

**FAIRCHILD WESTON  
SYSTEMS INC.**

FAIRCHILD WESTON  
Schlumberger

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

VOL. VIII, NO. 11

NOVEMBER, 1986

## INITIAL UNITS SHIPPED ON GRUMMAN ORDER

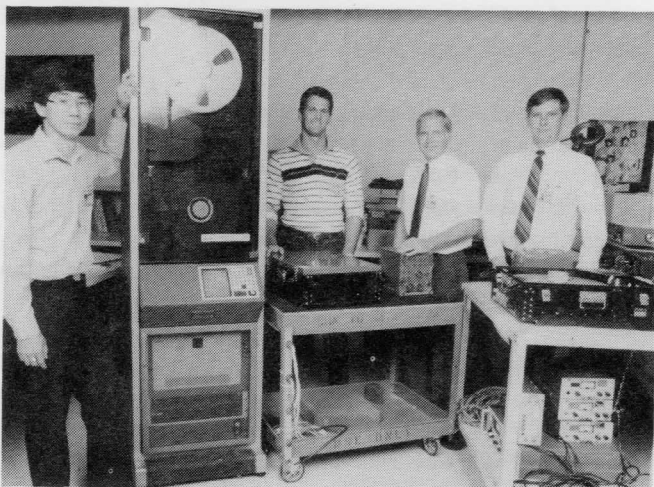
The initial shipment on a significant Instrumentation Recorders order took place on October 22 when a Model 20 Ground Station and two Model 15 Airborne Systems were sent to the customer, Grumman Aerospace Corp., Bethpage, N.Y.

Overall, the contract is valued at more than \$1.4 million, and includes Instrumentation Recorders to be used on flight test programs for the Navy's F-14, A-6 and EA6-B aircraft.

The order involves one Model 20 Ground Station, 12 Model 15 Portable Recorders, and Airborne and Ground EPC (Error Prediction and Correction) equipments. The Model 20 and Model 15 Recorders are equipped with double-density heads that allow twice the recording time, and the EPC equipment allows for recording high-speed data in a parallel format. New double-density heads are being supplied by Spin Physics and Omutec.

System specifications, integration, and test were done at Data Systems Division in Sarasota. The Model 15 Recorder and Error Prediction and Correction equipments are devel-

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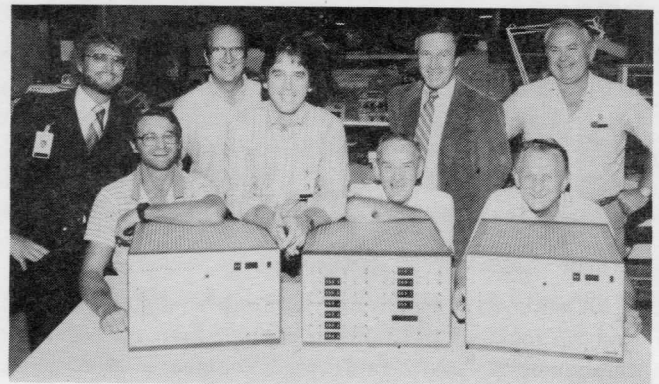
*Roy Kitaoka, Keith Smith, Ellis Speicher and Tom Pittet with Model 20 Ground Station and two Model 15 Portable Recorders which were shipped to Grumman in October.*

## FIRST MUX-DEMUX UNITS SHIPPED TO CUSTOMER

The first FWSI 8200 Asynchronous Multiplexer/Demultiplexer System was shipped to Point Mugu Test Center (PMTc) in Oxnard, Calif., this month. The PMTC contract, valued at approximately \$1,000,000, calls for delivery of 16 sets of equipment, extending through June, 1987.

