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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

May

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. Forrester, 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. 106)

21-23 Spring Joint Computer Conference (Cobo Hall, Detroit) spons'd by American Federation of Information Processing Soc.: Phyllis Huggins, AFIPS, PO Box 55, Malibu, Calif. (See Oct. '62 PT, p. 102)

27-29 Radiation Research Society (Marquette U., Milwaukee): E. L. Powers, Argonne Nat'l Lab, Argonne, Ill.

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)

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

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. Nielsen, 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. (See Mar. PT, p. 96)

11-14 Health Physics Society (Statler-Hilton Hotel, New York City): K. K. Brown, Jr., Public Information, HPS, 23 Glendon Rd., Hahokus, 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)

16-20 American Nuclear Society (Salt Lake City): ANS, 86 E. Randolph St., Chicago 1, Ill.

16-21 Nuclear Radiation Effects on Electronic Materials (Toronto), held as part of summer meeting of Inst. of Electrical and Electronic Engrs.: R. M. Magee, Bendix Systems Div., Ann Arbor, Mich. (See Apr. PT, p. 112)

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. (See Mar. PT, p. 96)

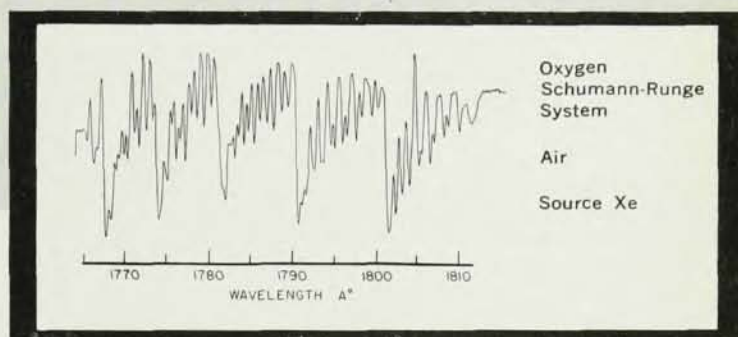
17-20 American Institute of Aeronautics and Astronautics (Los Angeles): American Rocket Soc., 500 Fifth Ave., New York 36, N. Y.

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.



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- 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): *K. K. Darrow, 538 W. 120 St., New York 27, N. Y.*
- 24-26 Surface Physics (Buffalo) spons'd by **APS Div. of Electron Physics** at general APS meeting: *L. H. Germer, Bell Telephone Labs, PO Box 262, Murray Hill, N. J.*
- 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)
- 25-26 Dielectrics in Space (Pittsburgh) spons'd by Westinghouse Research Labs; send abstracts to D. Berg, Westinghouse Labs: *T. W. Dakin, Westinghouse Research Labs, Pittsburgh 35, Pa.* (See Apr. PT, p. 114)
- 26-27 Computers and Data Processing (Estes Park, Colo.) spons'd by Denver Research Inst.: *W. H. Eichberger, Denver Research Inst., U. of Denver, Denver 10, Colo.* (See Mar. PT, p. 96)
- 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*
- 28 Spectroscopic Aspects of Lasers (Malvern) spons'd by Inst. of Physics and Physical Soc.: *IPPS, 47 Belgrave Sq., London, S.W.1, England*

## 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*
- 2-6 Electron Microscopy (Cambridge U.) annual conf. of Electron Microscopy Group, Inst. of Physics and Physical Soc.: *IPPS, 47 Belgrave Sq., London, S.W.1, England*
- 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.* (See Mar. PT, p. 98)

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- 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* (See Mar. PT, p. 98)
- 15-19 Nuclidic Masses (Vienna) spon's'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) spon's'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 spon's'd by NATO: *B. H. Bransden, Dept. of Natural Philosophy, The University, Glasgow, W.2, Scotland*

#### August

- 5-9 Lattice Dynamics (Technical University of Denmark, Copenhagen) spon's'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): *W. M. Mueller, Metallurgy Div., Denver Research Inst., U. of Denver, Denver 10, Colo.* (See Mar. PT, p. 98)
- 12-14 Ionospheric Propagation of Very Low-Frequency Electromagnetic Waves (Boulder) spon's'd by Nat'l Bureau of Standards: *D. Belsher, VLF Symp., NBS, Boulder, Colo.* (See Apr. PT, p. 114)
- 12-16 International Geophysical Year Results (Los Angeles): *H. Odishaw, Geophysics Research Board, Nat'l Academy of Sciences, 2101 Constitution Ave., Washington 25, D. C.*
- 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.* (See Mar. PT, p. 100)
- 19-21 Astrodynamics (Yale U.) spon's'd by American Inst. of Aeronautics and Astronautics: *AIAA, 500 Fifth Ave., New York 36, N. Y.*
- 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) spon's'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*

