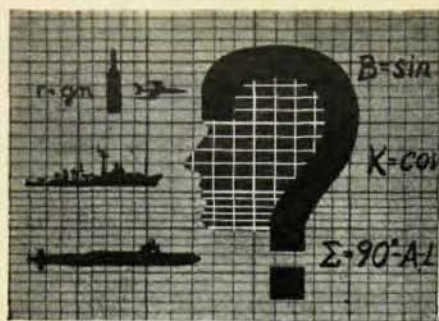




## PROFILE OF A CNA PROFESSIONAL

A CNA analyst is a professional of superior competence. He may be a mathematician, a physical scientist, an economist, or a research engineer.

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CNA professionals work on current operational problems with the Operations Evaluation Group; on problems of cost effectiveness and force requirements of the mid-range future with the Naval Warfare Analysis Group; on studies of naval problems of the long-range future with the Institute of Naval Studies; or on parametric studies or development of new methodologies in CNA's Research Group.

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## MEETINGS

### *Belfer Graduate School*

The third annual science conference of Yeshiva University's Belfer Graduate School of Science will take place on November 16 and 17, 1964, at the Hotel Astor in New York City.

The speakers for the physics sessions, which will be held on the 16th, will be W. A. Fowler, P. A. M. Dirac, C. H. Townes, and R. Serber, under the chairmanship of R. R. Wilson and S. Treiman. The mathematics sessions will be held the following day, chaired by R. L. Wilder and D. Montgomery, with lectures by N. Jacobson, H. Chandra, L. Nirenberg, and I. M. Singer. Admission is free and all sessions are open to the public.

Further information can be obtained from Dean A. Gelbart, Belfer Graduate School of Science, Yeshiva University, Amsterdam Avenue and 186th Street, New York 33, N.Y.

### *Fluid Dynamics*

The American Physical Society's Division of Fluid Dynamics will meet November 23 to 25, 1964, at the California Institute of Technology. The meeting will cover various aspects of the physics of fluids, including hydrodynamics, dynamics of compressible fluids, equilibrium and nonequilibrium statistical mechanics, shock and detonation waves, rarefied gases, flows of suspended particles, hypersonic physics, magnetofluid dynamics, ionized-fluid and plasma flow, plastic flow, boundary-layer and turbulence phenomena, and geophysical and medical fluid dynamics. Special emphasis will be placed on turbulence structure, nonlinear waves, interaction of radiation with flows, geophysical circulations, and new experimental techniques in fluid dynamics. Two-hundred-word abstracts of contributed papers, prepared in accordance with the rules printed in any recent APS *Bulletin*, should be sent by October 16, 1964, to Dr. Julian D. Cole, Graduate Aeronautical Laboratories, California Institute of Technology, Pasadena, Calif. Room reservations are to

be made directly to the Huntington-Sheraton Hotel in Pasadena, specifically mentioning the Division's meeting.

Further information can be obtained from Prof. Raymond J. Emrich, Department of Physics, Lehigh University, Bethlehem, Pa.

### *IPPS*

The British Institute of Physics and the Physical Society has announced the details of a meeting it will hold from January 5 to 8, 1965, on solid-state physics at the H. H. Wills Physics Laboratory at the University of Bristol. Contributions on any current topic of solid-state physics will be considered, and, in addition, there will be the following invited lectures: (1) the international conference on the physics of semiconductors held in Paris in the summer of 1964, (2) the crystallinity of high polymers in the light of recent advances, (3) the band structure of the transition metals and its effect on their physical properties, and (4) zeroth order model of a metal. Two-hundred word abstracts, in triplicate, should be sent by November 20, 1964, to Dr. D. A. Greenwood, H. H. Wills Physics Laboratory, Royal Fort, Bristol, 8, England.

Additional information and the necessary abstract and registration forms can be obtained from the Administration Assistant, The Institute of Physics and the Physical Society, 47 Belgrave Square, London SW 1, England.

### *Accelerators*

The Nuclear Science Group of the Institute of Electrical and Electronics Engineers, the National Bureau of Standards, the American Institute of Physics, the American Physical Society, the National Aeronautics and Space Agency, and the Atomic Energy Commission will sponsor a national conference on particle accelerators in Washington, D.C., from March

