CALENDAR

Information in the calendar is compiled from a file maintained in the PHYSICS TODAY office. Readers are invited to write or telephone for general calendar information beyond what we print. For complete information concerning an entry, readers are advised to consult the *contact*. The date at the end of each item refers to the issue of PHYSICS TODAY in which the item is listed with more detail than appears in subsequent issues.

ABBREVIATIONS: AAPT, American Association of Physics Teachers; AAS, American Astronomical Society; ACA, American Crystallographic Association; APS, American Physical Society; ASA, Acoustical Society of America; OSA, Optical Society of America; s of R, Society of Rheology; AEC, US Atomic Energy Commission; AFCRL, Air Force Cambridge Research Laboratories; IAEA, International Atomic Energy Agency; IEEE, Institute of Electrical and Electronics Engineers; IPPS, The Institute of Physics and The Physical Society; IUPAP, International Union of Pure and Applied Physics; NBS, National Bureau of Standards; ORNL, Oak Ridge National Laboratory.

CODING of each item is as follows: date **subject** □ HOST □ Location (*Contact*) [submission deadline] *PT ref.*

• new listing ♦ new information

MARCH 1968

4–7 **Neutron Cross Section and Technology** □ APS-AEC-NBS □ Washington, D. C. (*D. T. Goldman*) [12/1] *8/67*

5–8 **Nuclear Electronics and Radioprotection** □ CENTRE DE PHYSIQUE ATOMIQUE ET NUCLÉAIRE DE LA FACULTÉ DES SCIENCES □ Toulouse, France (*Faculté des Science*) [10/15] *10/67*

13–15 **Electronics and Light** □ ROCHESTER INSTITUTE OF TECHNOLOGY □ Rochester, N. Y. (*A. R. Maurice*) [11/22] *1/68*

13–15 **Radiation Therapy** □ MEMORIAL SLOAN-KETTERING CANCER CENTER □ New York (*R. Phillips*) (by invitation) *1/68*

13–15 **Fluctuations in Superconductors** □ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION □ Pacific Grove, Calif. (*W. S. Goree*) *2/68*

13–16 □ OSA □ Wash., D. C. (*M. E. Warga*) [12/15] *1/68*

14–15 **Metal-Nonmetal Transitions** □ APS-IUPAP □ San Francisco (*J. C. Thompson*) [1/29] *2/68*

18–20 **Physical Electronics** □ APS □ U. of Minnesota, Minneapolis (*W. T. Peria*) *12/67*

18–21 □ APS □ Berkeley, Calif. (*W. Whaling*) *9/67*

This spring conference will be held in conjunction with the high-polymer group.

18–21 **High-Polymer Physics** □ APS □ Berkeley, Calif. (*H. D. Keith*) [12/26] *12/67*

19, 20 **Ocean Sciences and Engineering of the Atlantic Shelf** Philadelphia, Pa. (*T. Evans*) [11/1] *12/67*

21–23 **Microwave Power** □ INTERNATIONAL MICROWAVE POWER INSTITUTE □ Boston (*1968 Symposium on Microwave Power*) [1/1] *12/67*

25, 26 • **Glass Science and Technology** □ NEW YORK STATE SCIENCE AND TECHNOLOGY FOUNDATION □ Troy, N. Y. (*J. D. Mackenzie, Rensselaer Polytechnic Institute, Troy, N. Y. 12181*) *3/68*

25–28 **Organic Solid State Chemistry** □ BROOKHAVEN NATIONAL LABORATORY □ (*G. Adler*) *12/67*

28–30 **Low-Luminosity Stars** □ NATIONAL SCIENCE FOUNDATION-AAS □ U. of Virginia, Charlottesville, Va. (*S. Kumar*) *10/67*