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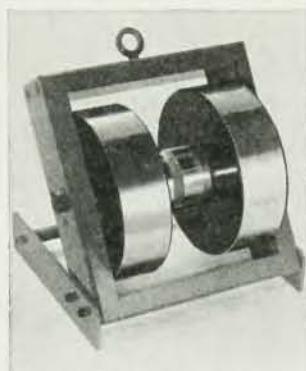


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- 25-28 Creep and Fracture (Hotel Biltmore, New York City) spons'd by US and British engineering socs.: *N. L. Mochel, Westinghouse Corp., Lester Branch PO, Philadelphia 13, Pa.* (See Aug. '61 PT, p. 80)
- 26-28 Physics of Entry into Planetary Atmospheres (Mass. Inst. of Technology) spons'd by American Rocket Soc., MIT: *ARS, 500 Fifth Ave., New York 36, N. Y.* (See Mar. PT, p. 100)
- 26-28 Mathematical Association of America (U. of Colorado, Boulder): *H. M. German, State U. of New York, 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: *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): *F. W. Boswell, U. of Waterloo, Waterloo, Ont., Canada* (See Jan. PT, p. 112)

### September

- 2-6 Exponential and Critical Experiments (Amsterdam) spons'd by Internat'l Atomic Energy Agency: *J. H. Kane, Chief, Internat'l Confs. Branch, Div. of Special Projects, US Atomic Energy Commission, Washington 25, D. C.*
- 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*
- 4-6 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 Engrg. Center, 4676 Columbia Parkway, Cincinnati, Ohio* (See Feb. PT, p. 104)
- 4-6 Low and Medium-Energy Nuclear Physics (U. of Manchester) spons'd by Inst. of Physics and Physical Soc.: send abstracts by June 21 to *W. R. Phillips, Physical Labs, University, Manchester 13; Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England* (See Apr. PT, p. 116)
- 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.* (See Apr. PT, p. 116)

# laser physicists

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England*
- 8-11 High-Temperature Technology (Asi-  
lomar, Calif.) spon's'd by Stanford  
Research Inst.; *Dept. 493, SRI,  
Menlo Park, Calif. (See Mar. PT,  
p. 100)*
- 8-15 Optics of Solid Thin Layers (Mar-  
seilles): *P. Rouard, Faculté des Sci-  
ences, place Victor-Hugo, Marseille  
3, France (See Mar. PT, p. 102)*
- 9-12 Analog Computation Applied to Aero-  
nautics (Liège) spon's'd by Internat'l  
Assoc. for Analog Computation: *J.  
Florine, 50, av. F. D. Roosevelt,  
Brussels 5, Belgium*
- 9-13 Instrument Society of America (Chi-  
cago): *ISA Mtgs. Mgr., Penn Sherat-  
on Hotel, 530 Wm. Penn Pl., Pitts-  
burgh 19, Pa.*
- 9-13 The Liquid State (London): *Inst.  
of Physics and Physical Soc., 47 Bel-  
grave Sq., London, S.W.1, 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, Bundesal-  
lee 100, Braunschweig, Germany*
- 9-18 International Union of Crystallog-  
raphy (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  
Danco, Brussels, Belgium*
- 17-21 Colloque Ampère (Bordeaux, France):  
*Groupe Ampère, c/o Physical  
Inst. of the University, Blvd. d'Yvoy,  
Geneva, Switzerland*
- 22-27 International Astronautical Federa-  
tion (Paris): *American Inst. of Aero-  
nautics and Astronautics, 500 Fifth  
Ave., New York 36, N. Y.*
- 23-25 Electronic Structure of Alloys (U. of  
Sheffield): *K. C. Williams, Dept. of  
Physics, University, Sheffield 10,  
England*
- 24-27 Plasma Physics (Culham Lab, Eng-  
land) spon's'd by Inst. of Physics and  
Physical Soc.; *Administration As-  
sistant, Inst. of Physics and Physical  
Soc., 47 Belgrave Sq., London, S.W.1,  
England (See Mar. PT, p. 102)*
- 24-28 Role of Atomic Electrons in Nuclear  
Transformations (Warsaw) spon's'd by  
Internat'l Union of Pure and Applied  
Physics, Polish Acad. of Sciences,  
Polish Commissioner for Use of Nu-  
clear Energy: *Z. Sujkowski, Inst. of  
Physics, Warsaw U., ul. Hoza 69,  
Warsaw 10, Poland (See Apr. PT,  
p. 116)*
- 26-27 Electronics (Southampton U.) autumn  
conf. of Electronics Group, Inst. of  
Physics and Physical Soc.: *IPPS, 47  
Belgrave Sq., London, S.W.1, England*
- 30-4 Creep and Fracture (London) spon-  
s'd by American and British engi-  
neering socs., continuation of New  
York conf., Aug. 25-28: *Inst. of  
Mechanical Engrs., 1 Birdcage Walk,  
London, S.W.1, England*
- 30-5 Elementary Particles (Sienna), by in-  
vitation, spon's'd by Italian Physical  
Soc. and government agencies: *E. W.  
D. Steel, Scientific Conf. Secretariat,  
CERN, Geneva 23, Switzerland (See  
Apr. PT, p. 118)*

