

FAIRCHILD WESTON
Schlumberger

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

NEWS ABOUT DATA SYSTEMS DIVISION

VOL IV, NO. 9

SEPTEMBER, 1982

EMR 8000 SERIES-- A NEW GENERATION OF TELEMETRY PRODUCTS

A new generation of products -- the 8000 Series PCM product line -- is being introduced this month at the International Telemetry Conference show in San Diego, Calif. Initial units to be displayed are the EMR Model 8320 Bit Synchronizer and the EMR Model 8330 Decommutator.

The development of a new generation of products is a significant event in our business. The 8000 Series PCM product line is the third high-performance line to be developed since EMR started in the PCM telemetry business. Earlier, we had the 2700 series, developed in the 1960's, and the 700 series in the 1970's.

The new 8000 Series products are microprocessor-controlled and operate at 20 million bits per second-- ten times faster than the 2700 series, and four times faster than the 700 series.

There are many reasons for developing new products -- performance, such as bit rate (million bits per second), ease of operation, lower manufacturing cost, smaller size, modern styling, and ease of maintenance. These are the things that make us the leader in the telemetry field.

(Cont'd on Page 3)



John Belt, Chuck Miller, Gene Schroeder and Pavlo Bobrek are members of the development team for the new Model 8320 PCM Bit Synchronizer. Missing from the photo is Gil Pelowski.

CREDIT UNION IMPROVES LIFE INSURANCE BENEFIT

An increase in the amount of free life insurance coverage for Credit Union members was approved by the Credit Union Board of Directors this month. The improved life insurance benefit now give depositors life insurance coverage, automatically, for an amount matching the individual's deposits, up to a maximum of \$3000. The previous maximum was \$2000.

This means, for example, that most depositors with \$1000 in a Credit Union account are eligible for \$1000 worth of life insurance. Should your deposit total \$3000, the beneficiary would receive \$3000 in life insurance payment, subject to the following age stipulations.

<u>Age of Member</u>	<u>% of Insurable Balance Covered, up to \$3000</u>
0 - under 6 months	25%
6 mos. - under age 55	100%
Age 55 - under 60	75%
Age 60 - under 65	50%
Age 65 - under 70	25%
Age 70 and over	0

If you have questions about the new, improved life insurance benefit, please call Lillian Conway, in the Credit Union, at Ext 535. Also, remember to keep the Credit Union updated on your current beneficiary.



Members of the Model 8330 PCM Decommutator development team are shown here with the new product prior to its shipment to the ITC Show: Jack Billman, Nick Ostrye, Robert Williams, Jim Schadt, and Guy Ellis.

An Equal Opportunity Employer M/F/H/V

INTRODUCING THE EMPLOYEES IN AVIATION RECORDERS

The Aviation Recorders Final Assembly area, supervised by George Phillips, is responsible for assembling Cockpit Voice Recorders, Digital Flight Recorders, and the repair and overhaul of these units under the cognizance of the Federal Aviation Administration.

"An average of 20 to 25 Aviation Recorders are manufactured by the Assembly area weekly," report Hans Kaiser, Manager of Manufacturing Final Assembly. "These recorders will go to airlines throughout the world. Spares, subassemblies and tape assemblies are also manufactured by the Assembly group, and our tape processing area handles up to 3000 tapes a year for production and spares consumption for the almost 7000 Aviation Recorders in the field."

The Aviation Recorders Final Test Department, supervised by Phil Ingram, is responsible for processing all new Recorders produced by the Assembly area, plus those which have been overhauled and repaired under our Repair Station License.

"Our Aviation Recorders Test Department tests, calibrates, and certifies all units in compliance with FAA and TSO regulations," explains Loy Dunkel, Manager of Manufacturing Final Test. "In addition, troubleshooting and testing P.C. boards, test equipment, and customer returns must also be blended into the normal test schedule."



Jack Routsong and Betty Drymon are shown here in the Cockpit Voice Recorder final assembly area.



Terri Hughes (standing) and Liz Bell are pictured with a Digital Flight Recorder.