29, 30 **Midwest Conference on Theoreti-**

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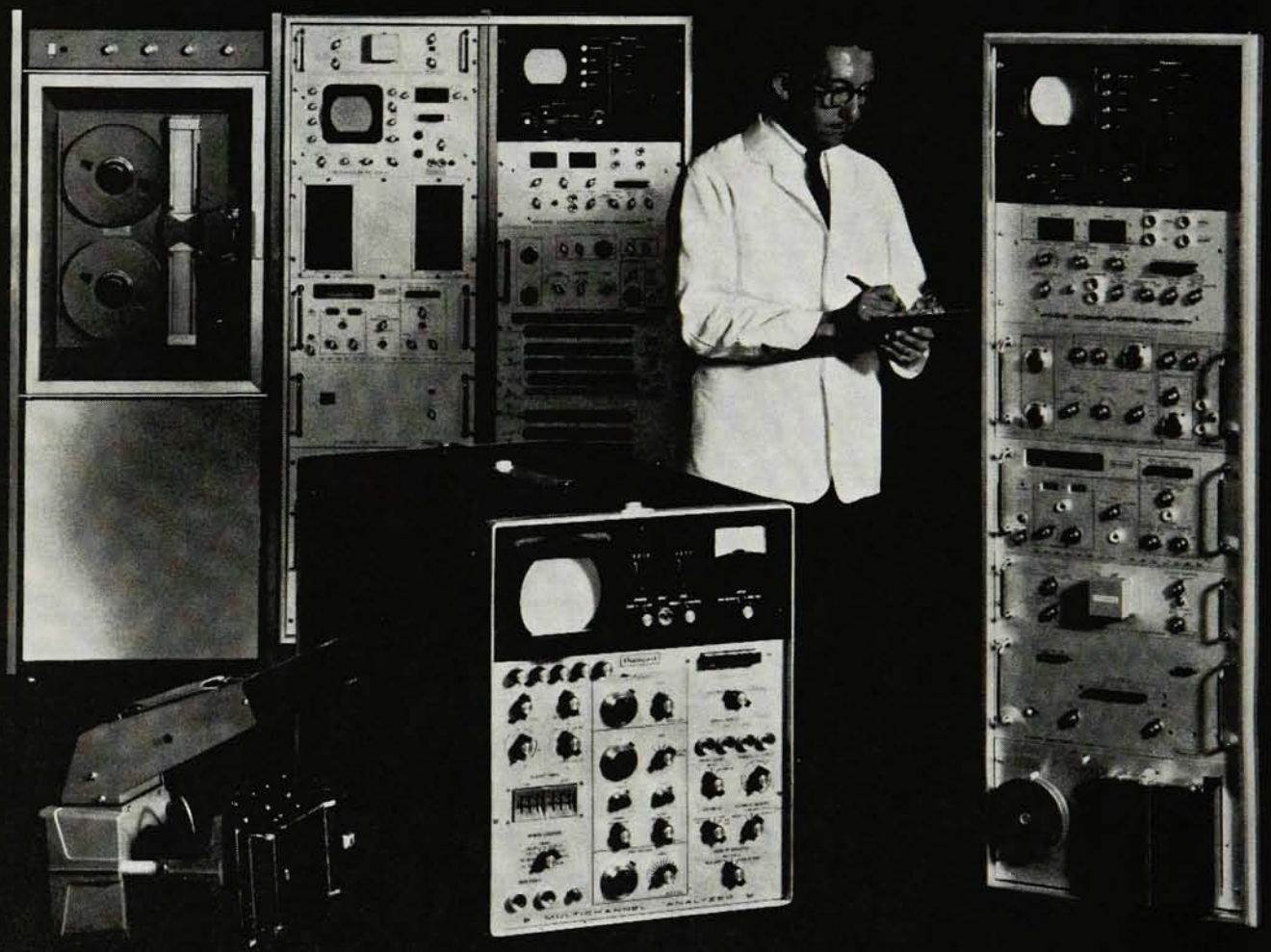

MARCH 1968

cal Physics □ U. OF MICHIGAN □ Ann Arbor (*D. Humphrey*) *1/68*

29, 30 • **Physics of Life Processes** □ NEW YORK STATE SECTION APS □ Syracuse, N. Y. (*J. W. Trischka, Physics Dept., Syracuse U., Syracuse, N. Y. 13210*) *3/68*

The spring meeting will include invited papers.

