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

January

- 23-26 American Association of Phys-American Association of Physics Teachers (Statler-Hilton Hotel, New York City): V. E. Parker, Oak Ridge Inst. of Nuclear Studies, PO Box 117, Oak Ridge, Tenn.
- 23-26 American Physical Society (New York City): K. K. Darrow, 538 W. 120 St., New York 27, N. Y.
 24-25 Western Spectroscopy Association (Asilomar, Calif.): R. A. Satten, Dept. of Physics, U. of Calif., Los Angeles 24, Calif. (See Dec. '62 PT, p. 94)
 24-28 American Mathematical Society
- American Mathematical Society (Berkeley): AMS, 190 Hope St., Providence 6, R. I.
 Mathematical Association of America (U. of California, Berkeley): H. M. Gehman, U. of Buffalo, Buffalo 14, N. Y.
- Society of Rheology (Shell Development Co., Emeryville, Calif.): T. L. Smith, Stanford Research Inst., Menlo Park, Calif. 31-1

February

- American Society for Testing and Materials (Queen Elizabeth Hotel, Montreal): ASTM, 1916 Race St., Philadelphia 3, Pa.
- Engineering for Major Scientific Programs (Georgia Inst. of Technology, Atlanta) spons'd by Georgia Tech: 75th Anniversury Committee, Georgia Tech, Atlanta 13, Ga. (See Dec. '62 PT. p. 62) PT, p. 96)
- Quantum Electronics (Paris) spons'd by Inst. of Radio Engrs., Soc. Fran-caise des Electroniciens et Radioelec-triciens: Mme. Cauchy, Third Quan-tum Electronics Conf., 7, rue de Madrid, Paris 8, France (See Aug. '62 PT, p. 84) 11-15
- Electrochemistry (Sydney and Hobart, Australia) spons'd by Royal Australian Chemical Inst., U. of Tasmania, U. of New South Wales F. Gutmann, U. of New S. Wales, PO Box 1, Kensington, NSW, Australia tralia
- Biophysical Society (Statler Hilton Hotel, New York City): A. Mauro, Rockefeller Inst., New York, N. Y. 18-20
- Solid-State Circuits (U. of Pa. and Sheraton Hotel, Philadelphia) spons'd by Inst. of Radio Engrs., American Inst. of Electrical Engrs., U. of Pa.: F. J. Witt, Bell Telephone Labs, Murray Hill, N. J. (See Sept. '62 PT, p. 102) 20-23
- 26-28 Fast-Neutron Physics (Rice U.) spons'd by Rice U.; G. C. Phillips, Rice U., PO Box 1892, Houston 1, Tex. (See Nov. '62 PT, p. 100)

 28-2 Experimental Aspects of NMR Spectroscopy (Mellon Inst., Pittsburgh); C. W. Wilson, HI, Research Dept., Union Carbide Chemicals Co., S. Charleston, W. Va.

 28-2 American Physical Society
- American Physical Society (Houston): K. K. Durrow, 538 W 120 St., New York 27, N. Y. 28-2

March

- Analytical Chemistry and Applied Spectroscopy (Penn-Sheraton Hotel, Pittsburgh) spons'd by American Chemical Soc., Spectroscopy Soc. of Pittsburgh; W. A. Straub, Applied Research Lab, US Steel Corp., Monroeville, Pa. (See Aug. '62 PT, p. 86)
- Inter-Society Color Council (Statler-Hilton Hotel, New York City): R. M. Evans, Eastman Kodak Co., Color Technology Div., Rochester 4, N. Y.
- 11-15
- N. Y.
 Numerical Weather Forecasting (Oslo) spons'd by Internat'l Union of Geodesy and Geophysics: World Meteoralogical Organization, 41, av. Giuseppe Motta, Geneva, Switzerland
 Residual Gases in Electron Tubes (Milan) spons'd by Italian Society of Physics: E. Galti, Via Gallarate, 215, Milan, Italy (See Dec. '62 PT, p. 96) 12-15
- 14-15 Advanced Gas-Cooled Reactor (London) spons'd by British Nuclear Energy Soc.: BNES, 1-7 Great George St., London, S.W.1, England (See Oct. '62 PT, p. 98)
- Quantitative Spectroscopy and Selected Applications in Space Science (California Inst. of Technology), by invitation, spons'd by Caltech and government agencies: A. R. Laufer, Office of Naval Research, 1030 E. Green St., Passadena, Calif. (see Oct. '62 PT, p. 100)
- Optical Society of America (Robert Meyer Hotel, Jacksonville, Fla.): Mary Warga, OSA, 1155 16th St., N.W., Washington 6, D. C. (See Dec. '62 PT, p. 96)
- 25-27 High-Frequency Communication (London): Inst. of Electrical Engrs., Savoy Pl., London, W.C.2, England
- American Physical Society (St. Louis): K. K. Darrow, 538 W. 120 St., New York 27, N. Y.
- 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. V.
- American Crystallographic Association (MIT): B. Post, Brooklyn Polytechnic Inst., Brooklyn 1, N. Y.
- APS New England Section (Harvard U.): G. Holton, Harvard U., Jefferson Physical Lab, Cam-bridge 38, Mass. 30-31