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MAY 1963

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### October

- 3-4 Physics of Optical Glass (Pilkington Bros. Ltd., Lathom, Lancashire) spons'd by Optical Group, Inst. of Physics and Physical Soc.; send abstracts by June 7 to W. N. Sproson, BBC Research Dept., Kingswood Warren, Tadworth, Surrey: IPPS, 47 Belgrave Sq., London, S.W.1, England
- 7-11 Biological Effects of Neutron Irradiations (Vienna) spons'd by Internat'l Atomic Energy Agency: IAEA, United Nations, New York 17, N. Y.
- 14-18 Society for Applied Spectroscopy (El Cortez Hotel, San Diego); abstracts deadline June 15: E. P. Wadsworth, Jr., San Diego State College, San Diego 15, Calif.
- 16-18 American Vacuum Society (Statler Hilton Hotel, Boston); send abstracts by June 15 to G. H. Bancroft, 398 Kilbourn Rd., Rochester 18, N. Y.; AVS, PO Box 1282, Boston 4, Mass.
- 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 Wurga, 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 N. Carolina): E. Merzbacher, Dept. of Physics, U. of N. 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. (See Mar. PT, p. 94)
- 29-31 Plasma Phenomena and Measurement (San Diego) spons'd by Inst. of Electrical and Electronics Engrs.; send abstracts by July 1 to R. DeLoach, Bendix Systems Div., Ann Arbor, Mich.: IEEE, Box 4, Lenox Hill Sta., New York 21, N. Y.

### November

- 3-6 Electrical Insulation (White Sulphur Springs, W. Va.) spons'd by Nat'l Academy of Sciences: D. W. Thornhill, NAS-NRC, 2101 Constitution Ave., Washington 25, D. C.
- 6-9 APS Division of Plasma Physics (El Cortez Hotel, San Diego) spons'd by General Atomic, Division of General Dynamics; abstracts deadline Sept. 24: A. Simon, c/o General Atomic, PO Box 608, San Diego 12, Calif. (See Mar. PT, p. 102)
- 6-9 Acoustical Society of America (Ann Arbor); abstracts deadline Aug. 7: G. Peterson, U. of Mich., Ann Arbor, Mich.

