



The EMR-Telemetry News
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T/C SYSTEM TO BE USED ON NASA STOL PROGRAM

A major new contract has been awarded EMR-T for a dual-computer telemetry system to be used in NASA's STOL (short take-off and landing) aircraft program. Value of the contract is over \$400,000.

The system involves new techniques for merging data and includes color TV display, two DEC PDP-11/45 computers, along with our telemetry equipment and software, according to Art Kelley of Marketing.

Ed Kucharski has been named Program Manager for this contract. The equipment is scheduled for delivery to NASA Ames, near San Francisco, in February, 1974.

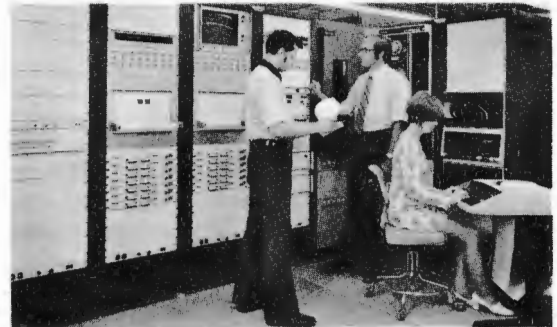
STUDYING...

By special arrangement with the Sarasota County Vocational Technical School, EMR is the location for a PCM course being taught by Jon Brown and Harry Durrett, of EMR-T's Customer Service and Training group.

A large number of EMR Technicians and other personnel in related activities have signed up for the course which began on September 11. It is taught Tuesday and Thursday evenings in our Training Classroom from 7 to 10 p. m.

Cessna System Delivered

This general purpose EMR Data Acquisition System was delivered recently to Cessna Aircraft Company's Military & Twin Division, Wichita, Kansas, for use in handling aircraft test data.



Gary Sorlien, Wiley Dunn and Susan Sutherland with Cessna system prior to shipment.

The system, which combines EMR telemetry equipment with a PDP 11 minicomputer system, accepts FM and PCM data coming down from the airplane and formats it on mag tape.

Project Engineer Wiley Dunn went to Wichita, along with Programmer Gary Sorlien, to handle installation and check-out of the hardware and software at the customer's site.

POWER PROTECTION -- A NEW BUSINESS

Most of us have heard references to "Protective Relay" operations at EMR in recent months. What's it all about?

Pete Farinas, Product Manager for our new Power Protection Group, has answered some questions about this new business segment:

What is the Power Protection Group?

A new business segment under Weston Instruments Inc., charged with the manufacturing and marketing in the U. S. of a line of solid-state protective relays and related products.

Who developed these products?

Our sister company, Compteurs-Schlumberger, located in the suburbs of Paris, France.

Who will buy these products?

Electric utilities, original equipment manufacturers (OEM's), and large industrial corporations.

Who is our competition?

General Electric, Westinghouse and half a dozen other smaller firms.

Why are we getting into this business?

Solid-state relay sales in the U. S. are presently quite small in comparison to older electromechanical designs. However, we anticipate a 50-50 split five years from now with further improvements ahead.

Power protection is a natural diversification into an ever-expanding non-government market. Also, our initial R & D investment is low, since most of the products have already been applied success-

fully on a worldwide basis, except in the U. S.

What are protective relays?

Devices which constantly monitor power systems to assure maximum continuity of electrical service with minimum damage to life and property. By their application, trouble is quickly traced and action initiated to isolate the damaged parts.

What are the basic elements of a power system?

Generators, transformers, busses, transmission lines, and motors.

Which will we be involved with?

Initially, only transmission lines; motors and generators next.

What is a fault locator?

This is the first product to be manufactured in Sarasota. It automatically detects and displays the distance in miles from a utility substation to a point of fault (short-circuit) on a high voltage transmission line. It is a time and dollar saver.

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PULSE - The EMR-Telemetry News

M. E. Herbst, Editor

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A SCHLUMBERGER COMPANY

SEGMENT



Pete Farinas, Product Manager
of new Power Protection Group

(Cont'd from Page 2)

When are we getting started?

