



## The EMR-Telemetry News Sarasota, Florida

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### MAJOR AIRLOCK MILESTONE — BEGIN ACCEPTANCE TESTING OF COMPUTERIZED TEST SET

EMR-Telemetry has reached a major milestone in our Airlock contract with the start of acceptance testing of the first EMR Computerized Airlock Test Set (CATS).

For more than a year, EMR-T has been at work on a long-term contract with McDonnell Douglas Astronautics Co., St. Louis, to supply a telemetry system for NASA's Saturn V Workshop--planned as the nation's first manned "space station." The Saturn V Workshop will serve as living quarters and work areas for three astronauts for several stays in space of up to two months each. Launch is scheduled for early in 1972. (Cont'd. on page 4)



Engineer J. A. Rose, of MDAC, St. Louis; Gary Schweinsaupt, EMR-T; W. R. Wollenberg, MDAC Resident Q. C. Representative, and George Phillips, EMR-T, with CATS equipment. Individual Multiplexers will be plugged into cubicles at right in Airlock Test Set for testing. Programmers and Interface Box fit into center rack.

### CREDIT UNION IS BIGGER AND BETTER THAN EVER

Continued, steady growth of the Credit Union was the theme of the EMR Sarasota Employees Credit Union's annual meeting held on January 22 in the Cafeteria. Elections and reports from officers occupied the attention of the 67 members who attended the 70-minute meeting chaired by President Bill Gregory.

EMRSECU's assets had reached \$295,600 and membership increased to 591 by the end of the Credit Union's third year, according to reports at the meeting.

Major door prizes awarded at the meeting went to: Lee Melugin (six shares in the Credit Union, worth \$30); Bob Mohrfeld and Doyle Byrd (gift certificates).



Credit Union Board Members are: President John Brady (insert); standing: Vice President Jim Hawkins; Secretary Josephine Snyder; Treasurer Ruth LaCroix; Carl Hendrickson, Dale Hefke and Bill Gregory. Seated, Supervisory Committee members Ed Annaratone, Glen Johnson and Joe Sheppard. Also seated, Credit Committee members Romagne Growden, Marshall DuBois and John Norton.

\$\$\$ EMPLOYEE BENEFITS -- AND WHAT THEY MEAN TO YOU \$\$\$  
Starting today on Page 2 - a series about our employee benefits.

## \$1.5 MILLION IN BENEFITS FOR EMR-TELEMETRY EMPLOYEES

EMR-T employees gained a valuable new Employee Benefit this month through the introduction of the Schlumberger Contributory Investment Growth Plan. All employees benefit from the plan whether they elect to contribute or not. However, 501 of the 586 eligible employees (85%) have elected to participate in the contributory portion of the Growth Plan.

The Growth Plan is just one part of a comprehensive program of employee benefits provided by the company. The value of all of these benefits represents a sizeable figure--1.5 million dollars. For each employee the average for 1969 was over \$2,200 in employee benefits.

What are these employee benefits? Some of them show up in our weekly pay, such as vacations, holidays, sick leave, etc. Some benefits provided by the company other than those received in our weekly pay are: the Medical Insurance Plan, the Pension Plan and the new Growth Plan.

EMR-T's Employee Benefits program can be divided into three general categories:

### Plans providing protection for emergencies

When death or a serious illness occurs, we are provided protection for some of the expenses involved. These plans include: group insurance

(medical, life, accidental death and dismemberment), unemployment compensation and workmen's compensation. The company provides the total coverage for these plans, and offers the opportunity of group rates for dependent insurance coverage.

### Pay for time not worked

It is important for each employee to have the opportunity for vacations and holidays, to rest and relax, in addition to those occasions when an employee may be required to be away from work. During many of these times that we are not working we continue to receive pay. Some of these occasions are:

Vacations	Jury Duty
Holidays	Military Leave
Coffee Breaks	Death in Family
Sick Leave	Other Personal Absences

### Retirement and long-term security

Each of us has a responsibility to his family to plan for an income when we stop working. Some of the employee benefits are designed to supplement our own savings and investments. The company pays the same amount of social security as each employee pays. The Schlumberger Retirement Plan is provided by the company at no cost to the employee. The Investment Growth Plan is another part of the program which will assist us during our retirement.

In addition there are numerous other benefits for EMR-T employees such as: tuition refunds, blood bank, the cafeteria, Credit Union, EMR Employees Association and the dispensary.

"A recent survey of Florida electronic and aerospace companies clearly indicates that the EMR-T Employee Benefits program compares very favorably with the employee benefits provided at the other 18 companies," O. W. Noble, Manager of Personnel and Services, disclosed. "Our broad range of benefits represents 26% of our total compensation costs in 1969, and the implementation of the Growth Plan increases this figure to 30% for 1970," he added.