APRIL 1968

1–3 **Heavy-Particle Collisions** □ IPPS □ Belfast, Ireland (*Meetings Officer, IPPS*) [9/29] *9/67*

1–5 **Radiation Effects on Cells** □ IAEA □ Monaco (*M. Schulman*) [11/15] *1/68*

2, 3 • **Hyperfine Structure in Atoms and Solids** □ BRITISH RADIO SPECTROSCOPY GROUP □ Oxford, England (*J. M. Baker, Clarendon Lab., Parks Rd., Oxford*) [2/28] *3/68*

2, 3 **Semimetals and Narrow-Gap Semiconductors** □ IPPS □ Durham, England (*Meeting Officer, IPPS*) [1/5] *9/67*

2–4 □ AAS □ Charlottesville, Va. (*P. M. Routly*) *9/67*

3–5 **Magnetics** □ IEEE □ Washington, D. C. (*J. M. Lommel*) [12/15] *9/67*

3–5 **Engineering Aspects of Magnetohydrodynamics** □ U. OF TENNESSEE SPACE INSTITUTE □ Tullahoma, Tenn. (*L. E. Ring*) [11/27] *11/67*

5, 6 **High-Energy Physics** □ APS-NEW ENGLAND SECTION □ Tufts U., Medford, Mass. (*J. J. Quinn*) *1/68*

8–10 • **Clean Surfaces: Their Preparation and Characterization for Interfacial Studies** □ NO. CAROLINA STATE U. □ Raleigh, No. Carolina (*K. R. Crump, PO Box 5125 No. Carolina State U. Raleigh, No. Carolina 27607*) *3/68*

8–11 □ AMERICAN GEOPHYSICAL UNION □ Wash., D. C. (*W. E. Smith*) [12/22] *2/68*

8–19 **Helium** □ AMERICAN U. OF BEIRUT □ Beirut, Lebanon (*C. le Pair*) *1/68*

14–16 • □ ISRAEL PHYSICAL SOCIETY □ Jerusalem (*R. Rahman, Faculty of Science, The Hebrew University of Jerusalem, Israel*) [3/15] *3/68*

This special annual meeting will include papers on elementary particles, nuclear physics, Mössbauer effect, magnetism, magnetic resonance, neutron physics and reactor theory, relativity, space physics, solid state.

15–26 • **Multiregion Boundary - Value Problems** □ U. OF CALIFORNIA EXTENSION □ Los Angeles (*R. E. Garrels, Engineering/Physical Sciences Extension, 6532 Boelter Hall, UCLA, Los Angeles, Calif. 90024*) *3/68*

This short course covers physical boundary problems equivalent mathematically to differential equations plus suitable auxiliary conditions and methods, both analytical and numerical for their solution.

16–18 **Turbulence of Fluids and Plasmas** □ POLYTECHNIC INSTITUTE OF BROOKLYN □ New York (*J. Fox*) [1/15] *2/68*

17–19 **Electronics and Electrical Engineering** □ IEEE □ (*J. V. Leeds*) [11/1] *1/68*

17–19 **Structure Analysis** □ IPPS □ U. of York; York, England (*Meetings Officer IPPS*) [1/5] *10/67*

19, 20 □ AAPT-CENTRAL PENNSYLVANIA SECTION □ U. of Delaware, Newark (*C. B. Cooper*) *1/68*

20 □ AAPT-NEW ENGLAND SECTION □ U. of Hartford, Hartford, Conn. (*W. H. Ross*) *2/68*

20 • □ AAPT-IOWA SECTION □ Waverly, Iowa (*E. B. Nelson, U. of Iowa, Iowa City, Iowa*) *3/68*

22–24 **Thin Films** □ IPPS □ U. of Southampton, England (*Meetings Officer, IPPS*) [1/19] *10/67*

22–24 **Frequency Control** □ US ARMY ELECTRONICS COMMAND □ Atlantic City, N. J. (*M. F. Timm*) [12/15] *10/67*

