x2428, and a request will be made to obtain a statement for you.

Meetings were held August 10-11 regarding the Retirement Plan for salaried employees. If you were unable to attend one of these meetings and would like a presentation on the plan in October, contact Angie Carey in Personnel.

Angie Carey

Patent and Publication Awards Presented



At a general meeting of the Engineering Department on August 5, 1982, Ed Belt, Manager of Engineering, presented the following patent and publication awards:

Patents

"Deskewing Time-Critical Signals in Automatic Test Equipment," presented to Dick Herlein and Alex Nagy.

"Test System Memory Architecture for Passing Parameters and Testing Dynamic Components," presented to Bob Hickling and Rudy Garcia.

Publication

"Series 21 Engineering Characterization Tester," presented to Alex Nagy, Hoshang Vaid, and Al Futterman.

At a previous meeting, the following patent award was presented:

"Programmable Deskewing of Automatic Test Equipment," presented to Hoshang Vaid.

Congratulations to all on their contributions. Your efforts strengthen both our total research and engineering program, and Fairchild's stature in the technical community.

Photo Contest Winner Selected!

On Friday, August 27, 1982, after tallying 127 Fairchild employee voting ballots, the winner of Data Bits First Annual Photo of the Year Contest was selected!

KATHIE BERENDSEN, Engineering Service Coordinator in our Inventory Control Department was the lucky winner, and is pictured here receiving her award of a check for \$25 from Data Bits Photographer, Dave Witts. Kathie will also be receiving an 11 x 14 framed enlargement of her photo "Washboard Roll-Out".

The day we went to tell Kathie that she had won, she was out sick! She was promptly called at home and given the good news —

that immediately made her feel much better! Kathie plans on splitting the money evenly between the two subjects in the photo, (her son and grandson) in hopes that it will encourage their continued interest in the sport.



This will now mark the beginning of a new series of "Photo of the Month" selections. As a reminder, photos may be submitted to Dave Witts, c/o Data Bits, M/S 36-301. Photos will remain on file for 90 days unless otherwise specified by you.

Again, congratulations to Kathie, and a sincere thank you to Jake Gentry, Otto Ladwig, Chuck Idler and Mukesh Mowji for allowing us to involve you in our first contest!

Bits & Pieces

In early August, the challengers "Personnel Pro's" captained by Mike Hernandez and the champions "Sutton's Sluggers" captained by Gary Sutton, met on the turf of Bachrodt School. The Sluggers got the game off to a hot start, scoring seven runs in the first inning. In subsequent innings, the runs were held to a minimum by outstanding fielding on both sides, especially by Pro's Bruce Collins and Gary Gibbons, and Slugger's Robert Sorakubo, Bruce Tarbox and Bob Kula. In the bottom of the 4th, the Pro's started a comeback, scoring six runs in the inning. However, the rally was stopped, and the Pro's were finally overcome by a final score of Sluggers -

21, Pro's - 12. A challenge has been offered to the Sutton Sluggers by Perry West's Marketing All-Stars.

Attention Bowlers! The Winter League is now forming for Wednesday nights at 6:00 p.m. at the Fourth Street Bowl. The teams will be 5-member. For sign-ups or more information, contact Marie in Engineering, at x2702.

"Labor Day" 1982 took on a whole new meaning for DICK GONZALES, (GPLSI Materials Manager) and his wife CAROL. At 6:00 that Monday morning, Carol gave birth to their third child, Stephen Matthew, weighed in at 7 lb. 4 oz. and measured 19" long. The Gonzales' now have two sons and a daughter...congrats to all!

CLASSIFIEDS

Share A Condo: Berryessa, Ponderosa Woods. 4 bdrm/2-1/2 bath. Pool, patio, barbecue, etc. One bedroom for \$230/mo. + utilities. Reasonably quiet male, clean and straight. Contact Dennis Levy at 272-2327, or x2266.

For Sale: Girlfriend says motorcycle must go. '81 Kawasaki-KZ440LTD, caseguards, rack and attache case. Blue, very cherry, 60 mpg, don't pass it up at \$1,350 or best offer. 3,000 miles, still in warranty. Contact Dennis Levy at 272-2327 or x2266.

For Sale: '75 Gremlin, only 40,000 original miles. Good condition, new tires, has to go! \$950 or best offer. Call Ed Rojo at x2925.

For Sale: '68 Mustang. New paint, recent engine work, new tires and upholstery. Asking \$2,800. Contact Liz Drath, x2489.

For Sale: TRS-80 Pocket Computer, \$230; TRS-80 Printer/Cassette Interface, \$150; and TRS-80 Computer Program Manual, \$2. Comes to \$382, but will sell for \$150. Contact T. Rasser, x2182, M/S 32-506.

For Sale: '75 Mustang, AM/FM cassette. New tires, automatic transmission asking \$2,300. Contact Ed Baldus at our Irvine office at (714) 549-7885.

Rec Council Ad-Ventures



The Fairchild Rec. Council presents the Annual Halloween Costume Contest!

Goblin Stew! Witches Brew!
Get your costumes all of you,
And come out to trick or treat,
For fun to meet
All our Fairchild creatures!
They who starred
in last year's features,
For your pleasure
and good measure,
Make this special feat,
your own Halloween treat!



Friday, October 29, 1982 in the Building 36 Cafeteria, beginning at 11:30 a.m.

Valery Carpenter

For a 15% discount on tickets to Marine World-Africa U.S.A., visit your Personnel Department, or the Rec. Council in their new office at the front of Building 36, (the ex-home of the Kodak Copier).

Sue Curtzwiller

Take that, and that, and that...! * # ☼

It's a horrible feeling - one you harbor for days before you finally start to put it behind you. Perhaps it was a gift, or just something you really liked and paid a lot of money for because you thought it would look nice on your desk or at your work station. Then it happens...maybe the next day, or six months from now, you come back to your area and it's gone!

Unfortunately, the majority of us here at ATE know what it feels like to have something of value taken from us. If for just one moment the "takers" would stop and think of the ramifications of their deed on the person they are "taking" from. Be it a deliberate act, or one that comes up on a whim, the theft of something another person values always takes its toll. Most of us here at Fairchild can't afford the luxury of running right out to replace whatever it was that was taken. And even if we could, it certainly couldn't replace something of a sentimental nature.

We number about 1,200 employees here on Technology Drive, and each of us, at one time or another, must cross paths in our daily routine with numerous other employees. Mistrust only adds stress to a pressured day and is, needless to say, something we could all do without.

Let's all work together and try to be more considerate of our fellow employees...as I said, it's a horrible feeling. Know what I mean?

Denise Hutson, Editor

Did you know that according to statistics, there are more computers in this world than there are people?

I have a Question,
but don't know who to
go to for the answer.

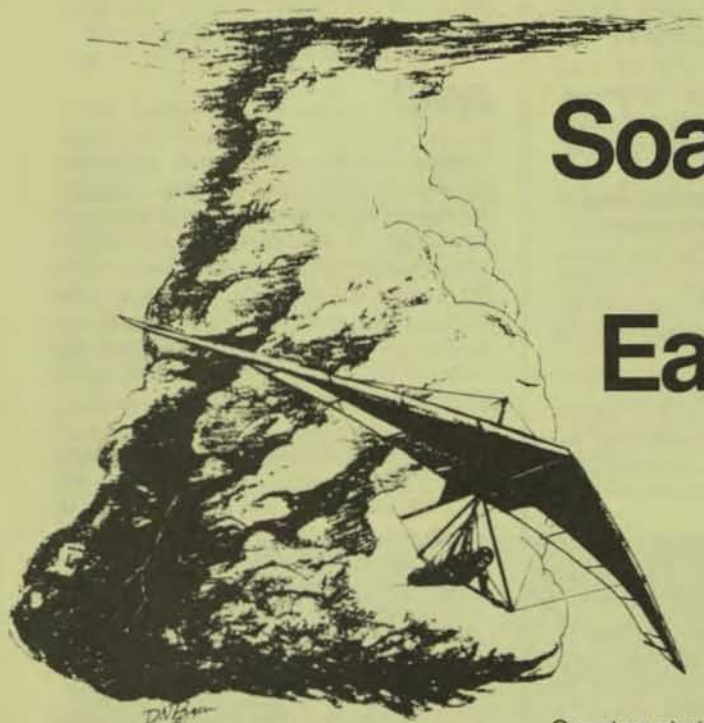


Well then, let **DATA BITS** do the asking for you by submitting your question(s) of general interest to our staff. We will then do our best to get your company related question(s) answered for you.

If sufficient interest exists in any one subject, it will be responded to in Data Bits at the earliest opportunity or will be addressed at the next employee meeting. If you prefer a confidential answer, either by memo or phone call, please sign your name below.

Name _____ X _____ M/S _____

Address all correspondence to DATA BITS at M/S 36-301



Soaring with Eagles

Soaring with eagles can be terrifying, but for R.D. St. Clare and Mark Thomas of Series 80 Engineering, it's not. R.D. and Mark are hang gliding enthusiasts, and they're rather excited about it. Mark says, "For years I've wanted to try it. Besides, if Da Vinci were alive, he would be trying it!" Indeed, Mark does take the scientific approach. When asked about hang gliding, he had the facts and figures ready to fly. R.D. takes the seat-of-the-pants approach. He saw hang gliding as a chance to "be a part of the action," and jumped into the sport wholeheartedly. He now hang glides almost every weekend.

Our story started about a year ago when Mark decided he would stop thinking about it and just go try the sport of hang gliding. He contacted an instructor, talked four friends, including R.D. into giving it a whirl, and off they went into the wild, blue yonder - to a height of about six feet. According to these two young adventurers, learning to hang glide is much like learning to pilot a plane. First, there is a ground school where principles of aerodynamics are learned; after that comes the actual flying, with the aid of the instructor.

Beginning hang gliding instruction usually takes place on a beach with a slope of six to nine feet. An average price for instruction is \$50 a day, including equipment. Lessons

consist of, what else, taking off and landing. Once the basics are learned, it's a matter of trying out your wings at progressively higher levels. The sport now takes a turn from being "90% work to 90% fun."

That first step off of a real hill "was frightening, but was more of a kick as I gradually worked my way up the hill." That was Mark's reaction to his first experience in the air. Now he takes it gradually and enjoys trying out the popular hang gliding spots. R.D.'s first flight was "neat", and he says, "I wasn't scared. I thought, 'this is neat' and I forgot to fly the glider. I was just looking [down]." A year later, R.D. finds it a challenge to maneuver his glider into the different air currents and thinks hang gliding is "just a lot of fun."

Hang gliding is for the pioneering spirit and those who are undaunted by the elements. According to Mark and R.D., there are myths about hang gliding that need to be dispelled. They say, "hang gliding is not physically tiring and is reasonably safe. The hang glider is stable, strong and is, nowadays, better designed to react in certain situations. If left to its own devices, the glider will fly itself." They add, "a lot of people have thought about doing it, but have never had the opportunity."

Author's Note: As a curious chicken-heart, I went to observe the hang gliders at Ed Levin Park in Milpitas. I was impressed with the beauty and grace with which they flew. I was also touched by the aura of seriousness which seemed to be present. Those involved in the sport know what they are involved with. For me, I'm going to go back and watch them some more!

Clareen Shafer

Smile! You could be next...

...on "Fairchild Magazine" that is! Fairchild Magazine is a corporate news program produced by our Media Center, for and about Fairchild employees. The show can be viewed on Tuesdays and Thursdays in the Building 32 Cafeteria at 10-15 minute intervals. Each program is currently scheduled to run for two weeks, allowing ample time for all employees to enjoy the news.

The concept of the show is one that was long in the making, but finally came to be after the proposal was researched, presented and signed-off. Such items as the time it would involve per week, the type of stories that would relate, how viewership would be judged, and how cost effective the program would be, all had to be taken into consideration. Continued, next page



The original production crew of "Fairchild Magazine," (L to R) Joe Petersen, Jody Bostic, and Gene Mendoza

'Smile', continued. . .

The brain child of Gene Mendoza, Fairchild Magazine was created to enable employees to find out what's happening around their company. Covering such events as the United Way Drive, our recent fire drill, how to use the Red Phone in an emergency, the Medi-Scan Van, and the grand opening of the Rec Council office, the possibilities for future stories are endless.

Putting together a program every two weeks is a big project for our Media Center, as it is only a segment of what they get involved in. They are also busy with scripting training programs into video tape, and many, many other projects.

Curious about the time involved in producing the news program, I was informed that the actual shooting of stories takes about three days. That can be spread out over a period of time - an hour here, two hours there, and so on. One whole day is usually spent on editing and out comes a 10 - 15 minute program!

Gene, with his adept cameraman, Joe Petersen in tow, can occasionally be caught cruising around Fairchild looking for news in the making. So, if you should spot them in time...SMILE, you could be next!

Linda Brewer



Opportunity Knocks!

The 1982-83 Sherman Fairchild Scholarship Program is now underway and applications are being accepted for students who will enter college in September of 1983.

As in the past, five scholarships will be awarded to children of Fairchild employees. Complete eligibility requirements as well as applications are contained in the scholarship brochures and are available through our Personnel Department.

The deadline for submitting applications to the Educational Testing Service is December 1, 1982. All applicants are required to take the Scholastic Aptitude Test to be eligible for the program. Students may obtain details on the administration of the test from their high school, or by writing to the Educational Testing Service, Box 176, Princeton, NJ 08541.

Denise Hutson

Open Enrollment - Changing Health Plans

During the period of November 1 through November 12, 1982, those covered under either the Fairchild Comprehensive Medical/Dental Plan or under the Kaiser Health Plan may elect to change coverage from one plan to the other. After this period, you may not change coverage until the next open enrollment period in November, 1983. For those who elect to change plans, coverage will be effective January 1, 1983.