This 8200 Multiplexer/Demultiplexer equipment will operate at four link rates and is designed to provide a high-speed, high performance method of moving multiple

(Cont'd on Page 2)



*Members of the MUX-DEMUX Team: In foreground, Greg Lambert, Greg Sutton, George Norton and Eric Hogberg. Back row: Jim Fillion, Mike Witchey, Dick Vorce and Ty Rigdon. The boxes are: Model 8220 Asynchronous Demultiplexer; the Test Station; and Model 8210 Asynchronous Multiplexer.*

## TECHNOLOGY SEMINAR TO BE HELD DEC. 10

A Technology Seminar for Data Systems Division Engineers is scheduled to be held on December 10. Thirteen presentations will offer high-level technical overviews of a range of topics of interest to technical professionals in our Division.

The technical forum is designed to promote exchange of technical information to reinforce our current technology and influence future technological directions our business will be taking.

Senior Staff Engineer Joe Lehmann is coordinating the Technology Seminar.

**AN EQUAL OPPORTUNITY EMPLOYER M/F/H/V**

## FIRST MUX-DEMUX UNITS SHIPPED TO CUSTOMER

(Cont'd from Page 1)

asynchronous serial streams of data over a distance, using microwave, fiber optics or satellite communication links.

The units can combine up to 12 independent input data streams into a single multiplexed data stream that can be transmitted via radio or a single cable to remote locations where it is separated into the original input data streams. The system automatically sets itself up and adapts to changing input data streams. According to our Design Team, the multiplexing algorithm is unique to this product and enables an eight-fold increase in speed (up to 12.928 Mbits) over the nearest competitive design.

As a new standard product, the 8200 already has a backlog of orders of over 30 sets of equipment. Some of the customers include PMTC, Patuxent River, Kentron and Grumman.

Members of the 8200-Series Development Team were Jim Fillion, Eric Hogberg, Greg Lambert, George Norton, Ty Rigdon, Shoba Shetty, Greg Sutton, and Project Engineer Mike Witchey.

Program Manager Jerry Belveal said that special thanks should also be extended to the many support activities which allowed the special attention required to complete these products -- all of the Manufacturing effort, CADDs, Drafting, Configuration Control, Test Engineering, Manufacturing Test, Production Control, Assembly and Applications Engineering.

"This has been a very rewarding and challenging experience, and we received outstanding support from many people throughout the plant," said Project Engineer Mike Witchey.

## INITIAL UNITS SHIPPED ON GRUMMAN ORDER

(Cont'd from Page 1)

opments of Enertec, our sister company in France. The Model 20 is a co-planar version of our Model 9 Recorder and is a joint FWSI and Enertec research and engineering project.

The Technical Team includes Project Leader Ellis Speicher, Engineer Roy Kitaoka, and Technician Keith Smith. Tom Pittet and Jon Brown shared Program Management responsibilities. Chantel Brechon is Enertec Program Manager.

"The Technical Team worked many long hours to meet this delivery schedule," said Jon Brown. "This program has resulted in several additional orders for both the Model 15 and Model 20 Recorders."

Major contributors in developing this order were Dave Clark, Steve Hoff, John Kerwin and Sales Rep Tony Raia.

Further shipments on this Grumman order are scheduled through January, 1987.

## EMPLOYEE ASSISTANCE PROGRAM TO OFFER MONDAY NIGHT HOURS & YOUR CHOICE OF COUNSELORS

EAP Sarasota -- our Employee Assistance Program counseling service -- is announcing extended office hours on Monday evenings for the convenience of Data Systems Division employees and their families. This new convenience is expected to benefit employees who need to make special arrangements to attend counseling appointments.

Another new feature will be rotation of Counselors during our in-plant Tuesday morning counseling sessions. Ken Kinzie and Holly Burcenski will be alternating, for those employees who wish to make Tuesday morning appointments.

"Holly will be on duty Monday evenings until 8 p.m., on a regular basis at our offices at 1838 Waldemere Street," said Ken Kinzie, Director of EAP Sarasota. Appointments are required.

