CALENDAR

Information in the calendar is compiled from a file maintained in the PHYSICS TODAY office. Readers are invited to write or telephone for information beyond what we print. 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: APS, American Physical Society; OSA, Optical Society of America; ASA, Acoustical Society of America; S of R, Society of Rheology; AAPT, American Association of Physics Teachers; ACA, American Crystallographic Association; AAS, American Astronomical Society; AEC, US Atomic Energy Commission; 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

OCTOBER 1967

1–15 • **Elementary Particles,** Herceg Novi, Yugoslavia (*P. Cüer*) *9/67*

2–7 □ GERMAN PHYSICAL SOCIETY □ Berlin (*E. Boersch*) *4/67*

3 (through 16 Dec.) **Condensed Matter** □ INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS □ Trieste, Italy (*ICTP*) [7/31] *7/67*

3–5 **Radiation Effects in Semiconductors** □ SANDIA LABORATORIES □ Sante Fe, N. M. (*F. L. Vook*) [6/1] *6/67*

4–6 **Circuit and Systems Theory** □ IEEE □ Monticello, Ill. (*J. B. Cruz Jr*) [8/1] *7/67*

4–6 **Ultrasonics** □ IEEE □ Vancouver, B. C. (*B. A. Auld*) [8/1] *6/67*

6–7 **Elementary Particles** □ APS □ Stony Brook, N. Y. (*O. Ames*) *9/67*

9 **Excited Materials** □ U. OF NORTH CAROLINA □ Chapel Hill, N. C. (*S. I. Choi*) *7/67*

11–13 □ OSA □ Detroit (*M. E. Warga*) *12/66*

12, 13 **Physics of Selenium and Tellurium** □ SELENIUM AND TELLURIUM DEVELOPMENT ASSOCIATION □ Montreal (*H. I. Fusfeld*) *6/67*

15–20 **Semiconductors** □ ELECTROCHEMICAL SOCIETY □ Chicago (*M. E. Jones*) [9/8] *9/67*

16–19 **Materials Research** □ NBS □ Gaithersburg, Md. (*R. S. Carter*) [6/15] *6/67*

16–20 **Fiber and Polymer Microscopy** □ MCCRONE RESEARCH INSTITUTE □ Chicago (*M. L. Fallert*) *7/67*

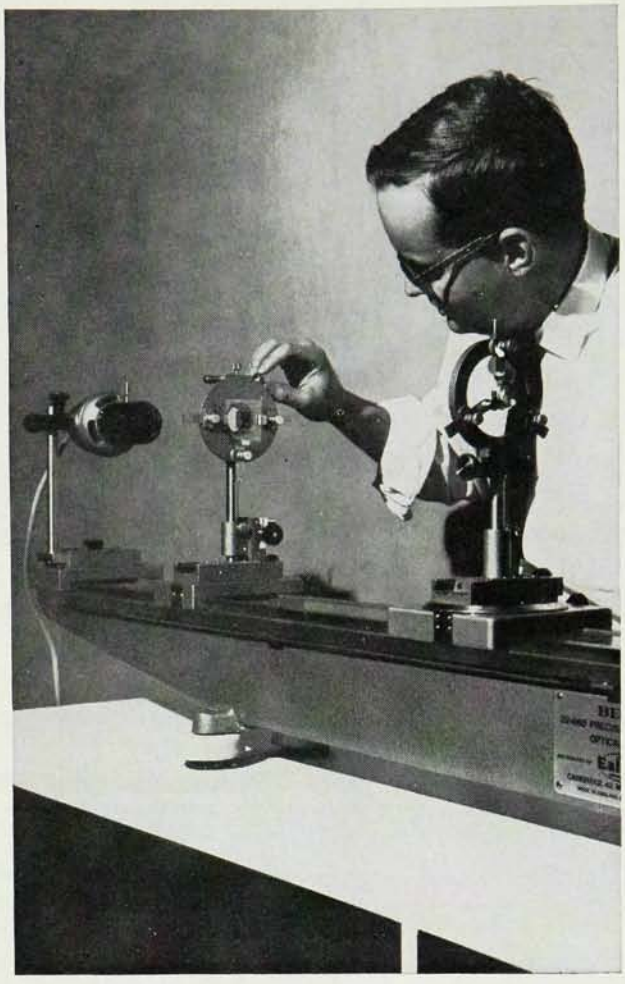
16–27 • **Cryogenic Engineering** □ UNIVERSITY OF CALIFORNIA EXTENSION, LOS ANGELES □ Los Angeles (*Engineering and Physical Sciences Extension, U. of Calif. Extension, Los Angeles, Calif. 90024*) [10/9] *10/67*

