

af-finity

FOR FORWARD THINKING IN MAGNETIC MEMORY DEVELOPMENT

...using multi-aperture core techniques, for instance, or thin magnetic films?

UNIVAC-Twin Cities is a leading pioneer in both areas. The fastest ferrite memory system yet devised was developed here. Continuing laboratory research constantly nourishes our design and development efforts, revealing, for example, not only the "hows" but the "whys" of multi-aperture ferrite core behavior.

A recent exploitation of this knowledge at UNIVAC is an analog magnetic storage device—a practical application of time-limited, partial-switching representing significant technical progress in the field of simplified analog recording through the use of discrete magnetic elements. Transient effects are received as analog data and stored for later read-out. Just one application is storage of radiation effects of underground nuclear testing. New ones are being studied.

Several other funded, advanced development programs are underway. They too require pushing the state of the art to meet new goals in size, speed, reliability, and manufacturability. Write us at once if your experience has prepared you for such an effort. Address Mr. R. K. Patterson, Dept. A-38, UNIVAC Division of Sperry Rand Corp., Univac Park, St. Paul, Minn. 55116. An Equal Opportunity Employer.

UNIVAC
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The Eighth Annual Institute for Theoretical Physics will take place at the University of Colorado in Boulder from June 14 to August 20. Embracing the area of nuclear structure and reactions, the Institute will also include symposia on solid-state physics during the period June 14-25, and on strong interactions and elementary particles from August 9 to 20. The University's Department of Physics and Astrophysics will offer one or two graduate courses, given during the session by visiting lecturers.

Attendance at the Institute is open to all qualified persons, with no fees or registration required, and several postdoctoral and predoctoral stipends are available. Applicants for stipends (deadline Feb. 15) are requested to send a transcript and curriculum vitae along with two letters of recommendation to Dr. Wesley Brittin, chairman, Department of Physics and Astrophysics, University of Colorado, Boulder, Colo.

The Pennsylvania State University, through its College of Engineering and Continuing Education Services, has scheduled thirteen seminars for the summer of 1965.

Those likely to be of interest to physicists include experimental study of surface topology (June 13-16), nonlinear vibrations (June 13-18), viscoelasticity and mechanical properties of polymers (June 20-25), wave propagation in solid media (June 20-25), vibration and vibration damping (June 27-July 2), laser machining and welding (June 28-29), underwater acoustics (July 4-9), fluid control systems (July 6-16), and acoustics and noise control in buildings (Aug. 15-20).

Further information on the above seminars can be obtained from the Continuing Education Conference Center, The Pennsylvania State University, University Park, Pa.

An electronics course for college teachers and laboratory scientists will be offered by Princeton University from June 27 to July 16. Headed by Prof. Christie G. Enke of Princeton's Chemistry Department, the program will stress a working understanding of electrical measurements and elec-

tronic circuitry, as well as practical knowledge of servo systems, operational amplifiers, and digital timing and counting circuits. Tuition and support for participants who are college and university teachers will be provided by the National Science Foundation.

Further information and application forms (the deadline is February 8) can be obtained from Parker L. Coddington, Administrative Director of Summer Studies at Princeton University, Princeton, N.J.

Biophysics

The ten-year old Committee on Biophysics at the University of Chicago has been raised to full status as the Department of Biophysics in the University's Division of the Biological Sciences. The formal teaching of biophysics began at the University of Chicago shortly after World War II, with a faculty drawn from various departments in the biological and physical sciences. In 1954, a Committee on Biophysics was created with three full-time faculty members and one part-time, who subsequently developed an academic program leading to the doctoral degree. The Department of Biophysics now has eight full-time faculty members. These include Raymond R. Zirkle, chairman, William Bloom, John R. Platt, Humberto Fernández-Morán, Robert B. Uretz, E. Peter Geiduschek, Edwin W. Taylor, and Robert Haselkorn. Part-time members include H. Stanley Bennett and Herbert Landahl.

Departmental programs

Plans to establish a graduate program in health physics have been announced by Texas A & M University in College Station, Tex. Initially, the program will be directed toward MS and PhD degrees in nuclear engineering with emphasis on health physics. Much of the curriculum that is required of nuclear engineering students will also be required of the health physics students. Areas of research will include dosimetry, radiation effects, radiation biophysics, environmental evaluations, reactor shielding, and hazards analysis. Exist-