You may make an appointment by phoning 953-1240 daily, and on Tuesday mornings, during our in-plant counseling hours (8 a.m. to 1 p.m.), by calling Ext. 5518.

"Our 24-hour answering service is still available for counseling emergencies, and we will always make appointments to suit the convenience of the clients," Ken Kinzie explained. "However, we felt that employees and their families would benefit from the regular Monday evening extended hours."

It was also decided to alternate Counselors -- male and female -- on Tuesday mornings, for those employees who may be more comfortable talking to a male Counselor or a female Counselor.

"This is an individual preference, and we want clients to be as comfortable as possible when discussing their problems," Ken said.

Our Employee Assistance Program is available to help employees and their families with personal problems on a strictly confidential basis. The EAP can help by discussing ways to handle stressful situations -- depression, alcohol, drug, financial, marital and legal problems, to name a few. Counseling and referrals to other experts are offered on an individual confidential basis.

"We are pleased with the response to the program. Since it began two months ago, 27 employees and six family members have participated in the Employee Assistance Program," said Ken Kinzie. "This response shows that Fairchild employees see this as a beneficial program."

The Employee Assistance Program is available to help employees and their families with complete confidentiality. Employees are encouraged to take advantage of this employee benefit which the company is offering.

# SWS TRUCK PAYS A VISIT TO DATA SYSTEMS DIVISION

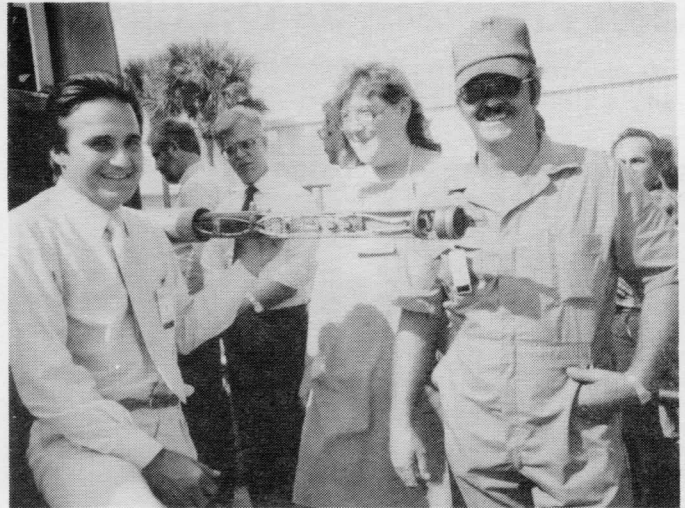
A Schlumberger Well Services logging truck and crew visited Fairchild Weston's Data Systems Division on November 7. Many employees enjoyed the opportunity for a first-hand look at the truck and equipment which SWS crews take to oil fields to log measurements about the depths and physical properties of various formations "downhole."

Many Cyber Service Units and other related SWS equipments, such as the equipment mounted in this SWS truck, were produced by our Division in Sarasota between 1973 and 1984.

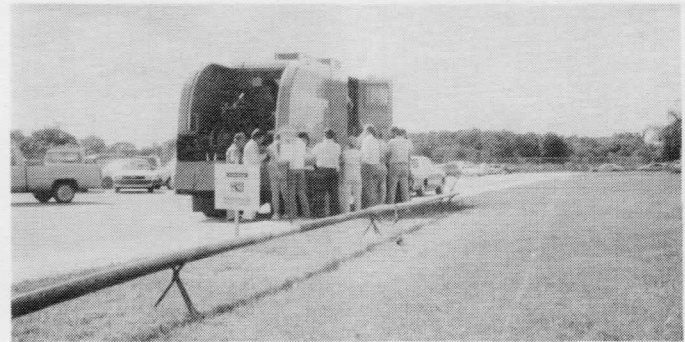
Accompanying the SWS truck were Rudy Buchel, SWS Engineer-in-charge, and Darryl Eldon, Senior Operator. This truck and crew are based in Ft. Myers and service oilfield clients in the South Florida area.