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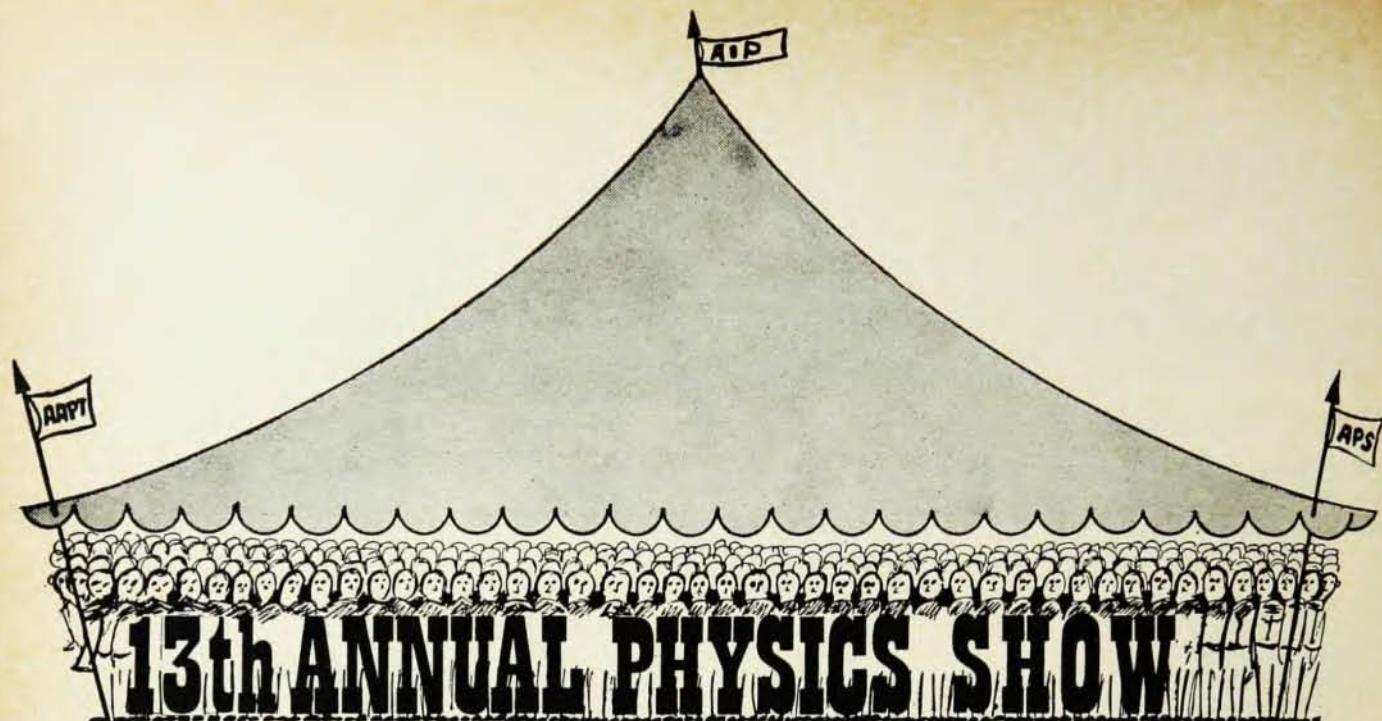
Palo Alto, August 1. During the past week 55 kilogauss fields have been obtained in a superconducting split-coil solenoid designed by Varian engineers.

The Niobium-Zirconium coils are separated 1/2-inch, allowing transverse access to the 1-inch diameter solenoid bore. The split-coil assembly achieves homogeneity of approximately 4% over a 1/2-inch sphere. Tests are continuing on split-coil solenoids which provide still higher magnetic field performance.



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### AUDIENCE

Over five thousand physicists and research specialists—members of the American Physical Society and the American Association of Physics Teachers. Over five hundred technical papers to be presented.

10 to 12, 1965. The program, consisting of both invited and ten-minute contributed papers, will deal with the engineering problems of accelerators and related devices, and will provide an opportunity for discussion of current problems in accelerator technology.

Original contributions may be submitted on any aspect of the following topics: (1) ion sources, injection, and injectors; (2) high-power rf sources and systems; (3) accelerating structures; (4) beam interactions; (5) accelerator magnets and power supplies; (6) high-voltage breakdown; (7) accelerator operation and automation systems; (8) accelerator alignment; (9) handling of high-intensity beams, including transport, switching, sensing, and monitoring; (10) induced radioactivity and remote handling; and (11) other topics related to the design, operation, or utilization of accelerators.

Abstracts (100-300 words) are due by December 1, and should be sent with any other inquiries regarding the meeting to Dr. R. S. Livingston, Chairman, Particle Accelerator Conference, Oak Ridge National Laboratory, PO Box X, Oak Ridge, Tenn.

### **Pulsed Neutrons**

The International Atomic Energy Agency will hold a symposium on pulsed-neutron research from May 10 to 13, 1965, in Karlsruhe, Federal Republic of Germany. The provisional session topics include (1) instrumentation for pulsed-neutron experiments, (2) experiments on nonmultiplying systems, (3) experiments on thermal and epithermal multiplying systems, (4) experiments on fast and intermediate systems, (5) neutron thermalization—neutron spectra, (6) theoretical interpretation of pulsed-neutron phenomena, and (7) other pertinent topics. Abstracts, 250 to 350 words, are due by January 4.

All correspondence regarding the meeting should be sent to John H. Kane, Chief, International Conferences Branch, Division of Special Projects, Atomic Energy Commission, Washington, D.C. 20545.

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