This short course will cover: thermodynamic and transport properties of fluids, refrigeration and liquefaction processes, transfer and handling of fluids including cryogenic safety, heat transfer as applied to low temperature thermal insulations systems, vacuum technology, transport and thermal properties of solids, instrumentation.

17–19 • **Antennas and Propagation** □ IEEE □ U. of Michigan, Ann Arbor (*T.B.A. Senior, Radiation Lab., U. of Mich., 201 Catherine St., Ann Arbor, Mich. 48101*) [7/1] *10/67*

Topics discussed at this symposium will include: antennas, electromagnetic theory, radio wave propagation, scattering and diffraction, radar and radio astronomy, plasma physics, radio physics.

17–20 **Nuclear Physics, Nuclear Chem-**



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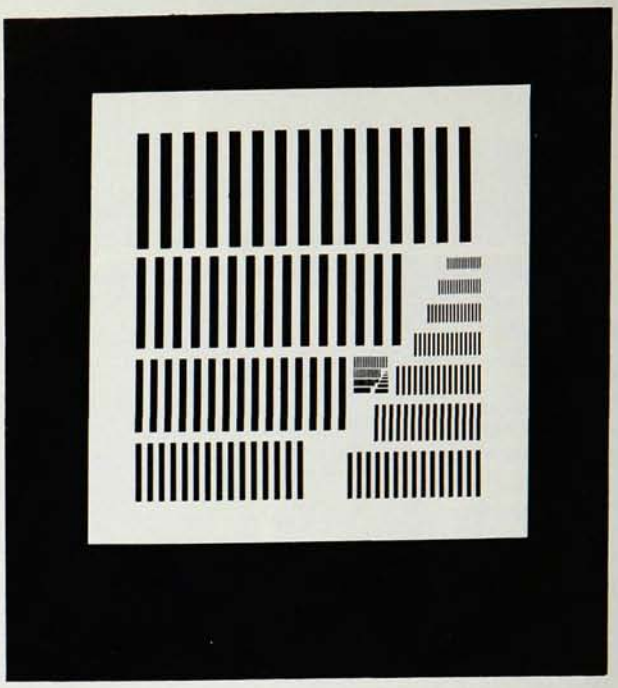

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OCTOBER 1967

istry and Elementary Particles, Warsaw, Poland (*L. Leszczynski*) 9/67

18–20 **Exploding Wires** □ AIR FORCE CAMBRIDGE RESEARCH LABORATORIES □ Boston (*W. G. Chace*) 6/67

18–20 **Gaseous Electronics** □ APS □ San Francisco (*R. N. Varney*) [9/1] 2/67

18–20 **Electron Devices** □ IEEE □ Washington, D. C. (*B. J. McMurtry*) [8/1] 7/67

20, 21 □ AAPT-APS NEW ENGLAND SECTIONS □ Lewiston, Maine
For APS: (*R. F. Kingsbury*) [9/22] 7/67
For AAPS: (*W. H. Ross*) 9/67

20, 21 • □ APS OHIO SECTION □ Columbus (*K. C. Brog, Battelle Memorial Institute, 505 Kings Avenue, Columbus, Ohio 43201*) 10/67
Invited papers at this meeting will be on the general topic of astrophysics.

23–25 □ APS NUCLEAR PHYSICS DIVISION □ Madison, Wis. (*J. A. Harvey*) [9/22] 4/67

23–25 □ s of R □ Washington, D. C. (*A. B. Bestul*) 9/67

23–25 • **Electronics** □ IEEE □ Chicago (*P. E. Mayes, E. E. Dept., U. of Illinois, Urbana, Ill. 61801*) [5/1] 10/67

This national conference will include discussions in the areas of: direct energy conversion, circuit and system theory, electronic power applications, electronic switching, engineering cryogenics, magnetics, microelectronics, optical electronics, quantum electronics.