Etta Williams (seated) is at work on a Cockpit Voice Recorder subassembly. Standing are Supervisor George Phillips and Marlowe Lymer.



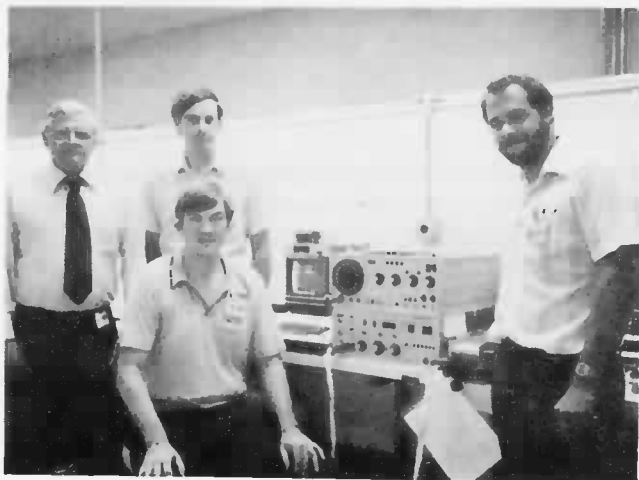
Frances Karcanes and Joyce Williams are pictured here at the Aviation Recorders tape processing station. At right is Hans Kaiser, Manager of Manufacturing Final Assembly.



Technicians Kevin Rolfe, Augie Kotlewski and Art Weinzierl are in our Cockpit Voice Recorders test area.

ASSEMBLY AND TEST

(Cont'd from Page 2)



Pictured with a Digital Flight Recorders test set-up are : Technician Matt Neelley (seated) ; Loy Dunkel, Manager, Manufacturing Final Test ; Technician Bob Boyer, and, at right, Supervisor Phil Ingram.

QUALITY CIRCLES NOW MEET WEEKLY

"Regular weekly meetings of our seven Quality Circles are taking place, and the Circles are engaged in analyzing specific problems in their areas, and seeking solutions," reports Dexter Nash, Quality Circle Facilitator.

Circle meetings are scheduled as follows :

Mon., 7 a.m. Stockroom (7 O'Clockers), Bernie Cori, Leader

Tues., 10 a.m. Assembly (MsWits), Pat Bowers, Leader

Tues., 1 p.m. Test (TIC- Technical Improvement Committee), Bill England, Leader

Wed., 8:30 a.m. Data Recorders Engineering (Tape Engineering Circle), Ellis Speicher, Leader

Wed., 11:45 a.m. Machine Shop (Flamboyant Nuts & Bolts), Don Stover, Leader

Thurs., 2 p.m. Recorders Test (Reel Problems), Phil Ingram, Leader

Fri., 2 p.m. SWS Assembly (Fairchild 9), Wayne Brinton, Leader

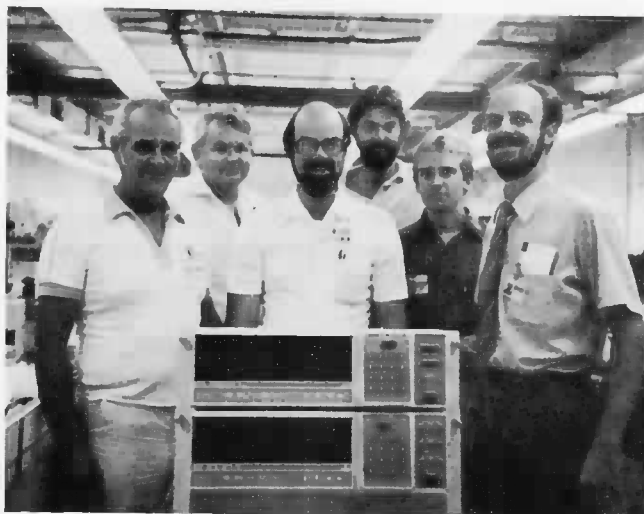
Because each Quality Circle represents the whole department, the Circles welcome inputs from other department members. If you have questions, ideas, or concerns, please talk to a Circle member, the Circle Leader, or our Quality Circle Facilitator. Your ideas will be included in the Circle process.

