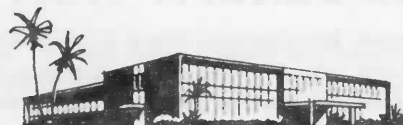


# PULSE



FAIRCHILD WESTON

Schlumberger

FAIRCHILD WESTON SYSTEMS, INC.  
DATA SYSTEMS DIVISION  
P.O. BOX 3041  
SARASOTA, FLORIDA 33578

NEWS ABOUT DATA SYSTEMS DIVISION

VOL. V, NO. 3

MARCH, 1983

## GETTING ACQUAINTED



*Sarasota Mayor Rita Roehr visited the Fairchild Weston facility on March 2. After a plant tour, the Mayor met with General Manager Joe Keller for informal discussions about local matters of mutual interest, such as traffic conditions on Fruitville Road.*

## 19% GROWTH RATE

A 19% earnings rate on our Schlumberger Contributory Investment Growth Plan was announced on March 15. Employees who have been with the Company for more than a year are automatically eligible for the Growth Plan. The Company makes an annual contribution of 1% of your annual salary to your Growth Plan account.

In addition, employees who wish to do so may contribute up to 6% of their annual salary, and the Company provides a matching contribution -- a minimum of 25¢ matching contribution annually for each \$1 you contribute. The 1982 matching contribution was 45¢.

The 19% growth rate was credited to your 1/1/82 balance. Our individual statement of benefits will be distributed shortly.

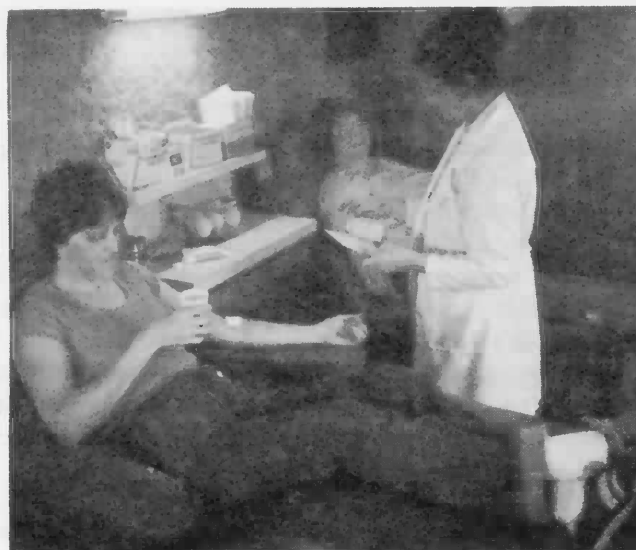
## NEW UNITS ORDERED ★★★

An initial order has been received for two units in our new 8000 Series PCM telemetry equipment. Jim Clements, of our Huntsville Sales Office, has booked the order for a Model 8320 PCM Bit Synchronizer and a Model 8330 PCM Decommutator. The customer is NASA Marshall Space Flight Center in Huntsville, Ala.

## BLOOD DONORS HELP FELLOW EMPLOYEES

When the Lower West Coast Blood Bank Bloodmobile called at Fairchild Weston on March 18, some 63 employees gave blood, thereby helping fellow employees, their families, and others.

The Data Systems Division Blood Bank Account is available to provide units of blood for employees and their families, as well as our retirees and their families. Credits from our Blood Bank Account can be transferred to the appropriate hospital whenever you or your family need blood. Simply phone Nurse Debbie Graham, Ext. 559, and the unit will be transferred. Your fellow employees make it possible!



*Donor Vivian Owen, sipping orange juice, and Donor Kathy Ling, with Bloodmobile Nurse.*

(Cont'd on Page 2)

## ▶▶▶▶ GOOD NEWS ◀◀◀◀

Our Data Recorders group is in the process of setting a new record for Data Recorder shipments out of the Sarasota plant. At press time, our March shipments were expected to top \$1.5 million, thanks to the hard work of a lot of people who worked on the equipment. Two major Data Recorders systems contributed to the total. Congratulations to all who helped.