Those who wish to add eligible dependents to the Comprehensive Medical/Dental Plan who were not enrolled under the Kaiser Health Plan must provide a Dependent Statement of Health and be approved by Equitable before the coverage will become effective.

Those who change to the Kaiser Health Plan may add eligible dependents not enrolled in the Comprehensive Medical/Dental Plan.

November 1 through November 12, 1982 has also been designated as the time when you who presently have Kaiser coverage may add eligible dependents who were not enrolled at the time you signed up for Kaiser coverage. This coverage will become effective January 1, 1983. This is the only time until the next open enrollment period in November, 1983 that you may add eligible dependents other than new dependents due to marriage, birth of a child, or adoption.

Beginning November 1 those who wish to change plans should see Angie Carey in GPLSI Personnel to complete the necessary enrollment forms. If you have any questions regarding Open Enrollment, she can be reached on Extension 2428.

NOTE: Applications will not be accepted after 4:30 p.m., Friday, November 12, 1982.

Angie Carey

How They Do It

Interested in a series of articles on the process required to make a silicon wafer? See Denise Hutson for copies of these articles that have appeared in the Silicon Materials Division newsletter "Wafer News and Views."



When in doubt, ask!

Twenty minutes ago, your supervisor finished explaining how he wanted a specific job handled. When he asked if there were any questions, it all seemed so clear that no one asked for a further explanation. At the time, you "thought" you understood. But now that you start to perform the job, you mentally scratch your head. You think you know, but you have a funny feeling something isn't right. What do you do?

If you're like most people, you've probably been in this situation before, and may find yourself in it again. We all get confused, forget, or just plain don't listen as well as we should sometimes. The important question is, what are you going to do to handle your uncertainty? Some people say that in a situation like this, they would keep quiet because:

- They are angry with themselves for not getting the instructions right the first time;
- They are afraid their co-workers will think they are "slow" for not having understood the instructions;
- They are worried that their supervisor will be angry with them for not listening.

These are poor reasons. The fact is, few people understand detailed instructions the first time they hear them. That's why it is considered a sign of good judgment, not ignorance, to ask for clarification.

So pay attention when your supervisor is giving instructions. Take notes if you think it will help. But above all, don't ever hesitate to ask questions when "you don't understand." Your boss will appreciate your courage in bringing it out into the open before it has a chance to grow into a major problem.

Reg Simpson

Thanks to Diane Cushman, Editor of Fairchild's "Inner Circuit," of the Hybrid Products Division for permission to reprint the above article.

Graduate Success in California

Remember when they visited your college to interview you for a job in California? Remember how nervous you were and how you wished you knew what questions they were going to ask you? We're going to let the cat out of the bag and tell you exactly what the College Recruiting Team was looking for on that fateful, nerve-wracking day!

Your Grade Point Average, your "final score" for your years of hard work, was an indication of your technical competence. Did you have an established career goal (perhaps as a Technician), exhibit self-confidence and motivation? Did you give indications of leadership capabilities and self-discipline? And what about your energy level? Not to mention the quality of your verbal and written communication skills!

It doesn't end there either! Were you able to exhibit a sense of accomplishment and a logical approach to problem solving? Due

to the inevitable changes that occur in a high technology environment, could you demonstrate adaptability?

Even the way you spend your spare time was an indication of your overall value as a prospective employee! Did you spend your summer with Barnum and Bailey as a juggler or did you work for the electronics shop in your home town? What the On-Campus Interviewer was looking for was something that supported your chosen career goal. All this and more was taken into consideration during the brief thirty minute interview.

After each interview is complete, the interviewer takes five minutes to complete an evaluation form which will be reviewed by appropriate supervisors upon their return. This is where the process really gets rolling.

A Resume Review is then scheduled with the hiring supervisors and representatives from Personnel. The information on each candidate is presented and discussed, and decisions are made. Within thirty days, the selected students are contacted and invited to San Jose for interviews and plant tours.

The wheels continue to turn long after the students return home. With a target of wanting to extend offers to two out of three visitors, the odds are in the students favor that they will be relocated to San Jose to begin a new career with Fairchild.

Does it sound confusing, long and drawn out? Perhaps, but look at what we've gained in the process - a qualified, well-rounded employee that someday may be everyone's boss!

Editor's Note: Many thanks to May Yip, University Relations, for the time spent and information needed to pull this article together.

Denise Hutson

Our Strange Language

We'll begin with a box
and the plural is boxes,
but the plural of ox is oxen not oxes.

Then one fowl is a goose,
but two are called geese,
Yet the plural of moose
should never be meese.

You find a lone mouse or
a whole set of mice,
Yet the plural of house
is houses not hice.

If the plural of man
is always called men,
Why shouldn't the plural
of pan be called pen?

If I speak of a foot
and you show me your feet,
And I give you a boot,
would a pair be called beet?

If one is a tooth
and a whole set are teeth,
Why shouldn't the plural
of booth be called beeth?

Then, one may be that,
and three may be those,
Yet hat in the plural
wouldn't be hose.

We speak of a brother
and also say brethren,
But though we say Mother,
we never say Methren.

Then, the masculine pronouns
are he, his, and him,
But imagine the feminine,
she, shis and shim.

So English, I fancy you all will agree,
Is the funniest language you ever did see.

Anonymous



The winner for October's Photo of the Month is STACEY SELLIN of GPLSI's Test Engineering Department with his submission titled, "Majestic Dawn."

What? No Anniversary Interviews?

Nope...not anymore! In the beginning, it seemed like a good idea. We wanted our employees to feel they earned the recognition they deserved for a job well done for so many years. We thought they would feel special because the spotlight was on them. For a while, it worked out nicely. The employees were very cooperative and seemed to like the attention we were giving them.

Then, suddenly, something went wrong. We found ourselves facing employees who flatly refused to be interviewed. We were also receiving comments from other people stating, "We don't care about these things." Not care? A person works hard at this company for 10, 15, 20 years, perhaps starting from the bottom and then progresses to a higher level, and you think nobody cares about these things? With comments like this, no wonder apathy amongst employees exists here at Fairchild.

Since there seems to be very little interest in these interviews, beginning with the October issue, they will no longer be printed.

It was not an easy decision to make, but after a lengthy discussion with the Data Bits Staff, we determined that the only solution to this problem was to cancel the stories (ten years and above) entirely. We do apologize to those employees whose anniversaries will not appear in future issues. However, as I've said before, if no one cares, then there is really nothing we can do.

I am sure that there are those out there who don't share the same opinion, and they will definitely let us know about it...I do hope so. After all, this paper is meant for ALL employees of Fairchild, and we won't know what you want or don't want unless you tell us.

We do hope that you will respond to us with any comments and/or questions pertaining to this subject. Who knows, if enough people respond favorably, we might just reinstate the interviews.

Norma Rouge,
Assistant Editor



'Hot Tub Dermatitis' is an Itchy Problem

matitis symptoms can be a sore throat and eyes, fever, nausea and cramps. "Hot Tub Dermatitis" symptoms generally appear between 8-48 hours after soaking in the water and will clear within ten days providing the person does not get back in the tub.

Hot tubs and whirlpool baths are ideal climates for pseudomonas growth because of the warmth and moisture. Avoiding the bacteria requires careful hot tub maintenance, including frequent filter changes and high chlorine mixtures. Hot tubs require much more maintenance than a swimming pool - owners just can't fill the tub with water and forget about it.

The problem has been around for some time, but until recently, doctors were likely to mistake the dermatitis for a rash, hives or insect bites.

If hot tub owners suspect they have contaminated tubs, water samples should be taken to a local health department for a culture. If pseudomonas bacteria are discovered, the hot tub must be disinfected.

Pat Alvarado,
Health & Safety Coordinator

Soaking in a hot tub could get you into hot water if you're not careful. Dermatologists nationwide are treating patients for "hot tub dermatitis," an infection caused by resistant bacteria. In many patients, the symptoms are similar to a rash or hives, and some people get very ill.

When allowed to thrive and multiply, the bacteria - called "pseudomonas" cause an itchy rash all over the body except the head and neck. In severe cases, the der-

Anniversaries

25 Years

Dick Parker Sr. Mat'l Plnr.

10 Years

Chris Calloway Expeditior
Antonio Garcia Insp. B
Eric Marko Tech. Svcs. Mgr.
Debby Washington Elec. Assem. B
Alice White Assem. Spec.
Warren Wilson Test Engr.

5 Years

Gene Alquist Storeskeeper
Marcy Crawford Cost Acct.
Maxine Duffey Q.C. Suprv.
Rick Koch Test Engr.
Duncan McDonald Sr. Des. Engr.
Stanley McKenzie Apps. Progrmr.
David Sandel Test Engr.
Bruce Tarbox Credit Mgr.
Carol Tilley Order Entry Spec.

3 Years

Estele Aceves Mach. Oper. B
David Altieri Indus. Engr. Mgr.
Greg Alvey Sys. Test Spec. B
Donald Belsley Sys. Test Spec. B
Jerrold Cady S80 Test Engr.
Wanda Cordell Computer Oper.
Everett Downs Sys. Engr.
Liz Drath Exec. Secty.
Sonia Dyer Sr. Prod. Mktg. Engr.
Gloria Estrada Assem. B
Denise Fuller Maint. Mech. Trne.
Manuel Garcia Elec. Tech.
Eldon Garrett Accountant
Trudy Hamilton Sr. Computer Oper.
Greg Jeanot Sys. Test Spec. B
Ed Jennison Factory Plnr.
James Kessler Sys. Test Spec. B
Rosaline Kong Elec. Assem. Spec.
Sam Lewis Sys. Test Spec. A
Carleen McCullough Exec. Secty.
Mike Miller ATSSftwr. Mgr.
Byung Min Sys. Test Spec. B
Mark Mougel Prod. Mktg. Mgr.
Huong Nguyen Elec. Tech.
Trung Nguyen Sys. Test Spec. A
Terry Preston Qual. Engr.
Jim Reynolds Des. Drftg. Suprv.
Dolores Santos Insp. A
Karen Scott Assem. A
Clareen Shafer Secretary
Curtis Smith Sys. Test Spec. B
Mariann Solari Sr. Clerk
Julita Vasquez Assem. A
Minerva Viramontes Assem. B
Jeff Weeks Sys. Test Spec. B

Transfers:

Serita McPherson Applications Progrmr.
Tony Delgado Purchasing Mgr.

Clareen Shafer

Bits & Pieces

Our Marlton, NJ Sales Office won't be quite the same once BILL KEARNS (Sales Engineer) leaves. Bill, his wife Connie and their daughters Jennifer and Julie will be moving to Orlando, Florida very soon where Bill will continue in his position of Sales Engineer for Fairchild. Here's hoping you're able to avoid "shell-shock" from the change in weather!

• • •



Don't forget to adorn yourselves with your favorite Halloween costume on Friday, October 29, 1982 for our Halloween Costume Contest beginning at 11:30 in the Building 36 Cafeteria!

• • •



On October 6, an award was given to GENE CASH (Production Control Department for moving \$1,201,682 worth of loose options for September, (a division record!) Said Gene, "It wasn't just me who did all the work. It was everybody in the whole department!" Congratulations Gene on doing an outstanding job.

• • •

Congratulations go out to HELEN HUNZIKER on the recent publication of Application Note #86 entitled, "Using the Auto Deskew Feature of the Sentry 21." Helen is a member of GPLSI's Engineering Department and had her note published via the Author's Club Program.

• • •

In addition, BOB HICKLING, Scientist in our Engineering Department, was recently presented with a Patent Award for his paper titled, "Dynamically Controllable Addressing in Automatic Test Equipment." Congratulations!

• • •



Gary Sutton, GPLSI Controller, at a recent softball game between Finance and Product Sales. Everyone was seeing triple by the end of THAT game!

Making Ends Meet

As the number of two-paycheck families increase, so do the problems of providing quality day care at affordable prices for children of all ages. To help alleviate this difficulty for working parents, United Way of Santa Clara County helps to support a number of day care agencies offering comprehensive services, often on sliding fee scales. Listed below are a number of these agencies which are located throughout the country:

- **ALVISO COMMUNITY CHILD DEVELOPMENT CENTER**, Alviso, 262-5723. A child development center certified by the State Department of Education for working parents or parents in school or training. Children 2-1/2 to 6-1/2 years of age are accepted.
- **CATHOLIC SOCIAL SERVICE OF SANTA CLARA COUNTY**, San Jose, 243-3001. A multi-community agency with specialized services to families, children, minority groups and the aging. Programs focus on mental health, day treatment, foster grandparents, and senior citizens which serve meals daily.
- **CHILDREN'S HOME SOCIETY OF CALIFORNIA**, San Jose, 293-8940. Individual, family, and group counseling in child/parent relationship stress; pregnancy counseling; adoption services including inter-country adoption; short-term foster family care; subsidized day care and family day care for infant/toddler and preschool children; parenting education; educational films with trained discussion leaders available to schools and other groups.
- **MEXICAN/AMERICAN COMMUNITY SERVICES AGENCY, INC.**, San Jose, 275-8506. Offers legal assistance, youth and educational service, organizational and community development, fiscal agent/management support, work study and internship, advocate for seniors and youth, and serves as linkage between elements of the Hispanic community seeking specialized assistance.
- **SAINT ELIZABETH'S DAY HOME**, San Jose, 295-3456. Day care for children 2-6 years of age where the mother is obliged to work or is ill. Children are grouped according to age; accredited kindergarten session.
- **SALVATION ARMY**, Santa Clara County Coordinating Office, San Jose, 998-4400. An international religious and community service agency providing a variety of multipurpose programs for people of all ages, designed to minister

the whole person: mind, body, and soul. Includes statewide and extension services.