22–25 □ APS □ Washington, D. C. (*W. W. Havens Jr.*) *9/67*

30–1 **The Electron Microscope** □ IIT RESEARCH INSTITUTE □ Chicago (*L. B. Alden*) *2/68*

MAY 1968

1–3 **Vacuum Ultraviolet Physics—Interaction With Solids** □ ORNL □ Gatlinburg, Tenn. (*L. C. Emerson*) [2/1] *2/68*

1–3 **Vacuum Science and Technology** □ AMERICAN VACUUM SOCIETY □ Los Angeles (*G. R. Neff*) [12/1] *12/67*

5–9 **Optical and Microwave Lasers** □ ELECTROCHEMICAL SOCIETY □ Boston (*Electrochemical Society*) *12/67*

8–10 **Electronic Components** □ IEEE-ELECTRONIC INDUSTRIES ASSOCIATION □ Wash., D. C. (*F. M. Collins*) [10/10] *10/67*

8–11 **Technical Communications** □ SOCIETY OF TECHNICAL WRITERS AND PUBLISHERS □ Los Angeles (*B. P. Sauer*) *11/67*

9–10 **Low-Energy Electron Diffraction** □ IPPS □ Harwell, England (*Meetings Officer, IPPS*) [1/15] *2/68*

12–17 • **Mass Spectrometry** □ AMERICAN SOCIETY FOR TESTING AND MATERIALS □ Pittsburgh, Pa. (*J. L. Franklin, Chem. Dept., Rice U., Houston, Tex. 77001*) *3/68*

Sixteenth annual conference.

12–18 **Universal Aspects of Atmo-**

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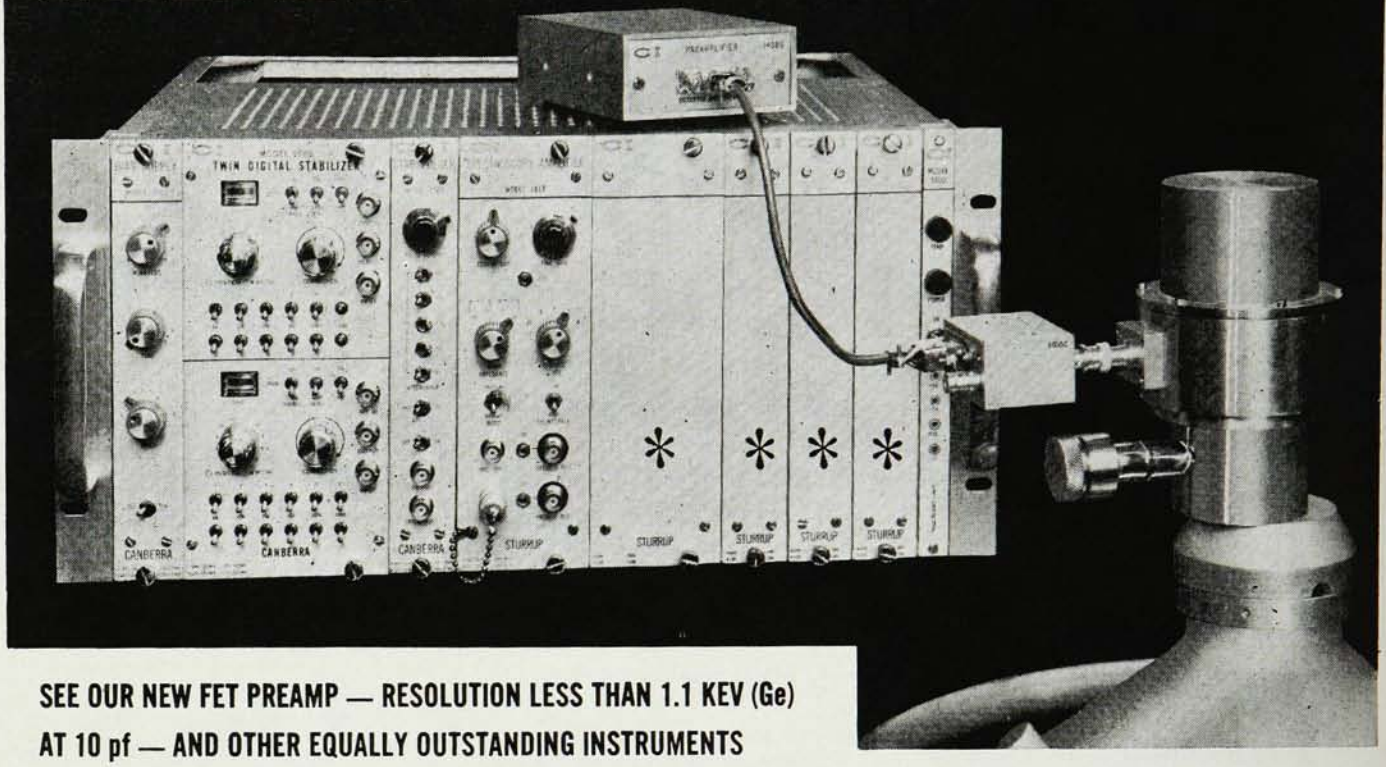