April

Oak Ridge Radioisotope Conference—Applications to Physical Science and Engineering (Gatlinburg, Tenn.) spons'd by Oak Ridge Inst. of Nuclear Studies, Oak Ridge Nat'l Lab, American Nuclear Soc., Atomic Energy Commission: Information Services Dept., ORINS, PO Box 117, Oak Ridge, Tenn. (See Dec. '62 PT, p. 98)

- APS Southeastern Section (Knox-ville): H. Carr, Auburn U., Auburn,
- Engineering Aspects of Magnetohydrodynamics (U. of California, Berkeley) spons'd by American Inst. of Electrical Engrs.: G. W. Sutten, GE Space Sciences Lab, King of Prussia, Pa. 10-11
- Natural Radiation Environment (Houston) spons'd by Health and Safety Office of Atomic Energy Commission, Rice U.: J. A. S. Adams, Rice U., PO Box 1892, Houston 1, Tex. 11-13
- Reactions Between Complex Nuclei (Asilomar, Calif.) spons'd by Amer-ican Physical Soc.; abstracts dead-line Feb. 23: A. Ghiorso, Lawence Radiation Lab, U. of Calif., Berkeley 4. Calif.
- Thin Films for Electronic Applica-tion (Pittsburgh) spons'd by Electro-chemical Soc.; send abstracts by Mar. 15 to Electrochemical Soc., 30 E. 42 St., New York 17, N. Y.: H. S. Sommers, Jr., RCA Labi, David Sarnoff Research Center, Princeton, N. J.
- Princeton, N. J.

 16-18 Optical Masers (New York City) spons'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. M.

 17-19 Sorotion Properties of Vacuum-De-
- Sandia Corp., Albuquerque, N. M.
 Sorption Properties of Vacuumposited Metal Films (U. of Liverpool) spons'd by Inst. of Physics
 and Physical Soc., Joint British Committee for Vacuum Science and Technology: Inst. of Physics and Physical Soc., 47 Belgrave Sq., London
 S.W.1, England (See Oct. '62 PT,
 p. 100)
- Nonlinear Magnetics (Shoreham Hotel, Washington, D. C.) spons'd by Inst. of Radio Engrs., American Inst. of Electrical Engrs.: H. F. Storm, I River Rd., Bldg. 37, GE Co., Schenectady, N. Y. (See Aug. '62 PT, p. 86)
- American Meteorological Society (Washington, D. C.) with American Geophysical Union: AMS, 45 Beacon St., Boston 8, Mass.
- Stereology (Vienna) spons'd by Internat'l Soc. for Stereology: K. H. Spitsy, Viennese Acad. of Medicine, Alserstr. 4, Vienna 9, Austria (See Sept. '62 PT, p. 104)
- AAPT Southern Calif. Section (Occidental College, Los Angeles) H. J. Haden, Glendale College, Glendale 8, Calif.
- Rare Earths (Grand Bahama I.); manuscripts deadline Feb. 1: K. S. Vorres, Dept. of Chemistry, Purdue U., Lajayette, Ind. (See Dec. '62 PT, p. 100) 21-24

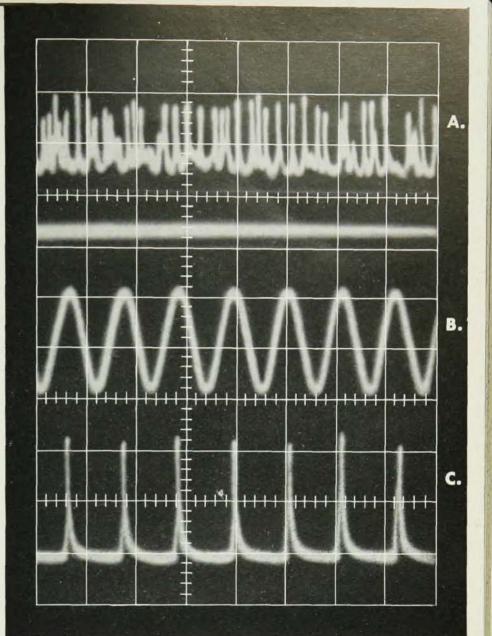
- 22-25 Weather Radar (Washington, D. C.) spons'd by American Meteorological Soc. and US Weather Bureau: S. G. Bigler, Radar Unit, US Weather Bureau, Washington 25, D. C. (See Sept. '62 PT, p. 104)
- (Washington, D. C.); abstracts deadline Feb. 8: K. K. Darrow, 538 W. 120 St., New York 27, N. Y.
- 23-25 Electronic Processes in Dielectric Liquids (U. of Durham) spons'd by Inst. of Physics and Physical Soc., 11st. 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, PhysikalischeTechnische Bundesanstalt, Bundesalle 100, Braunschweig, Germany

