



The EMR-Telemetry News
Sarasota, Florida

Vol. VI, No. 5

17 September 1971

TELEMETRY TO MEASURE THICKNESS OF SEA ICE

An electronic device to measure the thickness of sea ice will be produced at EMR-T under a contract awarded by Sandia Laboratories, Albuquerque, N. M.

The Sea Ice Penetrometer, developed by Sandia for the U. S. Coast Guard, has been tested in the Arctic. EMR-T will manufacture an initial quantity of the expendable penetrometers which are dropped from an aircraft onto the ice.

The telemetry package, which consists of accelerometer, voltage-controlled oscillator, and battery, is packaged with a UHF transmitter and antenna. The penetrometers--shaped like a large sharpened pencil--are nearly four feet long and just under three inches in diameter. When dropped from an aircraft flying at a specified altitude, the penetrometers impact at a velocity of more than 500 feet per second, and penetrate the ice. As they strike the ice, the penetrometers pull apart, leaving the whip antenna protruding above the surface. The forward section, containing the telemetry package, continues to cut through the ice to the water below, letting out an electrical cable as it goes, to retain contact with the antenna.

The telemetry package senses the deceleration of the penetrometer as it goes through the ice, and the transmitter sends the information to the aircraft for storage on tape. A computer converts the data to the thickness of the ice.

EMR-T's efforts on the Sea Ice Penetrometer are centered in Special Systems, with delivery scheduled for mid-November.

FREE CHEST X-RAY

Free chest X-rays will be available to all EMR-T employees in Sarasota next Tuesday, Sept. 21, through the cooperation of the Sarasota County Tuberculosis and Health Assoc. A Mobile X-ray Unit will be stationed at the rear of the Cafeteria Building from 9 a. m. to 4:30 p. m., and employees are encouraged to take advantage of this health service. Check with your Supervisor about the time schedule for your free chest X-ray.

VIBRATION DATA SYSTEM ORDERED BY FAIRCHILD

An order for a Vibration Data Acquisition System has been awarded EMR-Telemetry by Fairchild Industries, Inc., of Germantown, Md. The system will have the capability of monitoring, accumulating and plotting out 150 channels of vibration data. Fairchild plans to use the vibration monitoring system to conduct vibration studies on an Applications Technology Satellite (ATS).

The seven-rack system will be designed and assembled in Special Systems, with Wyatt Bishop as Project Engineer. Equipment includes EMR-T's new 600 series Industrial FM Telemetry products, and delivery is scheduled for October.

EMR-Telemetry extends a cordial welcome to our new associates from Weston Instruments, Hatboro, Pa., who have joined us this month.

With the consolidation of the Weston-Hatboro facility into EMR-Telemetry, both operations now have increased capabilities, a broader product line, and improved business opportunities.

Most important, however, is the blending of talented people into one dynamic operation--a combination which makes EMR-Telemetry stronger and more competitive in the marketplace.

To our new colleagues -- now known as our Instruments Organization -- we say "Welcome aboard!"

Earl C. Channell, Instruments Organization Manager, heads our Instruments operation. He joined Weston-Hatboro in 1966, first as Manager of Electronic Engineering, and before relocation to Sarasota was General Manager of the Weston Instruments facility in Hatboro. During 1970, Mr. Channell served as Director of Technical Planning for EMR on Dr. J. P. Magnin's Executive Office staff in Princeton, N. J.

ENGINEERING

Frank Lynch, Manager of Instruments Engineering, has been with the Weston-Hatboro Engineering Department since 1967. He holds a Bachelor of Science degree in Electronic Engineering from Drexel Institute of Technology, and a Master's degree from the University of Pennsylvania. He was formerly associated with Philco Corp., American Electronic Labs, and Nuclear Research, all in the Philadelphia area.

James D. Spaihts, Engineer in Instruments Engineering, joined Weston-Hatboro in 1967. He attended Lafayette College and took his degree at Drexel Institute. His previous work experience included positions with Amelco Semiconductor, Moun-

EMR-TELEMETRY WELCOMES OUR NEW HATBORO COLLEAGUES



Channell



Lynch



Buck



Ridgewell

tainview, Calif.; the James Forrestal Research Center, Princeton, N. J., and Air Shields, Inc., Hatboro. Jim is currently in England where he represents the Instruments group in a joint product development with Solartron. He will be joining us in Sarasota in mid-October.

Edward A. Domrzalski, Jr., Senior Engineering Technician, comes to Sarasota with over five years of service in the Hatboro Engineering Department. He is a Navy veteran and his background includes extensive experience in instrument repair and electronic panel wiring and construction.

MANUFACTURING

Stanley M. Baron, Group Leader and Senior Test Technician, has transferred to Production Test, reporting to Test Supervisor Pervis Sanders. Stan has been with the Hatboro Instruments facility since April, 1965. He will be Group Leader for production testing of instruments.

MARKETING

William A. Buck, Manager of Instruments Marketing, is in charge of marketing our Instruments line. He was born in London and holds a degree in Instrument Engineering from London University. Bill served in the Royal Navy, and was associated with Marconi Instruments marketing operations in Europe before returning to the U. S. as Manager of Marconi Instruments and a director of the English Electric Corp. He joined Weston Instruments as Marketing Manager in February, 1970.