One purpose of the visit was for Data Systems Division technical personnel to exchange information with the SWS crew and learn more about oilfield logging problems, in connection with a proposed joint study project for downhole telemetry.

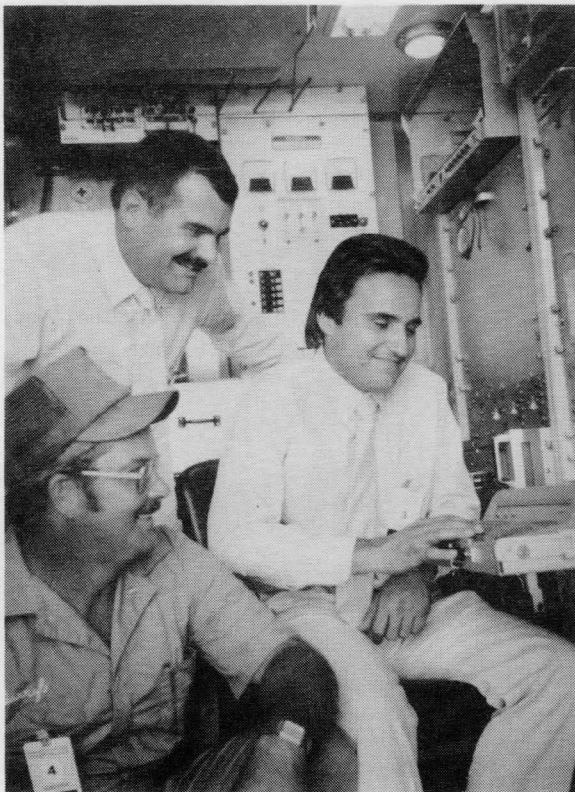
John Jester, formerly with Vector Schlumberger in Sugarland, Texas, helped to coordinate this visit. John is currently in Sarasota as Associate Program Manager, SPS.



*In the foreground, Rudy Buchel (SWS Engineer-in-Charge, Ft. Myers Depot), Becky White and Darryl Eldon (Senior Operator, SWS) with sonic cartridge on SWS logging truck. In the background, Dave Clouse, Hans Kaiser and Frank Levanti.*



*Many employees had an opportunity to see how a Schlumberger Logging truck works. In the foreground, three tools connected to do "triple combo" downhole services for Schlumberger Well Services clients.*



*Inside the SWS Logging Truck, John Jester (top) looks over the shoulder of Rudy Buchel, who is seated at the CSU console. In the foreground, Darryl Eldon.*

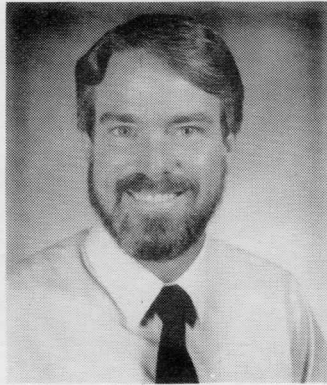


**WELCOME ABOARD TO SOME OF OUR NEW FELLOW EMPLOYEES**

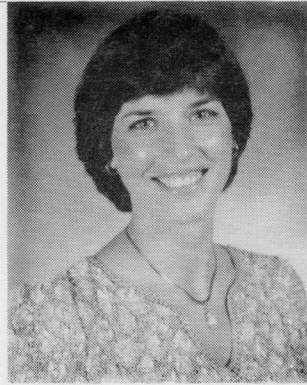
It's a pleasure to welcome our new colleagues who joined Data Systems Division recently. Here's hoping you enjoy being part of the action at Fairchild Weston. Welcome aboard!