EMR 8000 SERIES-- TELEMETRY PRODUCTS

(Cont'd from Page 1)

Launching a new product requires considerable effort. Marketing must establish the need for the new products. Marketing and Engineering then join forces to define exactly what the product is going to do and what it will look like. Then follows the engineering design phase. Next the new products go to Manufacturing to be built, and our Sales force starts selling the products.

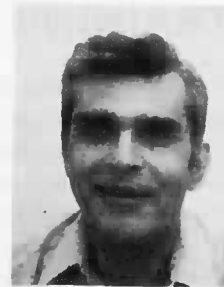
What's the payoff for all this hard work and joint effort among all the departments involved? New products that please our customers, make a profit for our business, and provide the jobs, wages and rewards we all seek.



Ken Clair, Ty Rigdon, Phil Potts, Rick Mitchell, Bob VanderVliet and Karl Hahn, members of the Universal Package and Software team, gather around the 8320 PCM Bit Sync and 8330 PCM Decom.

LES KOCSIS

Laszlo (Les) Kocsis, Supervisor of our Printed Circuit Fabrication and Plating areas since 1975, died on September 27 at Doctors Hospital. Les received his university training in Budapest, Hungary. Prior to joining us in February, 1975, he had extensive experience in printed circuit fabrication, process control, plating and etching processes, and chemical and metallurgical analysis with other firms in this country.



He is survived by his wife Ann and a brother and sister, and other family members in Hungary. Les will be missed by his many friends and colleagues at Data Systems Division in Sarasota.

QUESTIONS & ANSWERS ABOUT OUR BENEFITS

- Q. Where do I get forms for our dental insurance?
- A. See Benefits Coordinator Wendy Schroyer in Personnel BEFORE you go to your dental appointment. Part of the yellow dental benefit request form will be filled in for you. Then you complete most of the form yourself. After your dental visit, follow the simple printed instructions. Mail the form and the proper itemized bills to the insurance company in the addressed envelope we provide. The payment check will be sent to you at home-- or, you and your dentist may agree to authorize payment directly to the dentist.
- Q. I am vested in our Pension Plan and would like to attend a pre-retirement planning seminar like the one held a few weeks ago. Will there be another one?
- A. Yes, we hope to have more pre-retirement planning sessions for employees in the future. We are inviting those employees who are closer to early retirement age first. Later we expect to broaden the program and reach more employees.
- Q. At the pre-retirement planning meeting I did not get an opportunity to ask my questions. Could we write our questions and submit them in advance of the seminar?
- A. That's an excellent idea. For our next pre-retirement planning meeting, we will ask employees to submit some of their questions in advance. This will also help us to tailor the sessions to the needs of employees. Thank you for the suggestion.

EMPLOYEES PASS CPR TRAINING COURSE

Ten Data Systems Division employees successfully completed the American Red Cross Cardio Pulmonary Resuscitation (CPR) course this month. The Basic Life Support Course in CPR was taught by Nurse Debbie Graham, who is a certified instructor.

The three evening sessions of three hours each were given at the Sarasota County Chapter of the American Red Cross. Fairchild Weston sponsored the course and our company paid all costs. Employees who passed the most recent CPR course are: Vic Boucher, Wayne Brinton, Tamy Califano, Joy Fischette, Chris Gates, Dan Harriger, Don Parker, Charlene and Pat Parrish, and Deanna Turpin.

A new Multi-Media First Aid Course is now being planned for interested employees. Please call Debbie Graham, Ext. 559, for more information.

BLOOD DONORS HELPING

Over 100 employees volunteered to give blood when the Lower West Coast Blood Bank Bloodmobile visited our plant on September 3, according to Debbie Graham, Occupational Health Nurse at Fairchild Weston's Data Systems Division.

"We had just one week's notice about an emergency shortage of blood. The response from employees showed marvelous cooperation, and a real outpouring of care from our employees," Debbie said. The blood drive produced 75 pints of the precious life-saving fluid.