Radwell



Heeg



Post



DeFord

Richard N. Ridgewell, Senior Marketing Coordinator in our Instruments Organization, is a native of England. He had experience in establishing electrical training schools in Karachi, Pakistan, and first joined Schlumberger's Solartron marketing organization in England in 1955. In 1957 he transferred to this country to engage in marketing of Solartron instruments, and later Weston instruments. Between 1968 and 1970 he handled marketing functions for Scientific International Marketing, Inc., and Princeton Applied Research Corp. He returned to Weston-Hatboro in May, 1971, and is currently in Europe on a four-weeks sales tour.

H. G. (Gerry) Radwell, Senior Application Specialist in Instruments Marketing, joined Hatboro Instruments in 1968. He attended Spring Garden Institute, Philadelphia, and was formerly associated with RCA, Riverton, N. J., and Raytheon in Portsmouth, R. I.

John R. Heeg is Sales Engineer in our Instruments Organization's Field Sales office in the Columbus, Ohio, area. Jack holds an Electrical Engineering degree from Merrimack College, and an Industrial Management degree from Northeastern University. He joined the Weston

Instruments organization in 1968 and had previously been with Raytheon from 1959 to 1968. His office is at 6649 N. High Street, Worthington, Ohio.

Frank E. Post is Senior Sales Representative in the Instruments Organization's Sales Office in Doylestown, Pa. Frank has been with the Instruments facility since November, 1962, first in Engineering, and since 1968 in Marketing. His address is P. O. Box 66, Furlong, Pa.

Robert L. DeFord is District Sales Manager for EMR Instruments in 11 Western States. He was employed in Solartron and Weston Instruments marketing from 1959 to 1965, and returned to the Weston sales organization in 1966 after a year with Rockwell Manufacturing. Bob's earlier experience was with Beckman Instruments on the West Coast. Bob and Dan Rendon and Sylviane Yerex are based at the Weston Instruments Sales Office at 736 Monterey Pass Rd., Monterey Park, Calif.

Dan Rendon, Senior Field Technician for the EMR Instruments Organization's Field Sales Office in Monterey Park, Calif., has been with the Instruments sales and service facility since 1961. A veteran of World War II and the Korean conflict, Dan attended Long Beach City College. Before joining Weston he worked for Douglas Aircraft and Zenith in radar and microwave systems and repair of electronic equipment.

Sylviane Yerex joined the Monterey Park Instruments Sales Office in December, 1970, as a Clerk Typist. Sylviane was born in Tunisia, North Africa, and has a three-year-old daughter, Michele.



Domrzalski



Baron



Rendon



Yerex

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

Permission to reprint material herein may be obtained from the Editor, Pulse

COPYRIGHT © 1971 EMR DIVISION OF WESTON INSTRUMENTS, INC.
A SCHLUMBERGER COMPANY

HATBORO AND SARASOTA DEMONSTRATE EQUIPMENT

EMR-T's Vehicle Test System and a Function Generator produced by our Instruments organization (formerly Weston-Hatboro) were demonstrated this week at the Society of Automotive Engineers' Farm, Construction and Industrial Machinery conference in Milwaukee, Wis.

Viewing the EMR equipment at the Show from Sept. 13-16 were representatives of major manufacturers of heavy equipment such as tractors, earth movers, digging cranes, and other machines for industrial, construction and farm use.

The EMR Instruments organization's equipment shown is a special version of the Arbitrary Function Generator, Model 1640 series, designed to operate with dynamometers, engine load and emissions testing. The unit simulates load conditions and determines accelerator position. Punched tape is used to produce the desired waveforms, including those recommended by Health, Education and Welfare anti-pollution regulations. The equipment can be used in testing autos, farm machinery and other vehicles.

The EMR Vehicle Test System (VTS) demonstrated in Milwaukee assists designers in improving the safety and performance of new autos and other vehicles. The equipment measures pressure, strain, temperature and other parameters on vehicles operating under severe test conditions. Through telemetry (measuring at a distance), VTS users can gather test data from moving vehicles for accurate, rapid analysis, without the need for umbilical cables or expensive on-board recorders.

Manufacturers of automobiles and heavy

equipment have purchased our vehicle test systems for use at research and development facilities and proving grounds.

Representing EMR at the Milwaukee show were Tom Antzack and John McQueen, of our Detroit Sales Office; Bob Fuller, of Los Angeles, John Heeg, of the EMR Instruments Sales Office, Columbus, Ohio; Ed Moller and Wyatt Bishop, Sarasota.

At the show, the VTS was demonstrated via an instrumented "Boonie-Bike" produced by Schlumberger's Heath Company. A second trail bike demonstration system is now on a sales tour of Europe where our VTS is being shown to clients.

NATIONAL SALES MEETING SCHEDULED SEPT. 22-24

An intensive three-day National Sales Meeting will be held in Sarasota next week for members of EMR-T's Field Sales force, according to Marketing Manager Shelby D. Bass. Salesmen will receive training on new products and will be briefed on business plans for the industrial and aerospace telemetry markets which EMR-T addresses.

SIEGEL HEADS NEW GROUP

Manufacturing Manager Norman Siegel has been named President of the newly-formed Sarasota County Manufacturers Association, an organization sponsored by the Economic Development Council of Sarasota.

"By helping manufacturers with their problems, we expect this organization will encourage economic development of the area. If we can promote clean industry in the community, we will be able to increase the number of jobs available," Mr. Siegel said.

ANNIVERSARY GREETINGS

-- There are 47 EMR-T employees observing service anniversaries in September. Among them are the following of our colleagues marking major milestones of five years and ten years:

1961 Ruth Marquis, Doris Roberts

1966 Tillie Castelletti, Milt Lippman, and Liesbeth Sabbarth