26–28 **X-Ray Techniques in Materials Science** □ IPPS □ London (*Meetings Officer*, IPPS) [7/31] 9/67

30–31 • **Materials Research** □ U. OF MISSOURI □ Rolla, Mo. (*W. J. James Graduate Center for Materials Research, U. of Missouri at Rolla, Rolla, Mo. 65401*) 10/67

In conjunction with the dedication of its new Graduate Center for Materials Research of the University of Missouri Space Science Research Center, the University of Missouri will host an invited paper symposium on Materials Research-Problems and Prospects. The symposium will emphasize the present state of the science in selected fields and examine the more promising new analytical techniques available for its exploration. Walter R. Hibbard, director of the US Bureau of Mines and chairman of the National Academy of Science-National Research Council Materials Advisory Board will deliver the dedicatory address.
Topics: applications of the powder method in x-ray crystallography to solid state research, electrochemistry, high temperature chemistry, high temperature polymers, point defects in nonstoichiometric compounds.

30–1 • **Chemistry and Spectroscopy** □ AMERICAN CHEMICAL SOCIETY-SOCIETY FOR APPLIED SPECTROSCOPY □ Anaheim, Calif. (*D. McCarthy, Naval Weapons Center, Corona, Calif. 91720*) [7/15] 10/67
Sessions of the Society for Applied Spectroscopy will cover: atomic emission and absorption, molecular spectroscopy and fluorescence, mass spectroscopy, magnetic resonance, x-ray, nuclear methods.

31–2 **Nuclear Science** □ IEEE □ Los Angeles (*R. C. Maninger*) [6/15] 7/67

NOVEMBER 1967

1–3 **Plasmas in Open-Ended Geometry** □ ORNL □ Gatlinburg, Tenn. (*Conference Chairman*, ORNL) 6/67

1–3 • **Northeast Electronics Research and Engineering Meeting** □ IEEE □ Boston (*E. Witche, 31 Channing St., Newton, Mass.*) 10/67
Topics of this NEREM program will include: direct solid state microwave power generation, lasers, computers in math., physics and engineering, electroöptic systems, microwave electronics, new developments in holography, radar and radio astronomy.

1–3 **Diffraction** □ MELLON INSTITUTE □ Pittsburgh (*S. Diamond*) [9/11] 6/67

1–3 **Circuits and Systems** □ IEEE □ Pacific Grove, Calif. (*S. R. Parker*) [9/1] 7/67

3, 4 □ AAPT TEXAS SECTION □ Sherman, Tex. (*V. E. Bottom*) 7/67

4 • □ AAPT-MICHIGAN SECTION □ Grand Valley State College, Allendale, Mich. (*D. W. Stebbins, Michigan Technological U., Houghton, Mich.*) 10/67

4 **Midwest Solid State Conference** □ U. OF MISSOURI □ Columbia, Mo. (*E. B. Hensley*) 9/67

6, 7 **Photopolymers** □ SOCIETY OF PLASTIC ENGINEERS □ Ellenville, N. Y. (*J. M. Schiller*) 6/67

6–8 **Applied Superconductivity** □ AEC □ Austin, Tex. (*W. H. Hartwig*) [8/7] 6/67