- **SAN JOSE DAY NURSERY**, San Jose, 288-9667. Designed to serve children, ages 2-8, whose parents have limited income. The program includes a variety of activities to promote all aspects of development.
- **SAN JUAN BAUTISTA CHILD DEVELOPMENT CENTER**, San Jose, 259-4796. Provides comprehensive child care services, including Sick Care program, for children 2 months - 12 years of age. Open weekdays, 6:00 a.m. to 12:30 a.m. Fees based on income.
- **YMCA IN SANTA CLARA VALLEY**, San Jose, 298-3888. Family oriented program through clubs, classes, teams, camping, physical education. Emphasis on development of total person. All ages; boys, girls, men, women.

Denise Hutson



Rec Council Ad-Ventures

Attention Skiers! The ski season will soon be upon us! Through a special corporate discount program, you have the opportunity to ski Monday through Friday at Squaw Valley for just \$13.00 during the 1982-83 ski season, (a savings of \$9.00). The coupons are valid mid-week throughout the season except during the holiday periods of December 25, 1982 - January 2, 1983, and February 12-21, 1983. Coupons must be purchased prior to Thanksgiving, November 25, 1982. Once you have your coupons, no money can be returned. Coupons will be exchanged for lift tickets at the Squaw Valley ticket portals. For more information and/or sign-ups visit your Rec. Council Office at the front of Building 36.

The new hours for the Rec. Council Office are: Tuesday's and Thursday's from 11:00 to 1:00, and on Friday's from 3:00 to 4:00. All Rec. Council activities, sign-ups, etc. will be conducted from this office during the above hours.

Linda Brewer

On December 9, 1982, the Board of Directors of Schlumberger Ltd. announced the election of Michel Vaillaud ("Vy-oh") as President and Chief Operating Officer reporting to Jean Riboud, Chairman and Chief Executive Officer. Mr. Vaillaud is responsible for Schlumberger operations.

Michel Vaillaud, 50, joined Schlumberger in 1973 as Vice President to coordinate the Measurement and Control operation in the United States. In 1975, he was elected Executive Vice President and Manager of Measurement and Control/Europe. In 1981, he was made responsible for Oilfield Services worldwide. He held various governmental positions in France prior to joining Schlumberger. Mr. Vaillaud is a graduate of Polytechnique in France and holds a degree in Mining and Petroleum Engineering.

Reporting to Mr. Vaillaud are: Euan Baird, Executive Vice President in charge of Wireline; Roy Shroud, newly appointed Executive Vice President in charge of Drilling and



New President For Schlumberger

Production Services; Bernard Alpaerts, Executive Vice President in charge of Measurement and Control operations worldwide; Tom Roberts, Executive Vice President-Fairchild; Don Feddersen, President of Applicon and MDSI, and Jean Mourier, President of Benson.

IRA'S Uncle Sam's Tax Break

Employees at Fairchild ATE are getting an opportunity to look their financial future square in the face. In early December, the Fairchild Credit Union sponsored a seminar with Money Concepts, presenting 30 ATE employees the straight facts about Individual Retirement Accounts. Although retirement can seem a long way off, the reality of that time comes for all of us. With all the discussion of the future of Social Security, financial planners are encouraging people to take their financial future into their own hands. The seminar in December, conducted by Dave Gullidge and Ed Galet of Money Concepts, presented the cold hard fact that 85 out of 100 Americans at the age of 65 do not have \$250,000 in excess cash to spend. Although people often set the future aside, the fact remains that it makes good sense to have a retirement income available when your prime working years are over.

Basically, each year, whether you already have a pension or not, you can contribute up to \$2,000, individually, or \$2,250, if your spouse is not a wage earner. You don't have

to pay Federal taxes on your deposit or the high interest you earn until you withdraw your funds. When you do withdraw your funds, at anytime between the ages of 59½ and 70½, your earnings and your tax rate will probably be lower.

The way an IRA grows is phenomenal. For example, if you were to deposit \$2,000 regularly at the first of each year for the next 30 years, you would have \$682,650 in your IRA. Five years later you would have \$1,247,401 in your account.

The Credit Union offers different types of accounts depending on your financial needs. One of the most popular accounts is the Accumulation Account which currently pays 12% interest. You don't have to deposit \$2,000 to start the account. Also, a personal loan is a convenient way to get your IRA started.

IF YOU'D LIKE TO KNOW MORE ABOUT IRA: The Credit Union is sponsoring the second seminar with Money Concepts on Tuesday, January 25, at the Le Baron Hotel in San Jose, (1350 North First Street). The seminar will start at 7:00 p.m. If you're

Continued, next page.

Twice As Nice!

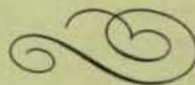
A special luncheon was held on Monday, December 13, 1982, at Mountain View to honor the editors of Fairchild's divisional newsletters. Ellen Murray and John Salazar of Corporate Communications were on hand to thank all of the editors for a job well done in 1982, and to wish continued success in 1983.

Special recognition awards were given to four division editors for their efforts: Penny Fletcher, Advanced Research and Development Lab, for her newsletter "Technolog"; Heng Liang Eng, Singapore, for "Fairtimes"; Cesar Maureal, Philippines, for "Fairchild Review"; and last (but not least?) the award for Best Divisional Newsletter, 1982, was presented to DATA BITS for the *second year in a row!*

So, to honor the staff that made it happen, DATA BITS had their own luncheon on January 5, 1983! Victor Grijalva, CTS General Manager, Mike Hampson, DTS General Manager, Fred Laccabue, ATS General Manager, and Mike Hernandez, DTS Personnel Manager were present. Each committed their support to bettering communications for Fairchild ATE, and added their thanks for a job well done.

My thanks to Ellen, the Corporate Communications staff, and especially the staff of Data Bits, for making the honor possible in a year of challenges and many changes!

Denise Hutson, Editor



DATA BITS Staff, etc.

Editor Denise Hutson

Asst. Editors Norma Rouge, Sue Curtzwiler

Reporters Pat Alvarado, Mary Bettencourt, Linda Brewer, Angie Carey, Mariann Solari

Design/Layout Mary Raboy

Photographer Dave Witts

Editorial Policy

All articles submitted are subject to editing and will not be returned. Articles submitted in one month will be printed in that month provided that available space and issue size allows. All articles contents must conform to common sense and decency standards, and to established company policies.

Deadline

Address all correspondence to DATA BITS, M/S 36-219 by the third Monday of each month.

'Tax Break' continued.

interested in attending, fill out the coupon below and turn it into the specially marked box at the ATE Branch Office of the Credit Union before Friday, January 21. If you attend the IRA seminar, you may win a \$25. savings account. There will be a drawing at the seminar.



ATE employees in attendance at the recent IRA Seminar.



Count me in for the IRA Seminar:

Name(s) _____

Address _____

Phone _____

I can't make this one, but please let me know about the next one. (Please turn in this coupon to the ATE Credit Union by January 21).



Anniversaries



10 Years

John Farkas ATS Engineering

5 Years

Doug Taylor Q.A. Tech. Services
Victoria Tumlinson Model Shop

3 Years

Robert Bissell Engineering Sys. Hrdwr.
Robert Gianni Sentry 50 Engineering
Helen Lanam Purchasing
Ralph McKuhen ATS Software Devel.
Cheryl Newkirk Document Control
Fran O'Hare Q.A. Administration
Wendell Olson Software Development
Adel Rocha Final Test
Renee Shales Training
Ersie Taylor PCB Assembly
Dorothy Valgren Industrial Engineering

Who Do I Talk To Now?

To further acquaint you with some recent changes, allow us to drop a few names—solely for the purpose of aiming you in the right direction. We will list names and new areas of responsibility:

DTS Personnel

Gary Gibbons

Asst. Personnel Manager with the added responsibility for the Cafeteria and Security.

Denise Davis-Pierre

Personnel Representative/Operations & Marketing.

May Win-Chaio Yip

Personnel Representative/Engineering & R&QA.

DTS Operations

Dwight Barnett

Materials Manager

Lisa Cadwalader

Material Planning

Tony Delgado

Purchasing

Dick Gonzales

Production Control

Sharon Hauer

Stores

Mike Sutton

Shipping/Receiving/Traffic and Incoming Inspection

Clint Hutchinson

Manufacturing Engineering Manager

Dave Altieri

Industrial Engineering

Carl Conrad

Plant Engineering

Doug Enns

Series 50 Advanced Manufacturing

Mike Lawrence

Test Engineering Development

Ernie Meri

Test Engineering Services

Morrie Taubman

Sub-Assembly Operations Manager

Hazel Brazys

Electro-Mechanical Assembly

Wilmer Clark

Sub-Assembly Test

Donna Dennison

Sub-Assembly Inspection

Norma Hsi

PCBA Solder & Secondary Assembly

Nancy Johnson

Cable Harness Assembly

Chris Menicou

Sub-Assembly Test

Roxie Reddick

PCBA Prep & Insertion

Jim Starr

Customer Service Test

Vern Vasques

Systems Operations Manager

Joe Shivokevich

First Shift Systems Operations (Cabinet Assembly, S-10 and S-VII)

Tim Wrye

First Shift Systems Operations (S-20, S-21, and S-50)

Mike Tarter

Second Shift Systems Operations

Rich Frederick

Third Shift Systems Operations

A few business units have changed their names recently! Analog Test Systems (as you probably know by now) has changed from Series 80; Digital Test Systems has changed from GPLSI; Xincom is now called Memory Test Systems, and Sales and Service is now being called Field Operations.

BENEFIT\$

Paid Prescription Drug Plan

If you and/or your dependents are covered under the Comprehensive Medical/Dental Plan, you should have received your Paid Prescription Drug Card by now. If you don't have your card yet, please contact your department secretary.

Kaiser Health Plan

For those who changed to the Kaiser Health Plan effective January 1, 1983, you should receive your Health Plan Card by

mid-March. If you call Kaiser to set up appointments, etc., make sure you tell the Appointment Clerk your coverage is effective January 1, 1983, and that you don't have your membership card yet. Also provide them with the following information: Group #: 8163; Sub-Group #: 60. When you go in for your appointment, give the Registration Clerk the same information. They will issue a thirty (30) day temporary card for your use until your permanent card is issued.

If you should run into any problems, contact Angie Carey on x2428 for assistance.

Angie Carey

Division Update — Digital Test Systems

We are now starting into 1983 which we all hope will prove a better business year than 1982. The last few months of 1982 were tough and resulted in cutbacks, which none of us want to have repeated this year. You will be encouraged to know that we ended last year on a high note for the business. The orders for December were the highest in about a year which gave us a very good backlog to enter the new year. This gives our first quarter revenue target a very promising start.

During December, I had the opportunity to address all of you, and I plan to create similar opportunities to discuss the performance of the company in 1983. Having seen how I run these meetings, I hope that you will feel free to come prepared with even more probing questions!

As I said, 1982 was a hard year, but we survived and made a modest profit — quite a feat when one takes into account the state of many businesses. However, January 1, 1983, did not automatically herald in a new improved economy. Things are still tough and many of our major customers are still seeing sluggish demands, which in turn means it may be some time before we see a sustained order upturn from them.

However, we did take some drastic steps in the last quarter of 1982 to adjust the size of the business to our forecast of 1983. I hope that from now on we will see the benefits of those actions.

The main task for the immediate future is to build on the strengths that we have. The strengths of:

- Having good, loyal people;
- Our product range;
- R&D investment;
- Being the market leader;
- Being profitable;

...to ensure that when the economy recovers, we are in the best condition to respond.

With your support, I know that we can make 1983 a successful year and one where we can justifiably claim that Fairchild strengthened its position as the market leader!



Mike Hampson
Mike Hampson,
DTS General Manager

Division Update — Analog Test Systems

In my last Data Bits article, I mentioned the new Series 80 Digital Resource Option which was introduced at the IEEE Show in November. This new option became a key selling factor in two very hotly contested competitive battles during November and December. We won both of them! The first resulted in an order from Intermedics, a leading heart pacer manufacturer, in Freeport, Texas. This basic Series 80 system will be delivered in February — the Digital Resource Option with two analog test heads will be delivered in April. The second is an order from the 3M Company in St. Paul, Minnesota. This very large Series 80 configuration will be delivered in three phases — Phase 1 (February delivery), includes the basic system. Phase 2 (April delivery), includes the Digital Resource Option, and Phase 3 (December delivery), includes the general purpose digital option and laser trim solution. This system at 3M will be the heart of a new corporate central testing service for the 3M Company.

Analog Test Systems has made good progress in achieving its split-off from DTS. Don Crawford now has filled the key management positions in our new ATS Operations organization. These include Mike Mitaly as Manager of Production Test, Rick Gibson as Manager of Materials, Jerry Jensen as Manager of New Product Introduction, Al Petersen as Manager of Industrial Engineering, and Larry Burns as Manager of Test Engineering. The staffing of these organizations is proceeding and by Data Bits press time should be largely completed. This seems like an appropriate time to express my personal thanks to all of the many people in DTS who were not directly part of the Series 80 organization, but who worked very hard during the past two years in helping Series 80 get established as a new business unit within Fairchild Test Systems.

In December, Paul Ward joined Fairchild as Applications Manager for the Analog Test Systems Business Unit. Paul reports to me and is responsible for the development and support of all Applications Products for the Series 80 Analog Test System. The new organization consolidates under Paul, activities which were previously divided between Engineering and Marketing. This move emphasizes Analog Test Systems commitment to total applications solutions for its customers. Mr. Ward was most recently with Teradyne as national field applications manager. He has extensive applications experience in analog test solutions.