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MAY 1968

spheric Electricity □ AFCRL □ Tokyo (*Capt. J. H. Shock*) *10/67*

13–17 **Applied Spectroscopy** □ SOCIETY FOR APPLIED SPECTROSCOPY □ Chicago (*E. Lanterman*) [1/15] *10/67*

14 **Philosophy of Science** □ BOSTON U. □ Boston (*R. S. Cohen*) *12/67*

14–16 **Silicon Carbide** □ AFCRL □ University Park, Pa. (*J. W. Faust*) *2/68*

14–17 **Quantum Electronics** □ JOINT COUNCIL ON QUANTUM ELECTRONICS □ Miami, Fla. (*R. W. Terhune*) [1/8] *10/67*

20–22 • **Microwave Symposium** □ IEEE □ Detroit, Mich. (*G. I. Haddad, E. E. Dept., U. of Mich., Ann Arbor, Mich. 48104*) [1/8] *3/68*

This international symposium will cover passive microwave circuits, components and techniques for millimeter through optical wavelengths, microwave solid-state devices and integrated circuits, microwave applications of bulk and avalanche phenomena in semiconductors, ferrite devices and other topics in microwave theory and techniques.

20–24 **Neutron Inelastic Scattering** □ IAEA □ Copenhagen, Denmark (*J. Dolnicar*) [12/20] *12/67*

21–24 • □ ASA □ Ottawa, Canada (*E. A. G. Shaw, Division of Applied Physics, National Research Council, Ottawa 7, Ontario, Canada*) [2/20] *3/68*

The 75th meeting of the Acoustical Society will include special sessions devoted to new tools for speech research, nonlinear acoustics, new instruments pertaining to the measurement of noise, aerodynamically-excited vibrations in large structures and sonar-system prediction techniques.

25–31 **Economics of Nuclear Fuels** □ IAEA □ Gottwaldov, Czechoslovakia (*J. H. Kane*) [12/15] *1/68*

27–31 **Thermionic Electrical Power Generation** □ EUROPEAN NUCLEAR ENERGY AGENCY □ Stresa, Italy (*European Nuclear Energy Agency*) [12/15] *10/67*

JUNE 1968

3–6 **Atomic Physics** □ NEW YORK U □ New York (*V. W. Hughes*) (by invitation) *11/67*

9–13 **Radioisotopes** □ AMERICAN NUCLEAR SOCIETY □ Toronto (*D. G. Hurst*) [1/31] *1/68*

10–13 **Vacuum Metallurgy** □ AMERICAN VACUUM SOCIETY □ Beverly Hills, Calif. (*L. W. Sink*) *11/67*

10–14 **X-Ray Spectroscopy Clinic** □ STATE UNIVERSITY OF NEW YORK AT ALBANY □ (*H. Chessin*) *2/68*

11–14 **Optimization** □ SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS □ Toronto (*P. Wolfe*) [4/1] *1/68*

