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in the fields of space vehicle power and propulsion

The Propulsion and Power Systems Department (for Aerospace Vehicle applications) has several unusually interesting openings for engineers and scientists who are interested in the fields of space vehicle power and propulsion. The openings are at all levels of experience—from recent graduates to the senior staff level. Most of the positions will involve design and analysis of power and propulsion systems for satellite and space probe application. Specifically, some of the areas of specialization are:

1 SPACE POWER SYSTEMS

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2 SPACE PROPULSION SYSTEMS

The positions will involve the preliminary and conceptual design and comparative analysis of all types of chemical and electric propulsion systems.

3 PROGRAM MANAGEMENT

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CALENDAR

Meeting announcements intended for inclusion in the calendar should be submitted at least eight weeks before meetings are to take place. Send notices to Physics Today, 335 East 45th Street, New York 17, N. Y.

• denotes first appearance of announcement

▲ denotes change in information published in previous listing

1963

March

- 25-26 Computing Methods in Crystallography (IBM Labs, Yorktown Hts., N. Y.) spon's'd by **American Crystallographic Assoc.**; N. M. Walter, Research and Development Div., American Viscose Corp., Marcus Hook, Pa.
- 25-27 **Optical Society of America** (Robert Meyer Hotel, Jacksonville, Fla.); Mary Wurga, OSA, 1155 16th St., N.W., Washington 6, D. C. (See Dec. '62 PT, p. 96)
- 25-28 **American Physical Society** (St. Louis); K. K. Darrow, 538 W. 120 St., New York 27, N. Y.
- 25-28 **APS Division of Solid-State Physics** (St. Louis), in connection with general APS meeting; J. S. Smart, IBM Research Center, Yorktown Hts., N. Y.
- 25-28 **APS Division of Chemical Physics** (St. Louis), in connection with general APS meeting; J. C. Decius, Oregon State U., Corvallis, Ore.
- 26-28 **APS Division of High-Polymer Physics** (St. Louis), in connection with general APS meeting; F. P. Price, Research Labs, GE Co., PO Box 1088, Schenectady, N. Y.
- 28-29 Electron-Beam Technology (Hotel Sheraton Plaza, Boston); J. R. Morley, Allied Electronics Corp., 35 Cambridge Parkway, Cambridge 42, Mass.
- 28-30 **American Crystallographic Association** (MIT); B. Post, Brooklyn Polytechnic Inst., Brooklyn 1, N. Y.
- 30 **APS New England Section** (Harvard U.); G. Bolton, Harvard U., Jefferson Physical Lab, Cambridge 38, Mass.

April

- 4-6 **APS Southeastern Section** (Knoxville); H. Carr, Auburn U., Auburn, Ala.
- 10-11 Engineering Aspects of Magneto-hydrodynamics (U. of California, Berkeley) spon's'd by American Inst. of Electrical Engrs.; G. W. Sutton, GE Space Sciences Lab, King of Prussia, Pa.
- 15-17 Reactions Between Complex Nuclei (Asilomar, Calif.) spon's'd by **American Physical Soc.**; A. Ghiorso, Lawrence Radiation Lab, U. of Calif., Berkeley 4, Calif. (See Jan. PT, p. 108)
- 15-18 Thin Films for Electronic Application (Pittsburgh) spon's'd by Electrochemical Soc.; H. S. Sommers, Jr., RCA Labs, David Sarnoff Research Center, Princeton, N. J. (See Jan. PT, p. 108)
- 16-18 Optical Masers (New York City) spon's'd by Polytechnic Inst. of Brooklyn, **Optical Soc. of America**, Inst. of Radio Engrs., American Inst. of Electrical Engrs., government agencies; Symp. Committee, Polytechnic Inst. of Brooklyn, 55 Johnson St., Brooklyn 1, N. Y. (See Dec. '62 PT, p. 98)