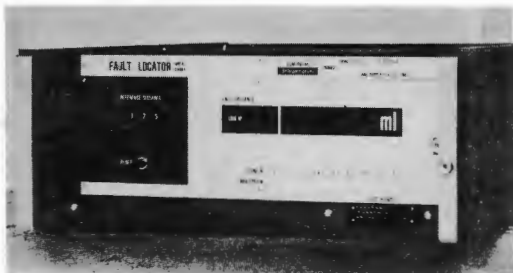
Sales and Marketing literature is under preparation right now. Manufacturing drawings for the fault locator were received from France in late July. Production planning efforts have begun, and completion of five sample systems is scheduled for early 1974.

Why market under the Weston name instead of EMR?

Weston meters and instruments are already highly regarded in the utility field. The name is well known throughout the power industry.

Who are the people involved, so far?

Manufacturing: Norm Siegel, John Urbanik, and Gary Bowen.
Power Protection Marketing: Pete Farinas, Ruth Erlandson,



Fault Locator System Display Unit

DEVELOP SOFTWARE



Some of the members of EMR-T's Software Development Group are shown here with new computer equipment now at work in the Software Development Facility in our Engineering Building. Pictured are: Bill Bennett, Susan Sutherland, Pete Burnahm and Gary Sorlien.

Other members of our Software Development team, headed by Bill Bennett, are: Jon Altenbernd, Bill Doe, Sara Hinkle, Mike Hutchinson, Delores Newell, Paul Weller, and Joe West.

In addition to the DEC PDP-11/45 computer system pictured above, the Software lab also has a PDP-11/40 computer tied into an EMR telemetry front end to simulate customer hardware. This equipment will be used for software/hardware integration. The Software Group develops software systems for our customers to go with EMR telemetry/computer systems. The Software Development Facility equipment can also be utilized for customer demonstrations.

W. E. JUNGQUIST

William E. Jungquist, a member of our Metal Fabrication Department since April, 1972, died at Sarasota Memorial Hospital on July 23. He is survived by his wife, Jean, and five children. Bill will be missed by his many EMR friends and colleagues.



BENEFITS

-- YOUR "INVISIBLE" EXTRA PAY CHECK



EXTRA VALUE

In addition to our pay checks, all EMR employees receive benefits which amount to a sizable portion of our total compensation. When you look at your compensation, don't forget to add the extra value of your benefits to your regular pay check.



WHO PAYS?

Some of our benefits are paid for entirely by the company. Others are shared by the employee and the company.

WHAT BENEFITS DOES EMR PAY FOR?

Pension Plan
Employee Insurance Plan
Vacation Plan
Nine Paid Holidays
Growth Plan (minimum of 1% of admissible salary plus 35%, currently, of your contribution)
Social Security (EMR matches your payroll tax)
Sick Leave
Personal Time - jury duty, witness, marriage, death in family
Safety Glasses & Shoes
Tuition Refund (80%)
Workman's Compensation
Unemployment Insurance
Military Service Benefits



WHY PROVIDE BENEFITS?

A good benefits program helps attract good employees. EMR's benefits package is competitive in our industry, and equal to or better than benefits packages offered in our area. We try to make EMR a good place to work.



WHAT DO BENEFITS MEAN TO YOU?

Company-paid benefits help ease the strain on your take-home pay. Benefits help you and your family during emergencies... help you plan ahead for long-term security via pension and savings plans... provide an opportunity for rest and relaxation through vacations and holidays...



THOSE LITTLE "EXTRAS"

Some "extras" that mean a lot when you need them are also available through company cooperation: Blood Bank... Credit Union... WATS Line.



Your benefits add up to an extra, "invisible" pay check.





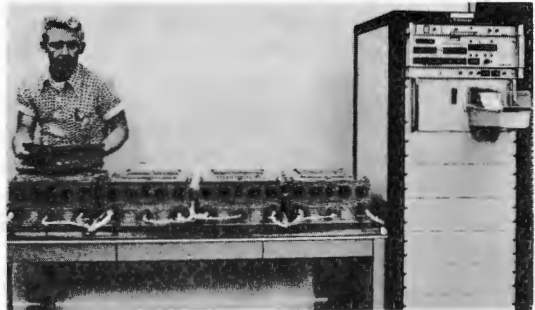
CHICKEN FEED ? JUST CHECK THE COMPUTER !