As the new year begins, there is much speculation about when the economy will

pick up. Opinions vary, but most people are hopeful of a mid-year upturn. No matter when the upturn occurs, we have a very challenging year ahead of us, but if we all approach the challenge with enthusiasm and work hard to achieve our individual goals, we can succeed as a team.

Happy New Year!

Fred Laccabue,
ATS General Manager



For My Friend

I hear your house is dim and gloomy and a dreary spirit hangs about. And your old frame is racked and withered with pain.

I hear your soul has felt, yet, another cold day with rain and life, it makes you feel so down and out.

So, may these words cheer your day and let your smiles brighten the way. With miles and miles and piles of smiles to sit on each and every day, to warm your hearts and all your other loving parts to help chase those cloudy days away.

Walk hand in hand with friends and know, they spread their love and share your woe, for only with good friends can caring grow.

Don Matheny, Series 80 Drafting



January's Photo of the Month is titled, "The Windy City" by Otto Lagwig (swing shift) of our Systems Test Department.

Dave Witts



Food! Food! Glorious Food!

It starts at 5:30 every morning — the doors are unlocked, the coffee is put on and the bacon starts frying. The staff of Guckenheimer begins their day in anticipation of the over 700 hungry Fairchild employees that will visit the Building 32 Cafeteria.

BARBARA PACHOUD, Manager, shares her day with us and begins by introducing her staff. "On the grill is Paul Abraham; Cedra Mapes behind the sandwich counter; Vera Swelling at the cash register and Dee Neff, our entree cook. Swing shift consists of two employees — Geri Gibbons and Mary Bower. Geri and Mary run the whole show at night, and switch off duties as needed."

Barbara points out that there have been quite a few obvious changes recently — one of them being the "South of the Border"

program, a variety of mexican dishes that are available every day. In addition, the atmosphere has been upgraded. How has all this affected pricing? Says Barbara, "It's been a year and a half since the last price increase — the most recent being 5%."

Barbara is anxious to let everyone here at Fairchild know that all the food is prepared on-site and fresh every day. "A lot of people think our foods are frozen or canned — that is not the case. On the salad bar, only the beets and green beans are canned." In addition, she asks that employees give her their recommendations, compliments and/or complaints. "We need to know how we're doing and what employees want."

Remember the wonderful aroma of barbecued hamburgers that used to hit you when you'd head into the link? April '83 should see the return of that Tuesday special — weather permitting of course.

A couple of other features being offered by Guckenheimer, are the monthly "Theme Days" which are announced in the menus



Cedra Mapes preparing for the sandwich counter.

that are sent out, and a catering service. "I don't think people are aware that we will cater. We can handle anything from cakes for parties to full luncheons. It's not elegant, but we can set a nice table with flatware and china. We can serve anything from buffet-style to hot entree luncheons." Sounds good Barbara! I think I'll give it a try next month!

Denise Hutson

ALPHAGRAM

In the diagram, there are 26 rows across, each with one empty box. Insert different letters of the alphabet into the empty boxes in the diagram (one letter per box) to form words reading across. We have listed the letters of the alphabet at the bottom of the page and, since each letter may be used only once, it's a good idea to cross off a letter as you use it.

Each word you form must be of five or more letters, but not every letter in each row will necessarily be used in forming a word. Words beginning with a capital letter and words ending in "S" are not allowed. Do NOT rearrange any of the letters already in the diagram.

Example: In the first row across, you should insert "M" in the empty box to form the word ALMANAC. As you can see, you have used only six letters in the row in addition to the letter you have inserted. The letter you insert may be the first letter of the word you are forming, the last letter of the word, or somewhere in between (as in ALMANAC).

Remember: Each word you form must have FIVE OR MORE letters.

D	O	R	A	L		A	N	A	C	T
C	L	O	P	R		M	R	O	S	E
S	C	I	R	C		L	A	R	G	E
F	O	R	G	U		S	T	R	A	X
S	P	I	B	O		I	N	G	A	L
O	T	R	A	N		U	I	L	C	H
C	O	N	T	F		U	L	T	N	E
E	L	B	L	A		E	M	B	E	R
R	O	G	A	N		I	L	T	O	E
B	E	J	T	A		E	N	H	R	Y
A	I	S	N	O		B	A	L	L	A
G	E	C	O	N		E	R	T	A	L
B	L	E	M	A		N	E	T	H	E
D	O	N	P	E		I	L	B	O	R
U	T	R	A	F		O	O	R	A	L
R	E	S	O	N		A	M	P	E	N
B	R	A	N	E		L	A	I	N	E
S	T	O	B	S		R	U	C	T	Y
T	R	A	M	U		C	L	E	O	R
G	I	N	M	I		U	T	E	T	H
S	T	A	M	S		S	T	E	M	P
L	A	U	N	C		N	O	R	T	H
H	O	B	R	O		O	T	H	A	N
P	I	L	O	W		L	A	V	O	R
W	R	E	S	L		U	N	G	E	T
S	I	N	C	O		A	C	K	E	T

A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z

Pat Alvarado, Health & Safety Coordinator

Bits & Pieces

JEN BRIAN, Manager of Software Engineering, recently received Author's Club recognition for his article titled "System Manager Enhances LSI Production Testing". His article appeared in the October 28 issue of *Electronic Design*. The article describes features and points out user benefits of Fairchild's Test Area Manager, "A managing system that combines the roles of program development station and network controller to make it much easier for testers present and future, to do what they do best—checking high speed components." Article reprints are available from Marketing Communications, x2489.

•••

HELEN HUNZIKER, Applications Engineer, received an Author's Club award for Application Note 86 titled "Using the Auto Deskew Feature of the Sentry® 21." The application note was printed and distributed in July and also appears in our latest issue of *Interface*, Vol. 8 No. 2. Application



YOU'RE RIGHT JAMES,
THIS IS FASTER !!!

Why do they call it *rush hour* when nothing moves?

I don't know about you, but every day, for a total of about 50 minutes, my vocabulary becomes such that any truck driver would envy my skill. The 50 minutes I refer to are the 20 minutes it takes to get to work and the 30 minutes it takes to get home. It will never cease to amaze me just how some folks manage to pass a driving test.

Ever notice how:

- People forget how to drive when it rains?
- The slowest car on the road is always in front of you?
- The train always waits for you to arrive before it lets the gates down?
- The car in front of you slams on his brakes at a yellow light just after you've floored it?
- The car in front of you is a nice guy and lets five cars turn in front of him and you're late?

It's "survival of the fittest" every morning and evening, five days a week, 52 weeks a year. Next to working as an Air Traffic Controller, I figure it's the #2 reason for going prematurely gray. There's nothing

Note 86 explains the Set Deskew instruction included in the Sentry 21 software. When the test system has been properly calibrated, Set Deskew reduces the amount of timing skew among the pins at the device under test to an absolute minimum. Printed copies of Application Note 86 are available from Marketing Communications, x2489.

•••

Please join me in welcoming SUE CURTZWILER to her new position of Assistant Editor of *Data Bits*. Sue will be replacing Clareen Shafer and will begin work with the January issue in assisting Norma Rouge and myself.

Denise Hutson

•••

A note of thanks was recently received by the employees of our Cable/Chassis Department from the Santa Clara Moose Lodge for their donation of eleven food baskets. In the past, the employees exchanged Christmas cards, but decided to put their money to better use this past holiday season. Their donations enabled a needy family to live for three days!



Rec Council Ad-Ventures

A ski trip is being planned for the latter part of February. Stay tuned for further details!

As a reminder, your Rec. Council's office hours are Tuesdays and Thursdays from 11:00 a.m. to 1:00 p.m.



New Canadian Lumberjack Show Premieres at Marine World! Held weekends and holidays through March, the Canadian Lumberjack Show will feature old time competition in log rolling, wood chopping, axe throwing, singlehanded sawing, high rigging races, power sawing and many other traditional events. Six burly woodsmen, clad in wool plaid shirts, logging boots and Canadian 'toques' or hats, compete one-one-one in a 25-minute show of non-stop action. Don't miss the opportunity to see Northern California's only Lumberjack Show this winter at Marine World! Park hours are 9:30 a.m. to 5:00 p.m. Visit your Rec. Council Office for your Wild Card and get a 15% savings off the regular admission price.

Linda Brewer



Denise Hutson

Word Search

Happy New Year! Our first Word Search Puzzle for 1983 was designed by Candice Brown of DTS's Hybrid Engineering Department. See how many Fairchild related words you can locate!

- Fairchild
- Transistor
- Diode
- Op Amp
- Rectifier
- Bipolar
- Vacuum Tube
- Voltmeter
- Oscilloscope
- Gate
- Hybrid
- Analog
- Linear
- Cathode
- Digital
- Resistor
- Capacitor
- Logic
- Switch
- Inductor
- Device
- Current
- Circuit
- Source
- Triode
- Base
- Emitter
- Data

E E G A I B E R E R A M R N E E F M E O
 B R O D U S V R A L O P I B C G A F L B
 C U R R E N T A R D Y D U I R O A R X R
 I L S S E M I T T E R T V G W L A T S O
 A N E O H D V O L T M E T E R A F I E T
 E I S F C R O T C U D N I A E N E E L S
 K P H I T P F H U A R O T I C A P A C I
 I M O N I B M C T R E S I S T O R N S S
 M I A C W T A A I A V Y L N I N I G A N
 E F L E S V J S P F C I A A F E P H F A
 O G E D O I D A E O K E T R I T Y M E R
 N O V O M A L O G I C R I L E B S T U T
 E L A I K H E L P O E T G E R A E N I L
 A R I R N Y C M I R I C I I O F O L W H
 U F N T J W I G N C H N D O W T A E D E
 R T R I D E C R U O S R E C I R C U I T
 D L I H C R I A F E H O E C G H S N U M

The Roving Reporter Asks...



When you were a child, what did you want to be when you grew up?

"What just about every little girl wanted to be — a stewardess! And rich of course."

Mary Piazza, ATS GM's Office

"Eighteen years old!"

Anonymous

"A movie star or an airline stewardess!"

Rita Lopez, DTS Purchasing

"A combination of a fireman and grocery-man!"

Bob Cancilla, DTS Production Control

"Richie Cunningham"

Anonymous

"There were four things I wanted to be: a nun; a teacher; a secretary; and a singer. So far, I've accomplished three of these, but I'm not saying which three!"

Susi Brust, DTS Purchasing

"An Artist"



Norm Soucy, DTS Publication Production

"I wanted to be a gospel bass singer, but I made the mistake of getting married, (which is the best thing that's ever happened to me!)"

Gene Cash, DTS Production Control

the 'Classifieds'

This column is a service for Fairchild employees only. Advertisements from commercial organizations or their representatives will not be accepted.

For Sale: Vokal skis. 150, Cubco bindings. Excellent for the beginner or rock skis. \$20 as is. Call x2884.

Safety Tip

Teamwork protects you on the job. Cooperate...participate.

I have a Question, but don't know who to go to for the answer.



Well then, let **DATA BITS** do the asking for you by submitting your question(s) of general interest to our staff. We will then do our best to get your company related question(s) answered for you.

If sufficient interest exists in any one subject, it will be responded to in Data Bits at the earliest opportunity or will be addressed at the next employee meeting. If you prefer a confidential answer, either by memo or phone call, please sign your name below.

Name _____ X _____ M/S _____

Address all correspondence to DATA BITS at M/S 36-219

Benson Important Addition to Schlumberger

Schlumberger recently acquired a majority interest in Benson, a French company that develops and manufactures equipment used in computer-aided drafting systems. Benson's revenues in 1981 were \$53 million; half of the sales were made by the U.S. subsidiary of Benson. Net income was approximately 5% of revenues.

Benson manufactures three types of systems: electro-mechanical pen plotters; electro-static printer plotters; and digitizers which allow conversion of analog graphic information into digital data.

Benson equipment and systems are used in activities involving computers and Computer Aided Design and Manufacturing Systems (CAD and CAM). More than 10,000 systems are installed in the world.

Benson operates a development and manufacturing center in Creteil, near Paris, and one in Guerande, in Southern Brittany. In the U.S., it operates a development and manufacturing center in Mountain View, California. Benson has approximately 1,000 employees equally distributed between Europe and the United States. Jean Mourier, President of Benson, reports to Michel Vaillaud, President and Chief Operating Officer of Schlumberger.

DATA BITS Staff, etc.

Editor Denise Hutson

Asst. Editors Norma Rouge, Sue Curtzwiler

Reporters Pat Alvarado, Mary Bettencourt, Linda Brewer, Angie Carey, Mariann Solari

Design/Layout Mary Raboy

Proofreading Mary Piazza

Photographer Dave Witts

Cartoonist Don Matheny

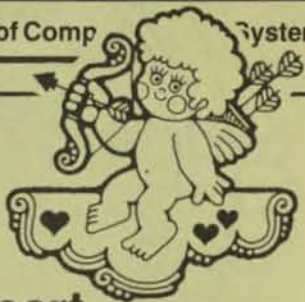
Editorial Policy

All articles submitted are subject to editing and will not be returned. Articles submitted in one month will be printed in that month provided that available space and issue size allows. All articles contents must conform to common sense and decency standards, and to established company policies.

Deadline

Address all correspondence to DATA BITS, M/S 36-219 by the third Monday of each month.

Gifts From The Heart



"The art of giving men presents is to give them something which they cannot buy for themselves; something which, without your cooperation, they would never be able to possess."

A.A. Milne

Heartfelt thanks to all the enthusiastic donors and everyone else who participated in the January '83 Blood Drive. We had 147 donors present (of which 31 were first timers!), 24 donors were deferred for medical reasons, giving us a total of 123 productive donors.

