



## The EMR-Telemetry News Sarasota, Florida

Vol. VII, No. 6

27 October 1972

### MONITOR BRAIN WAVES WITH EMR DATA SET

EMR's Model 604 Telephone Data Set was used to demonstrate the monitoring of eight channels of brain wave activity of patients during the annual meeting of the American EEG (Electroencephalographic) Society in Houston this month.

"The patients were located in Twin Falls, Idaho," says Dick Vorce, of Marketing. "EEG data was encoded on our Data Set and sent over normal dial up phone lines to Houston. There the information was taken from our Data Set Receiver and displayed on an EEG monitoring machine."

EMR's equipment has received clinical approval by a committee of the American EEG Society, according to Ross Tilton of EMR's Englewood, Colo., Sales Office.

The University of Utah has been using similar EMR equipment to transmit car-  
(continued next column)

### CHRISTMAS GALA SET

EMR's holiday season is off to an early start with our Christmas Dance set for Saturday, December 2, at Forest Lakes Country Club. Music will be by the DR's from 9 p. m. to 1 a. m., followed by a breakfast buffet.

Jerry Radwell, Dance Chairman, says employees interested in dining at the Country Club before the Dance will have an opportunity to make advance reservations (minimum of 75 persons). Watch for announcements about details soon.

diac and brain wave data from outlying hospitals in Utah, Idaho and Colorado to a central computer facility at the Latter Day Saints Hospital in Salt Lake City. The telemetry transmission technique is much more precise than methods used in the past and allows more accurate diagnosis to be made by the computer in a matter of a few minutes. Eventually these techniques will be used by doctors directly from their offices or clinics.

Dick Vorce and Ross Tilton participated in the Houston EEG Conference demonstrations, along with Dr. D. R. Bennett, Dr. R. M. Gardner, and EEG Technician Lee D'Alessandro of the University of Utah, Salt Lake City.

### FIRST UTD UNIT



Senior Test Technicians Lonnie Gunter and Chris Freeberg are shown with the first Production unit of our newest Discriminator ready to be shipped to Sandia. The Model 410 Universal Tunable Discriminator has achieved excellent market acceptance.

"EMR is known for the excellent quality of its products, and we want to maintain that reputation--so quality assurance is everybody's job." In that brief statement, Vice President and General Manager W. T. Long summed up the Company's outlook on quality.

Ensuring that quality is a vital part of each product we make is the responsibility of Quality Assurance Manager Bob Jones and the 35 men and women in our Quality Assurance organization.

"Quality Assurance works with people in every department, from design to customer acceptance," Bob Jones explains. "We have four major Quality Assurance groups--Reliability, Quality Assurance Engineering, Quality Control, and Calibration Lab," he said. Here's how they function:

**RELIABILITY** relates to the reliability of design, components and processes utilized throughout the Company. Chris Papastrat and Jim Maguire make up the portion of Reliability which deals with assuring that reliability is a major design consideration by reviewing designs, evaluating components and analyzing in-house and field problems. Through our Materials and Processes Lab, Rick Schneider and Bonnie Iler assure that reliability is built into our equipment by analyzing the many materials and processes used, including metals, plastic wire, plating baths, solutions, coatings.



In Reliability, Jim Maguire, Bonnie Iler, Chris Papastrat, Rick Schneider.

## QUALITY ASSURANCE IS EVERYBODY'S JOB -- EVERYBODY'S !!!



Mike Gerack of Quality Control's Fab Inspection



Quality Control Inspectors Evelyn Busbee, Betty Darr



Larry Dunham, Joan Brothers in Product Assurance Control Center

**QUALITY ASSURANCE ENGINEERING**, headed by Rex Van Tassel, "makes sure we give the customer what he asked for." This group interfaces with Government and customer inspectors and writes Manufacturing Operations Instructions and Quality Assurance procedures. Four key sections within QAE keep a watchful eye on how products are built in Manufacturing:

- *Product Assurance Control Center* is the place to get needed drawings, prints, stamps, quality forms, handled by Joan Brothers and Larry Dunham.

- *Final Quality Control* assures that units have been properly tested before shipment and that the shipment meets contract or purchase order requirements. Dave Long and Charles Harris man Final QC.

- *Quality Assurance Coordinators* Dave Walker and Keith Thatcher review contracts and specifications to assure that we are able to comply with the quality or process requirements.

- *Purchased Material Quality Control*, handled by Bernie Hartenstein, reviews requisitions and purchased materials to assure that the materials and components meet our quality requirements.