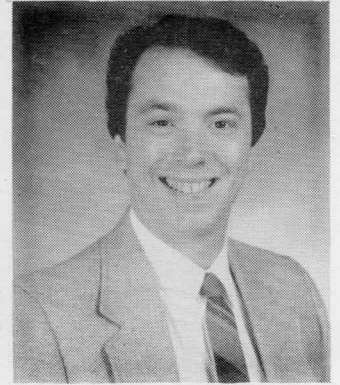
**WANDA Y. BASS**  
*Accountant  
General Accounting*



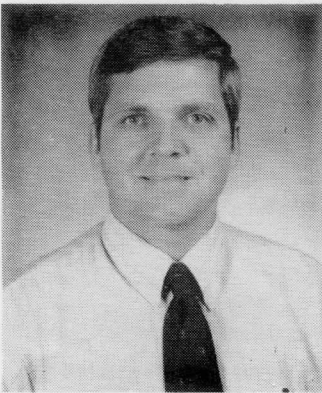
**RON CHESHIRE**  
*Sr. Contract Administrator  
Telemetry Contracts*



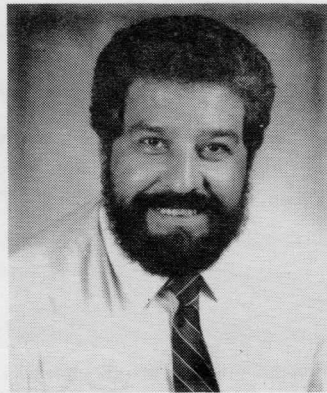
**BEVERLY J. KITAOKA**  
*Manager  
Recorders Software Eng'g*



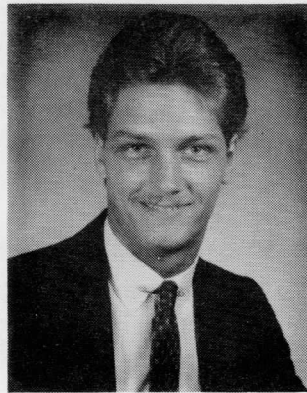
**JAY LANGAN**  
*Accountant  
Cost Accounting*



**CHARLIE MORINA**  
*Sr. Test Engineer  
Test Engineering*



**ERNEST J. SANDOVAL**  
*Manager  
Recorders Engineering*



**TODD R. WHITE**  
*Assoc. Configuration  
Management Specialist  
Quality Assurance*

**NEW PATENT AWARDED  
TO BILL WAGGENER, SR.**

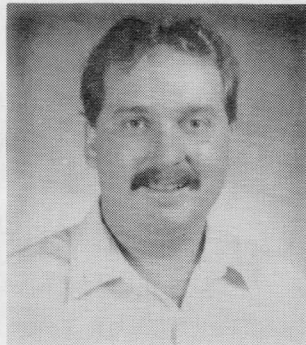
William N. Waggener, Sr., Technical Director for Data Systems Division, has been granted a U.S. Patent covering his invention entitled "Digital Demodulator for Continuously Phase or Frequency Modulated Signals." The patent is related to work done in connection with our new Model 8470 Digital Discriminator.

This is the eighth patent which Bill Waggener has been awarded. He was honored as the Fairchild Weston Systems Key Technologist in 1984.

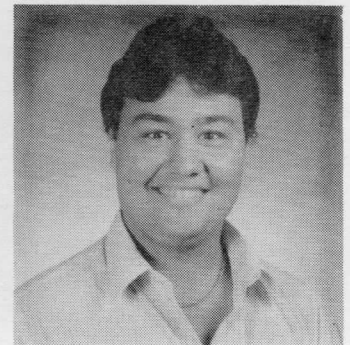
★  
**SAFETY AWARENESS PAYS**

**A CORRECTION**

*Our apologies to David Dowding and Mark McClure for reversing their photos in last month's PULSE story welcoming new employees. Here they are -- correctly identified this time, we hope!*