**An Equal Opportunity Employer M/F/H/V**

# ONE BENEFIT THAT CAN'T BE MEASURED

Employee benefits can come in all shapes and sizes -- vacations, group insurance, pension plan, LTD, dental, paid sick days, educational assistance, Growth Plan, and many more.

One of our benefits is an intangible benefit that cannot be measured. It is the health and medical services coordinated by our Occupational Health Nurse.

"There is no Government regulation which requires that our Company have an Occupational Health Nurse at this plant," said Linda McKinney, Personnel Director. "Our Company feels that this medical and health benefit for employees is an important one that cannot be measured in dollars and cents."

There have been some very significant times when employees were aided by prompt medical attention, or immediate referral to a physician, thanks to our Occupational Health Nurse. Employees have reported that this service helped them to avoid very serious medical consequences.

When should you consult the Nurse? "It's up to each employee to recognize how he or she feels, and make the effort to seek help by calling the Nurse," the Personnel Director said. "Once the employee takes that step, our Medical Department can assist in many ways."

Here's a list of the variety of services available to all employees through our Medical Department:

- High blood pressure screening and monitoring
- Blood bank for employees and their families
- Health Department Screening -- free testing for diabetes, tuberculosis, glaucoma, anemia, blood pressure.
- Cancer awareness campaign, including information on self breast examination, colo-rectal cancer testing, free hemocult testing.
- Information about community resources for individual and family problems; counseling or referral to appropriate health and social agencies.
- Freedom From Smoking Seminar
- CPR classes
- Informational literature on medications and health-related topics.
- Follow-up with you and your family when there is serious illness or injury.
- Proper job placement, when employees return to work after surgery or illness.
- Coordination with your physician as required.
- Safety awareness to avoid painful injuries
- Coordinating Workers Compensation benefits
- Health protection -- including protective equipment on the job and elsewhere.
- Coordinating immunization and tetanus treatments
- Assistance with nutrition and diets for weight or health problems -- low salt, diabetes, low cholesterol, roughage
- First Aid treatment

Please keep the Dispensary number handy -- EXT. 559. Call for an appointment, if at all possible. In case of emergency, call EXT. 559, or page Debbie Graham.

AND STAY WELL!

## BLOOD DONORS HELP FELLOW EMPLOYEES

(Cont'd from Page 1)



*Donors Bobbie Houtsch and Joanie Odzic with Bloodmobile Nurse.*



*Larry Bickford and Calvin Gilbert were among our blood donors.*

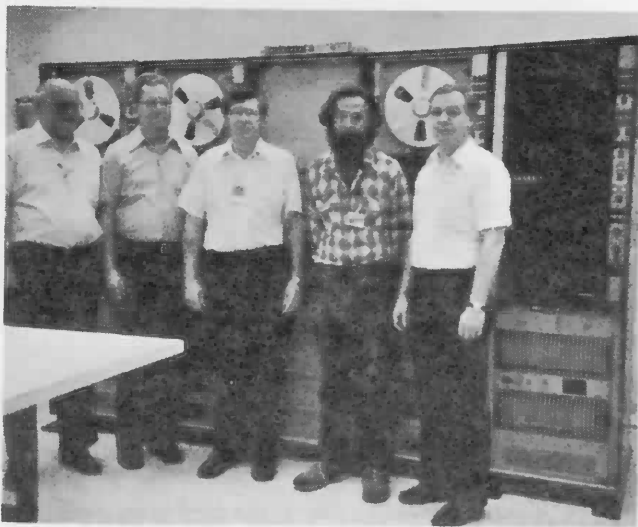
## DENTAL COVERAGE TIPS HELP KEEP IT SIMPLE

When utilizing your Dental Coverage benefit, a dental claim form must be filled out completely (#1 through #15) for the first claim each year, for each individual. Additional claim forms during the same calendar year need only the employee's Social Security number, the patient's name and employee's name, and the usual red stamp.

Your Social Security number is the key to your claim file in Aetna's computer.

## HARRIS SYSTEM UNDERGOES ACCEPTANCE TESTING HERE

A major Data Recorders system underwent factory acceptance testing with the customer's representative here this month, prior to shipment to Harris Corporation, Melbourne, Florida. The system is valued at over \$600,000.