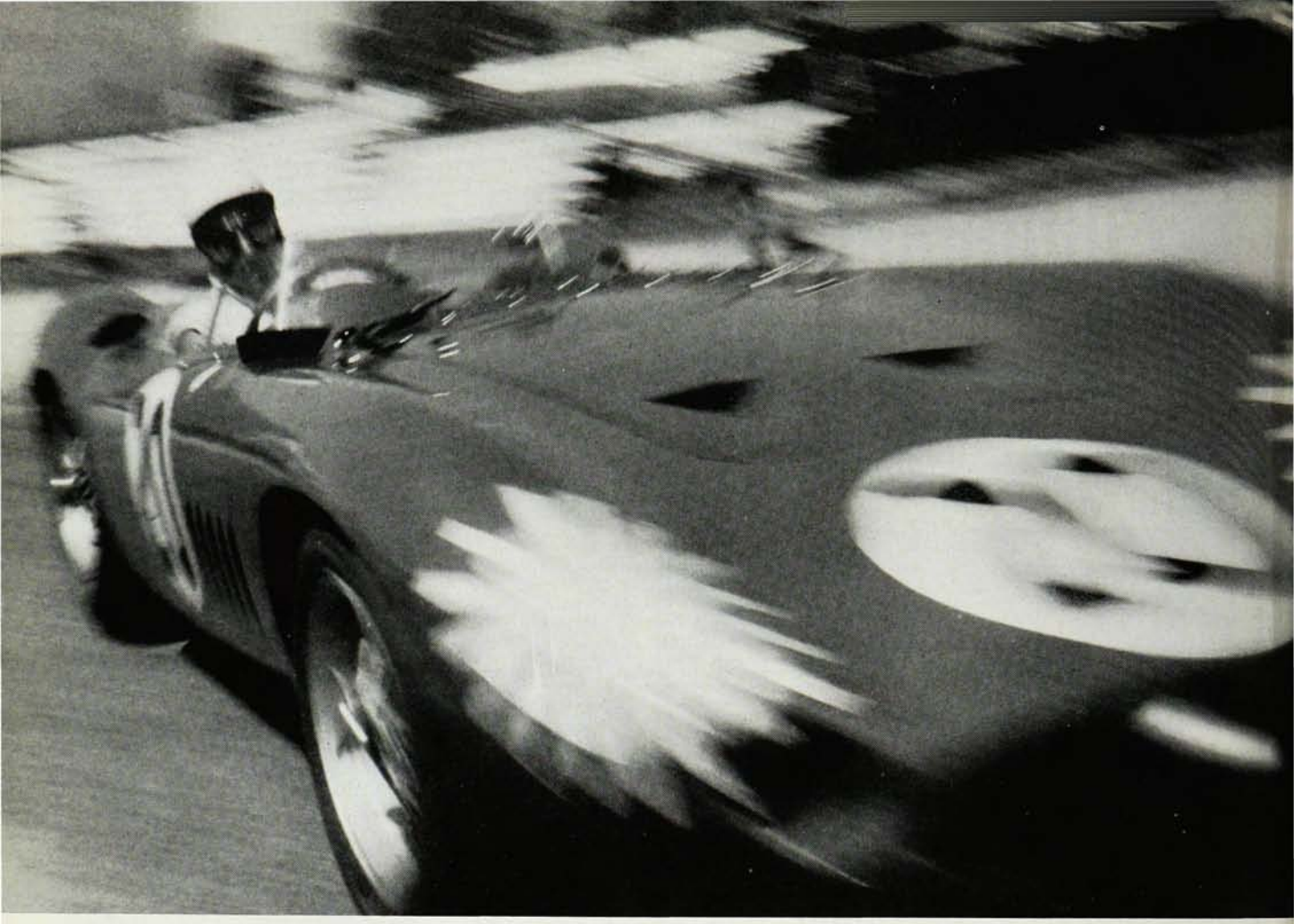
6–8 **Reliability Physics** □ IEEE □ Los Angeles (*G. T. Jacobi*) [6/15] 7/67

8–10 **Characterization of Materials** □ U. OF ROCHESTER □ Rochester, N. Y. (*G. J. Su*) 9/67

8–11 **Plasma Physics** □ APS □ Austin, Tex. (*W. E. Drummond*) [9/30] 8/67

13–15 • **Thermal Conductivity** □ NBS □ Gaithersburg, Md. (*D. R. Flynn, Building 226, Rm. B114, National Bureau of Standards, Wash., D. C. 20234*) 10/67

Topics: theoretical studies of heat conduction, correlation of experimental data and theory, new and improved methods of measuring thermal



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NOVEMBER 1967

conductivity, thermal contact conductance, instrumentation.