**DAVID DOWDING**  
*Technician  
Equipment Recorders*



**MARK W. McCLURE**  
*Technician  
Recorders Test*

## INTRODUCING P.C. CHARGERS

# THIS CIRCLE REPRESENTS PRINTED CIRCUIT BOARD ASSEMBLY AREA

Members of the P.C. CHARGERS represent the Printed Circuit Board Assembly area. This Circle was one of the two groups which captured the Data Systems CIRCLE OF EXCELLENCE award last month. The recognition was for management of weekly meetings which promote teamwork, personal growth, and effective problem solving skills. Here's a brief introduction to this talented group:

DOROTHY BERNER joined us in 1985. Through the company she has received her GED and has taken in-house courses to further her education. Dorothy's hobbies are cake decorating, candy making, and playing the organ. "I entered a cake in this year's Florida State Fair and won a first place ribbon, plus first place for best in division," she relates.

MARIANNA CAMPBELL has been with our company for 27 years, and with the P.C. Chargers since the Circle was formed. Her interests include sewing, macrame, plants, working in the yard, and making goodies to eat.

EVELYN CHRISTIAN is a Group Leader in Printed Circuit Board Assembly. She is married to Ed Christian, of our Water Treatment area, and the couple has seven children. Evelyn is Circle Leader for the P.C. Chargers and also Secretary of the Level Two Crew. Her hobbies are music, dancing, fishing, and collecting old lamps. Evelyn has been with FWSI for eight years.

REGINA DEVINE joined Data Systems in 1985. She enjoys horseback riding, but the center of her life is her six-year-old daughter. Regina also recently earned her GED diploma.

BEVERLY GILL moved to Florida from Grove City, Ohio, ten years ago. Beverly has one son, and enjoys bowling. She has been with FWSI since 1983.

ELIZABETH HORTON joined our company in 1978. "Some of my spare time goes to my two Youth Groups -- the Rejoices for teenagers and the Little Rejoices, ages 2 to 10. I enjoy singing and sports and church," Elizabeth said.

PEARL JENNINGS has worked for FWSI for 15 years, and is in Quality Inspection. She is an active member of her church and enjoys singing and her family.

MONICA LASKOWSKY joined our company in 1973. She works in Inspection and enjoys traveling, crocheting and collecting Depression glass. Monica's two grandchildren absorb much of her spare time. In December she plans to go to Germany to spend the holidays with her Mother and relatives.

CHERYL MNICK is the mother of two young boys, ages 2 and 3. She is in our Solder Wave area, and has been with us for three years. Cheryl's interests include horseback riding, motorcycle and car races, and outdoors activities such as camping and fishing.

HILLARY NORFLEET, wife of Telemetry Test Technician Dean Norfleet, has been with FWSI for two years. She enjoys rock and roll music and is furthering her education.

JOSEFINA NUNEZ first joined our Division in 1978. She recently became a naturalized USA citizen. Josefina likes to ride her bike and walk in the evenings. She enjoys cooking very much.



*P.C. CHARGERS -- Seated, Marianna Campbell, Monica Laskowsky, Josefina Nunez. Second row: Dorothy Berner, Elizabeth Horton, Beverly Gill, Evelyn Christian, Regina Devine. Third row: Hillary Norfleet, Pearl Jennings, Cheryl Mnick.*

## WRITER'S BLOCK MAKES A MAJOR PRESENTATION

A major Circle management presentation was given by the Writer's Block Circle on November 13. The team consists of representatives of the three Technical Writing groups at Data Systems Division.

"Their presentation involved many months of careful investigation and evaluations concerning the advantages and cost effectiveness of Computer-Aided Publishing for our Division," said Facilitator Freddie Masse. "The team's recommendations were favorably received. The group has been requested to conduct additional studies into phasing in the implementation while taking into account budgetary restraints and new technology."

The Writer's Block will follow up with another presentation at the end of the first quarter of 1987 to present the findings of their equipment evaluations as well as recommendations for implementation.