*Pictured with a major Instrumentation Data Recorders system prior to shipment are: George Prozzo, Bill Zoerner, Customer Representative Phil Kiley (of Harris Government Electronic Systems Division), Francis Wozniak, and Larry George, cognizant Field Service representative.*

In addition to four 28-track Model X Data Recorders, the system includes special hardware and our advanced EDSC (Error Detection and Correction System). The sophisticated EDSC system greatly reduces the error rate for our customers who use digital recording systems.

It is expected that "light off" acceptance tests at the customer's site will take place next month.

"I'd like to say thanks to the many people who assisted on this system," said George Prozzo, Program Manager.

## COUNTY HEALTH DEPARTMENT TO OFFER HEALTH SERVICE

All employees have been invited to sign up for a free Health Assessment service here at the Fairchild Weston plant during April and May. The service is provided by the Sarasota County Health Department, and was scheduled for our employees by Occupational Health Nurse Debbie Graham. There are no fees.

The Health Assessment service will be done in-house on April 26, 27, 28 and May 3, 4, 5, 12, 17 and 18. The tests are for diabetes, glaucoma, anemia, hypertension, and tuberculosis.

If you have signed up for the tests, you will receive advance notice of the day and time of your Health Assessment appointment. Please call Debbie Graham, Ext. 559, if you have questions about the service.

## NEW CNC LATHE ADDED TO OUR MACHINE SHOP

A new computer-controlled precision lathe, called a CNC Turning Center, has been installed in our Machine Shop. The Moog Computer Numerical Control machine provides improved capability to produce small precision parts to very close tolerances. It will significantly reduce machining time over existing conventional machining procedures.

The CNC will machine small parts, such as are needed for our Data Recorders, to a  $\pm .0001$  accuracy on diameters. (That's one-tenth of a thousandth.) The machine can be programmed and edited by a trained Machinist right in the Machine Shop. This is a time-saver over some previous methods for programming tape-controlled machines.

Machine Shop Supervisor Don Stover, Machinist Paul Shelter, and Bud Steinhoff, Manager of Fab Engineering and Machine Repair, attended a special training course at the Moog facility in Buffalo, N.Y. Other Machinists will be cross-trained to program and operate the new machine in the near future.

Bud Steinhoff, Don Stover and Bill Wheeler, of Machine Repair, participated in the evaluation and selection process for the new machine.



*Bud Steinhoff, Don Stover and Paul Shetler with new CNC precision lathe.*

## SAE SUBCOMMITTEE MET HERE

Members of the Society of Automotive Engineers Subcommittee A-4, on General Aviation Flight Recorders, met at Fairchild Weston March 9 and 10. The Subcommittee is generating technical specifications for a new type flight recorder for general aviation (non-commercial aircraft), at the request of FAA.

The Subcommittee prepared Draft #8 for submittal to aircraft operators and the SAE for comments. Ultimately the Subcommittee's final recommendations will go to the FAA for consideration. The Subcommittee consists of representatives of industry, aircraft manufacturers, and regulatory agencies. Hans Napfel, of our Aviation Recorders group, is a member of the SAE Subcommittee.

## EMPLOYEES ENJOY "ANYTHING GOES" ZANY

Fourteen Data Systems Division employees enthusiastically joined the fun at the sixth annual "Anything Goes" competition, a part of the Sarasota King Neptune's Frolic. Participants at the March 19 event included: Brenda Cunnie, Patsy Fulcher, Tom Greinke, Dan Harriger, Peggy Huestis, Ron Johnson, Kathy Lowe, Dexter Nash, David Payne, Donna Roth, Linda Walker, Bill Whaley, Sherri Wilkinson, Debbie Woolard.

Our Data Byters team did well in the various zany events. Thanks to Jim Wayda for taking these photos.



## QUALITY CIRCLES STARTING TO R

Our Quality Circles program is growing and progressing into the second section of Circles development.

Two new Quality Circles have joined our Quality Circle program. The newest Circles represent the General Accounting area, and are called the "Penny Pinchers" and the "Hot Numbers." We currently have 11 active Quality Circles.