14–16 **Computers** □ AMERICAN FEDERATION OF INFORMATION PROCESSING SOCIETIES □ Anaheim, Calif. (*H. T. Larson*) [4/14] *7/67*

14–17 □ ASA □ Miami, Fla. (*J. C. Steinberg*) *12/66*

16–18 □ APS □ New York City (*W. W. Havens Jr*) *12/66*

18 □ AAPT IOWA SECTION □ Iowa City (*G. W. Bowen*) *7/67*

18 □ AAPT NORTHERN CALIFORNIA SECTION □ Arcata, Calif. (*L. M. Clendenning*) *9/67*

20–22 **Fluid Dynamics** □ APS □ Bethlehem, Pa. (*P. S. Klebanoff*) [10/5] *7/67*

20–22 • **Beam Foil Spectroscopy** □ U. OF ARIZONA □ Tucson, Ariz. (*S. Bashkin, Physics Dept., U. of Arizona, Tucson, Ariz. 85721*) [9/15] *10/67*

DECEMBER 1967

1, 2 □ AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE □ Chicago (*J. R. Cameron*) [10/1] *6/67*

1, 2 **πN Scattering** □ U. OF CALIF. □ Irvine, Calif. (*G. L. Shaw*) *7/67*

4 (through 20 Jan.) **Quantum Chemistry, Solid-State Physics and Quantum Biology** □ U. OF FLORIDA–U. OF UPPSALA □ Gainesville, Fla. (*Winter Institute, U. of Florida*) [10/1] *8/67*

5–7 □ AAS □ Philadelphia (*G. C. McVittie*) *2/67*

18–20 □ APS □ Pasadena, Calif. (*W. Whaling*) *9/67*

26–30 □ AAAS □ New York (*R. L. Taylor*) *9/67*

JANUARY 1968

3–6 **Solid-State Physics** □ IPPS □ Manchester, England (*Meetings Officer,* IPPS) [10/27] *8/67*

24, 25 **Health Physics** □ HEALTH PHYSICS SOCIETY □ Augusta, Ga. (*J. H. Horton*) [10/16] *8/67*

29–31 • **Laser Safety** □ US PUBLIC HEALTH SERVICE-CHILDREN'S HOSPITAL RESEARCH FOUNDATION □ Cincinnati, Ohio (*Mrs. M. S. Runck, Laser Laboratory, The Children's Hospital Research Foundation, Elland Ave. and Bethesda, Cincinnati, Ohio 45229*) *10/67*

29–31 • **Photosensitization in Solids** □ AIR FORCE CAMBRIDGE RESEARCH LABORATORIES □ Tucson, Ariz. (*N. F. Yannoni, CRFE, AFCRL, L. G. Hanscom Field, Bedford, Mass.*) (by invitation) *10/67*

29–1 □ APS □ Chicago (*R. G. Sachs*) *12/66*

29–1 □ AAPT □ Chicago (*S. S. Ballard*) *2/67*

29–2 • **Measurement Engineering** □ ARIZONA STATE U. □ Tempe, Ariz. (*P. Stein, Engineering Center, Arizona State U., Tempe, Ariz. 85281*) [1/19] *10/67*

The program emphasizes the essential unity between theoretical and experimental approaches to measurement.

FEBRUARY 1968

1–3 **Solar Astronomy** □ AAAS □ Tucson, Arizona (*N. Sheeley*) [12/7] *9/67*

4–7 □ ACA □ Tucson. Ariz. (*D. H. Templeton*) *9/67*

5–7 □ S of R □ San Diego, Calif. (*J. F. Johnson*) *9/67*

14–16 • **Solid State Circuits** □ IEEE □ U. of Pennsylvania, Philadelphia (*R. Webster, Texas Instruments Inc., PO Box 5012, MS 9, Dallas, Tex. 75222*) [10/23] *10/67*

Topics of this conference are: circuit theory, electron devices, microwave theory, magnetics. Considerable emphasis will be placed on design aspects of integrated circuits.

26–28 □ APS □ Boston (*W. W. Havens Jr*) *9/67*

26–29 • **Elementary Particles** □ INSTITUT FÜR THEORETISCHE PHYSIK DER UNIVERSITÄT GRAZ □ Schladming, Styria, Austria (*H. Kühnelt, Institut für Theoretische Physik, Universitätsplatz 5, A-8010 Graz, Austria*) *10/67*

This winterschool will cover discrete symmetries and phenomenology in elementary particle physics.