"Anyone who attended the Writer's Block management presentation could clearly see why the Tech Writers team was one of the Circles recognized at the recent Circle anniversary celebration," Freddie Masse said.

## BLOOD DONORS HONORED

Three Data Systems Division employees were honored by the Lower West Coast Blood Bank recently for donating a gallon of blood to the blood bank. Larry Bickford, Joe Eaton and Dick Vorce received handsome bronze key rings inscribed with their names and blood types.

LARRY BICKFORD first donated blood while in Basic Training and has continued because "Being a blood donor is good for myself as well as for others." Larry says he feels better physically and emotionally after donating blood.

JOE EATON has been a loyal blood donor since 1960. "My doctor said donating blood is good for me and would help my high blood pressure," Joe explains. Joe plans to continue to donate blood and perhaps win another award for his second gallon.

DICK VORCE first donated blood 25 years ago as an EMR employee. "I had a very serious need for blood about ten years ago, and the employees here donated blood for me," Dick said. "It's a good thing to do. It doesn't cost anything except a few minutes of time, and I believe in it because it helps others."

Many other Data Systems Division employees have been regular, long-time blood donors. Thank you for caring!

And remember, when you or a member of your family need blood, just call Debbie Graham, Ext. 5559 to make arrangements for the needed units to be transferred from our Blood Bank for your use.



*CIRCLE OF EXCELLENCE: WRITERS BLOCK -- Seated, Mark Hanigan, Carolyn Peet, Don Lignore. Second row: George Emigh, John Wood, Scott Havens, Sue Nurczyk. Third row: Carlo Mammelli, John Talbot, Bill MacNeill.*

## CONGRATULATIONS!

JEFF MILBURN (Customer Service, Lancaster, CA.) and his wife Julie welcomed their new baby girl, Laura Caroline, on October 11. She weighed 7 lb. 2 oz. at birth.

DON WHITE (Telemetry Test) and his wife Meredith announce the arrival of their daughter, Jaclyn Hannah, on October 26. She weighed in at 6 lb. 14 oz.

CARLOS MILEHAM (Telemetry Product Development) and his wife Emma are the proud parents of a baby girl, Kristen Allison, born on November 2. She weighed 6 lb. 14 oz. at birth. Carlos and Emma will have a good story to relate to Kristen when she grows up. The couple was en route to Sarasota Memorial Hospital -- at 2 a.m. -- when the family car went dead. Carlos phoned MIKE ERDAHL (Telemetry Systems) to ask Mike to pick them up at Bahia Vista, near Beneva, and take them to the hospital. Mike's sleepy 2 a.m. "Hello" on the phone quickly turned into wide-awake action, and he got the couple to the hospital in plenty of time.

MARY GAYLE INGLE (SPS) and MICHAEL D. WRIGHT (SPS) were married on November 1 in a garden wedding in Tampa.

CINDY PRIETO (Accounts Payable) became Mrs. Terry Whetsel on November 7. They were married in an outdoor wedding ceremony at Myakka State Park.

## MAJOR SERVICE MILESTONES

Employees in Sarasota and in two Field locations are marking major service anniversaries during November. Notable milestones were celebrated by Claude Howard and Dick Vorce, both completing 25 years of service with our company this month.

Tom Tonkin, of Customer Service, based in Las Cruces, N.M., marked ten years of service on November 15.

Aileen Worrell, in our Wheaton, Md., Sales Office, observed her fifth service anniversary on November 9.

Happy anniversary folks!



*Anniversary greetings to: Claude Howard and Dick Vorce (25 years); Carolyn Smith (15 years), Gail Jongeblood (5 years), John Wood (5 years) and Ray Wilson (5 years).*

## TELEDYNE ORDERS MORE DATA LINK EQUIPMENT

Teledyne Ryan Aeronautical, of San Diego, Calif., has awarded Data Systems Division an additional order for data link equipment. With this add-on, Teledyne has more than doubled their initial order which was received in September.

