



The EMR-Telemetry News
Sarasota, Florida

Vol. IV, No. 6

8 August 1969

EMPLOYEES WITNESS APOLLO 11 LAUNCH

Many EMR-T employees were caught up in the excitement and activity surrounding the memorable Apollo moon landing in July.

For example, at Cape Kennedy, Joe West was on standby duty with EMR's telemetry-computer system from Saturday through Thursday, July 12-17. The EMR-Computer Technical Support Engineer, stationed at EMR-T in Sarasota, reports the EMR system performed all of its assignments satisfactorily through countdown and up to nine minutes after launch and first orbit.

This EMR system handled telemetry data from the Lunar Excursion Module and the Command Module, including data on the Astronauts' pulse, blood pressure and respiration. Joe had an excellent view of the launch from a third-floor window of the Manned Space Operations Building.

With the VIP's

Among the VIP's at the Cape for the launch were Mr. Jean Riboud, President of Schlumberger, Ltd.; Mr. Ame Vennema, Chairman of the Schlumberger Executive Committee, and Mr. Jerome Seydoux, a member of the Schlumberger Board of Directors.

Others from Sarasota, in addition to Joe West, included members of our Southern

(Continued on Page 4)

COMPLEX-SHAPED SYSTEM TO MONITOR EFFECTS OF RADIATION TESTING



These unusual-shaped cassettes are part of a Multipoint Scanner-Encoder system EMR-Telemetry has designed and built for The Boeing Company's Aerospace Group, Seattle, Washington. The system will be used in a nuclear testing application called Project Minute Steak.

Acceptance testing of the system took place in Sarasota during July. Pictured above with the cassettes are Engineers Harvey Eisen, of Harry Diamond Labs; Bob Hines (EMR-T) and Doug Millward of The Boeing Company.

The EMR-Telemetry system will monitor the continuity of several thousand semiconductor devices before and after exposure to nuclear radiation. Special cassettes and electronic housings were designed here and fabricated by our Model

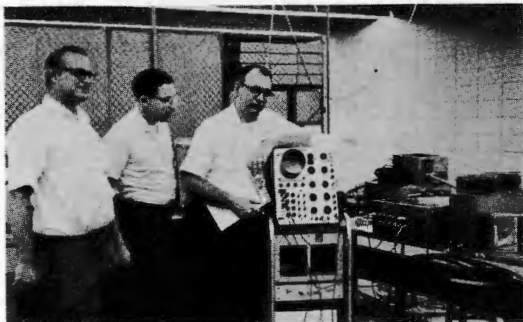
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COMPLEX-SHAPED SYSTEM TO MONITOR EFFECTS OF RADIATION TESTING

(Continued from Page 1)

Shop. Complex assembly work was done in Bill Gibson's area in Production. Walter Reed has been managing the project, and the technical team consisted of Engineers Len Zeiler and Bob Hines, Technicians Paul Weller and Don Jones.

The EMR system was shipped on schedule to Boeing last month.



In this photo, Len Zeiler (EMR-T), Dale Dann and Jim Wallace, both of The Boeing Company, review electronics tests during acceptance testing of the EMR-T system.

TWO SOFTBALL SEASONS -- ONE ENDS, ONE BEGINS

EMR-T's Men's Softball Team wound up the season in third place in the Western Division of the City Slow Pitch League with a record of 12 wins and 11 losses. Our men were neck-and-neck for the leading spot, or for second place, right down to the wire in a very close finish.

Ladies Can Play

Bulletin Board notices have been posted calling for women players for the forthcoming women's softball league which begins early in September. Eligible are women employees, wives and daughters (over 16). Call Bob Anderson, Ext. 350, by August 12.

ANNIVERSARY GREETINGS

Listed here are those of our colleagues observing their 3rd, 5th, 7th, 10th (or more) anniversaries of employment during the month of August. A complete list would show 68 EMR-T employees marking August anniversaries. To all, happy anniversary.

<u>1956</u>	Chris Freeberg
<u>1957</u>	W. N. Moody Alice Rollyson
<u>1958</u>	Larry Dunham Pervis Sanders
<u>1959</u>	Wyatt Bishop Don Bolt Romagne Growden Carmen Ireson Ethel Ray Dorothy Watson
<u>1962</u>	James D. Adams Betty Austill Karen Bailey Wilma Baldwin Dale Hefke Bertha Koon Ernelda Kragel Alyene McCoy Jo Morrison Bob Nicolazzo Ty Rigdon Nea Valeria Bill Wheeler
<u>1964</u>	Royal Bechtold Jack Cain
<u>1966</u>	Jeanette Babbitt Jim Horvath Sherry Ogles Bruno Stillo Ron Vander Vliet

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

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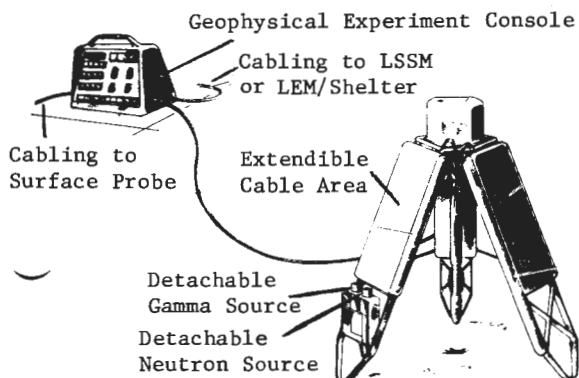
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EMR LUNAR PROBE STUDY DESCRIBED ON TV SHOW

Soon after the Apollo 11 Astronauts left the moon's surface, a New York City TV audience heard an EMR-T employee tell about work done by EMR and Schlumberger Well Services for a future Lunar Subsurface Probe system.