- 17-19 Institute of Environmental Sciences Technical Meeting and Equipment Exposition (Statler Hilton Hotel, Los Angeles); W. A. Gardner, Org. 7300, Sandia Corp., Albuquerque, N. W.
- 17-19 Sorption Properties of Vacuum-Deposited Metal Films (U. of Liverpool) spon's'd by Inst. of Physics and Physical Soc., Joint British Committee for Vacuum Sciences and Technology; Inst. of Physics and Physical Soc., 47 Belgrave Sq., London S.W.1, England (See Oct. '62 PT, p. 100)
- 17-19 Nonlinear Magnetics (Shoreham Hotel, Washington, D. C.) spon's'd by Inst. of Radio Engrs., American Inst. of Electrical Engrs.; H. F. Storm, 1 River Rd., Bldg. 37, GE Co., Schenectady, N. Y. (See Aug. '62 PT, p. 86)
- 17-20 **American Astronomical Society** (U. of Arizona and Kitt Peak Observatory); G. C. McVittie, U. of Illinois Observatory, Urbana, Ill.
- 18-20 Stereology (Vienna) spon's'd by Internat'l Soc. for Stereology; K. H. Spitz, Viennese Acad. of Medicine, Alsterstr. 4, Vienna 9, Austria (See Sept. '62 PT, p. 104)
- 18-20 **APS New York State Section** (Schenectady); Mrs. Frank L. Gill, Union College, Schenectady 8, N. Y. (See Feb. PT, p. 98)
- 19-20 **AAPT Central Penna. Section** (Lebanon Valley College, Annville); R. I. Weller, Franklin and Marshall College, Lancaster, Pa.
- 20 **AAPT Southern Calif. Section** (Occidental College, Los Angeles); H. J. Haden, Glendale College, Glendale 8, Calif.
- 21-24 Rare Earths (Grand Bahama I.); K. S. Vorres, Dept. of Chemistry, Purdue U., Lafayette, Ind. (See Dec. '62 PT, p. 100)
- 22-23 Inert-Gas Compounds (Argonne Nat'l Lab); H. H. Hyman, ANL, 9700 S. Cass Ave., Argonne, Ill.
- 22-25 Weather Radar (Washington, D. C.) spon's'd by American Meteorological Soc. and US Weather Bureau; S. G. Bigler, Radar Unit, US Weather Bureau, Washington 25, D. C. (See Sept. '62 PT, p. 104)
- 22-25 **American Physical Society** (Washington, D. C.); K. K. Darrow, 538 W. 120 St., New York 27, N. Y.
- 23-25 Electronic Processes in Dielectric Liquids (U. of Durham) spon's'd by Inst. of Physics and Physical Soc.; 47 Belgrave Sq., London S.W.1, England (See Sept. '62 PT, p. 104)
- 25-27 Physical Society of Württemberg, Baden, and Pfalz (Tübingen), with Special Committee on High-Frequency Physics; H. Ebert, Physikalische-Technische Bundesanstalt, Bundesallee 100, Braunschweig, Germany
- 29 The Organic Solid State (Franklin Inst. Labs); M. M. Labes, Franklin Inst. Labs, 20th St. and The Parkway, Philadelphia 3, Pa.
- 29-30 Combustion Institute Western States Section (San Diego); Secretary, Combustion Inst., 16902 Bollinger Dr., Pacific Palisades, Calif.