Pat Alvarado, Health & Safety Coordinator



The Beginning...life saving volunteers taking the first step.



The Grand Finale

On The Job Around The Clock



In many cases, Security at Test Systems in San Jose creates the first impression to our many visitors. Customers, job applicants, vendors and contractors deal with our Security Department personnel before they even enter our facilities. This initial contact can set the tone for a successful visit.

Security, however, is much more than the "first impression". A big part of their job is to safeguard personal and company property. This is why even during off-hours, weekends and holidays, security rounds are made to ensure the safety of labs, cages, limited access areas, safes and perimeter doors. Periodic parking lot patrols are also made to ensure the safety of employees' personal vehicles.

Insuring a control on the movement of property and material is also a large part of their jobs. That's why property passes and purse/briefcase checks are done. If you feel inconvenienced by such procedures, just put yourself in their shoes — it's not

something they enjoy doing, but it is a necessary part of their jobs.

Other duties of our Security Department include processing key requests, screening incoming phone calls and researching lost-and-found property. In addition, the collection and disposition of company private material and keeping a watchful eye out for security and safety-fire related hazards are also included.

Seizing the opportunity to reach 1200 Data Bits readers, the members of our Security team want us to know one very important thing — they need our help in order to minimize vandalism of property in or around our facility. According to Carl "Mac" McClure, day shift lead for Security, "The more employees that stay on the alert, the better the chance Security has to prevent such acts. Employees need to take the responsibility not only for themselves but for each other!"

Gary Gibbons/Denise Hutson/Sue Curtzwiler

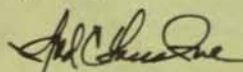
Division Update — Analog Test Systems

During 1982, Analog Test Systems got off to a good start towards its goal of becoming #1 in analog ATE. Although we shipped a few systems overseas in 1982, our most significant progress was in the U.S. marketplace. In January, however, we began making good progress in overseas markets — a Series 80 system shipped at the end of January to IBM France. This system is the fifth Series 80 system we have shipped to IBM but the first outside the U.S.A. The IBM France system is configured with 96 analog channels and is very similar to three of the four systems shipped to IBM at East Fishkill, NY. Also in January, we made our first sale to a Japanese customer—OKI Semiconductor. ATE Japan, under Masaru Tanaka, has built up an excellent staff of analog applications experts during the past six months, and that investment is now beginning to pay off. We are looking forward to a year of aggressive market penetration in both Europe and Asia.

During the month, a Series 80 programming class was held. Two of the attendees at this class were from Intermedics. I reported on the award of the Intermedics contract in my last Data Bits article. I had lunch with the Intermedics people the day before the end of their two week training class, and they told me that they were now more convinced than ever that they had made the right decision in selecting the Series 80 for their analog test system. It is very satisfying to hear this kind of feedback from our customers. It is better than any measure I know of how good of a job we are doing.

During February, Analog Test Systems will be relocating its Administration, Applications, Manufacturing and Marketing organizations to the southwest corner of the first floor of Building 32. The major reasons for this move are to accommodate the ATS Manufacturing function and the growing ATS Applications function. ATS Engineering will remain in its current location in Building 36. We expect the move to be completed in late February.

It is still too early in 1983 to tell whether the long awaited economic recovery predicted for mid-1983 will occur; however, I'm going to keep working as hard as I can so that I can be ready to capitalize on the upturn when it occurs. I am sure that all of you will join me.



Fred Laccabue,
ATS General Manager



Division Update — Digital Test Systems

I always find writing this article a challenge. Each month, I sit down with a blank sheet of paper and try to decide what I should write about. At the time of writing, very little of the year has passed — so it's premature to give a business statement. Similarly, very little of importance has happened to impact our results.

Sometimes I think that the beginning of a year can be depressing. There's a big anti-climax after the holidays, and in England the weather can be even colder and wetter than in California! Spring seems a long way off, and the year stretches ahead with the same old routine as in the past year. However, usually by the end of February, everything starts to look a lot rosier. I guess a lot of you may feel the same, especially if you are feeling unhappy and worrying about job security.

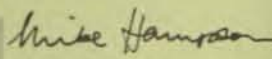
As I said in our last issue, 1982 was a tough year with some severe cutbacks, so I can well appreciate your bearing concern for the future. My concern, however, is to assure you that the management does not want a repeat of 1982 and is attempting to build a sound base for the business with a confident, secure work force with good morale.

My goal for 1983 is to build employee confidence in the management and hence, build morale. Fairchild and Schlumberger

can provide you with a good, sound career path, and our technology in ATE is second to none. What needs to happen is for us to recognize that we have a common purpose and interest to get ahead and do the best possible job. Let's not think that 1983 will be a re-run of 1982 disappointments. If you want to get something done, changed or even explained, ask your supervisor or manager. Don't always expect the answer to be what you want to hear, but make sure you get your feelings heard.

If you don't want to tell anyone local, why not tell me? All you have to do is take a blank sheet of paper, write "Dear Mike..." and give it to your Personnel Representative.

With a good inflow of your letters each month, two things could be achieved: One — I'd hear about issues and might be able to do something, and; two, I'd have a good source of issues each month to write about. It's amazing what problems a blank sheet of paper and a pencil might be able to solve. Without these two items, this article would not have happened!



Mike Hampson,
DTS General Manager

My Reflection/a Poem

*I cast a look of cold night air,
upon a mirror that wasn't there.
It returned my ice cold stare
and whisked me off to who knows where.
It showed me places I'd been and did not want to go,
places I'd gone and did want to be,
time that I had spent and did even know.*

*When I was through with my look upon the mirror,
I didn't know if I was really here.*

Don Matheny, Series 80 Drafting



Anniversaries

Apologies to those of you whose names appeared in January's issue as having anniversaries. Data Bits gets mud in the eyes once again! The following listing for January has been rectified.

January

20 Years

Maude Stanley

15 Years

Carole Taylor
Bill Lyon
Beth Litton

10 Years

Chatta Tsuchiguchi
Morri Taubman
Bob Hickling

5 Years

Martha Barrientos
Gloria Garcia
Maria Perez
Len Krukowski
Bob Burget
Tim Wagner
Tom Quick
Chuck Levezu

3 Years

Valentino Liva
Cliff Ankney
Hai Ngo
Judy Othon
Virginia Moore
Clint Hutchinson
Du Yong Bae
Phil Postel
Rick Gibson
Joe Peterson
Teclu Tesfazghi
Gene Mendoza
Mary Garrod
Curtis Larson
Norma Rouge
Billy Byrd
Ursula Schuster

Denise Hutson

February

20 Years

Harold Sargent

15 Years

Nancy Huston

10 Years

Mike Hughes

5 Years

Mary Raboy
Marie Sheppard
Mark Gonia
Fred Giesen
Bob Kreszyn
Danny Salinas

3 Years

Hyung Yum Oh
Cuc Thu Tran
Armenio Santillano
Rogelio Esguerra
Jeffrey Szlauko
Don Peterson
Angarai Sivaram
Lori Renella
Bob Valentine
Don Gonzales



February Reminder:

If you missed signing up for the eight week "Think Thin" group in January, we can start another program in February. Contact me for information and the start date, x2101.

Pat Alvarado, Health & Safety Coordinator

BENEFIT\$

Changes in Marital or Dependent Status

New Dependents

Your marital and dependent status are important to your Employer Benefit Plans. All changes in dependency status reported within 31 days after a marriage, birth of a new child, or completion of formal adoption proceedings are accepted, without Statements of Health, for the new dependents, (Dependent Life Insurance excepted).

For all dependents not added within 31 days, a Dependent Statement of Health must be completed and approved by Equitable before the coverage will become effective. In these instances, the coverage will NOT be retroactive to the date the new dependent was acquired, but will be effective on the date that Equitable approves the coverage (with Dental effective 6 months later).

If you are covered under the Kaiser Health Plan, you must report status changes within 30 days after a marriage, birth of a new child, or completion of formal adoption proceedings are accepted. If it is not done within 30 days, dependents may not be added until the next Open Enrollment Period (usually in November).

Husband and Wife — Both Employees

No person may be eligible for benefits both as an employee and as a dependent or as a dependent of more than one employee. When a married couple are both employed at Fairchild and one terminates, the coverages for the spouse who terminates are not automatically reinstated as dependent coverages but must be applied for within 31 days of the date of termination to provide continuous coverage.

Applications made within 31 days are accepted without the completion of Statements of Health.

Please contact your personnel representative whenever there is a change in your dependency status — either addition or deletion of a dependent.

Angie Carey



February's Photo of the Month is titled, "Mem Chu" and was submitted by Jake Gentry, Q.A. Systems Specialist in DTS's Product Assurance Department.

Dave Witts

Rec Council Ad-Ventures



Get ready on March 12 to ski Mt. Rose and Squaw Valley! The bus will depart 1:00 a.m. Saturday morning, and will return 9:30 p.m. Sunday evening. The cost is \$44.50 per person double occupancy — the price includes transportation and lodging. Sign-ups being accepted now, but first come first served. For further information, contact your Rec. Council Office.

Linda Brewer

Puyallup Open House Showcased New Bipolar Plant For Visitors

An open house on January 29 showcased the Bipolar Division's new Puyallup plant to top Fairchild management, 122 staff members and families, and state and local Government officials. The factory, which is now in the fit-up stage to test and debug equipment, was operating under clean room standards by February 1. Regular production is scheduled to begin in the May time frame. The open house gave employees and their families a chance to tour the facility and view displays of the manufacturing operation. LSI Group Vice President, Jean Boucau, and Bipolar Division General Manager, Tom Palamenghi, were on hand for the occasion.

Bits & Pieces



Please join me in welcoming two new members to the staff of Data Bits. Joining us in February, are MARY PIAZZA of the ATS Division's G.M.'s office, as our Proofreader, and DON MATHENY, ATS Drafting Department as our new cartoonist!! To Mary and Don, welcome — we all look forward to working with you!

• • •

Congratulations to DICK MAHONEY, Group Manager — Series 50 Compiler Systems on the presentation of his paper "A Common Pascal Test Language — Reality or Pipedream?" at the recent IEEE Test Conference in Philadelphia. This paper explores the pragmatics of a common pascal test programming language that can be broadly used on automatic test equipment with diverse architecture. Dick is currently going through channels and is hopeful of getting his paper published soon.

• • •

Congratulations to KATHY HARVEY and her husband Wayne on the birth of their new daughter! She was born on January 19, 1983 at 10:30 a.m., weighed in at 9 lbs. and 3/4 oz., and measured 20 1/2 inches

long. Kathy and Wayne have named their new addition 'Sarah Elizabeth'.

• • •

She wasn't expecting it, but in early January, DOT VALGREN, Associate Industrial Engineer in DTS's Industrial Engineering Department, received a letter of commendation from the President of the West Valley Joint Community College District. The letter cited that she had earned the highest achievement in the Work Experience Program at Mission College for the Fall Semester, 1982. Congrats Dot!



• • •

Congratulations to FRANK BOWER, Software Programmer for ATS, and his wife KAREN on the birth of their daughter Kristina Michelle. Kristina was born on Monday, January 31, 1983, weighed in at 6 lbs. 15 oz., and measured 18 1/2" long. Rumor has it that "dad" is floating on a cloud these days!



New Transfers

Welcome to Analog Test Systems!

Julietta Araiza	Andrew McCartney
Mary Arbutina	Michelle Minium
Mary Bettencourt	Keith Moore
Bob Boyd	Thanh Nguyen
Susi Brust	Fred Patton
Bonnie Buckelew	John Pennywell
Larry Burns	Al Petersen
Billye Byrd	Mike Prater
Mike DeLapp	Ina Presnell
Mike Eastman	Julie Price
Livorio Farmer	Conrad Puno
Niranjan Gupta	Maria Rivera
Wayne Harvey	Chris Robinson
Mark Hosman	Rosalee Rufo
Lance Kendall	Stacey Sellin
Bev King	Mike Slavic
Helen Lanam	Ed Smith
Joanne Ludwick	Gary Walsh
Kirk Martin	Brian Wirth

Welcome to Digital Test Systems!

Thurza Johnstone

The 'Classifieds'

This column is a service for Fairchild employees only. Advertisements from commercial organizations or their representatives will not be accepted.

For Sale: '74 Mustang II. Good condition, but needs some work. 77,000 miles, 4-speed, 4-cylinder, AM-FM with Cassette, tires in excellent condition. Perfect for your high school mechanic! Contact Denise at x2216

For Sale: Scuba Dual Tanks, back pack, valves, \$100. Marlin .22 semi-auto, \$50. Contact Mike at x2557.

Wanted: Roommate, responsible, clean, non-smoker, to share 4 bdrm. house with 2 males. \$247./month plus 1/3 utilities. Contact Mike at x2557.

I have a Question,
but don't know who to
go to for the answer.



Well then, let **DATA BITS** do the asking for you by submitting your question(s) of general interest to our staff. We will then do our best to get your company related question(s) answered for you.

If sufficient interest exists in any one subject, it will be responded to in Data Bits at the earliest opportunity or will be addressed at the next employee meeting. If you prefer a confidential answer, either by memo or phone call, please sign your name below.

