



The EMR-Telemetry News
Sarasota, Florida

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'TIS THE SEASON TO BE JOLLY. . .

Over 300 employees and guests opened the holiday season at EMR-T's gala Christmas Ball last Saturday night at the Sarasota Motor Hotel. Dance Chairman Frank Bost expressed special appreciation to those who worked on the committees: Decorations: Betty Bost, Flora Byrd, Eve Hall, Sally Noble; Prizes: Cliff Hord; General Committee: Mary Bell, Walt Giblin, Frank Guinn, Linda Herring, Roma Parker.

Master of Ceremonies Cliff Hord presented a plaque of appreciation to outgoing Employees Association President Jim Rexrode, and 19 door prizes went to the lucky winners. Here's the scene:



Happy Holidays

NEW EMR-T SYSTEM WILL MONITOR WATER QUALITY

Special Systems Project Engineer Ed Kucharski and Senior Engineering Technician Milt Litwiller are shown here with the remote unit of EMR-T's Water Quality Monitoring System soon to be installed

for the Army Corps of Engineers on the Pearl River in Louisiana.

The system is being shipped on schedule this week, and on-site acceptance testing is slated for January.



This Pearl River water quality monitoring system will measure certain water quality parameters: dissolved oxygen, temperature, pH, conductivity, and turbidity. It will aid the Corps of Engineers to evaluate the quality of the water over a long period of time. Continuous sampling provides background information which enables the observer to project trends in levels of water quality and to decide whether the level of water pollution is rising or declining. The EMR system provides immediate data on changes in water quality on a continuing basis.

EMR-T's Industrial and Instruments Organization, which is responsible for marketing our Water Quality Monitoring systems, is pursuing other business opportunities in water quality monitoring, and is staffing up the field sales force for more intensive sales activity.

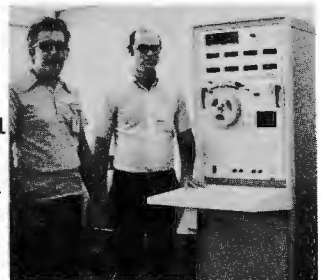
EMR-T's in-house waste water treatment plant has been used as a test bed to evaluate our water quality monitoring concepts and hardware. Our work in water quality monitoring now centers in a special Hydrology Lab installed in the S-2 Special Systems area. In this Lab, EMR Engi-

neers and Technicians can simulate the kind of water environment which our equipment will encounter in the field.

Here's how EMR's Water Quality Monitoring system works: the system includes a "remote" monitoring unit placed near the water to be monitored--in this case downstream of Pearl River Lock No. 1. The water is pumped through the monitoring station. Measurements are taken automatically via sensors, and the measurement data converted into an electrical signal. The signal is then processed to suitable form for transmission and the information is sent via telephone line (or radio link, if desired) to a central processing unit.

At the central control station the telemetered data is received, displayed, and prepared for computer entry. The Pearl River system has a digital display and paper tape punch. The data is punched on the paper tape for entry into a Corps of Engineers computer located in Mobile, Alabama.

In the photo at right, Richard Davies and Phil Potts, of Special Systems, with Central Control Station portion of EMR Automatic Water Quality Monitoring System.



ORIGINAL CHRISTMAS TRIM

An original, one-of-a-kind Christmas tree -- trimmed with machined parts and shavings produced in our Fabrication Machine Shop-- decorates the EMR-T Fabrication area in Production.



Bud Steinhoff and Paul Shetler are pictured with the special tree. Ornaments include tiny printed circuit cards, curled shavings, Wiedemann punched paper tape; machined parts from mills and lathes, sheet metal parts from the Wiedemann and brake. Around the base of the tree are machined housings, cavity amplifier parts, small painted front panels, and other examples of the variety of work performed in Fabrication.

The Fab group is keeping up its holiday spirit, even while working long shifts in their current schedule of 12-hour-days.

A REMINDER

Employees and employers alike are reminded that effective Jan. 1, 1972, the taxable wage base for Social Security (OASI) purposes is increased from \$7,800 to \$9,000. The present tax rate of 5.2% on employer and employee each continues through 1972. If your earnings are less than \$7800 a year, you will not be affected. If your earnings are more than \$7800 a year, you and EMR will both pay slightly higher amounts in 1972.

INSTRUMENTS ORGANIZATION HOLDS SALES MEETING HERE

An intensive three-day sales meeting for members of the EMR Instruments and Industrial Organization was held in Sarasota Dec. 1-3. Field Salesmen met with in-house Industrial and Instruments Marketing people to discuss 1972 Sales Plans and for product indoctrination. Briefings covered the EMR Instruments line, Vehicle Test Systems, and Water Quality Monitoring.

Participating were: T. G. Antzack, W. A. Buck, E. C. Channell, R. L. DeFord, W. E. Hardman, J. R. Heeg, C. H. Mason, E. R. Moller, F. E. Post, H. G. Radwell, R. N. Ridgwell.

During the sessions, a new version of the Model 1310 Frequency Response Analyzer, capable of measuring phase and amplitude ratio, was unveiled.

"Coincidental with the removal of all Salesmen from the field, the Instruments and Industrial Organization had a record influx of orders!" noted Bill Buck, Instruments Marketing Manager.



Visiting EMR Instruments Field Salesmen watch Edie Himes (left) of Production add the finishing touches to an EMR Model 1310 Frequency Response Analyzer. Pictured with Edie are (left to right): Frank Post, based in Doylestown, Pa.; Jack Heeg, Columbus, Ohio; Bob DeFord and Cephus Mason, of Monterey Park, Calif.