One of our current customers is Hupsi Corp., Venice, Fla. -- makers of electronic systems to monitor feed and water consumption of large flocks of chickens. The electronic flock monitoring system informs commercial poultry and egg producers about feed and water consumption and environmental conditions which may affect the chickens and their egg output.

By continuously monitoring these factors, the producer can know what is going on in all his poultry houses and detect possible troubles in the flock before they become serious.

Hupsi has contracted with EMR-T to provide printed circuit boards, front panels, metal fabrication parts and some assembly for a quantity of systems. Their equipment consists of a central control console, tape display board and teletype unit, plus feed weighing devices, water meter and electronic monitoring units for each poultry house.

FAIRCHILD SYSTEM



Ron Vander Vliet with EMR airborne system shipped to Fairchild recently. At right is ground quick-look checkout station.

EMR-T delivered an airborne signal conditioning system to Fairchild Industries recently for use in flight tests on the new Fairchild A10 military aircraft.

Our airborne system provides signal conditioning for 110 strain gages and puts out one serial PCM stream to an airborne tape recorder and L-Band transmitter.

This equipment went to Edwards Air Force Base, Calif., where it joined other EMR systems previously delivered to Fairchild for this flight test program.

John Belt, Vic Boucher and Ron Vander Vliet worked on this Fairchild system with Project Engineer Wiley Dunn.

Joe West and Susan Sutherland worked on the software package.

HAPPY ANNIVERSARY !

Major service anniversaries of 10 and 15 years are being observed during August and September by the employees pictured here:



15 years (standing): Pervis Sanders, Joe Faso, Jim Wachob, Larry Dunham; 10 years, (seated): Martha Fulton, John Belt, Skip Bailes, Dale Dennis, Harry Durrett.

Tom Antzack (right) is also marking his big 15th this month.



In addition, the following employees are observing five-year service anniversaries during August and September: Lee Darling, Bob Jones, Randy Schaub, John Turpin and Judy Williams.

WE CARE

ITEMS ABOUT EMR EMPLOYEES WHO CARE ABOUT OTHERS

Gerry Radwell (of Instruments), his wife Darlene and their three young sons, Todd, John and Brian (9, 8 and 6) are an EMR family that "cares."

A few years ago when young John underwent serious eye surgery in Philadelphia, he shared a hospital room with Mary Elizabeth, aged 8. The Radwells befriended her parents. Theirs was a poor family from Puerto Rico with 10 young children. While the Radwells lived in the Philadelphia area, they invited Mary Elizabeth to their home for weekend visits.

This summer she was the Radwells' guest for her first trip to Florida. During the month-long visit, young Mary Elizabeth enjoyed some new experiences: sitting down together as a family for three full meals a day... swimming in the Gulf and pool... eating out in restaurants... staying at a motel--and, best of all, camping with the Radwells and four other families at Myrtle Beach, S. C.

"The Radwells are a perfect example of a family that really cares," says Jerry Johnson, Executive Secretary in Instruments.



Gerry Radwell, with Mary Elizabeth and the Radwell boys: Brian, Todd and John.

Bill Miller (Receiving Inspection) received his "gallon" pin from Lower West Coast Blood Bank recently... Blood donated by Bill and other employees is credited to EMR's Blood Bank account for use by EMR employees and their families when it is needed.



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On Sunday mornings you can see Bill Salter, of Design and Drafting, driving a bus -- picking up young Sunday School students (25 or 30 each Sunday) and driving them to Junior Church and Sunday School classes. Bill and his wife, Pat, teach Sunday School and Bill has devoted Sunday mornings to his "bus ministry" for Faith Baptist Church for some time.



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Send your nominations for EMR-T employees who CARE to Pulse, Mail Stop 11.

COMPLETE COURSE

Robert S. Williams, Senior Engineer in our Engineering organization, was instructor for a special EMR-T course recently for users of PDP-11 computer systems. Certificates for successful completion of the course went to: Jack Cain, Dave Colin, Wiley Dunn, Charlie Hall, Graham Hildebrand and Tom Osmer.

BEST OF SHOW

Jim Horvath, of Design and Drafting, captured Best of Show with his 1960 Corvette and a trophy for first in class for his '64 Corvette at the recent Gulf Coast Corvette Club drag races at DeSoto Memorial Speedway.