Name _____ X _____ M/S _____

Address all correspondence to DATA BITS at M/S 36-219



Division Update — *Analog Test Systems*

Toward the end of last month the annual Semicon Trade Show was held at the San Mateo County Fairgrounds. Analog Test Systems introduced several new products—the first and foremost of which was our new low cost dedicated linear test system, the ATS 80/SL. This new system is built up completely from identical elements that comprise our general purpose Series 80 system. The difference is that the ATS 80/SL consists of only those elements necessary for testing a particular family of devices. The ATS 80/SL is dedicated to the testing of operational amplifiers, converters, timers, regulators, analog switches and all devices which comprise the "standard-linear" family. The objective of this repackaging of standard Series 80 elements for our new dedicated linear test solution is to provide testing of a family of devices at the lowest possible cost but without sacrificing the power of the general purpose system. Thus the ATS 80/SL offers full engineering characterization and production testing capability for standard linear devices at prices competitive with microprocessor based bench-top solutions but with the full power and capability of our general purpose Series 80 system. Control of the dedicated standard linear test station is handled by the same Eclipse™ S-140 minicomputer that is used in the standard general purpose Series 80 test system. The significance of



Fred C. Laccabue



Mike Hampson

Division Update — *Digital Test Systems*

The past month has seen a flurry of activity related to new business. The first event was the North American Field Operations Conference in Monterey where all the field personnel came together to receive information on products. It also acted as a focus as many of these people have infrequent contact with the business units and it certainly gave a lot of us our first face-to-face meetings. This year, Digital Test Systems released information on two significant options for the Sentry 20 and 21. The first option is called Extended Local Memory (ELM) and allows

this is that the dedicated low cost ATS 80/SL is one hundred percent software compatible with the Series 80. Therefore, test solutions developed on the general purpose Series 80 run without a single modification on the dedicated low cost standard linear system.

A second offering introduced at Semicon '83 was our new Time Share Test software. This software enhancement available on both the Series 80 and the ATS 80/SL permits up to eight test heads to be controlled by a single controller. The low cost of the dedicated linear test station coupled with this new ability to support up to eight test heads on a single controller result in test solutions priced at approximately \$55,000 per test head.

Two new instruments were introduced at Semicon '83. One was a new Time Measurement Unit which produces the capability of conditioning and measuring

our systems to handle long streams of test vectors more effectively. The second option is called Multiple Precision Measurement Unit (MPMU). This allows more than one DC measurement to be made in parallel. Both ELM and MPMU dramatically improve the throughput of the 20 and 21.

At this conference we officially updated the field on the status of Sentry 50. For many of them it was their first exposure to our next generation system and by all accounts everyone was impressed by the technology.

At the end of May the major West Coast exhibition called SEMICON was held at the San Mateo Fairgrounds. Here we repeated our product launches of ELM and MPMU but in addition allowed a few selected customers the opportunity of reviewing the status of Sentry 50. At the time of writing we have had good reports from the customers who saw our progress.

Overall, the business is performing satisfactorily with our results remaining above budget. The much talked about recovery remains just that—talked about! However, the tempo with prospective customers is increasing, and we hope to see significant orders during the next few months.

Mike Hampson, DTS General Manager

timed events to better than 250 picosecond accuracy. The second was a Pico Ammeter which addresses the problem of measuring ultra low currents over a large voltage range. Specifically it can force voltages to ± 100 volts and measure the resulting current to better than one pico amp.

I am very pleased to report that Tom Ashmore has joined Analog Test Systems as Manager of our Marketing Department. Many of you will remember Tom from his previous tour with Test Systems as Product Marketing Manager for Digital. Most recently Tom has been Marketing Manager for the FSC Hybrids Division. Also recently joining ATS Marketing in the Product Marketing role is Ted Tilton. Ted has had several years employment at Keithley. Tom Kelley recently joined our Training Department; he and Tom Pask now have full responsibility for ATS training.

Fred C. Laccabue, ATS General Manager

Semicon '83 Report

"Honoring a New Beginning" was the theme of Semicon/West '83, the annual trade show produced by the Semiconductor Equipment and Materials Institute. This particular trade show is attended by more than 30,000 people with over 700 exhibitors. This is where semiconductor and test equipment manufacturers show their newest equipment and materials available on the market. — Jody Bostic

DTS Q.A. Reports . . .

Those of you visiting Semicon West exhibits must have been impressed by the Fairchild booth: layout, decor and the number of systems exhibited. Most of you, however, may not be aware of the amount of planning that was done prior to the show and the amount of energy expended to make the show a successful one.

Most of the planning is done months prior to the show by Marketing, Engineering, Manufacturing, and Q.A. Product Support Engineering (formerly Tech Services). Identifying systems and configurations to be exhibited, defining test programs to demonstrate new system/option capabilities and performance, and also defining spares requirements to support all of the systems is all part of the planning process. Typically, systems selected for exhibit are of the latest design and architecture, most of which may not have gone through the complete release cycle. Thus it is necessary for Q.A. Product Support personnel to work very closely with Engineering and Manufacturing to insure systems are functional, defined demo program plans run successfully, defined spares are provided and systems tested, and finally monitor system deinstallation to insure all items are shipped.

Once the systems arrived at the San Mateo Fairgrounds on that Friday, the real work began. Systems were unloaded, moved into designated locations, set up per layout, all cables interconnected and all systems readied for power on the following day.

Finding an electrician to hardwire power to all of the systems was no easy task, since all of the exhibits wanted their power connected first. Thanks to Darlene Colvin, our show coordinator, (who happened to have a few "connections"), power to all of the systems was hardwired in by mid-morning Saturday.

One of the most exciting moments during installation is power-up and initial system

verification. During this period, you find out if it's going to be an easy installation or one that will require working late into the night to resolve major system problems. Q.A. personnel are always prepared for the worst and committed to whatever it takes to get the system up and running. Unlike last year at Cherry Hill where we worked until 4:00 a.m. to solve an intermittent problem on a S-21, all of the systems came up well with only a few minor problems. The S-80 and the S-10/120 systems were up by Saturday afternoon, S-21 was completed on Sunday and the TAM which was linked to both the S-10 and S-21 was up by Monday morning.



Quality Support Team for Semicon: (L to R) Tony Rasser (S-80), Brian Stevens (S-21), Bill Ackley (S-21), Bill Lyon (TAM) and Paul Triolo (TAM). Not pictured, George Lewis (TAM) and Doug Taylor (S-10/120).

On Monday, the various Applications groups ran all of the demo programs on all systems. Problems identified were quickly resolved and we were ready for show time.

Supporting trade shows can be a fun and very rewarding experience. Besides accomplishing a difficult task in a short period, and in less than a desirable environment (with tremendous time pressures), it provides an opportunity to see all of the exhibits. Meeting with customers and seeing what our competition has to offer (systems with skins off) are other great advantages.

Eric Marko, Q.A. Product Support Engineering

ATS Advertising Reports . . .

Analog Test Systems new dedicated automatic standard linear test system, the ATS 80/SL, was shown at Semicon for the first time. The new ATS 80/SL is a system dedicated to the engineering characterization and production testing of standard linear devices at prices comparable with benchtop solutions—but with the full power and capability of Fairchild's Series 80 General Purpose Analog Test System.

In addition, several new options were demonstrated on the Series 80. The new Digital Resource Option which solves the problem of generating and comparing digital signals required by mixed signal devices was shown.

Designed to provide Time Measurement capability within the Series 80, the new TMU demonstrated can be used to measure slew rate, pulse width, settling time, period, frequency, and time difference between two signals. The TMU is capable of measuring both single shot and repetitive signals.

The new Pico Ammeter, also exhibited, is designed to address the problem of measuring ultra-low currents over a large voltage range, and provides the capability of forcing voltages to ± 100 volts and measuring the resultant current to better than one pico amp.

All three options, the DRO, TMU and Pico Ammeter, are available on the new dedicated automatic standard linear tester, the ATS 80/SL.

All of ATS' products and demonstrations were very well received by the customers.

Jody Bostic, ATS Advertising

DTS Marketing Reports . . .

Semicon West—another one already here and gone. This year's Semicon show was a little different, however, from the aspect of the systems at the show and the approach taken to present them to customers.

This year DTS presented a Series 10/120, 21/120 and a TAM at the booth. Also presented was the Sentry 50. All systems were, in-and-of themselves, appearing for the first time on the West Coast or had new options which were premiered.

The 10/120 was the first Series 10 with 120 pins to be completed by the factory. It was hooked up on the FastNet and talked to the TAM at the other end of the booth.

Although the TAM was shown originally on the East Coast in 1982, it too, was making it's Bay Area debut. For those who hadn't seen this system, it made a nice impressive addition to our booth.

Using the TAM we were able to demo the FastNet local area network between the 10, 21, TAM, Optimizer, Prep, Tamfactor compiler, gate arrays, SAGE, Test Facility Management (TFM) and TAM Report Generator System (RGS).

Continued, next page.

'Semicon' continued. . .

The S21/120 which was at Semicon had the Extended Local Memory capacity as well as the capability to have multiple PMU's.

One of the impressive parts of Semicon was the presentation of Sentry 50. It was a most unique marketing idea which undoubtedly took a good deal of planning. For a customer who was interested in the Sentry 50, a complete program was scheduled. It began with meeting the limousine at San Mateo Fairgrounds for a comfortable ride to Burlingame Hyatt Hotel. At the Hyatt, lunch was available while the customer viewed an 8 projector, computer coordinated slide presentation on the Sentry 50. From there, it was back into the limo for a ride to San Jose where the customer has a guided tour through the S50 Engineering Lab. The lab was set up complete with display table for boards, gate arrays and hybrids, and everything was labeled for easy reference by the customer.

I heard nothing but positive comments regarding the show and the interest shown by the customers. It seems the customers who are looking are showing a much deeper interest than in months past and I feel confident that our market is turning around. I am also pleased to report that preparation for the show went very very well. Cooperation received by the factory made this one of the best shows that we have seen for some time. Thank you to everyone involved.

Linnea Kline, DTS Marketing

Anniversaries

5 Years

Pam Gray
Beverly Lynch
Romeo Feril
Michael Keith

Transfers

Gary Benson (DTS)

3 Years

Kathy Witts
Denise Neiman
Rhonda Tolk
Keith Moore
Jennifer Sun
Romualdo Ronquillo
James Heinisch
Joan Gerbasi
Colleen Reedy
Shiela Grismore
Kathy Bacon
James Smith
Inshen Chiang
David Christiansen
Robert Burnett
Jeff Applebaum

New Hires

Joe Franciotti (DTS)
William Morgan (DTS)
Muhammed Choudhry (DTS)



Vacations

During your first year of employment, you are credited with five (5) vacation days after the completion of six full calendar months of employment. Again, after the completion of the second six full calendar months, you receive a second five (5) vacation days. The following schedule is used for succeeding years.

Vacation Schedule

(Effective January 1, 1982)

Number of Full Years of Employment*	Vacation Days Earned Each Year	Hours Accrued Per Month
1	10	6.67
2	11	7.33
3	12	8.00
4	13	8.67
5-9	15	10.00
10-14	18	12.00
15 & Up	20	13.33

*The next higher accrual rate will apply in the month in which the full year of employment is attained. For example, a hire date of 1/4/82 will accrue 11 days beginning in January, 1984.

All permanent full-time and part-time employees are eligible. Part-time employees accrue vacation at 1/2 the rates indicated above.

You may accrue two times your annual accrual rate. Once you reach your maximum, you will forfeit further accruals until you are below your maximum.

Angie Carey

What Makes a Good Diet?



Many, diets have been tested at the weight-loss program at Johns Hopkins University, and most have been found lacking. What works? A diet that includes the following characteristics:

- Gradual and steady weight loss. Quick weight loss is not only unhealthy, it usually doesn't last. The weight you lose—essentially water, not fat—inevitably comes back.
- A balance of nutrients. A healthy diet should include approximately 20% protein, 30% fat and 50% carbohydrates.
- Variety. Pick a plan that includes all kinds of foods so you won't get bored and quit.
- Lifetime adaptability. A good diet can be continued indefinitely.
- Ease. It should not disrupt your daily life. You should be able to eat what you want, when you want.

Forget the word "failure". Being overweight is not a failure; it simply means you need to diet. Nor is it a failure if you go off the diet occasionally; it simply means you have to be more careful.