May

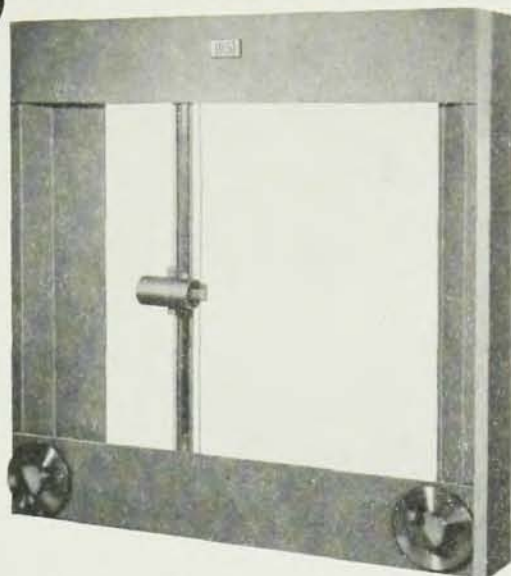
- 1-2 Advances in Polymer Science and Technology (London) spons'd by British Plastics Inst., Soc. of Chemical Industry, Inst. of Rubber Industry: *J. N. Ratcliffe, Plastics Inst., 6 Mandeville Pl., London W.1, England* (See Sept. '62 PT, p. 106)
- 2 The Manned Space Laboratory (Statler-Hilton Hotel, Los Angeles) spons'd by American Rocket Soc., Aerospace Medical Assoc.: *ARS, 500 Fifth Ave., New York 36, N. Y.*
- 11 AAPT Western Penna. Section (Seton Hill College, Greensburg): *A. J. Kozora, Duquesne U., Pittsburgh 19, Pa.*
- 12-15 Single-Crystal Films (Philco Scientific Lab); abstracts deadline Apr. 15: *M. H. Francombe, Philco Scientific Lab, Blue Bell, Pa.*
- 15-18 Acoustical Society of America (New York City): *H. F. Olson, Radio Corp. of America, Princeton, N. J.* (See Feb. PT, p. 98)
- 17-18 Surface Physics (Washington State U.) spons'd by Washington State Physics Dept.: *E. E. Donaldson, Dana Hall, WSU, Pullman, Wash.*
- 19-24 Mass Spectrometry (San Francisco) spons'd by American Soc. for Testing and Materials: *N. D. Coggeshall, Gulf Research & Development Co., PO Drawer 2038, Pittsburgh 30, Pa.* (See Nov. '62 PT, p. 100)
- 20-22 Professional Group on Microwave Theory and Technique (Santa Monica, Calif.) spons'd by Inst. of Radio Engrs.: *A. Clavin, Rantec Corp., Ventura Blvd., Calabasas, Calif.* (See Nov. '62 PT, p. 100)
- 20-23 Mid-America Spectroscopy Symposium (Chicago) spons'd by Soc. for Applied Spectroscopy: *J. E. Forrette, Borg-Warner Corp., Des Plaines, Ill.* (See Oct. '62 PT, p. 100)
- 20-23 Humidity and Moisture (Sheraton-Park Hotel, Washington, D. C.) spons'd by Nat'l Bureau of Standards, US Weather Bureau, American Meteorological Soc., and engineering socs.: *J. W. Morgan, Johnson Service Co., Washington, D. C.* (See Sept. '62 PT, p. 100)
- 21-23 Spring Joint Computer Conference (Cobo Hall, Detroit) spons'd by American Federation of Information Processing Soc.: *Phyllis Higgins, AFIPS, PO Box 55, Malibu, Calif.* (See Oct. '62 PT, p. 102)
- 27-29 Frequency Control (Shelburne Hotel, Atlantic City) spons'd by US Army Electronics Research and Development Lab: *Headquarters, US Army Electronics Research and Development Lab, Solid State and Frequency Control Div., Ft. Monmouth, N. J.* (See Feb. PT, p. 98)
- 27-31 Application of Large Radiation Sources in Industry (Salzburg) spons'd by Internat'l Atomic Energy Agency: *IAEA, United Nations, New York 17, N. Y.* (See Dec. '62 PT, p. 100)
- 29 Education in Vacuum Science and Technology (Brunel College, London) spons'd by Inst. of Physics and Physical Soc.; send abstracts to *J. C. Pacey, Brunel College, Woodlands Ave., Acton, London, W.3: Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England* (See Nov. '62 PT, p. 102)

June

- 4-6 Radar (U. of Michigan, Ann Arbor) spons'd by U. of Mich. Radar Lab, US Army Project Michigan: *Conf. Dept., Extension Service, 412 Maynard St., Ann Arbor, Mich.* (See Feb. PT, p. 98)

MARCH 1963

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- 4-8 Molecular Interactions in Liquid Phase (Paris) spons'd by French Soc. of Physical Chemistry: *G. Emswiler, Soc. of Physical Chemistry, 10 rue Vauquelin, Paris 5, France*
- 5-6 Vacuum Engineering (Frankfurt/Main) spons'd by European Fed. of Chem. Engrs., European Vacuum Study Circle, Union of German Physical Soc.: *Symp. Secretary, Rheingaullee 25, Frankfurt/Main, Germany*
- 6-9 Canadian Association of Physicists (Laval U., Quebec): *Leon Katz, U. of Saskatchewan, Saskatoon, Canada*
- 10-14 Molecular Structure and Spectroscopy (Columbus), concurrent, with Internat'l Union of Pure and Applied Physics, Internat'l Union of Pure and Applied Chemistry, Internat'l Astronomical Union Triple Commission on Spectroscopy (Columbus): *H. H. Neilsen, Ohio State U., Columbus 10, Ohio (See Feb. PT, p. 100)*
- 11-14 Plasma Space Science (Catholic U. of America, Washington, D. C.) spons'd by Catholic U., Nat'l Aeronautics and Space Admin.; to be preceded by preparatory plasma physics lectures, June 3-10: *C. C. Chang, Plasma Space Science Lab, Catholic U. of America, Washington 17, D. C.*
- 11-14 Health Physics Society (Statler-Hilton Hotel, New York City): *K. K. Brown, Jr., Public Information, HPS, 23 Glendon Rd., Hokokus, N. J.*
- 12-14 Heat Transfer and Fluid Mechanics Institute (California Inst. of Technology): *A. Roshko, Caltech, Pasadena, Calif. (See Oct. '62 PT, p. 102)*
- 13-14 State of Stress in the Earth's Crust (Santa Monica, Calif.) spons'd by Geological Soc. of America: *L. W. Johnson, Rand Corp., 1700 Main St., Santa Monica, Calif. (See Feb. PT, p. 100)*
- 17-18 Process and Extractive Metallurgy (Sheraton Motor Inn, New York City) spons'd by American Vacuum Soc.: *AVS, PO Box 1282, Boston 4, Mass.*
- 17-20 American Nuclear Society (Cincinnati): *ANS, 86 E. Randolph St., Chicago 1, Ill.*
- 17-21 Carbon (University of Pittsburgh) spons'd by American Carbon Committee: *R. A. Friedel, Sixth Carbon Conf., US Bureau of Mines, 4800 Forbes Ave., Pittsburgh 13, Pa. (See Feb. PT, p. 100)*
- 17-22 Physics in General Education (Rio de Janeiro), by invitation, spons'd by Internat'l Commission on Physics Education: *S. C. Brown, ICPE, c/o Mass. Inst. of Technology, Cambridge 39, Mass.*
- 23-28 American Society for Testing and Materials (Chalfonte-Haddon Hall Hotel, Atlantic City): *ASTM, 1916 Race St., Philadelphia 3, Pa.*
- 24-26 American Physical Society (Buffalo): abstracts deadline Apr. 5: *K. K. Darrow, 538 W. 120 St., New York 27, N. Y.*
- 24-27 Nucleon Structure (Stanford U.) spons'd by Nat'l Science Foundation, Office of Naval Research, Air Force Office of Scientific Research, Atomic Energy Commission: *R. L. Hofstadter, Stanford U., Stanford, Calif.*
- 24-28 Thermodynamics and Thermochemistry (Lund, Sweden) spons'd by Internat'l Union of Pure and Applied Chemistry: *S. Sunner, Lund U., Lund, Sweden*
- 24-28 Physico-Chemical Properties of Metal-Ammonia Solutions: 1863-1963 (Lille) spons'd by Faculté Libre des Sciences de Lille, Ecole de Chimie E.H.E.I.: *G. LePoutre, Laboratory of Physical Chemistry, 13, rue de Toul, Lille, Nord, France (See Oct. '62 PT, p. 102)*