"Our first seven Quality Circles have started the second section of Circle development," said Facilitator Dexter Nash. "The first section involved acquiring skills in problem solving and Quality Circles techniques. Now, the second section is focusing directly on a department or group function, and will review the four M's -- Manpower, Methods, Materials and Machines."

During the second segment of Circles development, the Quality Circles will be identifying and installing new cost effective ideas, Dexter said. "Quality Circle members know



Our "Penny Pinchers" Quality Circle includes: seated, Alice Armstrong, Martha Eaton, Glen Trincia; standing, Facilitator Dexter Nash, Circle Leader Kevin Murphy, Cindy Mathews, and Nita Pineas.





## COMPETITION



## VIEW FOUR M'S

that traditional procedures and methods should be questioned. By questioning the problems of our past, we can learn solutions to pave the way for our future," he noted.

During April, General Manager Joe Keller is scheduled to present certificates to those Quality Circle members who have completed their Circle training and the first section of Circle development.



*This Quality Circle has selected the name "Hot Numbers." Seated, Cinda Whaley, Beth Jenkins, Karen Peterson, Ernestine Anderson; standing, Facilitator Dexter Nash, Mary Lou Carter, Vicki Smith, Pat Carney and Pat McNabb. Missing from this photo is Kathleen Clark. Circle Leader responsibilities are shared by Pat Carney, Beth Jenkins and Pat McNabb.*

## ON THE TUBE

Quality Circles Facilitator Dexter Nash has been videotaped for a local TV show which is scheduled to air on April 5, at 8 p.m., on Channel 4. He was invited to discuss Quality Circles on the Tim Kantor show.

## HAPPY SERVICE ANNIVERSARY

Among the employees observing major service milestones during March are two 25-year veteran employees and five 20-year employees. In addition, we have one 10-year anniversary and 13 employees who are completing five years of service this month. Congratulations to this big group!



Standing: Claude Smith, Joe Barnett and Stu Ulfers (completing 20 years of service this month) and George Phillips (25 years). Seated are Delta Wildermuth and Emma Green (20 years each) and Margaret Herbst (25 years).



Happy anniversary to: Preston Cox (10 years) and five-year service employees Dave Clark, Bill Kirby, Karen Lewis, Lorraine McFarlin, Barb Boucher, and Elizabeth Byrd.



Congratulations on completing five years of service to: (seated) Iris Owens, Rob Crawley, and Ann Just; (standing) Bob Lahmers, Francis Wozniak, and Jim Hornberger. Missing from this photo is Frank Knott.

# ARCHERY ENTHUSIASTS HUNT WITH BOW AND ARROW

Hey, Robin Hood, look what's happened to the longbow!

Modern archery enthusiasts, including some of our Fairchild Weston colleagues, can now select from recurve bows, compound bows, cross bows, Dyna-Bows, telescopic sights, and arrows made of aluminum, fiberglass, or graphite.

Mike Rhodes, of Systems and Programming, whose interest in archery goes back ten years, recently returned to the sport of hunting with bow and arrow. He used to hunt for wild boar and deer in North Florida with a recurve bow. Now he has a compound bow, made of metal and laminated wood.

In November he joined Dan Harriger and Mike Lockwood on a hunting weekend at a game management preserve and camping grounds near Inverness. All three commented that while they did not bring back any game, the chance to get away and enjoy the quiet of the out-of-doors was well worth the trip.



*Mike Rhodes and Dan Harriger display their compound bows. In foreground is a recurve bow.*

In order to hunt, archers need a hunting license, and also pay a fee for an archery permit, plus a management permit to use the preserve.

Mike Lockwood, of Procurement, is another hunter. He is a past Vice President of the Sarasota County Archers. The local club offers a target shooting range and a course which simulates actual hunting conditions for archers.

Dan Harriger, of Personnel, was one of the many members of the Sarasota archery group who volunteered to demonstrate their archery skills at the recent Medieval Fair at the Ringling Museum of Art. He owns two compound bows for his own use and also has a recurve bow, and compound bow of lesser strength to teach others the sport of archery.

"I've only been into archery since 1980," Dan said. "I used to hunt deer in Pennsylvania, but haven't had much success in Florida so far."

Another hunter with bow and arrow is Roy Hollifield, of Personnel. He used a compound bow to hunt deer and wild boar in Georgia.