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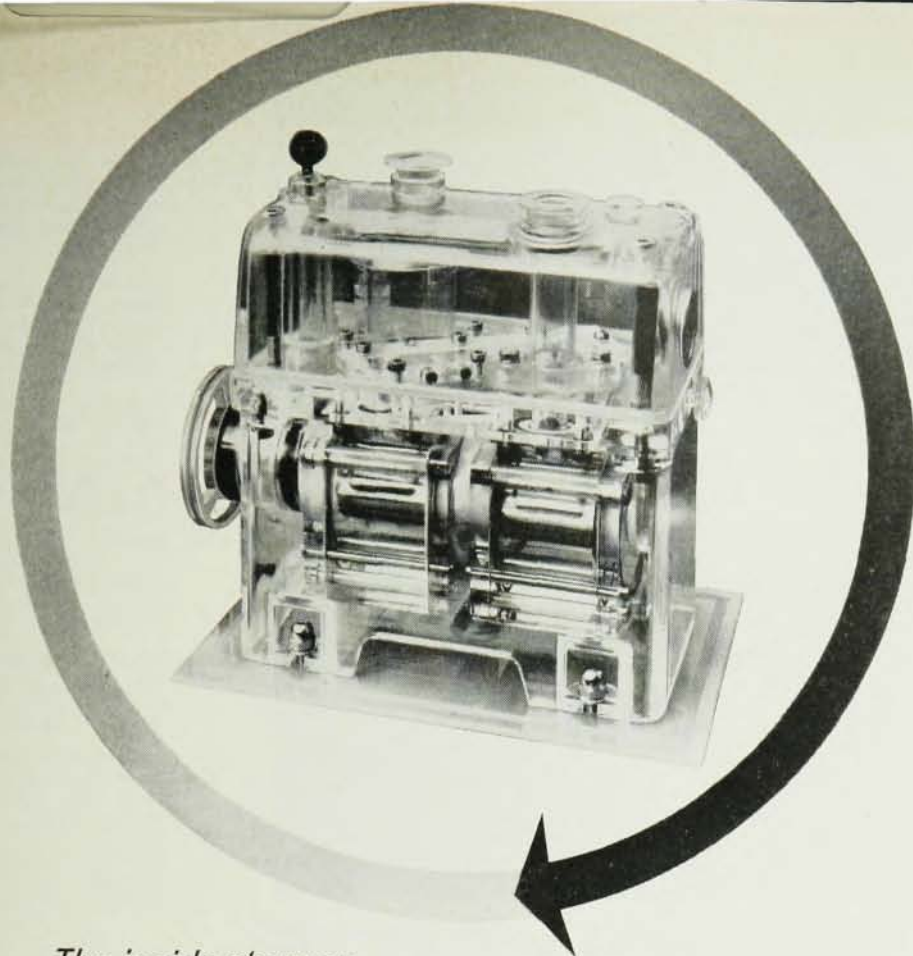
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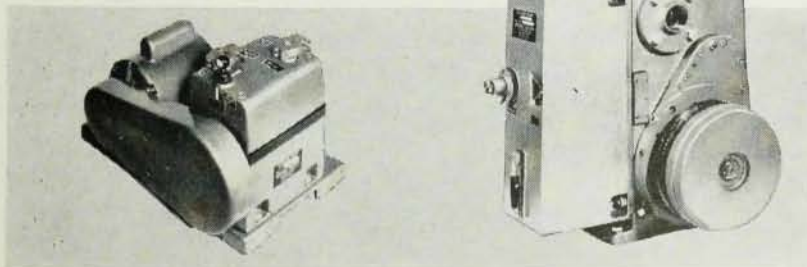




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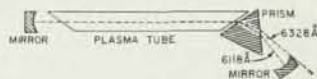
Diffraction pattern produced by monochromatic laser beam illuminating a pinhole of approximately 500 microns diameter.



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1. A. L. Bloom, "Observation of new visible gas laser transitions by removal of dominance," *Applied Physics Letters*, Vol. 2, No. 5, pp 101, March 1, 1963.

2. A. L. Bloom, W. E. Bell, and R. C. Rempel, "Laser operation at 3.39 microns in a helium-neon mixture," *Applied Optics*, Vol. 2, No. 3, pp 317, March 1963.

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- 11-15 Physics and Material Problems of Reactor Control Rods (Vienna) sponsored by Internat'l Atomic Energy Agency: *IAEA, United Nations, New York 17, N. Y.*
- 12-14 Fall Joint Computer Conference (Las Vegas) sponsored by American Federation of Information Processing Societies: *Phyllis Huggins, AFIPS, PO Box 55, Malibu, Calif. (See Apr. PT, p. 118)*
- 12-15 Magnetism and Magnetic Materials (Atlantic City) sponsored by American Inst. of Physics, Inst. of Electrical and Electronics Engrs.: *W. D. Doyle, Franklin Inst. Lab., Philadelphia 3, 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.*
- 19-21 American Physical Society (Norman, Okla.); abstracts deadline Oct. 12: *K. K. Darrow, 538 W. 120 St., New York 27, N. Y.*
- 19-21 Stratosphere-Mesosphere Structure (El Paso) sponsored by American Meteorological Soc.: *AMS, 45 Beacon St., Boston 8, Mass.*
- 29-30 Biomagnetics (Chicago): *M. Somlo, Biomagnetic Research Foundation, 833 Lincoln St., Evanston, Ill.*