Hints to Help You Slow Down

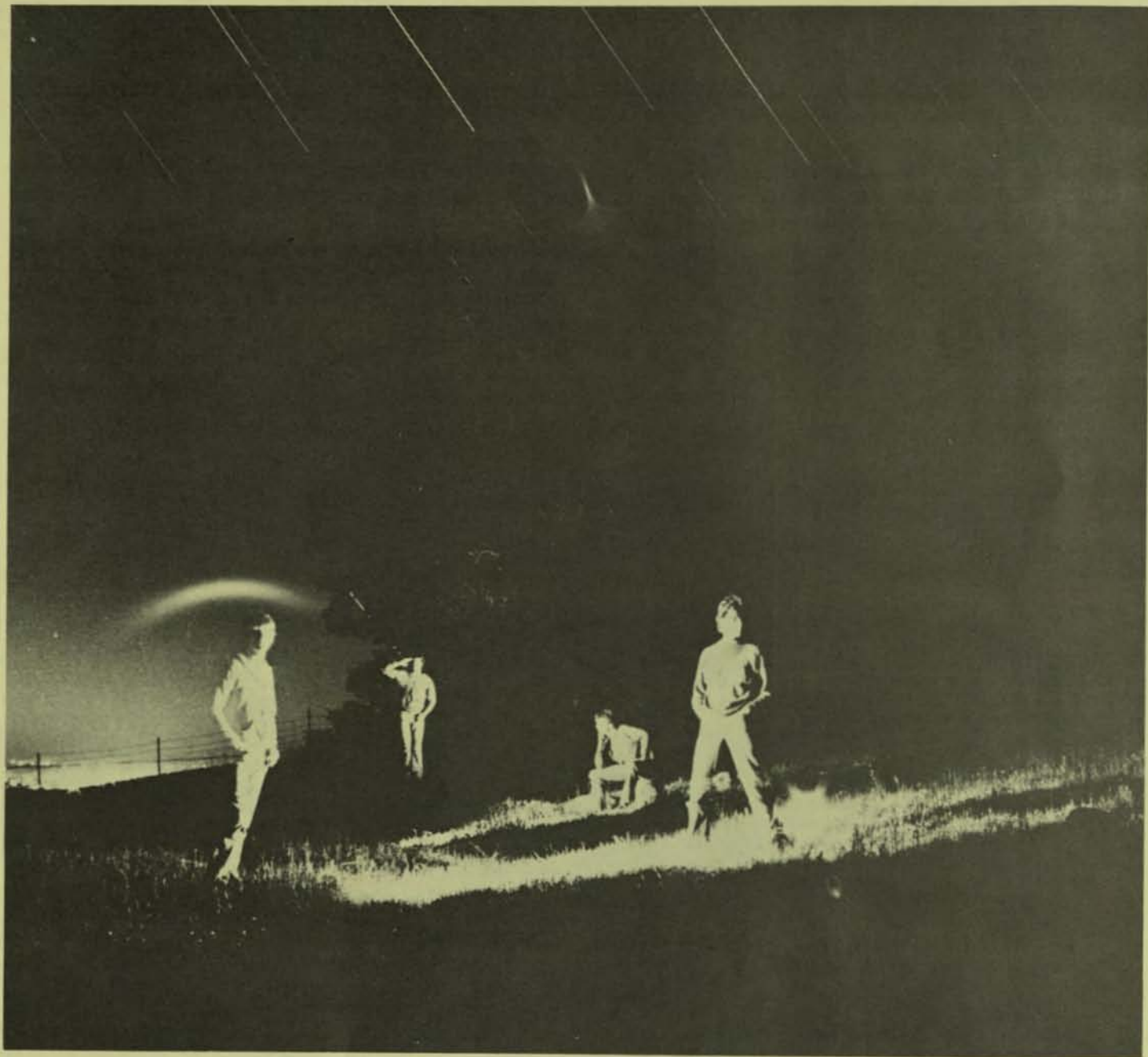
- Never finish a meal in less than 20 minutes. That's how long it takes for the physiological signals of satiety to travel from your stomach to your brain.
- Use a two-minute timer. Eat for two minutes. Rest for two minutes. Think about how the food is filling you up. Start again.
- Put only one food in your mouth at a time. Don't mix one food with another on your plate or fork.
- Place your utensils on your plate after every third mouthful. Wait at least 30 seconds before picking them up.

Make a fresh resolution each morning that you will stick with your diet, no matter what! Take charge. Your body is the result of what you have done to it. Unless you take responsibility, all the diets in the world won't help.

Next month, we'll offer some helpful hints to keep yourself from over-eating.

—Condensed from Johns Hopkins University Weight-Loss Plan

Pat Alvarado, RN
Health/Safety Coordinator



June's Photo of the month is "Space Rain" by George Marcotte, DTS Engineering. The shot took twenty minutes to take and involved four exposures, an electronic flash and only two subjects!

Affirmative Action Program Available to Veterans and Handicapped Employees

One of the major objectives of Fairchild's Affirmative Action Program is to employ and advance qualified handicapped individuals, disabled veterans, and Vietnam era veterans.

Fairchild invites those employees who wish to be considered under the Affirmative Action Program to identify themselves.

Submission of this information is voluntary, and employees should understand that it will be kept confidential, to be used only in accordance with the Program and government regulations.

Further information and self-identification forms are available from the Personnel Department.

Steve Hyndman, Sr. Personnel Representative

For Your Information

Profit sharing statements for year end 1982 are due soon (sometime in July).

If you were hired October 1, 1981 or before, you should receive a profit sharing statement. If you did not, notify your personnel representative, and a statement will be obtained for you.

Computer-Assisted Engineering

DTS Engineering Plans, Part 4

Last month's article described the labor savings expected to result from our planned Computer-Assisted Design (CAD) system. Using modern computer tools we can reduce product development time by minimizing the labor-intensive aspects of the printed circuit board processing. The CAD system accepts a printed circuit board (PCB) logic diagram from a design Engineer, massages it, and eventually produces film artwork for the PCB manufacture. A modern CAD system should reduce the PCB processing time from months to weeks.

We also plan a companion system for design engineers to use. This will be a Computer-Assisted Engineering (CAE) system for use during the logical design phase of PCB processing. (The CAD system is used during the physical design phase of PCB processing.) In the CAE system every engineer will have access to automated design tools such as logic simulators and timing verifiers. These tools capture the logic of the engineer's design at each stage. Facilities such as hierarchical logic simulators not only permit interactive design on the computer but also permit automatic checking of the design. By moving the design process onto the computer we expect not only to save valuable engineer time, but also to produce better designs.

Most likely the design engineers will utilize Engineering workstations to perform their CAE work. These workstations are similar to existing computer terminals but differ in that they contain individual microprocessors. The result is, for many purposes, a standalone computer that provides an individual engineer with remarkable power and flexibility. These workstations will be connected to a larger Engineering network with both special purpose computers (such as machines for simulation) and the new CAD equipment. Such an arrangement will permit the design engineer to enter his/her design schematic on the workstation, validate it, and then transfer it to the CAD system where it will be used in the automatic layout of the PCB.

Improving the productivity of our design engineers is a vital part of our plans for the future. We expect that our planned CAE/CAD tools will result in considerable savings both in terms of individual engineer time and in terms of product development cycles.

Next month we'll conclude this series by looking at the proposed architecture for the Engineering computer network.

Bob Burnett, Engineering Services Manager

Bits & Pieces

May 31 marked the day of retirement for Axel Johnson of the Maintenance Department. The celebration took place in Bldg. 32's cafeteria where cake and punch was served. Everyone, including Mike Hampson, stopped by to wish him well. When asked what he planned to do with all his free time, Axel said he was looking forward to going fishing; unless his wife came up with a few "chores" for him! Many gifts were given to Axel—among them was \$150 collected from the employees; a travel alarm (to wake up the fish!); a memory book reflecting his years with Fairchild; and a "tool board" that included the many tools and equipment he had used in the Maintenance Dept. We're really going to miss you Axel. May you have an enjoyable "rest of your life"!



• • •

Congratulations to Data Bits Photographer Dave Witts—DTS Test Engineering, and his new bride Kathy (Ramsey) Witts—ATS Engineering Documentation. Dave and Kathy were married on May 28 at St. Justine's Catholic Church in Santa Clara and spent a week in New York for their "pre-honeymoon". The real one will be in September which they plan to spend in Hawaii. Mr. and Mrs. Witts are now residing in Campbell.

FACTOR Program Optimizer

The Test Area Manager (TAM), a host system for the new Sentry 50 tester and our existing Series 10, Series 20, and Sentry 21 testers, was demonstrated at the Semicon show on May 24-26. The TAM provides an environment for a number of software products which enhance the usefulness of our current product line. One of these new software products is the FACTOR Program Optimizer.

The Optimizer takes a customer's device test program and converts as much of it as possible to a faster executing assembly language code. What this means to a customer is that his device programs run faster, so he can test more devices in a given period of time with the same tester hardware. Since testing is often the bottleneck in device manufacture, any improve-

"I'm Tired"

Yes, I'm tired. For several years I've been blaming it on middle-age, iron poor blood, lack of vitamins, air pollution, water pollution, saccharin, obesity, dieting, and a dozen other maladies that make you wonder if life is really worth living.

But now I find out it ain't that.

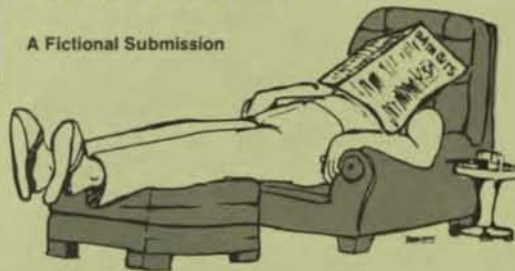
I'm tired because I'm overworked. The population of this country is 200 million. Eighty-four million are retired. That leaves 116 million to do the work. There are 75 million in schools, which leaves 41 million to do the work. Of this total, there are 22 million employed by the government. That leaves 19 million to do the work.

Four million are in the Armed Forces, which leaves 15 million to do the work. Take from that total the 14,800,000 people who work for State and City government and that leaves 200,000 to do the work. There are 188,000 in hospitals, so that leaves 12,000 to do the work.

Now, there are 11,998 people in prisons. That leaves just two people to do the work. You and me.

And you're sitting there reading this. NO WONDER I'M TIRED.

A Fictional Submission



ment in test program speed translates into higher revenues.

Optimizer made its debut at the Semicon show. The Optimizer 8085 Program demonstrated, showed an improvement in execution time of more than 30%, compared with the unoptimized program.

This product was produced by the project team of Mike Holmes, Phan Nguyen and Cang Nguyen (no relation!), of the M3 Software Group. The introduction of Optimizer reflects the need to support and enhance our current product line, which will continue to be our main source of revenue for some time to come.

Mike Holmes, DTS Engineering



Roberta Hilmer, Safety Committee

Safety Tip

Safety Makes For Quality Production

The 'Classifieds'

This column is a service for Fairchild employees only. Advertisements from commercial organizations or their representatives will not be accepted.

Lost: Two Necklaces on Technology Drive: a 16" rope chain; and a 30" chain w/dark green stones. Sentimental value. Reward: \$50. Call M. Yip, x2355.

For Sale: Hammond C-3 church model Home Organ with matching Leslie 22-H Speaker. Oak finish. Quality instrument. Asking only \$1800. Contact Denise Hutson, x2216.



What better time to do a puzzle than at lunch time! Good luck in hunting down these words you normally find in our cafeteria! —Norma Rouge

T U L M P S S T A B Y R M K R T R A Y S N G L A B D L
 E J H K G A L M P N G O E F P A Q U Z R I T S U V H W
 K I L P X N D E S E R T S K I B D R C J O B B Z P L A
 C M N V U D O S M R H E P R D L S R C S O M C H T A E
 H U I V A W G I E U Q O E Y U E G O L Y N R O U K I B
 I S O M T I S V H C R I T C O S N D D E A M O A L F X
 L G B H I C Z T V J T A D H K E L E M C E Y K N A M C
 I O W P L H Q G R E S T C O F V F W K M H I S X J L A
 C L G E B B E V F I N A N T C F Q E A Y X W B P U O S
 D B Q C Y A D A E N F D C L U R R D H I A J D O B H H
 E L S M U R C B C I N D I U O S E P K T W Z E O R K R
 T Q R Z R S S A O T I U S N L O H L I N T E E V E J E
 L W I X W M Y L L C B R V C G U I Z H A F B T C T D G
 G D A E F A R G A T D H U H I M S D J F V J H K T K I
 O L H A U T Q E I L O W A B M A A N O J O K B S U P S
 M I C R O W A V E W Q M C B R E S C N M U L I A B G T
 A A T V O V L W X Y E G Z R K R I E H N O F J R X L E
 O B J C D U Y O E N L G E E G C O H T I E R I S O N R
 R M N K X O W P T L W X Q A R E A U L S N T A U V E G
 Z B L C F A R S I Y A E F D V C V T P L G E F L Q H I
 S A L A D B A R T P I X H R L I B Q H J H G O P U K G
 G E L L O M G P T C Q R P C R C O N D I M E N T S C N
 W S A T B E T W M U S N U S O D A E G K W N E V W A I
 C P E F R U I T B O W L O F E S D Y S D N A E L F M P

Cafeteria
 Hot Lunch
 Soup
 Microwave
 Sandwich Bar
 Ice Cream
 Soda
 Vending Machine
 Chairs
 Fruit Bowl
 Coffee
 Butter
 Cooks
 Salad Bar
 Chili
 Trays
 Grill
 Deserts
 Milk
 Tables
 Cash Register
 Condiments
 Bread
 Crackers

Rec Council Ad-Ventures



Get ready—here it comes! The Annual Fairchild Company Picnic has been scheduled to take place on Saturday, September 17 at Hidden Valley Ranch at Mission San Jose. Stay tuned, more details will follow as the date draws nearer.

Great America gives you THE EDGE with a FREE lunch!

This summer the fun and excitement continues at Great America with an additional offer on all Good Any Day Tickets purchased June 18 through July 17, 1983.

Each Good Any Day admission ticket presented upon entry with one "Free Lunch" coupon at any Great America turnstile will receive a special food certificate redeemable at selected Great America restaurants. Lunch includes a hamburger, soda, and chips — FREE!

Should you have any questions regarding this program, please don't hesitate to contact your Rec. Council office.

Linda Brewer

I have a Question, but don't know who to go to for the answer.



Well then, let **DATA BITS** do the asking for you by submitting your question(s) of general interest to our staff. We will then do our best to get your company related question(s) answered for you.

If sufficient interest exists in any one subject, it will be responded to in Data Bits at the earliest opportunity or will be addressed at the next employee meeting. If you prefer a confidential answer, either by memo or phone call, please sign your name below.

Name _____ X _____ M/S _____

Address all correspondence to DATA BITS at M/S 32-537.

Annual Picnic Gathers at Hidden Valley



Once again the weather was just perfect (!) for our Annual Company Picnic, held at Hidden Valley Ranch. Temps° were in the mid 80's with plenty of sunshine.