26–1 • **Lasers and Their Engineering Applications** □ U. OF CALIFORNIA EXTENSION □ Berkeley, Calif. (*Head, Engineering Extension, U. of California, Berkeley, Calif. 94720*) *10/67*

Topics of this course will be: fundamentals of quantum physics, semiconductor, chemical, gas and Q-switched lasers, nonlinear optics, stimulated Raman and Brillouin scattering, parametric amplification, light modulation and demodulation, holography, mode coupling in lasers, quantum noise in communication systems and limitations on information capacity imposed by quantum mechanics.

28–1 **Scintillation and Semiconductor Counters** □ AEC-IEEE □ Washington, D. C. (*G. A. Morton*) [11/7] *8/67*

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 FACULTE DES SCIENCES □ Toulouse, France (*Faculté des Sciences, Centre de Physique*

MARCH 1967

Atomique Nucléaire, 118 route de Narbonne, 31 Toulouse- 04- France) [10/15] *10/67*

Topics of this international symposium will include: detectors based on ionization and excitation phenomena; spectrometry and dosimetry of gamma-rays, neutrons, and high energy particles; dosimeters, the medium of which is equivalent to biological tissue; associated circuits; devices for the measurement of ambient radioactivity.

12–15 □ OSA □ Washington, D. C. (*M. E. Warga*) *9/67*

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

28–30 • **Low Luminosity Stars** □ NATIONAL SCIENCE FOUNDATION-AAS □ U. of Virginia, Charlottesville, Va. (*S. Kumar, Leander McCormick Observatory, U. of Virginia, PO Box 3818 University Station, Charlottesville, Va. 22903*) *by* invitation *10/67*

APRIL 1968

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

2–3 **Semimetals and Narrow Gap Semiconductors** □ IPPS □ Durham, England (*Meetings 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*

17–19 • **Structure Analysis** □ IPPS □ U. of York; York, England (*Meetings Officer, IPPS, 47 Belgrave Sq., London, SW 1*) [1/5] *10/67*

The program will consist of sessions on: methods of solving crystal structure, results of structure analysis, thermal vibrations, disorder and phase transitions.

22–24 • **Thin Films** □ IPPS □ U. of Southampton, England (*Meetings Officer, IPPS, 47 Belgrave Sq., London, SW 1*) [1/19] *10/67*

The conference will cover nucleation, growth and structure of thin films. Work on films prepared by chemical, electrochemical, vacuum deposition, sputtering, vapor phase reaction and oxidation techniques, will be discussed.

22–24 • **Frequency Control** □ US ARMY ELECTRONICS COMMAND □ Atlantic City, N.J. (*M. F. Timm, Electronics Components Laboratory, US Army Electronics Command, Fort Monmouth, N.J. 07703*) [12/15] *10/67*

This symposium will cover progress in research and development of quartz crystal devices, piezoelectric filters, oscillator and frequency synthesis circuits, fundamental properties of quartz, atomic and molecular resonance devices.

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

MAY 1968

8–10 • **Electronic Components** □ IEEE-ELECTRONIC INDUSTRIES ASSOCIATION □ Wash., D. C. (*F. M. Collins, Speer Research Laboratory, Packard Road & 47th St., Niagara Falls, N. Y. 14302*) [10/10] *10/67*

The scope of the program will include: linear and non-linear resistive, capacitive, inductive and magnetic components; materials, processes and protective systems for film integrated components and circuits; electroöptics, magnetics, time delay, microwave integrated circuits, electrochemical, and electromechanical devices; new concepts, materials, devices, modules, hybrid circuits, integration of new components and microelectronic circuit developments into equipment and circuit packaging.

12–18 • **Universal Aspects of Atmospheric Electricity** □ AIR FORCE CAMBRIDGE RESEARCH LABORATORIES □ Tokyo (*Capt. J. H. Shock, CRTE, L. G. Hanscom Field, Bedford, Mass.*) *10/67*

13–17 • **Applied Spectroscopy** □ SOCIETY FOR APPLIED SPECTROSCOPY □ Chicago (*E. Lanterman, Borg-Warner Corp., R. C. Ingersoll Research Center, Wolf and Algonquin Roads, Des Plaines, Ill. 60018*) [1/15] *10/67*

All areas of theoretical and applied spectroscopy will be covered, including: activation analysis, arc-spark emission, atomic absorbtion, far infrared, flame emission, infrared mass spectrometry, molecular luminescence, nuclear particle and gamma ray, Raman, solid state, ultraviolet and visible, x-ray.

