



## The EMR-Telemetry News Sarasota, Florida

Vol. X, No. 6

June, 1975

### EMR EQUIPMENT MONITORING RACING CARS

After many years of experience in vehicle monitoring, EMR-T is now actively monitoring racing cars. Working with the famous McLaren racing team, EMR supplied a vehicle monitoring system which gives McLaren pit crews real-time performance data on their U. S. Auto Club (USAC) race cars.

The complete monitoring system, developed jointly by EMR, Team McLaren, and Data General Corp., includes EMR equipment which rides in the car--signal conditioning, frequency multiplexer, transmitter, antenna and batteries. In the pit, the EMR system includes an RF receiver, demultiplex equipment and display capability. Data General supplied the minicomputer hardware, software programs, and printer.

Through this racing data acquisition system, measurements of temperatures, pressures, RPM, fuel flow and other critical data are readily available to pit crews so that the driver can concentrate on driving.

A major advantage is fuel flow data, since racing cars do not have gas gauges. Heretofore, with the rubberized, honey-combed fuel cells that these race cars use for safety reasons, it had been necessary to "guess" how much fuel remained. So the timing of pit stops was vital. With the fuel flow data from EMR's telemetry package, the pit crew will know exactly how much fuel is available. Saving one pit stop can mean winning a race.

(cont'd on Page 2)



AT INDY 500 TRIALS--Our own Ron Vander Vliet and John Norton (standing, 2nd & 3rd from left) with driver Johnny Rutherford and McLaren crew, after qualifying.

### ANNIVERSARY GREETINGS

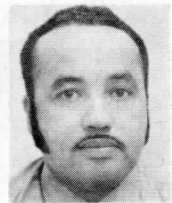
Happy anniversary to the following EMR employees observing major service anniversaries during June:



Betty  
Maguire  
(1955)



S. Kent  
Morgan  
(1960)



Cephus  
Mason  
(1965)

HAPPY VACATION... Pulse is smaller this month so that our hard-working Reprographics Department can have some time off for vacation!

## RACERS (cont'd from Page 1)

EMR's 14-channel system is being used for engineering and testing the McLaren cars and in tire testing. A compact four-channel EMR system is scheduled to be used in the cars during actual races.

EMR's name, along with Data General's and other sponsors, appeared on the McLaren racing car driven by Johnny Rutherford, which placed second in the big Indianapolis 500 race. Dick Vorce and John Norton, of Marketing, participated in news conferences, interviews and TV coverage in Indianapolis. Earlier, Ron Vander Vliet of Engineering, who developed the EMR 14-channel system, worked with the McLaren crew in putting the EMR system in the McLaren car in Detroit and also at the Indianapolis pre-race qualifying trials.

"Although our system was not actually in the Indy 500 race, it is now being used in testing the McLaren cars, and we expect the smaller, four-channel system will be used during races in the near future--perhaps at Pocono on June 29," said John Norton. Norton and Bruce Randall are working on the compact four-channel system which is about the size of a brick.

Publicity at Indy and subsequently has featured EMR's system in TV and radio coverage and in newspaper and magazine articles from the New York Times to Australia.

Ron Vander Vliet enthusiastically describes the McLaren Team as "beautiful people to work with." His past experience in racing late model stock cars and currently in Corvette racing proved very helpful.

Next? Jim Horvath and Ron Vander Vliet will demonstrate an EMR four-channel system at the Daytona July 4 "Paul Revere" International Motor Sports Association race for Corvettes, Porsches, Camaros, etc.

## INSURANCE TIPS

Recently EMR was notified by our insurance carrier that our group rates were being increased a minimum of 15.7% and a maximum of 42.7% effective May 1, 1975. In order to offset the economic impact of such an increase to employees, it was determined that the Company would absorb the additional costs.

This decision follows EMR's policy that we will continue to provide good benefits at a reasonable cost to our employees.

In order to assist you in understanding our insurance coverage, a special column is being established. Questions and answers concerning our insurance coverage will be included in the next few issues of PULSE.

## BOEING ORDERS SYSTEM

A new EMR telemetry/computer system has been ordered by the Boeing Company, Wichita, Kansas, to augment and update an existing ground station. The EMR system will be used in aircraft test data reduction.

In addition to the PDP 11/45 computer, the system will include new products in our 700 series, such as the Models 711, 713 and 720. Don Shumaker, of our El Paso office, booked the order. Dick Haase and Roger Mort will be responsible for the system in Engineering.

## GOLF LEAGUE WINNERS

Winning teams in the 13-week EMR Golf League were: 1st, Dan Eckroad & Steve Windoffer; 2nd, Wiley Dunn & Stu Ulfers; 3rd, Don Norris & Joe Faso.

Trophies will be awarded June 28 after the big EMR Golf Tournament at Sunrise National Golf Club.

PULSE - The EMR-Telemetry News

M. E. Herbst, Editor

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

COPYRIGHT © 1975 EMR TELEMETRY, WESTON INSTRUMENTS, INC.