The type of equipment you select depends on your strength, and whether you engage in target archery or want to hunt. The amount of "pull" on the string can be anywhere from 20 pounds to 100 pounds, but compound bows, with a pulley arrangement, can give you 50 pounds of pull with only 25 pounds of exertion.

Equipment costs can range from under \$100 to as high as you want to go. But the enjoyment of hunting with bow and arrow is the return to the peace and quiet of the natural surroundings of the forest.

Yes, just like Robin Hood!

## EDUCATION, ANYONE?

A wide variety of self-help courses are available to all Data Systems Division employees via ASI video tapes. The courses can be scheduled individually, or in small groups, and are entirely voluntary. The Company pays for the courses, and employees view the tapes on their own time after regular working hours. Scheduling is important because of the limited number of video tape players available at this time.

Some of the courses which employees are currently taking are: Basic Electricity, Speed Reading, Effective Interviewing, Programmer languages, such as BASIC and APPLE BASIC, and Digital Signal Processing. If you are interested, please ask your Supervisor to obtain additional information through Personnel.

## OUR DATA RECORDERS TO BE REPRESENTED AT THIC MEET

Equipment and personnel from Data Systems Division will be on hand for the Tape Head Interface Committee (THIC) meeting scheduled for March 28-30 in Laurel, Md. On display will be our Model 9 (SABRE 9) Data Recorder and EDCS (Error Detection and Correction System). In addition, private demonstrations of the equipments will be made for key customers in the area.

Attendees include Peter Simmons, who will be giving demonstrations; Bill Kessler, a member of the THIC Steering Committee, and Tom Bray, who will present a paper. Area Field Sales and Service representatives are also expected to take an active part.

Tom Bray's paper, "Control Systems for Modern Day Tape Recorders," deals with the Model 9 microprocessor control system and the "user friendly" techniques used.

# A VISIT TO OUR HUNTSVILLE OFFICE

Our Huntsville, Ala., office services customers in the five state area of Alabama, Georgia, Tennessee, Mississippi and Florida. The Huntsville group consists of Jim Clements, Sales; Frank Wakefield, Service; and Dana Brown, Secretary.

Huntsville's location provides easy access to Redstone Arsenal. Other major areas serviced are Eglin Air Force

Base, Fort Rucker, Georgia, Naval Coastal Systems Center in Panama City, Kennedy Space Center and Martin Marietta Corp.

The Alabama group cordially invites those passing through Huntsville to see the Alabama Space and Rocket Center and to stop by for a cup of coffee.



JIM CLEMENTS



FRANK WAKEFIELD



DANA BROWN

## NEW TUMBLER MACHINE

A new tumbler machine has been added to our Sheet Metal Fabrication area to help in deburring small metal parts. "Deburring" is a process whereby rough edges are smoothed on the various metal parts produced for our equipment.

Hand deburring is sometimes required. Frequently, however, the many small metal parts can be tumbled in a "barrel" along with various media (stones) and water. This enables us to deburr many small parts at a time, thereby saving time and effort.

The "media" used for tumbling the parts can be natural stones, aluminum oxide stones, or burnishing balls. The usual ratio of metal parts to stones is three parts of stones to one part of work parts.



Tom Toler, of Fabrication Engineering, and David Kolchakian, of our Sheet Metal Shop, with new tumbler machine for deburring metal parts.

## ★ STILL GOING STRONG ★

Sarasota employees of Fairchild Weston's Data System Division have achieved over 780,000 hours without a lost-time accident as we go to press. Your safety awareness and safe practices are helping us avoid painful injuries. Congratulations, and keep up the good work!



## CONGRATULATIONS!

AL MARION (Fab Engineering) and wife Susan welcomed their new son, Christopher Evan, on February 21. Young Christopher weighed 8 lb. 15 oz.

JOHN WOOD (Telemetry Publications) and his wife Lorraine are the proud parents of a baby girl named Vanessa Claire. She arrived on February 25, and weighed 6 lb. 3 oz.

BOB ROBBINS (Telemetry Software) and his wife Sue announce the birth of their son Avi. He was born on March 22, and weighed 6 lb. 8 oz.