FIRST MINI-T/C SYSTEM READY FOR DELIVERY

EMR-T's first Mini-Telemetry/Computer System is ready for delivery to the Department of Transportation, Cambridge, Mass., for use in an STOL (Short Take Off and Landing) aircraft navigation and guidance program.

This newest offering from EMR-T combines the economy, flexibility and compact size of the PDP-11 Minicomputer (produced by Digital Equipment Corp.) with EMR-T's telemetry front-end. The result is a low-cost, versatile T/C combination for telemetry data acquisition and processing.

"We're very enthusiastic about this new offering, and are optimistic about our future success in the growing mini-T/C field," says Shelby Bass, Aerospace Marketing Manager. A second Mini-T/C system is now nearing completion for delivery to another customer later this month.

Assembled in Digital Systems, the pictured Mini-T/C system will be used in a tape formatting system installed in a Department of Transportation mobile van-mounted telemetry reduction system supplied earlier by EMR-T. Telemetry data from a test STOL aircraft will be processed by this Mini-T/C system as well as by the substantial amounts of EMR-T equipment already delivered in the van.

In a related job, EMR-T last month supplied an airborne system to the DOT for use on the same STOL program.

This airborne application utilizes EMR ground telemetry equipment (our Model 2705/2706 units--Analog-to-Digital Converter and Analog Multiplexer) and a new, specially-designed Programmer. The units are mounted on two shock-mounted platforms for installation in an aircraft to evaluate instrumentation for guiding the aircraft to the airport runway. This evaluation will assist in determining the type of instrumentation to be used in fu-

ture STOL aircraft. Curt Dyke, of Digital Systems, was Project Engineer for this airborne system.



EMR-T's first Mini-T/C System is demonstrated by Project Engineer Robert Williams and Engineering Technician Roger Mort, of Digital Systems.



EMPLOYEES CAN JOIN

WALT DISNEY'S
MAGIC KINGDOM CLUB

EMR-T employees are eligible for membership in Walt Disney's Magic Kingdom Club, which permits employees and their families to enjoy the world-famous Disney World attraction near Orlando at a discount price. The same membership card may be used at Disneyland in California, too, and is available to all employees, including Field Office employees, upon individual request. See Brenda Hall in the Credit Union Office for your membership card.

ANNIVERSARY GREETINGS

Happy anniversary to the 20 employees observing service anniversaries this month. Marking 10-year milestones are:

1961 - Sam Gray, Clay Osgood



GUINN WINS MEDAL

Frank H. Guinn, of Marketing, was awarded the Association of the U. S. Army Medal by General Jones, Commanding General of the 81st U. S. Army Reserve Command, in Tampa on Dec. 12. Frank won the award as the outstanding student in the 3388th U. S. Army Reserve School in the State of Florida.



F. H. Guinn

Frank is a Lt. Colonel in the Army Reserve, with 27 years of active and reserve duty. He has won a number of distinguished honors including special schooling in Command and General Staff in San Juan, Puerto Rico, last August. The award ceremony in Tampa on Sunday was covered by TV news programs on Channels 8 and 13.

Colonel Guinn is currently assigned to the Office of Deputy Chief of Staff for Personnel, Headquarters, Continental Army Command, Fort Monroe, Va.



INTERNATIONAL HARVESTER BUYS VEHICLE TEST SYSTEM

International Harvester Company's Motor Truck Division, Fort Wayne, Ind., has ordered an EMR Vehicle Test System for use in safety testing of the firm's truck line. The company produces a wide range of trucks, including four-wheel drive vehicles, campers, and large trucks for hauling semi-trailers, etc.

EMR's VTS equipment will be used to test new brake system performance, the structures on truckbeds, and some handling characteristics, according to Tom Antzack, our Manager of Industrial Sales. The EMR receiving station will be mounted in a mobile van to go to the test site for rugged terrain testing.

PULSE - The EMR-Telemetry News
M. E. Herbst, Editor

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A SCHLUMBERGER COMPANY

A MESSAGE FROM OUR GENERAL MANAGER



TO ALL EMPLOYEES:

During this festive time of year, I want to extend to you and your family my sincere wishes for a joyful holiday season and for peace and happiness in the new year.

Rather than look back and review 1971, I'd like to look ahead to the forthcoming year, and, without the benefit of a crystal ball, give you a preview of what we anticipate our business climate will be like during 1972.

We expect that the Aerospace business will be about the same in 1972 as it was in 1971 -- no growth, but no further decline, either. Competition will continue to be fierce, and EMR must sell hard to get every job.

Actually, we are facing the beginning of the new year in much better shape than at the start of 1971:

- We have a greater backlog.
- Our organization is trimmer.
- We have a new product line to sell that is expected to bring in about \$2 million in business in 1972--through our new Instruments Organization.
- We have specific business opportunities for our new product lines--Vehicle Test Systems, Water Quality Monitoring, Simfire, Mini-T/C. During 1971 these new items were in the talking and development stages. Now we will begin to see the action.
- Specific business opportunities have been identified for our new Model 720 and Model 730 products. Our customers are just waiting for these products to reach the marketplace.

In short, we know our strengths and some of the problems we will face. It's up to us to focus our abilities and, together, make 1972 a successful business year.

To each of you, my thanks for your individual extra efforts during the past year. I hope that 1972 will be a very good year for you personally and for our business as well.

Sincerely yours,

A handwritten signature in dark ink, appearing to read 'L. G. Chappell'.

L. G. Chappell