William N. Waggener, Principal Engineer in Systems, went before the TV cameras at WOR-TV, Channel 9, in New York City, for an interview with a WOR-TV newscaster on Wednesday, July 23. In the ten-minute question and answer session, Bill told about the Lunar Probe Study work done at EMR-Telemetry, SWS, and Schlumberger Research Labs for NASA for possible use in an advanced Apollo or post-Apollo moon mission.

The EMR/SWS Lunar Geophysical Study involved a subsurface probe system designed to obtain selenophysical information from two-inch holes drilled 200 feet below the surface of the moon. One subsurface probe is to obtain measurements of thermal and electrical properties deep inside the surface of the moon. Another probe uses nuclear techniques to determine the moon's subsurface characteristics. Subsurface deployment of the probes would send the probes to depths of ten feet and 200 feet. A surface probe unit is designed to make surface measure-



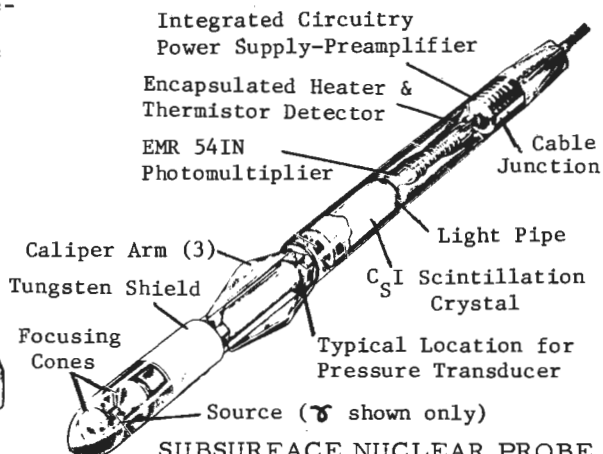
LUNAR DEPLOYMENT UNIT

ments that may be correlated with the subsurface measurements. The thermal probe is to be left in the lunar borehole to transmit temperature data back to earth for at least 14 days after the astronauts have left.

The three-volume final report of the EMR/SWS Lunar Geophysical Surface and Subsurface Probe Study was delivered to NASA's George C. Marshall Space Flight Center in June, 1966. However, NASA budgetary requirements have delayed scheduling of this lunar subsurface probe mission.

Hardware mock-ups were also delivered to the customer for use in operational and human factors studies. These mock-ups were borrowed from NASA, and Bill was able to show them during his recent TV appearance, along with a basaltic lava specimen believed to have properties similar to those of the lunar surface. Incidentally, he has a tape of the audio portion of the show.

While in New York, Bill was also interviewed by reporters for several technical magazines through arrangements made by EMR's public relations firm, Hill and Knowlton, Inc.



SUBSURFACE NUCLEAR PROBE

EMPLOYEES WITNESS APOLLO 11 LAUNCH

(Continued from Page 1)

Sales Area staff. Cal Morton and Harry Johnson were at the Cape, while Doug Dinnes viewed the blastoff from nearby Cocoa.

Many individual employees made the trip to the Cape area to watch the launch from bridges, beaches, and other vantage points: Bill Thompson watched the big bird from a boat in the Indian River; Gerry Flewelling saw it from the Cocoa Causeway, and Chuck Saffell from the beach.

Local Radio Show

John Talbot, Manager of Advertising and Sales Promotion, was interviewed over Radio Station WSPB, Sarasota, on the subject of EMR and our role in Apollo and other space programs. The half-hour program was broadcast on the Sunday afternoon before the Apollo 11 launch.

D. E. RIEMER TO ADDRESS MICROELECTRONICS GROUP

Engineer Dietrich Riemer, of EMR-T's Microelectronics Lab, is scheduled to address a meeting of the Southeast Chapter of the International Society for Hybrid Microelectronics in Orlando next Friday, August 15.

In his talk, Dietrich will emphasize the need for suppliers to improve their specifications for inks used in thick film production. His talk proposes specific parameters which should be published so that users, including EMR-T's Microelectronics Lab, will have ready access to the vital specifications and other required data, and save on expensive in-house evaluation.

Lake D. Brown, head of our Microelectronics Lab, is Vice President of the Southeast Chapter of ISHM. Others from EMR-T who will attend the Orlando meeting include: Gene Baker, Gene Harbert, and Jim Bicknell.

EMR-COMPUTER TO HAVE NEW SALES OFFICE HERE

A new Florida District Sales Office for EMR-Computer, Minneapolis, will soon be open here in Sarasota at the EMR-T plant.

The EMR-Computer office will be staffed by Randy Williams, Florida District Sales Manager, and Edward Stucky, Florida District Analyst. Office space is now being prepared for their use in the Administration Building.



At left,
Randy
Williams



Right,
Edward
Stucky

The EMR-Computer staff will serve a large area including Florida, Georgia, Alabama, Tennessee, North and South Carolina. Location of the new EMR-C District Office in Sarasota will enhance coordination and cooperation between the two EMR facilities in telemetry-computer sales.

This new EMR-C Florida District Office is part of the Southern Region, with headquarters at Houston headed by Regional Manager Dom Bitetti.

NEW TELEMETER READY

Hot off the press and ready for distribution to some 5000 professionals in the telemetry business and related fields is the latest issue of The EMR Telemeter. The publication has won a wide audience in our industry. The current issue, Number 7, deals with RF Transmission. The Telemeter is the combined product of several areas—the technical know-how of our Engineers; editorial and art work by our Advertising and Sales Promotion staff; printing and distribution by our Reprographics area, with the computerized address-label service provided by Accounting's Data Processing Department.