SCOTT BLAIR (Field Service) and his wife Jackie welcomed Daniel Scott on March 22. Their baby weighed 8 lbs. at birth.

DALE DENNIS, of MIS Systems & Programming, spoke before a group of 170 individuals on "The Impact of Desktop Computers on Business Managers," on March 3. His talk was one of a series sponsored by the Sarasota Institute of Lifetime Learning.

HAN NAPFEL, of Aviation Recorders Engineering, addressed a large group at a Sahib Temple luncheon meeting on March 24. He spoke on "Progress in Computer Technology with Emphasis on Personal Computers." There were over 350 in attendance.

## VALUE ENGINEERING -- TRYING TO MAKE IT BETTER

Value Engineering is a term which we will be hearing more and more at Data Systems Division. The process involves a disciplined approach to making a unit more readily "producible" in manufacturing, and at the same time aiming at cost reduction, and improving quality.

"Our Value Engineering team has already started to work on a few portions of a specific unit, and early results are excellent, with real savings being realized," said Frank Bloechl, Manager of Manufacturing Engineering.

The present Value Engineering team is made up of representatives of Data Recorder Engineering, Purchasing, Production Control, and other areas of Production Engineering and Manufacturing Engineering.

The Value Engineering process is not to reduce cost at any cost. It is a method of examining a unit in its present configuration and, though a disciplined approach, attempt to reduce the number or cost of component parts, and make the unit easier to manufacture, while at the same time improving the quality and reliability of the product.

How do you start the Value Engineering process? First, you list all of the components in an assembly or subassembly. The items are listed in order of highest cost first. Then specific questions are asked about the item. For example, why is it necessary? Can a less expensive suitable part be used? Can it be redesigned? Does it improve the quality and reliability? And so on.

The first model to receive the Value Engineering treatment is the Model 10 (SABRE 10) Data Recorder. The front panel, distribution panel, and cabinet have been V.E.'d. The results indicate a real savings of approximately 10% in hours and material.

Part of the success of the program is that the team, with excellent cooperation from many departments, actually builds a prototype of the unit with all the changes incorporated.

The unit must be checked to assure that it is electrically and mechanically equivalent to the original unit. Then, drawings, Bills of Materials, and ECO's are written, and the job is complete.

Sound simple? It isn't. But it becomes a challenge -- and almost a game to see how much costs can be reduced, while improving the quality and performance of the unit.

The first unit V.E.'d was the Sabre 10 Distribution Panel. The results were: 55 components removed, the unit re-wired, and the chassis redesigned. This resulted in a 20% savings in Manufacturing cost and improved the unit's producibility.

After the Value Engineering team completes its work with the Model 10 Data Recorder, it will move on to another product to play Pac Man with costs.



*Our Value Engineering team pictured in process of studying the Reproduce drawer of a data recorder. Standing are: Frank Bloechl, Tom Toler, Frank McGowan, Charlie Flatley, Don Parker, Bob Wallace, Dick Dungan. Seated, Hank Zarnoski, Eldon Andrews, George Keegan.*

## UNITED WAY SAYS "THANKS"

Fairchild Weston's Data Systems Division employees received recognition from the United Way this month for being among the top five contributors in the business and industry section of the community drive. We received a plaque for our "continued outstanding effort to United Way of Sarasota 1982-83 campaign."

Employees at Data Systems Division increased their per capita average contributions during our United Way campaign this year to help others in our community. Tom Thomas and Dan Harriger were awarded certificates of appreciation for their efforts in the campaign.

## TECHNICAL TRAINING

An in-house series of technical courses is being conducted to address topics which are not covered by local schools. The after-hours courses, offered primarily to engineers and technicians, vary in duration and scope according to the need. Instructors for the courses are drawn from our own technical staff.

Currently Bill Waggener is teaching a short course on Error Detecting and Correcting Codes, with emphasis on the types of codes which we will use in our advanced products.

A series of videotapes on Digital Signal Processing from MIT is also being shown to provide a broader exposure of this new technology to our technical staff.

In the future additional courses on Programming in ADA, PDP-11 Programming and other topics will be given as the schedules of the instructors permit.