This equipment is to be used in connection with Teledyne's experimental Unmanned Air Vehicle program. The new order includes airborne terminals for their new unmanned vehicle system to be flown next summer.

Teledyne is a highly regarded manufacturer of unmanned air vehicles with experience dating back to the early 1960's.

Mart Dismukes, of our Data Link signal processors development group, has worked with Teledyne's navigation system supplier on interfacing the Fairchild data link to their vehicle.

Data Systems Division is also continuing to work on a substantial earlier Data Link contract involving Boeing's Remotely Piloted Vehicle.

## ESD?

### LEVEL TWO CREW STUDIES ANTI-STATIC PROTECTION

The Level Two Crew is a Quality Circle made up of Group Leaders and Representatives of most of our Production areas. This cross-sectional group is investigating problems in several areas, and some problems that are plant-wide. They are sharing their findings with PULSE readers --

BY PHIL LUQUETTE

The Level Two Crew is currently studying and researching questions which have been asked about Anti-Static Protection throughout our facility. We hope to answer some of these questions in future PULSE articles.

Some of our preliminary finds have been very startling news items, such as: Industry experts have estimated that Electrostatic Discharge (ESD) is costing industry over \$1 billion per year in rework, in-house repair, and field repair. The possibility of ESD damage is ever present, from components coming in the door to the end product. The cost of ESD-related damage escalates as the product moves through the manufacturing cycle.

The U.S. Army has done a study on the electronics of its newest tank. This study showed it cost \$50 to repair a board at the factory before it was sent out, and \$7000 to repair the same board in the field.

More is being learned each day on the damage caused by ESD, and in the coming months the Level Two Crew will be sharing more information about the importance of ESD protection.

### CREDIT UNION NEEDS YOUR PARTICIPATION

The Credit Union Board of Directors extends a cordial invitation to all employees of Fairchild Weston Systems Inc., Sarasota, to get involved with your Credit Union.

Members of the Credit Union interested in running for Credit Union office for the calendar year 1987 are invited to phone Herb Larrabee, Ext. 5193, or Lillian Conway, Ext. 5535, before December 18, 1986.

The following positions are open for candidacy:

Board of Directors	3
Supervisory Committee	3
Credit Committee	3

Nominations cannot be taken from the floor at the annual meeting, as State Statutes dictate that a disclosure statement must be given by anyone running for office before they can be accepted.

# WORKING AT DATA SYSTEMS CAN BE A LOT OF FUN!

Who says working needs to be dreary?

Just check with the members of our Printed Circuit Board Assembly group. The group enjoyed a Halloween Costume Party -- before work and during coffee break.

A big attention getter was Willine Lahman's Mummy -- complete with "coffin" made of a large packing crate.

Willine described the Making of a Mummy: "Moss was borrowed from Pelican Shopping Mall...foam and dolly from Shipping...boots from Fab... goggles from the Wave Solder Room... coat from the Potting Lab... paper from Machine Shop... coffin storage, Paint Dept... helmet, ideas, and dress assistance by co-workers. Finally a crazy employee who could only belong to Bob Johnson's Production Department 119!"

Willine added, "We received inspirations from Group Leaders Evelyn Christian and Margaret Dill, who lead a great team of togetherness. May we all live in Peace!"



*Willine Lahman, A Fairchild Weston Mummy Original!*



*At left, Elizabeth Horton, "Devil Woman." Center, Josefina Nunez, "Cowgirl." Right, Hillary Norfleet, "Clown."*



*Left, Alice Wright, "Cinderella," and Jackie Newberry, "Tramp," at right.*



*Left, Susie Carrico, "Hunchback" and Cheryl Mnick, "Elvira," at right.*

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 \* EMPLOYEE ASSISTANCE PROGRAM \*  
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Call 953-1240 daily

TUES. a.m. - Ext. 5518

Confidential counseling for  
 employees & their families.

EAP IS HERE  
 TO HELP YOU

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