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)
- 14-19 Mass Spectrometry (San Francisco) spons'd by American Soc. for Testing and Materials; abstracts deadline Feb. 1: N. D. Coggeshall, Gull Research & Development Co., PO Drawer 2038, Pittsburgh 30, Pa. (See Nov. '62 PT, p. 100)
- 15-18 Acoustical Society of America (New York City); abstracts deadline Feb. 20: H. F. Olson, Radio Corp. of America, Princeton, N. J.
- 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. 102)
- 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. 106)
- 21–23 Spring Joint Computer Conference (Cobo Hall, Detroit) spons'd by American Federation of Information Processing Socs.: Phyllis Higgins, AFIPS, PO Box 55, Malibu, Calif. (See Oct. '62 PT, p. 102)
- 27-31 Application of Large Radiation Sources in Industry (Salzburg) spons'd by Internat'I Atomic Energy Agency: IAEA, United Nations, New York 17, N. V. (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.I., England (See Nov. '62 PT, p. 102)

June

4-8 Molecular Interactions in Liquid Phase (Paris) spons'd by French Soc. of Physical Chemistry: G. Emschwiller, Soc. of Physical Chemistry, 10 rue Vauquelin, Paris 5, France



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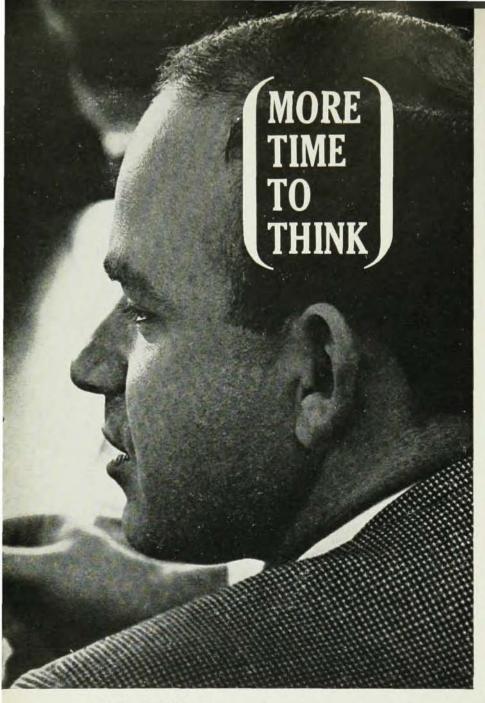
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> *See DeMaria and Gagosz, Proceedings of the I. R. E., Vol. 50, No. 6, June 1962, or write to Mr. Ciriack for a reprint.

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- 5-6 Vacuum Engineering (Frankfurt/ Main) spons'd by European Fed. of Chem. Engrs., European Vacuum Study Circle, Union of German Physical Socs.: Symp. Sec., Rheingauallee 25, Frankfurt/Main, Germany
- 6-9 Canadian Association of Physicists (Laval U., Quebec City): 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
- 11-14 Health Physics Society (Statler-Hilton

 Hotel, New York City): K. K.
 Brown, Jr., Public Information, HPS,
 23 Glendon Rd., Hohokus, 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)
- 17-20 American Nuclear Society (Cincinnati): ANS, 86 E. Randolph St., Chicago 1, Ill.
- 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.
- 24-27 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. Holstadter, 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)
- 27-29 American Association of Physics Teachers (U. of Maine): E. U. Condon, Oberlin College, Oberlin, Ohio

July

- 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
- 1-5 New Nuclear Materials Technology (Vienna) spons'd by Internat'l Atomic Energy Agency: IAEA, United Nations, New York 17, N. Y.
- 8-13 Ionization Phenomena in Gases

 (Orsay, France); abstracts deadline
 Mar. 1; 6th Internat'l Symp, on
 Ionization Phenomena in Gases,
 Faculte des Sciences, B.P.2, Orsay,
 Seine-et-Oise, France
- 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

PHYSICS TODAY

Nuclidic Masses (Vienna) spons'd by Internat'l Union of Pure and Applied Physics: H. E. Duckworth, McMaster U., Hamilton, Ont., Canada

Medical Electronics (Liège) spons'd by Internat'l Federation of Medical Electronics; send mss by Mar. 1 to D. H. Bekkering, Inst. of Medical Physics, 45 Da Costakade, Utrecht, Netherlands: F. Bostem, 23, Blvd. Frère Orban, Liège, Belgium