There were all sorts of on going activities. Face painting was especially popular where young and old alike could be adorned with anything from Strawberry Shortcake to AC/DC. This year, you could easily spot those who served dunk-tank duty by the new T-shirts they were wearing emblazoned with "Dunk-Tank Team Fairchild 1983". You saw some hot competition on the volleyball court; on the softball diamond the dust and spirits were flying. There were also some fun Bingo games. Later, you could sit back and relax with a glass of wine, soda or beer after a meal of steak, salad, beans and garlic bread. (Yumm) Then, cool down in the swimming pool or play horse shoes or just socialize with friends. Toward the end of the day, those present were given a chance at the door prizes. Congratulations Winners! Afterward, the egg-tossing contest was a cracking, splattering success! All in all, it was a very pleasant way to spend the day!

Mariann Solari



MORE INSIDE ➡



Mike Hampson

Division Update— *Digital Test Systems*

August was a record order month for Digital with orders booked well in excess of \$10M. The rate of input of orders means that September could even exceed August! The pace of activity with our customers is bringing a smile to the faces of the sales force who are working as hard as they were in the bad times but currently with a much higher success rate.

From now on, the challenge is to raise production to satisfy the demand. We have taken a very cautious view of the recovery

until now, on the basis that it would be unwise to repeat last year's false start. However, now that the orders are coming in at an increased rate, the task remains—to satisfy the real demand. This is the type of challenge which is best, because the end results are positive.

The caution we have shown to date must now be replaced by a professional and energetic response to prevent our delivery times from becoming excessive or unattractive to customers. There will be pressure on Operations to produce more over the next few months at a level higher than we have seen for several years. There will be pressure on R & D to solve manu-

(Continued)

What some people won't do for a free T-shirt.



This is more fun than video games!



Mmm—garlic bread!



Chow Line



—can't keep a good man down.

Say "Cheese!"



"Wow, what a volley!"



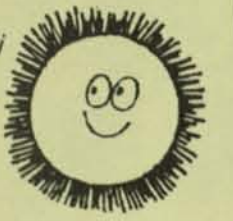
"After you're done, would you paint my kitchen?"



Graffiti

Graffiti

Graffiti



Hold still now—this may tickle!

It's a Winner!



"Cheese"



Ballon Bounce Finals!

Division Update— Analog Test Systems

Many of my Data Bits articles have focused on significant competitive victories in the analog marketplace. I highlight these situations because they are a good indication of our progress at becoming #1 in Analog ATE. This past month was very satisfying in that respect with two major events to report.

The first of these "olympic contests" took place in Austin, Texas at the CMOS Division of Motorola. The application is the testing of Codec/Filter Combo Telecommunications devices. Two systems from one of our major competitors—LTX—were in place testing these devices when we made claims to the customer that we could test the devices faster, with more accurate test results and that we could perform an additional type of testing—noise based testing—which at that time LTX was not able to achieve with their systems—all of this with a Series 80 configuration which is significantly less expensive than the LTX systems being used for the same application. We were confident enough of our claims that we agreed to put a system in place at the customer site for the competitive "run-off" with the condition that we would not receive payment until we had completely demonstrated these claims. The contest lasted several months, but the outcome was a clear cut victory for ATS. Last month, the customer not only agreed to pay for the Series 80 system but also ordered our new General Purpose Digital Option for subsequent delivery. I always hesitate to single out one individual for credit because these victories are the results of good teamwork among many people, but I know that all those involved in this team effort will join me in giving the Most Valuable Player Award to Field Analyst, Chet Pribonic. Congratulations Chet! And thank you for a job very well done.

'DTS Update' continued—

facturing problems and to prevent delivery delays; throughout all other departments there will be pressure to satisfy the rising demand. All of these are measures we must take to assure that our competition does not begin to win potential orders.

For the next quarter, we will see how long the boom remains. If it continues into 1984, we should see our business restart its historic growth pattern, assuring a secure future for all.

With this increased optimism, it is interesting to note how well we are performing against our competition. The answer is—better than ever! Our current products are what customers want and we have to

The second event is a contest for which the battle lines are just now being drawn. The place—a major division of Texas Instruments. The competition—LTX. The Fairchild Field Applications Analyst—Chet Pribonic. This contest is not yet over—it's about the end of the first quarter of



Fred C. Laccabue

play and we're at least a couple of touch-downs ahead. I'll give a more detailed accounting and report the final score in a future issue of Data Bits.

Motorola and Texas Instruments are two of the three leading suppliers of linear semiconductor devices in the world. Together they currently share more than 20% of the worldwide market for linear devices. Thus, Series 80 penetration in these accounts is strategically very important to ATS.

As you are aware by now, Bob Valentine has recently been promoted to a new position reporting to ATE General Manager, Jimmy Lee. Congratulations to Bob for this very well deserved promotion and many, many thanks for the countless and invaluable contributions that Bob has made to Analog Test Systems.

Fred C. Laccabue, ATS General Manager

deliver. The amount of orders we are losing is minimal; the competition, whether Domestic or Japanese, is having a difficult time selling LSI and VLSI testers. This makes them even more desperate to close orders and we must not give them the slightest aid. My only concern is that they will gain the advantage if we allow our delivery times to go out too far.

During the last boom period, the Japanese increased their share of the semiconductor market by being able to respond to delivery better than domestic semiconductor suppliers. This must not happen within the Automatic Test Equipment industry.

Mike Hampson, DTS General Manager

Unsung Heroes

—Fairchild First Aiders



Fairchild First Aiders are your co-workers who have volunteered to become members of our emergency response team. First Aiders provide assistance in medical emergencies when the nurse is absent from the facility. They have C.P.R. training in addition to their first aid courses.

First Aiders can be identified by a pin (red with a white cross) worn on their badge or smock. Current lists of First Aiders are posted on the medical department door, the first aid cabinets (in which supplies are stored), Security stations, lobbies and many department bulletin boards.

When the First Aiders are called upon to assist a sick or injured person there are established procedures that *must* be followed. They must document every case they attend to—this is a legal requirement. Depending on the severity of the emergency, First Aiders may respond as a team or individually. They have been trained to recognize when the person's condition requires more than first aid treatment. If necessary, First Aiders will request Security personnel to summon the appropriate emergency vehicle. (Security personnel are not Fairchild First Aiders; however, they have written directives to follow for emergency situations.)

Security will also assist the First Aiders by notifying the nurse of the emergency in progress. Supervisory personnel can best assist our First Aiders to function efficiently by remaining calm and helping to clear the scene of bystanders. The First Aiders have been instructed that they are in charge of the emergency situation, until relieved by medical personnel. It should be noted that *only* the Fairchild medical personnel and our First Aiders are legally covered by Fairchild for the rendering of first aid.

We hope this information will help you understand the responsibility and duties of our First Aiders. They are truly unsung heroes who deserve our respect and support.

Pat Alvarado, RN, Health/Safety Coordinator



Time Reminder

It's that time of year again! Pumpkins, Thanksgiving, Christmas and time to turn back the clocks!

Our beautiful daylight savings time has gone into hibernation for another year, it will be official on October 29th. Don't forget to turn your clocks back, and awake with a smile!

Mariann Solari



October's Photo of the Month is 'Reflections of Old' by Rob Hogan, Sustaining Engineering.

No Need To Worry

"Everything's under control, there's no need to worry," said Carl, our friendly Security guard. "Some of the problems have already been corrected and other concerns are constantly being discussed until they are solved."

The Problem ...

On August 30, 1983, at 4:00 pm, there was a malfunction of the newly installed fire alarm system. The system had been shut down for repairs and then a few hours later it inadvertently activated sounding like a fire drill. This malfunction caused some confusion and brought some problems to

our attention. The most important problem was that the announcement was undistinguishable due to static. In a real disaster, we must be able to fully understand all directions that may be given over the loud speakers. Another example of a hazardous condition is the absence of alarms and speakers in the Software Engineering Library and the restrooms. On that particular day, a meeting was being held in the Software Engineering Library and no one was alerted to the potential problem. Fortunately someone notified us, otherwise we would have never known the building was being evacuated. An effective emergency sound system has always been a problem in this work area, and for safety, this must be corrected.



Our English Language

The Beauty and the Beast

The following are Wilfred J. Funk's ten most beautiful words in the English language.

Chimes—A set of bells or of slabs of metal, stone, wood, etc., producing musical tones when struck

Dawn—To begin to grow light as the sun rises

Golden—Consisting of, relating to, or containing gold

Hush—Calm, quiet

Lullaby—A song to quiet children or lull them to sleep

Luminous—Emitting light; shining

Melody—A sweet or agreeable succession of arrangements of sounds

Mist—Water in the form of particles floating or falling in the atmosphere at or near the surface of the earth and approaching the form of rain

Murmuring—A soft or gentle utterance

Tranquil—Free from agitation; serene

And, listed here are the ten worst-sounding English words based on a poll taken in August 1946, by the National Association of Teachers of Speech.

Cacophony—Harsh or discordant sound

Crunch—To chew, grind, or press with a crushing noise

Flatulent—Affected with gas in the stomach or intestines

Gripe—To complain with sustained grumbling

Jazz—Popular dance music

Phlegmatic—Having a sluggish or stolid temperament

Plump—Somewhat fat

Plutocrat—One who exercises power by virtue of his wealth

Sap—The fluid part of a plant

Treachery—Violation of allegiance, confidence, or faith

'The Book of Lists' by David Wallechinsky

The Answer ...

There was a meeting held on September 14, 1983 to try and solve any known problems. Since the mishap described above, there has been continual testing, and the speakers are now working.

Any further comments or questions should be directed to Genaro Dominguez, m/s 36-346 and x2749.

Sue Curtzwiler

URGENT MESSAGE



Changing Health Plans

During the month of November, those covered under either the Fairchild Comprehensive Medical/Dental Plan or under the Kaiser Health Plan may elect to change their coverage from one plan to the other. After this period, you may not change coverage until the next open enrollment period in November 1984. For those who elect to change plans, coverage will be effective January 1, 1984.

Those who wish to add eligible dependents to the Comprehensive Medical/Dental Plan who were not enrolled under the Kaiser Health Plan must provide a Dependent Statement of Health and be approved by Equitable before coverage will become effective.

Those who change to the Kaiser Health Plan may add eligible dependents not enrolled in the Comprehensive Medical/Dental Plan.

November has also been designated as the time when you who presently have Kaiser coverage may add eligible dependents who were not enrolled at the time you signed up for Kaiser coverage. This coverage will become effective January 1, 1984. This is the only time until the next open enrollment period in November 1984 that you may add eligible dependents other than new dependents due to marriage, birth of a child, or adoption.

Watch for more details regarding open enrollment and the exact dates.

Angie Carey

Anniversaries

15 Years

Shaaron Hauer

5 Years

John Ediger
Chris Agbayani
Sue Tuumalo
Don Wolski
Amy Atkins
Scott Hooper
Stan Hightree
Glenna Reed
Mario Carrillo
Charles Tice

3 Years

Rita Lopez
Michael Slavich
Brian Vestyck
Jerome Carmon

Transfers

August

Marilyn Noddin
Lou Abuan

September

Brad Loggans
Michael Cable

From Singapore:

Wee Ho Ee
Panjacharam
Raveentheran
Ye Hock Ong
Mun Wai Leong



Safety Tip

Chance Takers Are Accident Makers

Andy Ferreira, Safety Committee Member

New Hires

June

Jimmie Mosley

July

Thomas Ho
Donald Hellman
German Falcon
Lyle Frohman
Michael Gaczewski
Michael Masajlo
Mark Wadlington
David Birnbaum

August

Daniel Altman
Timothy Surgeon
Nancy Cross
Moheen Hanna
George Allen
Mark McGill
Betty Hughes
Kenneth Chromik
Chris Parento
Keven O'Mara
Steven Riley
Carolyn Rose
James Y.P. Kwan

September

Chang Kim
Robert Hufford
Roderick Armstrong
Jahan Lotti
Betty Rutkowski
Don Winterstein
Antonio Rivera
James Blackman
Stephen Dorfman
Lorraine Mishler



"Slim Down for the Holidays"

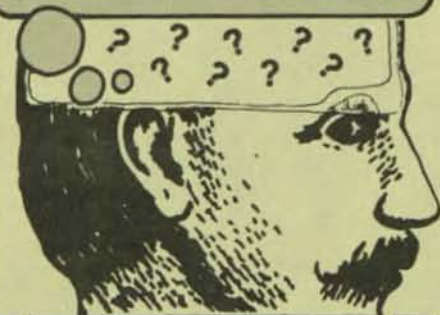
Exercise class—All new program
Starts October 4, 1983
Meets every Tuesday and Thursday
(5:15 pm-6:15 pm)
Old Cafeteria—Building 36.
Wear comfortable workout clothes, shoes (preferably those shoes designed for aerobic dancing) and bring a mat.

Contact Pat Alvarado at x2101 for further information.

1984 Holiday Schedule

Date	Day	Holiday
Jan. 2	Mon	New Year's Day Observed
Feb. 20	Mon	President's Day
April 20	Fri	Good Friday
May 28	Mon	Memorial Day Observed
July 4	Wed	Independence Day
Sept. 3	Mon	Labor Day
Nov. 22	Thur	Thanksgiving Holiday
Nov. 23	Fri	Thanksgiving Holiday
Dec. 24	Mon	Christmas Holiday
Dec. 25	Tue	Christmas Holiday

I have Questions, but don't know who to go to for the answers.



Well then, let **DATA BITS** do the asking for you by submitting your question(s) of general interest to our staff. We will then do our best to get your company related question(s) answered for you.

If sufficient interest exists in any one subject, it will be responded to in Data Bits at the earliest opportunity or will be addressed at the next employee meeting. If you prefer a confidential answer, either by memo or phone call, please sign your name below.

Name _____ X _____ M/S _____

Address all correspondence to DATA BITS at M/S 32-245.