All employees and their families, as well as retirees, are automatically eligible for blood units from our Blood Bank account, whenever the need arises. Just call Debbie Graham, Ext. 559, if blood is needed.

AVIATION RECORDERS BUSY WITH MARKETING

Our busy Fairchild Aviation Recorders group will have representatives at three important trade shows, plus two technical seminars during the next few months:

September 20-24, National Business Aircraft Assoc. Trade Show, St. Louis, MO.

September 27-29, International Telemetry Conference, San Diego, Calif.

October 11-16, International Society of Air Safety Investigators, Tel Aviv.

November 2-10, Airlines Electronic Engineering Committee and European Airlines Electronics Meeting, Brussels.

November 29 - December 1, Regional Airline Association Meeting, San Francisco.

These sales and marketing efforts include demonstrating Fairchild Aviation Recorders technology to important engineering and executive personnel from U.S. and foreign airlines and airframe manufacturers. Cockpit Voice Recorders, Digital Flight Recorders and Flight Data Recorders will be exhibited. A number of our Fairchild Aviation Recorders experts will cover the shows and seminars.

GOLFERS FINISH SEASON

Fairchild Weston's Summer Golf League tournament took place at North Port Charlotte Country Club on August 28. Debbie Woolard was the tourney big winner with a 69 net. Some 36 players participated, and prizes were awarded to the golfers in the first 20 places, according to Tourney Chairman Rick Mitchell.

The Summer Golf League plaques were awarded to first place winners Dave Hart and Tom McCarthy. Runners-up for the second year were Ken Triplett and Bruce Knisel.

SEPTEMBER ANNIVERSARIES SPOTLIGHT 19 EMPLOYEES

Major service milestones this month are being observed by 19 employees.

190 YEARS OF SERVICE

Special congratulations to these employees who had major service anniversaries of 20 or 25 years during September, for a grand total of 190 years-- seven 20-year anniversaries and two 25-year milestones.



Pictured are Ann Stinton, Tom Fultz, Nancy DuPlantier, Don Sittler, Bonnie Iler, Ola Mink, Judy Stolz, Ron Basham and Evelyn Sweeting.

OLA MINK and EVELYN SWEETING are observing their quarter of a century anniversaries.



Dave Long, of Field Service, is marking his fifth service anniversary during September. Dave is currently in Medicine Bow, Wyoming, in connection with the NASA-Lewis Wind Energy Program.

FIVE YEARS MILESTONES



Marking five years of service this month are Billy Fincher, Zoraida Muriedas, Ray Rogalski, Brunhilde Duffey, Treva Messenger, Alice Ketron, Walt Knopik, Terry Vinson and Greg Sutton.

SECOND SYSTEM INSTALLED FOR DFVLR IN GERMANY

Herb Larrabee and Bill Cox, of Telemetry Systems, returned recently from Germany where they successfully installed a second EMR telemetry-computer system for an organization known as DFVLR in Braunschweig, West Germany.

The system will be used to validate an advanced microwave landing system to enable passenger aircraft to land under conditions of reduced visibility which would now require the aircraft to divert to another airport.

Included in the system is a specially-designed Stream Synchronizer. This special piece of hardware was designed by Bill Cox and Curt Dyke. Herb Larrabee developed the software to operate it.

Herb Larrabee describes the system as follows: The system merges three unique data streams into one, and allows for transmission of a derived data stream to the aircraft. The three data streams are: one data stream from the aircraft, and two data streams from radar sites. The radar inputs will determine the actual location of the aircraft. This will be plotted against where the aircraft thinks it is on the four plotters.

Our most recent telemetry-computer system was installed in a stationary van shelter at the customer's site.

FAA PERSONNEL ATTEND OUR WIND SHEAR ALERT CLASSES

Representatives of the FAA (Federal Aviation Administration) from airports throughout this country have been participating in training classes on our Low Level Wind Shear Alert Systems in Sarasota. Our LLWSAS equipments have been installed at 58 different FAA airport locations, including Sarasota/Bradenton and Tampa.