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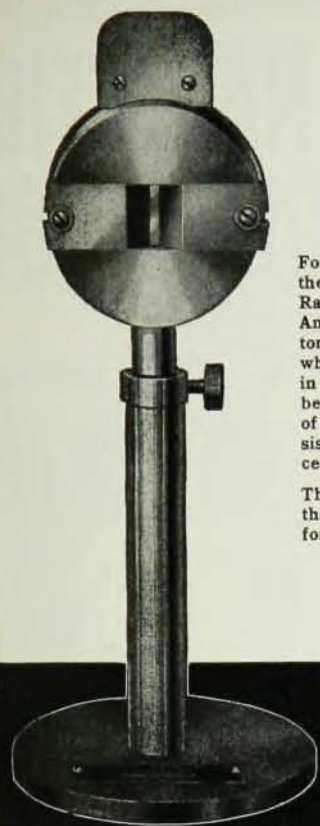
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**Vandaveer, Industrial & Engineering Chemistry, Vol. 22, page 596, June 1930.*

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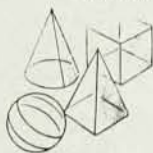


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- 27-28 X-Ray and Electron Probe Analysis (Chalfonte-Haddon Hall, Atlantic City) spons'd by American Soc. for Testing and Materials' Committees on Emission Spectroscopy and Metallography, in conjunction with ASTM annual meeting: ASTM, 1916 Race St., Philadelphia 3, Pa.
- 27-29 American Association of Physics Teachers (U. of Maine): E. U. Condon, Oberlin College, Oberlin, Ohio