PULSE - The EMR-Telemetry News  
M. E. Herbst, Editor  
Permission to reprint material herein may be obtained from the Editor, Pulse

COPYRIGHT © 1973 EMR DIVISION OF WESTON INSTRUMENTS, INC.  
A SCHLUMBERGER COMPANY

**QUALITY CONTROL**, headed by Alf Englund, inspects workmanship and verifies that our line operations in Production are within our standards and procedures. The QC group includes:

- *Fabrication Inspection*, with Mike Gerack, Alan Marion and Jane Mustian, inspects fabricated parts in our Machine Shop area.

- *Receiving Inspection*, with Vida Jarrett, Bill Miller, Don Sittler and Hazel Taylor, examines incoming parts and in high reliability programs performs X-ray and burn-in to assure that reliable components go into our products.

- *Assembly Inspection*, staffed by Evelyn Busbee, Gladys Butler, Betty Darr, Barbara Jefferson, Evelyn Sweeting and Claude Howard, is the on-the-spot inspection team looking at workmanship in our products during manufacture, from subassembly to systems.

Our **CALIBRATION LAB**, headed by George Strait, assures that all of the hundreds of measuring instruments used in all EMR-T departments are repaired and calibrated. That includes electrical and physical measurements, and highly precise standards traceable to the National Bureau of Standards. Another aspect of this Quality Assurance function is our **Environmental Lab** where EMR-T products undergo simulated vibration, stresses, temperatures, etc., under

which our products have to perform in the strenuous environments they will encounter. (See the group photo of our Calibration Lab personnel.)



Calibration, Standards and Environmental Lab personnel, left to right: seated, Dick Kolchakian; Louis Egyed, Jay Lawton, Jim Beebe, George Strait, Bob Van Doninck, Bill Wheeler and Bill Henry.



Rex Van Tassel, Quality Assurance Engineering Supervisor (at right), observes Final QC operation with Charles Harris and Dave Long.

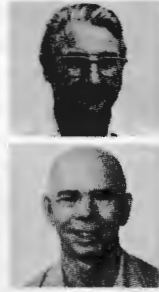
"Basically, all Quality Assurance people are striving to maintain EMR's standards of quality," Bob Jones said. "Our company-wide goal is to reinforce our well-established reputation for quality products, and we can do it with all employees working together. Quality is indeed everybody's job."

A sign on Alf Englund's office wall says it all: "Quality doesn't just happen. It takes skill and pride in workmanship."

## CONGRATULATIONS AND ANNIVERSARY GREETINGS



Nine employees mark 10 years with EMR this month: (seated) Ruth Gentzler, Clyde Brackett, Judy Amuso; (standing) Doyle Byrd, Jim Eames, Len Zeiler and Martha Lambert. Inserts at right are Ed Moller (top) and Harold Miller.



Margaret Dill and Tom Toler are observing their 15th service anniversaries during October.

## NEW TELEPHONE SYSTEM TO GIVE BETTER SERVICE

A new telephone system, incorporating the latest electronic improvements, has been installed at EMR-T and becomes operational this weekend.

The Prestige Telephone System, installed by General Telephone during the past three months, provides more automatic equipment, faster handling of calls, and more versatility for users.

Special instructions for using the new system are included in our newest EMR phone directory. Users can transfer calls, set up conference calls, or consult another inside party while connected to an outside call--all without Operator assistance.

"This system is the best the phone company has to offer and is compatible with future anticipated improvements such as touch dialing," says Bob Mohrfeld, Supervisor of Plant and Facility Engineering.

Our Operators, Mona Nainby and Jean Wernet, will move to the new carpeted and curtained switchboard area at the south side of the lobby in the Administration Building. They will utilize new, automatic consoles with touch dialing and continue to serve as Receptionists for visitors coming to the Lobby. At night

our Guard will occupy the same telephone-reception area.

"After-hours calls will have chimes which can be heard in all buildings so that the Guards can take incoming calls from any location," Mohrfeld explained. Employees working after regular switchboard hours should allow five or six rings so that the Guard can answer the call first and transfer the call to the correct extension. There will be no Night Line telephone numbers in the future," he said.

"The only telephone set-up in this area equal to our new system is in the new First Federal building downtown," he said.

## TRAILER IN FIELD TESTS

That small white trailer parked near the EMR lake is engaged in field testing portions of an automatic digital data acquisition water quality system ordered by Sarasota County. Project Engineer Ed Kucharski says that field evaluation of sampling and pumping techniques are being conducted, with data transmitted to a central station in Engineering. Two trailers and a central station are scheduled for delivery to the County later this year.