Physics of Electronic and Atomic Collisions (London): Conference Secretariat, Physics Dept., University College, Gower St., London, W.C.1, England

st

International Geophysical Year Results (Los Angeles) spons'd by Internat! Union of Geodesy and Geophysics; W. L. Godson, Internat! Assoc. of Meteorology and Atmospheric Physics, c/o Meteorological Office, 315 Bloor St. W., Toronto 5, Canada

International Union of Geodesy and Geophysics (U. of California, Berkeley): D. K. Todd, U. of Calif., Berkeley, Calif. (See Dec. '61 PT, p. 88)

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

Upper Mantle (Berkeley) in conjunction with general assembly of Internat? Union of Geodesy and Geophysics, Aug. 19-31, Berkeley: G. Laclavère, IUGG, 53 av. de Breteuit, Paris 7, France

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)

Mathematical Association of America (U. of Colorado, Boulder): H. M. Gehman, U. of Buffalo, Buffalo 14, N. Y.

American Mathematical Society (Boulder): AMS, 190 Hope St., Providence 6, R. I.

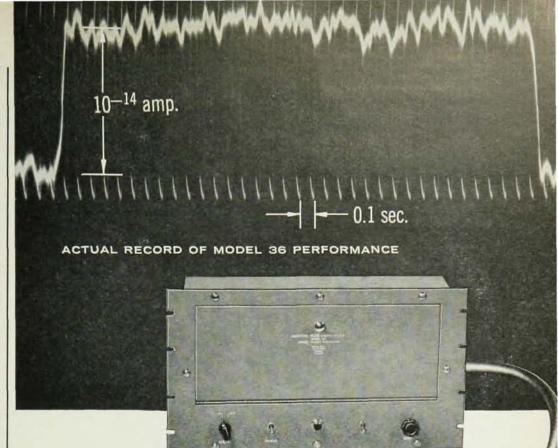
Rheology (Brown U.) spons'd by Society of Rheology, Internat'l Committee on Rheology; send abstracts by Mar. 30 to E. H. Lee, Brown U.; R. S. Rivlin, Brown U., Providence 12, R. I. (See Oct. '61 PT, p. 88)

Electron Microscope Society of America (Denver); abstracts deadline May 1: F. W. Boswell, U. of Waterloo, Waterloo, Ont., Canada

nber

Exponential and Critical Experiments (Netherlands) spons'd by Internat'l Atomic Energy Agency: IAEA, United Nations, New York 17, N. Y.

Dynamic Meteorology (Boulder) sponsid 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



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- 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 Migs. 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.I., Atomic Weapons Research Establishment, Aldermaston, Berks.: Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.I., England
- 9-13 Nondestructive Testing (London):
 Inst. of Mechanical Engrs., 1 Bird-cage 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
- 15-19 International Scientific Radio Union (Tokyo): E. Herbays, 7, pl. Emile Danco, Brussels, Belgium
- 17-21 Colloque Ampère (Bordeaux, France):

 Groupement Ampère, c/o Physical
 Inst. of the University, Blvd. d'Yvoy,
 Geneva, Switzerland
- 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 Calorimetry (Bartlesville, Okla.): J. A. Morrison, Nat'l Research Council, Ottawa, Canada
- 21-25 Beryllium Oxide (Sydney): Conj. Secretary, Australian Atomic Energy Commission Research Establishment, Private Mail Bag, Nutherland, New South Wales, Australia
- 23-25 Optical Society of America (Sherman House, Chicago): Mary Warga, 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.

November

- 6-9 Acoustical Society of America (Ann Arbor): 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 Socs.: 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, 86 E. Randolph St., Chicago 1, Ill.

PHYSICS TODAY

19-21 American Physical Society (Norman, Okla.); abstracts deadline Oct. 12: K. K. Darrow, 538 W. 120 St., New York 27, N. Y.

1964

January

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

February

- 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

Optical Society of America (Sheraton Park Hotel, Washington, D. C.): Mary Warga, 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 Huggins, AFIPS, PO Box 55, Malibu, Calif.

June

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

July

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

August

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

September

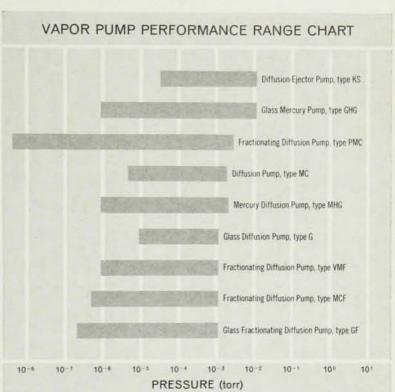
International Commission for Optics (Tokyo and Kyoto); W. D. Wright, c/o Technical Optics Section, Imperial College, London, S.W.7, England

October

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

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