

RECOVER SIGNALS FROM NOISE WITH P.A.R. LOCK-IN AMPLIFIERS



The P.A.R. Lock-In Amplifier Systems provide the *theoretically optimum technique* for measuring extremely weak signal intensities in the presence of noise. They are universal narrow band coherent detectors and include: high Q continuously tunable selective amplifiers, phase sensitive detector, d.c. amplifier, selective d.c. filtering, continuous phase control, signal modulating oscillator, meter monitor and recorder drive circuits.

Two completely transistorized models covering a frequency range from 1.5 cps to 150 kc are available and are specified in our Bulletin 108. To acquaint those interested in the application of the Lock-In technique to experimental situations, we are also offering our Application Bulletin 109. Write to:

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NEWS AND COMMENT

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nies—L. E. Root heads Lockheed Missiles and Space Company and Thomas V. Jones is president of Northrop. Joseph A. Kershaw is provost of Williams College, and John L. Kennedy is head of the psychology department at Princeton. Charles J. Hitch, Assistant Secretary of Defense (comptroller), has played a prominent part in the McNamara regime, and in the Defense Department there are four deputy assistant secretaries with RAND in their backgrounds. Herman Kahn, author of *On Thermonuclear War*, who presides over the Hudson Institute, is perhaps the best known of the numerous former RAND staff members who have gone on to found or join other non-profits or consulting firms.

RAND has had critics, mainly in the universities, who feel it is full of scholars obsessed with nuclear warfare. It also has its critics, mostly in the military, who think that RAND is too much like a university, and that too much detachment is dangerous.

RAND is like a university in some ways, but it is also like government and like industry in others, and it has something quintessential of its own thrown in. As a new kind of institution it filled a need created by events, and—to paraphrase Voltaire—if RAND did not exist it would be necessary to invent it.

But RAND is changing as the problems of American security and the role of the Air Force alter; these changes will be discussed in another article in this space.—JOHN WALSH

Announcements

Overseas Educational Service (OES) was formed recently under the sponsorship of the National Academy of Sciences, the American Council on Education, and Education and World Affairs. Plans call for the new organization to supplement the efforts of other agencies which are recruiting American personnel for developing areas and, eventually, to serve as a central clearinghouse for American agencies and for representatives of educational institutions in the new nations. John Scott Everton, former U.S. ambassador to Burma, is executive director of the organization. Information on OES is available through its headquarters, 522 Fifth Ave., New York 10036.

A 2-year program in **laboratory animal medicine** has been established at Tulane University's medical school. It is open to persons who hold a doctor's degree in veterinary medicine, and will lead to the master's degree in public health. Participants will be encouraged to develop research projects, with emphasis on the detection and control of laboratory animal diseases, and experimental design. Kenneth F. Burns, professor and chairman of Tulane's department of vivaral science and research, will direct the program.

Scientists in the News

Hasmukh J. Mehta, assistant professor of anatomy at Western Reserve University, has been appointed professor and chairman of the department of anatomy in the recently organized St. John's Medical College, Bangalore, India, which is scheduled to open in July. He has been in charge of gross anatomy studies in the Western Reserve's dentistry school during the past year.

Paul R. Peabody, formerly supervisor of applied mathematics at the Jet Propulsion Laboratory, has been appointed manager of the new department of mathematical analysis at Computer Sciences Corporation, a data processing service organization in Los Angeles, Calif.

Earl R. Parker, professor of metallurgy and director of the Institute of Engineering Research at the University of California, Berkeley, has been named to receive the 1964 Albert Sauveur achievement award from the American Society for Metals. The prize, in recognition of "pioneering metallurgical achievements which have stimulated organized work" that has furthered knowledge in basic metallurgy, will be presented during the society's meeting in October.

Don D. Bushnell, a senior staff member of the System Development Corporation, has been elected president of the Association for Educational Data Systems.

Victor T. Tomberg, formerly with Kollsman Instrument Corp., New York, has been appointed senior research associate in the research department of neurosurgery, at the medical school of New York University.