A SCHLUMBERGER COMPANY

## ENERGY R & D AGENCY TO USE NEW EMR SYSTEM

EMR has been awarded a contract from the U. S. Energy Research and Development Agency (ERDA) for a radiation and meteorological monitoring system. ERDA is a newly-formed government organization replacing some of the activities of the AEC (Atomic Energy Commission).

The computer-controlled monitoring system will be installed at the 572-square-mile Hanford Reservation, located in the State of Washington. This is one of the AEC's oldest atomic research and development areas and is also a site for atomic liquid waste storage.

Battelle Pacific Northwest Laboratory provides engineering services for ERDA and is handling the procurement and installation of this EMR monitoring system.

This initial order is for a computer-controlled Central Station and one remote telemetry unit. When fully expanded, the system will provide 20 remote sites, each taking eight measurements of weather and radiological data for transmission through a radio link to the central station. At the central station, the data is displayed and processed with a computer which is being provided by EMR. EMR's 3200 series industrial products will be used at both the remote and central stations.

This is the first system sale of our new Supervisory Control product line, and delivery is scheduled for late October. Len Zeiler is the System project engineer.

EMR is providing remote telemetry equipment, radios, antennas, central station, analog displays, computer and software, according to Bill Hardman, Product Line Manager for Industrial Data Systems.

## JUNE 27 IS A BIG DAY FOR BETTYE MAGUIRE

Senior Accounting Clerk Bettye Maguire, of our General Accounting Dept., closes the ledger on 20 years with EMR this month. June 27 is the day Bettye celebrates her 20th service anniversary and has elected to



Bettye Maguire

begin her early retirement. She becomes our 12th retiree from EMR in Sarasota.

One of our Ridgefield pioneers, Bettye originally joined EMR in 1952, but left to try living in Fort Lauderdale. She returned to Connecticut and rejoined EMR in 1955.

"Back in those days EMR consisted of about 40 people working in an old house on Main Street in Ridgefield," she recalls. "The labs were downstairs and in the basement, and the offices were on the second floor. It was a close-knit, happy group."

Bettye moved with EMR from the Main Street house to the new Grove St., Ridgefield plant, and later to Sarasota in 1957. Now she has decided to stay home and take good care of her husband, Mickey. They plan to enjoy golf, beach and pool, and lots of relaxation.

Enjoy it, Bettye! We'll miss you.

## FAULT LOCATORS TO MEXICO

Additional orders have been received for Power Protection equipment to be used in Mexico, according to Pete Farinas, Power Protection Product Line Manager. The two newest orders are for three fault locators to go to the northern division of Mexico, and six fault locators for the eastern division area. This supplements an earlier order from Mexico which called for nine fault locator systems to be installed in Baja California, at the Tijuana substation.

## POLLUTION CONTROL SYSTEM IMPROVED

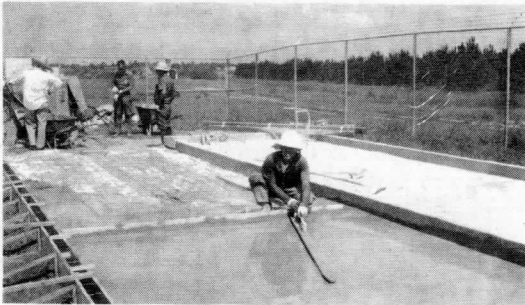
A new improvement in our waste treatment plant--involving the construction of three large sludge drying beds-- is making sure that EMR does an excellent job of pollution control.

"Through EMR-T's latest expansion of our waste treatment plant, we are fully compliant with Environmental Protection Agency regulations," said Dutch Fonteine, Supervisor of Plant and Facility Engineering.

Combined with our earlier, advanced waste water treatment plant, and our tree farm which is sprinkled with the treated waste water, the EMR system for handling industrial and sewage wastes is considered an outstanding example of what a responsible, "clean" industry can do to protect our environment while providing jobs for hundreds of people in the community.

The three new 500-square-foot concrete sludge drying beds are being used to dry the sediment (sludge) which remains after the chemical and sewage wastes have been treated. After proper drying, the sludge will be packed in tight containers and safely buried in a sanitary land fill.

Meantime, chemical and sewage waste effluents are constantly being treated in a specially-designed series of holding ponds. Then, the safely-treated waste



Pictured during construction of three sludge drying beds adjoining our waste water treatment ponds are: (foreground) Armand Cheramie; (background) Everett Layton, Glenn Campbell and Burt Ekis.



Tall pines grow from seedlings. . . Carol Warmbier and Dutch Fonteine are dwarfed by trees in EMR tree farm. Original seedlings were size of twig held by Dutch.

water is used to sprinkle EMR's 15-acre tree farm on the northwest corner of EMR property.

EMR has for many years successfully avoided disposing of effluents into nearby streams and water ways. The new sludge drying beds are designed to keep the chemical wastes from leaching into the soil and becoming potential water pollutants--through redissolution of the metal wastes via sub-surface percolation or via surface storm water run-off.

EMR-T's advanced waste treatment system and tree farm was initiated back in 1969. Eleven thousand slash pine seedlings, less than a foot high when they were planted in 1969, have flourished under the waste water sprinkling system. Many are now 20 feet high.

Our Plant Engineering and Maintenance Department designed and constructed the newest improvement to the waste treatment system.