### December

- 4-6 Ultrasonics (Washington, D. C.) sponsored by Inst. of Electrical and Electronics Engrs.; send abstracts by Aug. 15 to T. R. Meeker, Bell Telephone Labs, 555 Union Blvd., Allentown, Pa.: *IEEE, Box A, Lenox Hill Sta., New York 21, N. Y.*
- 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.*

### 1964

### January

- 1-4 Solid-State Physics (U. of Bristol) sponsored by Inst. of Physics and Physical Soc.; send abstracts by July 30 to R. G. Chambers, H. H. Wills Lab, Royal Fort, Bristol, 8: *Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England*
- 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*
- 25-27 Mathematical Society of America (Miami): *H. M. Gehman, U. of Buffalo, Buffalo 14, N. Y.*

PHYSICS TODAY



## 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 Electrical and Electronics Engrs., U. of Pa.: *IEEE, Box A, Lenox Hill Station, New York 21, N. Y.*

## March

- 14-26 Physics and Dynamics of Clouds (Chicago) spons'd by American Meteorological Soc.: *AMS, 45 Beacon St., Boston 8, Mass.*

## 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 Soc.: *Phyllis Huggins, 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 Physics, Internat'l Union of Pure and Applied Chemistry: *R. Morf, F. Hoffman-La Roche et Cie., Basel 2, Switzerland*
- 25-29 Electron Microscope Society of America (Detroit): *A. Taylor, Virus Div., Parke Davis Co., Detroit 32, Mich.*

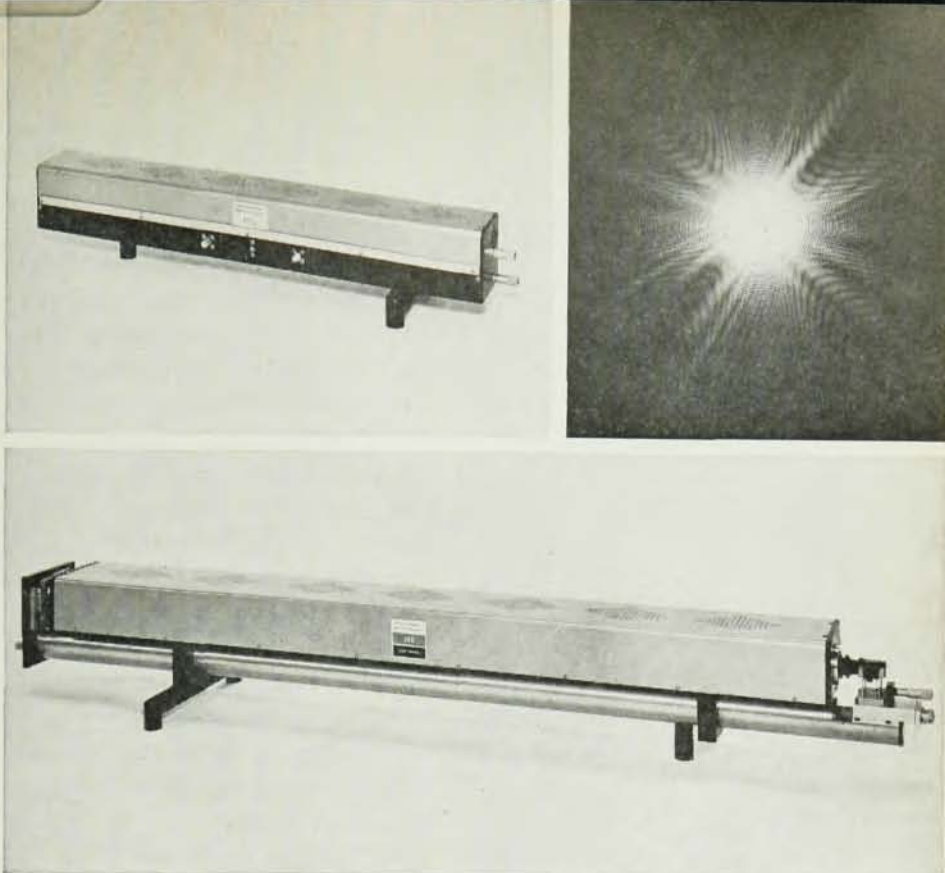
## September

- 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 Mts. Mgr., Penn Sheraton Hotel, 530 Wm. Penn Pl., Pittsburgh 19, Pa.*

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