July

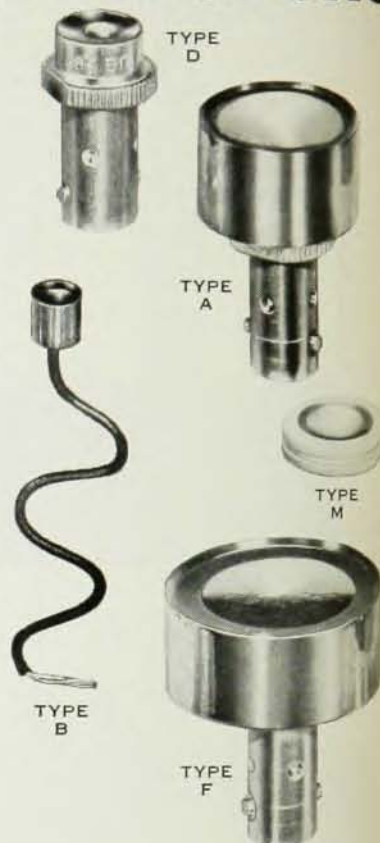
- 1-5 New Nuclear Materials Technology (Czechoslovakia) spons'd by Internat'l Atomic Energy Agency: IAEA, United Nations, New York 17, N. Y.
- 1-5 Macromolecular Chemistry (Paris) spons'd by Internat'l Union of Pure and Applied Chemistry: Symp. Secretariat, Physical Chemistry Lab, 11, rue Pierre Curie, Paris 5, France
- 8-13 Ionization Phenomena in Gases (Orsay, France): 6th Internat'l Symp. on Ionization Phenomena in Gases, Faculté des Sciences, B.P.2, Orsay, Seine-et-Oise, France (See Jan. PT, p. 110)
- 9-11 Space Telecommunications (Nat'l Bureau of Standards, Boulder) spons'd by Inst. of Electrical and Electronics Engrs.: IEEE, PO Box A, Lenox Hill Station, New York 21, N. Y.
- 10-12 High Magnetic Fields, Their Production, and Their Applications (U. of Oxford): send abstracts to N. Kurti, Clarendon Lab, Parks Rd., Oxford: Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England
- 15-19 Nuclidic Masses (Vienna) spons'd by Internat'l Union of Pure and Applied Physics: H. E. Duckworth, McMaster U., Hamilton, Ont., Canada
- 22-24 American Astronomical Society (College, Alaska): G. C. McVittie, U. of Illinois Observatory, Urbana, Ill.
- 22-26 Medical Electronics (Liège) spons'd by Internat'l Federation of Medical Electronics: F. Bostem, 23, Blvd. Frère Orban, Liège, Belgium (See Jan. PT, p. 110)
- 22-26 Physics of Electronic and Atomic Collisions (London): Conference Secretariat, Physics Dept., University College, Gower St., London, W.C.1, England
- 28 (through Aug. 17) Strong Interactions and High-Energy Phenomena (Newbattle Abbey, Edinburgh), Scottish Universities summer school spons'd by NATO: application deadline Apr. 10: B. H. Bransden, Dept. of Natural Philosophy, The University, Glasgow, W.2, Scotland

August

- 5-9 Lattice Dynamics (Technical University of Denmark, Copenhagen) spons'd by Internat'l Union of Pure and Applied Physics, Danish Physical Soc., Office of Naval Research, Nat'l Science Foundation, Nordic Inst. for Theoretical Atomic Physics: S. Lundqvist, Chalmers U. of Technology, Göteborg S, Sweden (See Feb. PT, p. 102)
- 7-9 Applications of X-Ray Analysis (Albany Hotel, Denver): abstracts deadline Apr. 15: W. M. Mueller, Metallurgy Div., Denver Research Inst., U. of Denver, Denver 10, Colo.

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Will plan and design test programs for rocket propulsion systems; prepare schedules and coordinate program to meet schedules; analyze test results and prepare test reports; plan and coordinate environmental test program. BS or MS in ME or physics.

DATA ANALYSIS SUPERVISOR

To supervise work of data technicians in the reduction of ballistic data from tests of propulsion units; present statistical analyses of ballistic data and instrumentation systems in the most meaningful form; assist in planning test programs through statistical design. BS in mathematics and good background in statistics.

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- 14-16 Physico-Chemical Diagnostics of Plasmas (Northwestern U.), 5th Biennial Gas Dynamics Symp.: *Gas Dynamics Symp., Gas Dynamics Lab, Northwestern U., Technological Inst., Evanston, Ill.*
- 19-31 International Union of Geodesy and Geophysics (U. of California, Berkeley): *D. K. Todd, U. of Calif., Berkeley, Calif. (See Dec. '61 PT, p. 88)*
- 21-24 Interaction Between Atmosphere and Ocean (Berkeley) spons'd by Internat'l Assoc. of Meteorology and Atmospheric Physics, Internat'l Assoc. of Physical Oceanography, in conjunction with general assembly of Internat'l Union of Geodesy and Geophysics, Aug. 19-31, Berkeley: *W. L. Godson, IAMAP, c/o Meteorological Office, 315 Bloor St., W., Toronto 5, Canada*
- 21-24 Upper Mantle (Berkeley) in conjunction with general assembly of Internat'l Union of Geodesy and Geophysics, Aug. 19-31, Berkeley: *G. Laclavère, IUGG, 53, av. de Breteuil, Paris 7, France*
- 25-28 Creep and Fracture (Hotel Biltmore, New York City) spons'd by US and British engineering socs.: *N. L. Mochel, Westinghouse Corp., Lester Branch PO, Philadelphia 13, Pa. (See Aug. '61 PT, p. 80)*
- 26-28 Physics of Entry into Planetary Atmospheres (Mass. Inst. of Technology) spons'd by American Rocket Soc., MIT; send abstracts by May 15 to R. F. Probst, Dept. of Mechanical Engrg., MIT, Cambridge 39: *ARS, 500 Fifth Ave., New York 36, N. Y.*
- 26-28 Environmental Measurements (Cincinnati) spons'd by US Public Health Service: *J. S. Nader, Div. of Air Pollution, US Public Health Service, Robert A. Taft Sanitary Engineering Center, 4676 Columbia Parkway, Cincinnati, Ohio (See Feb. PT, p. 104)*
- 26-28 Mathematical Association of America (U. of Colorado, Boulder): *H. M. Gehman, U. of Buffalo, Buffalo 14, N. Y.*
- 26-30 American Mathematical Society (Boulder): *AMS, 190 Hope St., Providence 6, R. I.*
- 26-30 Rheology (Brown U.) spons'd by Society of Rheology, Internat'l Committee on Rheology; send abstracts by Mar. 30 to E. H. Lee, Brown U.: *R. S. Rivlin, Brown U., Providence 12, R. I. (See Oct. '61 PT, p. 88)*
- 27-30 Association for Computing Machinery (Denver Hilton Hotel, Denver): *W. H. Eichelberger, U. of Denver, Denver 10, Colo. (See Feb. PT, p. 104)*
- 28-31 American Physical Society (U. of Alberta, Edmonton), joint meeting with Canadian Assoc. of Physicists; abstracts deadline June 14: *W. A. Nierenberg, U. of Calif., Berkeley 4, Calif.*
- 28-31 Electron Microscope Society of America (Denver); abstracts deadline May 1: *F. W. Boswell, U. of Waterloo, Waterloo, Ont., Canada (See Jan. PT, p. 112)*