"As we conclude our current series of five-day training sessions on the Wind Shear Alert System, some 60 FAA representatives will have been trained. They then return to their home airport site for FAA certification in Wind Shear system repair," explains Don Roberts, Field Service Manager for our Industrial Systems group.

FAA personnel in the accompanying photo are :

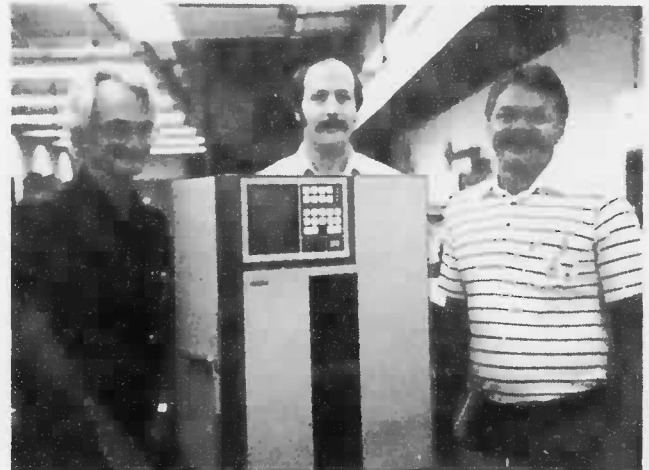
David A. Alvarez, San Juan, Puerto Rico
John Dietz, Minneapolis, MN.
Richard Floyd, West Palm Beach, FL
Tommy L. Guillebeau, Oklahoma City, OK
John F. Helms, Charlotte, N.C. ;
Dwayne Little, Albuquerque, N.M.
Stephen C. Malik, Sarasota, FL
Tony Montoya, Houston, TX
Jane Pappio, Oklahoma City, OK
Martin L. Perry, Norfolk, VA
Richard Pippin, New Orleans, LA
Karen Sterling, Dallas, TX
Michael A. Wilson, Indianapolis, IN
Norbert F. Zawaski, Detroit, MI.



FAA training classes visited our Test Department for some hands-on instruction on the Low Level Wind Shear Alert System. In the left foreground are : Stephen C. Malik (Sarasota/Bradenton Airport) ; Tommy Guillebeau (FAA Radar Instructor, Oklahoma City) ; Jane Pappio, (FAA Out-of-Agency Training Coordinator, Oklahoma City). At right of console are Instructor Bob Petrey, and Don Roberts, Manager of Industrial Systems Field Service. In the background are other FAA personnel who attended the LLWSAS course.

NEW SABRE 9 ON DISPLAY AT OUR ITC SHOW BOOTH

A brand new data recorder-- the SABRE9 Recorder/ Reproducer-- will meet the public at the ITC Show in San Diego this month. The new unit is the result of a concerted Data Recorder Engineering effort to produce a new microprocessor-controlled general purpose portable recorder/reproducer.



Bob Hughen, Bill Davis and Bill Miles with SABRE 9 Recorder/ Reproducer, just before the new unit was shipped to California for the ITC Show.

The SABRE9 features automatic input/output calibration; a "personality" module ; many self-testing routines, and a unique interactive CRT display. These features have been designed into the system with the intent of making the SABRE 9 a leader in its market for years to come.

The interactive CRT display is the technique which the operator will use to greatly simplify the set up and calibration of the Recorder prior to its use. It is a feature not presently available from any other recorder manufacturer.

The new, convenient "personality" module enables an individual user to set up the Recorder to the user's specific requirements, and have the same set up available to use again and again at a later time, without having to set it up each time.

"As is always the case, the design of a new product involves the efforts of many employees throughout the plant," says Ellis Speicher, Project Manager. "We want to express our appreciation to the many individuals who have given their cooperation and talents toward the making of this new product"

CONGRATULATIONS

ROY KITAOKA (Recorders Development) and his wife Bev announce the arrival of their daughter Michelle Brienne, weighing 8 lb. 12 oz., on September 17.

MIKE HACKATHORN (Recorders Development) and Pauline Hartshorn were married on September 17 in Orlando.