Future articles in Pulse will explore the many features of these various EMR-T Employee Benefits Plans.

Next: Emergency Protection Plans

### CASH ON THE BARREL HEAD

On Monday, February 2, a 15-minute movie, Cash on the Barrel Head, will be shown in the Cafeteria. The color movie is a humorous treatment of Employee Benefits. There will be free coffee and all employees are encouraged to attend during Coffee Break. Showings will be at 9:30 and 10 a. m., 2:30 and 3 p. m.

## NATIONAL SALES MEETING CONVENED IN SARASOTA

Members of EMR-T's Field Sales force from across the nation met in Sarasota last week at the Azure Tides for a two-day National Sales Meeting. Included in the busy schedule were technical briefings about products and systems; analysis of business outlook for 1970, and professional training films.



Seated: Bob Sayre, Willie Biles, Wally Jones, Clay Davis, Bud Hinkel. Standing: Tillie Castelletti, Cal Morton, Tom Antzack, Ray Claflin, Bob Jimenez, Mort Cohen, John Sherman, Bob Fuller, John Harry, Ross Tilton, Ken Hacker, Bob Klessig, Shelby Bass, Doug Dinnes, Vern Arboney, Harry Johnson.

### CHARLES W. MILLER

Charles W. Miller, Quality Control Inspector in our Fabrication area, died suddenly on January 18 of a heart condition. Born in Uniontown, Pa., he served in the U. S. Army, 1941-1945, and joined EMR in September, 1959. He is survived by his wife, Patricia, who is employed in our Microelectronics Lab, and two daughters. Graveside services were held at the Barrancas National Cemetery in Pensacola, Fla. Charlie will be greatly missed by his many EMR friends.



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## MAJOR AIRLOCK MILESTONE (Continued from Page 1)

EMR's part of this complex project involves developing airborne telemetry hardware and two ground-based computerized test sets to test the Orbital Workshop telemetry hardware. The EMR telemetry system will monitor and encode measurements of internal and external spacecraft environments and on-board experiments for transmission to earth and will be capable of handling nearly 2000 channels of telemetry data.

There are two identical CATS (Computerized Airlock Test Sets). Each consists of an EMR 6130 Digital Computer, teletypewriter, paper tape punch and reader, printer, and three racks of highly sophisticated electronics used to test the 37 Multiplexers, two Programmers and Interface Box which make up the flight hardware for EMR's telemetry system.

One of the two test sets will remain at EMR-T for in-house testing of the Airlock telemetry hardware. The duplicate test set will go to St. Louis where McDonnell Douglas will use it for acceptance testing of the EMR-T Orbital Workshop telemetry flight hardware and for any trouble-shooting that might be necessary while installing the telemetry equipment in the spacecraft.

Acceptance testing of the first CATS involves critical analysis of the equipment which will test the many parameters of the flight hardware. As with all airborne or spaceborne equipment to be used in manned space travel, accuracy and reliability are vital. Hence the CATS -- equipment used to check out the flight telemetry--must be as error-free as humanly possible.

Wayne Lockwood has served as CATS Project Engineer, with Gary Schweinhaupt as Lead Technician. Significant contributions were made by dozens of EMR-T employees from all areas. The Airlock Program Management team includes representatives from Airborne Engineering,

At EMR 6130 Computer during CATS acceptance testing are: McDonnell Douglas Astronautics Co. Engineer W. A. Russell; Wayne Lockwood, Dan Jenkins, EMR-T; MDAC Resident Engineer H. J. Jory (seated).



Quality Assurance, Production, Manufacturing Engineering, Materials, Procurement, Accounting, Contract Administration and Program Office. A. S. Van Buerenis Program Manager. EMR-Computer, Minneapolis, supplied the two 6130 Digital Computers. Special computer programs were devised by a Contract Programmer and our in-house Programmers. EMR-T's Airlock Program activities are continuing on the duplicate Test Set and the design and manufacture of the sophisticated airborne telemetry equipment.

### MOVING OFFICE SUPPLIES TO DIFFERENT LOCATION

Look for our Office Supplies Stockroom in a new, convenient location next week--adjoining the Library in the Cafeteria Building. Supplies are being shifted to the new location this weekend, and beginning on Monday, February 2, Librarian Ruth Standley will assist you in filling your requisitions for office supplies and stationery.

Hours for picking up stationery and office supplies are 8:30 to 9:30 in the morning, and 1 to 2 in the afternoon. Mrs. Standley will also continue her duties as Engineering Librarian. Stan Krosley, of EDC, will be responsible for maintaining the IBM inventory of office supplies for the Office Supplies Stockroom.

Engineering components, parts and supplies will continue to be available at the old Engineering Stockroom location, serviced by Ida Kassanchuk.