14–17 • **Quantum Electronics** □ JOINT COUNCIL ON QUANTUM ELECTRONICS □ Miami, Fla. (*R. W. Terhune, Ford Motor Co., PO Box 2053, Dearborn, Mich. 48121*) [1/8] *10/67*

Fields to be covered in this international conference are: basic theory and basic physics of masers and lasers, optical parametric interactions and devices, advances in quantum electronic devices and technology, applications of quantum electronics, related topics in physics, electronics, and optics.

27–31 • **Thermionic Electrical Power Generation** □ EUROPEAN NUCLEAR ENERGY AGENCY □ Stresa, Italy (*European Nuclear Energy Agency, 38 boulevard Suchet, Paris 16e, France*) [12/15] *10/67*

Topics: convertor performance, plasma and surface phenomena, materials (including nuclear fuels), in-pile studies, heat pipes and related devices, integrated systems.

JUNE 1968

16–20 • □ HEALTH PHYSICS SOCIETY □ Denver, Colo. (*W. R. Hendee, Radiology Dept., U. of Colorado Medical Center, 4200 E. 9th St., Denver, Colo. 80220*) [2/1] *10/67*

17–19 • □ APS □ Los Alamos, N. M. (*W. Whaling, California Institute of Technology, 1201 E. California St., Pasadena, Calif. 91109*) *10/67*

JULY 1968

15–18 • **Electrical Contact Phenomena** □ IPPS □ University College of Swansea, Wales (*Meetings Offi-*

cer, IPPS, 47 Belgrave Sq., London, SW 1) [2/1] *10/67*

AUGUST 1968

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

12–16 • □ ACA □ Buffalo, N. Y. (*D. Harker, Roswell Park Mem. Inst., Buffalo, N. Y. 14203*) *10/67*

21–23 • **Applications of X-Ray Analysis** □ DENVER RESEARCH INSTITUTE □ U. of Denver, Colo. (*J. B. Newkirk, Metallurgy Dept., U. of Denver, Denver, Colo. 80210*) *10/67*

21–28 • **Low Temperature Physics** □ U. OF ST ANDREWS □ St Andrews, Scotland (*D. M. Finlayson, School of Physical Sciences, U. of St Andrews, North Haugh, St Andrews, Scotland*) *10/67*

26–31 • **Applied Mechanics** □ STANFORD U. □ Stanford, Calif. (*C. R. Steele, 12th International Congress of Applied Mechanics, PO Box 5789, Stanford, Calif. 94305*) [2/2] *10/67*

26–30 • **Reactivity in Solids** □ INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY □ Schenectady, N. Y. (*R. W. Roberts, General Electric R&D Center, PO Box 8, Schenectady, N. Y. 12301*) *10/67*

The sessions of this symposium will cover the following topics: crystal structures, surfaces, defects and diffusion processes in chemical reaction involving solids, and the nucleation and growth of new phases in solid state reactions; thermal and photochemical decomposition reactions of inorganic compounds and reactions of elements, alloys and chemical compounds with gases and solutions; production of crystalline solids from reactants in the gaseous phase; chemical reactions in vitreous solids, chemical reactions in high pressure systems.

SEPTEMBER 1968

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

10–15 • **Magnetic Oxides** □ INSTITUTE OF PHYSICS OF THE ACADEMY OF SR ROMANIA □ Bucharest, Romania (*M. Rosenberg, Institute of Physics, Calea Victoriei 114, Bucharest, Romania*) *10/67*

Topics: exchange and magnetic ordering, electronic structure, crystalline field, transport, magnetic anisotropy and after effect, domain structure and magnetization processes, optical properties, Mössbauer effect, magnetic resonance and relaxation, chemical properties and single crystal growth of magnetic oxides, important new applications of magnetic oxide materials.

16–18 • **Laser Measurements** □ INTERNATIONAL SCIENTIFIC RADIO UNION □ Warsaw, Poland (*S. Hahn, Komitet Narodowy URSI, Warsaw IPPT, Swietokrzyska. 21 Poland*) [2/1] *10/67*

DECEMBER 1968

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