MEETINGS

Institute of Radio Engineers

MORE than 7 x 10^4 engineers and scientists from forty countries are expected to gather in New York for the 1961 International Convention of the Institute of Radio Engineers, which will be held March 20 to 23 at the Waldorf-Astoria Hotel and the New York Coliseum. The most recent developments in the areas of interest to all 28 IRE professional groups will be covered in 275 papers to be presented in 54 sessions at the Waldorf-Astoria and the Coliseum. A special symposium on new energy sources will be held Tuesday evening, March 21, at the Waldorf. Some of the latest electronic equipment (valued at about $15 million) will be displayed by 850 exhibitors at the IRE show, which will fill all four floors of the Coliseum.

Further information can be obtained from the IRE, 1 East 79th Street, New York 21, N. Y.

Quantum Electronics

THE second international Conference on Quantum Electronics will be held March 23–25 in Berkeley, Calif., under the sponsorship of the Office of Naval Research. Topics will include methods for the generation of millimeter and shorter waves, coherent sources and amplifiers (high-frequency masers, irasers, lasers), and fundamental studies of materials and techniques suitable for the high frequencies. Individuals active in research who may wish to attend should write to the conference chairman, Prof. J. R. Singer, Department of Electrical Engineering, University of California, Berkeley 4, Calif.

Science Teachers

PROBLEMS faced by science teachers in keeping abreast of new developments in science and changing methods of science teaching will be dealt with by the Ninth Annual Convention of the National Science Teachers Association under the theme "The Science Teacher: Seeking Excellence in an Age of Science". The meeting place will be Chicago's Hotel Sherman, the dates are March 24–29.

Six general sessions will be held with the following speakers and topics: (1) Henry C. Eyring, dean of the University of Utah Graduate School, on "Recent Fundamental Discoveries in the Physical Sciences" and James F. Crow, head of the Department of Medical Genetics, University of Wisconsin, on "Recent Fundamental Discoveries in the Biological Sciences"; (2) Hugh Odishaw, executive director of the US National Committee for the International Geophysical Year, on "International Teamwork in Science" and Abraham Raskin of Hunter College, on NSTA's international role; (3) "The Nature of the Scientific Enterprise" by Paul E. Klopsteg, chairman of the AAAS Board of Directors; (4) Joseph J. Schwab of the University of Chicago on "The Nature of the Educational Enterprise in This Scientific Age"; (5) Nobel laureate Glenn T. Seaborg of the University of California on "The Science Teacher as an Agent in the Educational Enterprise"; and (6) James E. Russell, secretary of the Educational Policies Commission of the National Education Association and the American Association of School Administrators, on "Education for Our Democratic Enterprise".

For additional information, write to NSTA, 1201 16th St., N.W., Washington 6, D. C.

Nuclear Flight Propulsion

NUCLEONICS in Flight is the topic of a national symposium sponsored by North Texas Section of the American Nuclear Society which will be held at the Statler-Hilton Hotel in Dallas, March 28 and 29. Participants (including Brig. Gen. Irving L. Branch, assistant deputy chief of staff for Nuclear Systems; Harold B. Finger, manager of the AEC-NASA Nuclear Propulsion Office; and Miles C. Leverett, president of the American Nuclear Society and manager of the Development Laboratories in General Electric's Aircraft Nuclear Propulsion Department) will discuss the following topics: reactors for flight propulsion, concepts of space nuclear power, radiation effects and damage in flight systems, shielding in nuclear propulsion, and nuclear safety in flight systems. Only unclassified information will be presented. Persons interested in attending should contact Eldred L. Burkhard, Chairman, North Texas Section, American Nuclear Society, Convair, Fort Worth, Texas.

Combustion Institute, Western States Section

SHOCK and detonation phenomena at very low pressures, reaction phenomena in metastable media, phase kinetics at high temperatures, and characterization of nonequilibrium systems, as well as other topics of general interest on the subject of combustion, will be presented at the 1961 spring meeting of the Western States Section of the Combustion Institute. The group will convene April 10 and 11 at Aeronutronic, a Division of Ford Motor Company, located in Newport Beach, Calif.

The meeting will include prepared discussions on selected groups of papers, and adequate time will be allowed for extemporaneous discussion. To stimulate discussion, it is planned to mail preprints to advance registrants prior to the meeting. For additional information contact the secretary, Mr. Gilbert S. Bahn, 16902 Bollinger Drive, Pacific Palisades, Calif.

The section has also announced that it would like to establish a roster of Institutional Representatives to

provide for circulation of its meeting announcements, *Newsletter*, etc. Persons interested in participating should write to the membership chairman, Mr. H. B. Ellis, 937 Inverness Drive, Pasadena 3, Calif.

Organic Semiconductors

REPORTS of work being done on organic semiconductors at various laboratories throughout the United States will be presented at a conference to be held April 18 and 19 at the Morrison Hotel in Chicago. It will be cosponsored by Armour Research Foundation and *Electronics* magazine. Plans for the conference were formulated by James J. Brophy, assistant director of physics research at ARF, and W. W. McDonald, editor of *Electronics*, who will serve as cochairmen. John W. Buttrey, supervisor of solid-state physics at ARF, is the program chairman.

The program will include discussions of organic semiconductor physics and devices, molecular crystals, charge transfer complexes, pyrolyzed polymers, photoconductivity, electrical and thermal transport, and surface and contact effects. Inquiries concerning the conference should be sent to Dr. Brophy at the Armour Research Foundation, 10 W. 35th St., Chicago 16, Ill.

Telemetry

SCIENCE and Education in Telemetry is the theme of the 1961 National Telemetering Conference, which is scheduled to take place May 22–24 at the Sheraton Towers Hotel in Chicago. This annual symposium is designed to bring together representatives of industry, education, and government to discuss new developments and techniques concerning practice and theory of telemetry, and to view the latest commercially available equipment. It is sponsored by the American Institute of Electrical Engineers, the American Rocket Society, the Institute of the Aerospace Sciences, the Institute of Radio Engineers, and the Instrument Society of America.

The tentative program includes fifteen sessions on the following topics: a workshop on telemetry standards, transducers, advanced system techniques, data processing and presentation, signal conditioning, biomedical telemetering, environmental measurements, a workshop on telemetry education in the 60's, reliability, PCM systems, underwater measurements, RF components and techniques, flight test data systems, transistorization progress, and industrial data transmission.

Correspondence with regard to the NTC program should be directed to the program chairman, Mr. Jack Becker, Dept. 32-29, AC Spark Plug Division, General Motors Corporation, Milwaukee 1, Wisc.

Vacuum Metallurgy

FEBRUARY 15 is the deadline for submission of two-page summaries on new research and advanced engineering information to be presented before the fifth annual Conference on Vacuum Metallurgy. The conference will be held June 26–27 at the University Heights