12–14 **Communications** □ IEEE □ Philadelphia (*L. Winner*) [1/15] *1/68*

16–20 □ HEALTH PHYSICS SOCIETY □ Denver, Colo. (*W. R. Hendee*) [2/1] *10/67*

17–19 □ APS □ Los Alamos, N. M. (*W. Whaling*) *10/67*

17–19 • **Microelectronics** □ IEEE □ St. Louis, Mo. (*R. Pellin, Semiconductor Materials Dept., Monsanto Co., 800 North Lindbergh, St. Louis, Mo.*) [3/15] *3/68*

Topics: developmental and experimental approaches in design, materials, processing, packaging, applications and production in microelectronics.

17–28 • **Quantum Electronics** □ U. OF ARIZONA □ Flagstaff, Ariz. (*S. F. Jacobs, Steward Observatory, U. of Arizona, Tucson, Ariz. 85721*) *3/68*

The series of lectures at this two-week symposium will include quantum theory of coherence and of the laser, superradiance, coherence in atomic transitions, scattering of laser radiation, Brillouin and Raman scattering, physics of ultrashort pulses, photon echo and self-induced transparancy.

19–21 **Structure and Chemistry of Solid Surfaces** □ LAWRENCE RADIATION LABORATORY □ Berkeley, Calif. (*C. V. Peterson*) *1/68*

23–28 **Power Conference** □ IEEE □ Chicago (*J. F. Bracken*) [2/9] *1/68*

24–26 • □ AAPT □ Tempe, Ariz. (*R. Geballe, Physics Dept., U. of Washington, Seattle, Wash. 98105*) *3/68*

24–27 **Bioastronautics and Exploration of Space** □ US AIR FORCE, MEDICAL DIVISION □ San Antonio, Tex. (*J. Harmon*) *2/68*

25–28 **Precision Electromagnetic Measurements** □ IEEE-NBS □ Boulder, Colo. (*G. Goulette*) [2/12] *12/67*

30–5 • CODATA **Conference** □ INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS □ Arnoldshain, Frankfurt/Main, Germany (*G. Waddington,* CODATA, *National Academy of Sciences, 2101 Constitution Ave. NW, Washington, D. C. 20418*) *3/68*

The first international conference of the Committee on Data for Science and Technology will be concerned with the critical evaluation of numerical property values in the physical sciences.

JULY 1968

1–31 **Theoretical Biology and Biophysics** □ AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES □ Northwestern Michigan College, Traverse City, Mich. (*H. J. Morowitz*) [2/15] *12/67*

8–10 **Marine Technology** □ MARINE TECHNOLOGY SOCIETY □ Wash., D. C. (*F. Masters*) *1/68*

8–11 **Nuclear Magnetic Resonance** □ FORD FOUNDATION-U. OF SÃO PAULO □ São Paulo, Brazil (*L. W. Reeves*) [4/20] *1/68*

8–12 • **Molecular Crystals** □ TECHNICAL UNIVERSITY "TWENTE" □ Enschede, Netherlands (*J. Kommandeur, Physical Chemistry Lab, The University, Bloem-*

JULY 1968

singel 10, Groningen, Netherlands) 3/68

Subjects covered at the 4th symposium will be exciton-phonon coupling, magnetic resonance, spectroscopy, Zeeman effect, energy relaxation, photo- and semi-conductivity, donor-acceptor complexes.

10–12 **Competing Spectrochemical Techniques** ☐ IPPS ☐ Keele, Germany (*Meetings Officer, IPPS*) [4/19] 2/68

14–20 **Combustion** ☐ COMBUSTION INSTITUTE ☐ U. of Poitiers, France (*M. W. Evans*) [12/14] 2/68

15 (through Sept. 8) **Nuclear Physics** ☐ U. OF GRENOBLE ☐ Les Houche, Haute-Savoie France (*C. Dewitt*) [3/1] *1/68*

15–18 **Electrical Contact Phenomena** ☐ IPPS ☐ University College of Swansea, Wales (*Meetings Officer, IPPS*) [2/1] *10/67*