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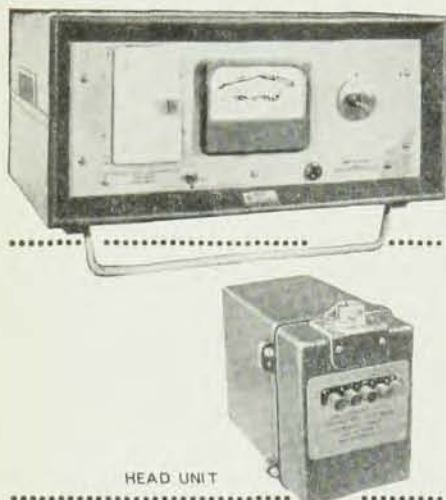
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September

- 2-6 Exponential and Critical Experiments (Netherlands) spons'd by Internat'l Atomic Energy Agency: *IAEA, United Nations, New York 17, N. Y.*
- 2-7 Dynamic Meteorology (Boulder) spons'd by Internat'l Assoc. of Meteorology and Atmospheric Physics in conjunction with general assembly of Internat'l Union of Geodesy and Geophysics, Aug. 19-31, Berkeley: *W. L. Godson, IAMAP, c/o Meteorological Office, 315 Bloor St. W., Toronto 5, Canada*
- 4-7 The Mössbauer Effect (Cornell U.) spons'd by Advanced Research Projects Agency: *A. J. Bearden, Atomic and Solid-State Physics Lab, Cornell U., Ithaca, N. Y.*
- 8-11 High-Temperature Technology (Asilomar, Calif.) spons'd by Stanford Research Inst.: *Dept. 493, SRI, Menlo Park, Calif.*
- 9-12 Analog Computation Applied to Aeronautics (Liège) spons'd by Internat'l Assoc. for Analog Computation: *J. Florine, 50, av. F. D. Roosevelt, Brussels 5, Belgium*
- 9-13 Instrument Society of America (Chicago): *ISA Mtgs. Mgr., Penn Sheraton Hotel, 530 Wm. Penn Pl., Pittsburgh 19, Pa.*
- 9-13 The Liquid State (London): send abstracts by Mar. 31 to H. N. V. Temperley, Bldg. E.1, Atomic Weapons Research Establishment, Aldermaston, Berks.: *Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England*
- 9-13 Nondestructive Testing (London): *Inst. of Mechanical Engrs., 1 Birdcage Walk, London S.W.1, England*
- 9-14 Union of German Physical Societies (Hamburg): *H. Ebert, Physikalische-Technische Bundesanstalt, Bundesallee 100, Braunschweig, Germany*
- 9-18 International Union of Crystallography (Rome): *E. Onorato, Inst. of Mineralogy, University City, Rome, Italy (See Jan. PT, p. 112)*
- 15-19 International Scientific Radio Union (Tokyo): *E. Herbays, 7, pl. Emile Dancu, Brussels, Belgium*
- 17-21 Colloque Ampère (Bordeaux, France): *Groupe Ampère, c/o Physical Inst. of the University, Blvd. d'Yvoy, Geneva, Switzerland*
- 24-27 Plasma Physics (Culham Lab, England) spons'd by Inst. of Physics and Physical Soc.: send abstracts by Apr. 30 to P. L. Flowerday, Culham Lab, Culham, Abingdon, Berks.: *Administration Assistant, Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England*
- 30-4 Creep and Fracture (London) spons'd by American and British engineering socs., continuation of New York conf., Aug. 25-28: *Inst. of Mechanical Engrs., 1 Birdcage Walk, London, S.W.1, England*