15–18 **Orbital-Electron Capture** ☐ HUNGARIAN ACADEMY OF SCIENCES ☐ Debrecen, Hungary (*R. W. Fink*) 2/68

15–19 **Crystal Growth** ☐ AFCRL ☐ Birmingham, England (*C. S. Sahagian*) *12/67*

22–26 **Rarefied Gas Dynamics** ☐ MASSACHUSETTS INSTITUTE OF TECHNOLOGY ☐ Cambridge, Mass. (*Symposium secretary Rm. 37-412 aeronautics and astronautics dept., Massachusetts Institute of Technology*) [12/31] *11/67*

23–29 **Physics of Semiconductors** ☐ IUPAP ☐ Leningrad, USSR (*A. R. Regel*) [2/1] *12/67*

24–30 **Magnetohydrodynamic Production of Electricity** ☐ IAEA ☐ Warsaw, Poland (*M. V. Tcherniline*) [4/2] *12/67*

AUGUST 1968

1–7 **Plasmas and Controlled Nuclear Fusion** ☐ IAEA ☐ Novosibirsk, USSR (*J. H. Kane*) [1/15] *1/68*

5–23 • **Far-Infrared Properties of Solids** ☐ NATO ☐ Delft, Netherlands (*S. S. Mitra, E. E. Dept., U. of Rhode Island, Kingston, R. I. 02881*) 3/68

This NATO advanced Study Institute will include studies of anti-ferromagnetic resonance, photon-phonon interactions in perfect and imperfect lattices, ferroelectric solids, band gaps in superconductors, magnetoöptical properties of semiconductors.

6–15 **Medical Radioisotope Scintigraphy** ☐ IAEA ☐ Salzburg, Austria (*G. J. Hine & H. Vetter*) [3/1] *11/67*

7–9 **Ellipsometry** ☐ U. OF NEBRASKA ☐ Lincoln, Neb. (*N. M. Bashara*) *9/67*

11–31 • **Critical Phenomena** ☐ CANADIAN ASSOCIATION OF PHYSICISTS ☐ Banff, Alberta, Canada (*D. L. Hunter, Physics Dept., U. of Alberta, Edmonton, Alberta, Canada*) 3/68

A summer school with a series of lectures at the graduate level on all aspects, both theoretical and experimental, of phenomena in the vicinity of second-order phase transition.

12–16 ☐ ACA ☐ Buffalo, N. Y. (*D. Harker*) *10/67*

12–16 **Liquid Crystals** ☐ KENT STATE U. ☐ Kent, Ohio (*G. H. Brown*) [5/1] 2/68

21–23 ☐ AAS ☐ University of Victoria, Victoria, B. C., Canada (*G. C. McVittie*) *11/67*

21–23 **Applications of X-Ray Analysis** ☐ DENVER RESEARCH INSTITUTE ☐ U. of Denver, Colo. (*J. B. Newkirk*) *10/67*

21–28 **Low-Temperature Physics** ☐ U. OF ST. ANDREWS ☐ St. Andrews, Scotland (*D. M. Finlayson*) *10/67*

26–31 **Applied Mechanics** ☐ STANFORD U. ☐ Stanford, Calif. (*C. R. Steele*) [2/2] *10/67*

26–30 **Reactivity in Solids** ☐ INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY ☐ Schenectady, N. Y. (*R. W. Roberts*) *10/67*

27–30 **Molecular Luminescence** ☐ LOYOLA U. ☐ Chicago (*E. C. Lim*) *1/68*

SEPTEMBER 1968

3–6 **Macromolecular Chemistry** ☐ INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY ☐ Toronto (*Organizing Committee*) *1/68*

3–6 ♦ **Light Scattering Spectra in Solids** ☐ NEW YORK U. ☐ New York (*J. Birman*) [3/15] 2/68

This international conference will cover theoretical and experimental aspects of Raman, Brillouin and Rayleigh scattering and their application to investigation of the solid state. Topics: basic mechanisms of light scattering in solids, Raman scattering by elementary excitations, Brillouin scattering by acoustic phonons, light scattering as a tool to study critical fluctuations and phase transitions, and modern experimental techniques for Raman, Brillouin and Rayleigh scattering.

4–6 **Physics and Chemistry of Electrophotography** ☐ INSTITUTE OF OPTICS, U. OF ROCHESTER ☐ Rochester, N. Y. (*W. L. Hyde*) [6/1] *1/68*

9–12 **Elementary Particles** ☐ IPPS ☐ London (*Meetings Officer, IPPS*) 2/68

9–14 **Arnold Sommerfield Centennial Memorial Meeting and Symposium on Physics of One- and Two-Electron Atoms** ☐ IUPAP ☐ Munich, Germany
for memorial session: (*F. Bopp*) 2/68
for symposium: (*H. Kleinpoppen*) 2/68

9–14 **Statistical Mechanics** ☐ IUPAP ☐ Tokyo (*R. Kubo*) *1/68*

10–15 **Magnetic Oxides** ☐ INSTITUTE OF PHYSICS OF THE ACADEMY OF SR ROMANIA ☐ Bucharest, Romania (*M. Rosenberg*) *10/67*

11–13 **Physical Aspects of Noise in Electronics** ☐ IPPS ☐ (*Meetings*

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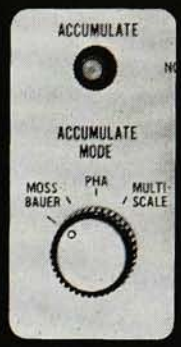

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SEPTEMBER 1968

Officer, IPPS) [5/31] *1/68*

16–21 □ 15TH AMPERE COLLOQUIUM □ St. Martin d'Hères, France (*P. Averbuch*) *9/67*

16–18 **Laser Measurements** □ INTERNATIONAL SCIENTIFIC RADIO UNION □ Warsaw, Poland (*S. Hahn*) [2/1] *10/67*

23–27 **Vacancies and Interstitials in Metals** □ IUPAP □ Jülich, Germany (*W. Schilling*) [5/15] *11/67*

25–27 **Stresses in Composite Materials** □ IPPS □ Cranfield, England (*Meetings Officer, IPPS*) [12/1] *1/68*

25–27 **Ultrasonics** □ IEEE □ New York (*F. M. Smits*) [7/15] *2/68*

OCTOBER 1968

8–11 □ OSA □ Pittsburgh, Pa. (*M. E. Warga* [7/8] *11/67*

14–18 **Packaging and Transportation of Radioactive Materials** □ ORNL-AEC □ Gatlinburg, Tenn. (*K. W. Haff*) [1/1] *2/68*

28–31 **Instrumentation** □ INSTRUMENT SOCIETY OF AMERICA □ New York (*O. W. Williams*) [2/1] *1/68*

NOVEMBER 1968

18–21 • **Magnetism and Magnetic Materials** □ AIP, IEEE □ New York (*D. T. Teaney, IBM Watson Research Center, PO Box 218, Yorktown Heights, N. Y. 10598*) *3/68*

19–21 • □ ASA □ Cleveland, Ohio (*J. L. Hunter, John Carroll U., Cleveland, Ohio 44118*) *3/68*

25–27 • □ APS □ Miami Beach, Fla. (*W. W. Havens, 335 E. 45 St., New York, N. Y. 10017*) *3/68*

DECEMBER 1968

2–4 □ AMERICAN GEOPHYSICAL UNION □ San Francisco (*J. C. Harrison*) [10/1] *2/68*

11–13 • □ AAS □ Austin, Tex. (*P. M. Routly, Princeton U. Observatory, Princeton, N. J.*) *3/68*

16–20 **Relativistic Astrophysics** □ SOUTHWEST CENTER FOR ADVANCED STUDIES □ Dallas (*I. Robinson*) *9/67*

18–20 □ APS □ San Diego (*W. Whaling*) [10/15] *2/68*

FEBRUARY 1969

3–6 • □ AAPT-APS □ New York

27–1 • □ APS □ St. Louis, Mo.

MARCH 1969

11–15 • □OSA □ San Diego, Calif. □