October

- 7-11 Biological Effects of Neutron Irradiations (Vienna) spons'd by Internat'l Atomic Energy Agency: *IAEA, United Nations, New York 17, N. Y.*
- 16-18 American Vacuum Society (Statler Hilton Hotel, Boston): send abstracts to G. H. Bancroft, 398 Kilbourn Rd., Rochester 18, N. Y.: *AVS, PO Box 1282, Boston 4, Mass.*

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- 16-18 Gaseous Electronics (Mellon Inst., Pittsburgh), **American Physical Soc.** Topical Conf. spons'd by Westinghouse Research Labs, U. of Pittsburgh; send abstracts by Aug. 23 to G. J. Schulz, Westinghouse Research Labs, Beulah Rd., Pittsburgh 35; M. A. Biondi, U. of Pittsburgh, Pittsburgh 13, Pa.
- 16-18 Calorimetry (Bartlesville, Okla.): J. A. Morrison, Nat'l Research Council, Ottawa, Canada
- 21-25 Beryllium Oxide (Sydney): Conf. Secretary, Australian Atomic Energy Commission Research Establishment, Private Mail Bag, Netherland, New South Wales, Australia
- 23-25 **Optical Society of America** (Sherman House, Chicago): Mary Wargo, 1155 16th St., N.W., Washington 6, D. C.
- 24-28 Society of Exploration Geophysicists (New Orleans): T. O. Hall, Box 1536, Tulsa 1, Okla.
- 25-26 Theoretical Physics (U. of North Carolina): E. Merzbacher, Dept. of Physics, U. of North Carolina, Chapel Hill, N. C.
- 28-29 Combustion Institute Western States Section (U. of Southern Calif.): abstracts deadline Aug. 15; Secretary, Combustion Inst. Western States Section, 16902 Bollinger Dr., Pacific Palisades, Calif.

November

- 6-9 **APS Division of Plasma Physics** (El Cortez Hotel, San Diego) spons'd by General Atomic, Division of General Dynamics; abstracts deadline Sept. 1: A. Simon, c/o General Atomic, PO Box 608, San Diego 12, Calif.
- 6-9 **Acoustical Society of America** (Ann Arbor); abstracts deadline Aug. 7: G. Peterson, U. of Mich., Ann Arbor, Mich.
- 11-15 Physics and Material Problems of Reactor Control Rods (Vienna) spons'd by Internat'l Atomic Energy Agency: IAEA, United Nations, New York 17, N. Y.
- 12-14 Fall Joint Computer Conference (Las Vegas) spons'd by American Federation of Information Processing Societies: Phyllis Higgins, AFIPS, PO Box 55, Malibu, Calif.
- 12-15 Magnetism and Magnetic Materials (Atlantic City) spons'd by **American Inst. of Physics**, American Inst. of Electrical Engrs.: W. D. Doyle, Franklin Inst. Labs, Philadelphia, Pa.
- 18-21 American Nuclear Society (New York City), meeting jointly with Atomic Industrial Forum and Atom Fair: O. J. Du Temple, ANS, 36 E. Randolph St., Chicago 1, Ill.
- 19-21 **American Physical Society** (Norman, Okla.): abstracts deadline Oct. 12: K. K. Darrow, 538 W. 120 St., New York 27, N. Y.

December

- 19-21 **American Physical Society** (Pasadena); abstracts deadline Oct. 11: W. A. Nierenberg, U. of Calif., Berkeley 4, Calif.
- 26-28 **American Astronomical Society** (Washington, D. C.): G. C. McVittie, U. of Illinois Observatory, Urbana, Ill.

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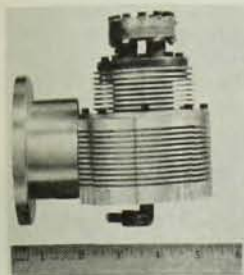
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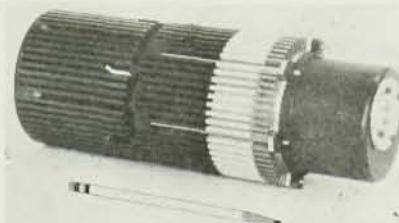


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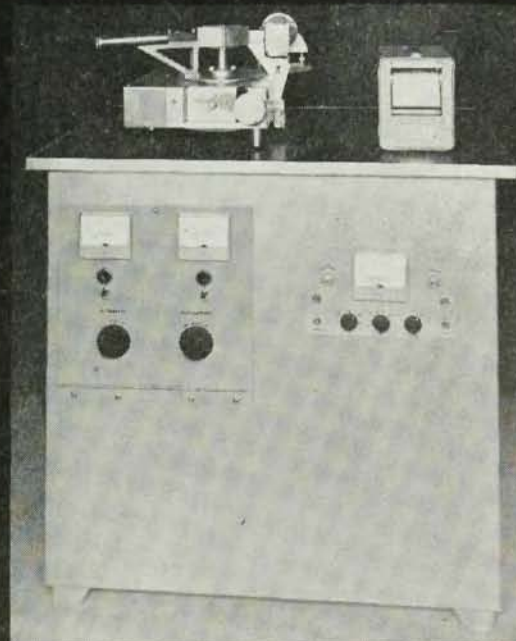
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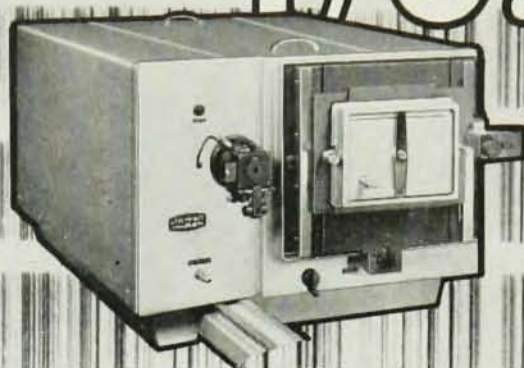


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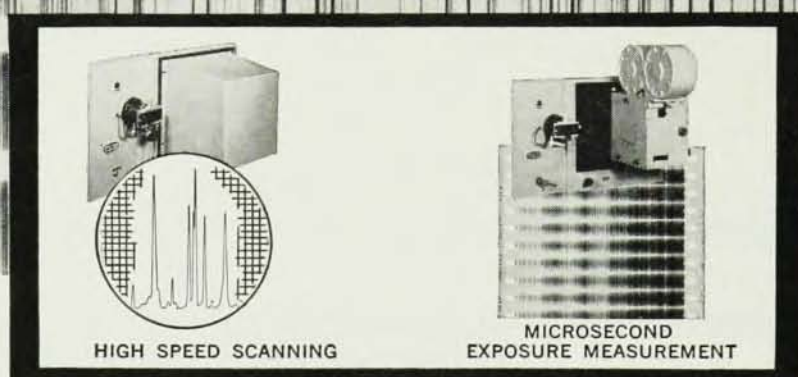
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January

- 20-24 American Mathematical Society (Miami): *AMS, 190 Hope St., Providence 6, R. I.*
- 22-25 American Association of Physics Teachers (Statler-Hilton Hotel, New York City): *E. U. Condon, Oberlin College, Oberlin, Ohio*

February

- 3-7 American Society for Testing and Materials (Sheraton Hotel, Philadelphia): *ASTM, 1916 Race St., Philadelphia 3, Pa. (See Nov. '62 PT, p. 102)*
- 12-14 Solid-State Circuits (Philadelphia) spons'd by Inst. of Radio Engrs., American Inst. of Electrical Engrs., U. of Pa.: *IRE, 1 E. 79 St., New York 21, N. Y.*

April

- 1-3 Optical Society of America (Sheraton Park Hotel, Washington, D. C.): *Mary Waga, 1155 16th St., N.W., Washington 6, D. C.*

May

- 26-28 Spring Joint Computer Conference (Washington, D. C.) spons'd by American Federation of Information Processing Socs.: *Phyllis Higgins, AFIPS, PO Box 55, Malibu, Calif.*

June

- 21-26 American Society for Testing and Materials (Chicago): *ASTM, 1916 Race St., Philadelphia 3, Pa.*

July

- 26-31 American Crystallographic Association (Montana State College): *B. Post, Brooklyn Polytechnic Inst., Brooklyn 1, N. Y.*

August

- 4-10 Reactivity of Solids (Munich) spons'd by Internat'l Union of Pure and Applied Chemistry: *R. Morf, F. Hoffman-La Roche et Cie., Basel 2, Switzerland*

September

- 1-8 International Commission for Optics (Tokyo and Kyoto): *W. D. Wright, c/o Technical Optics Section, Imperial College, London, S.W.7, England*

October

- 12-16 Instrument Society of America (New York City): *ISA Mfgs. Mgr., Penn Sheraton Hotel, 530 Wm. Penn Pl., Pittsburgh 19, Pa.*

PHYSICS TODAY