

CALENDAR

Information in the calendar is compiled from a file maintained in the PHYSICS TODAY editorial offices. 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. Readers are invited to write or telephone for additional information.

• new listing ♦ new information

June 1967

15-17 **High-Energy Radiation Therapy Dosimetry** (New York City) *PT March 1967*

15-17 **American Association of Physics Teachers** (St. Lawrence U., Canton, N.Y.) *PT Feb. 1967*

18-22 **Health Physics Society** (Washington, D.C.) *PT Jan. 1967*

18-23 **Kinetics of Reactions in Ionic Systems** (Alfred, N.Y.) *PT Dec. 1966*

19 (through 25 Aug.) **Theoretical Physics** (U. of Colorado) *PT Dec. 1966*

19-23 **Colloquium Spectroscopicum Internationale** (Carleton U., Ottawa) *PT Dec. 1966*

19-23 **Phase Transitions of the Second Kind** (Cleveland) *PT Jan. 1967*

19-23 **Electronics** (Rome, Italy) *PT Apr. 1967*

19-28 **Physics of the Magnetosphere** (Boston College, Massachusetts) *PT Dec. 1966*

19-30 **Infrared Spectroscopy** (M.I.T.) *PT May 1967*

19-30 **Tunneling Phenomena in Solids** (Danish AEC Research Establishment Risø, Denmark) *PT May 1967*

19-2 **Cosmic Rays** (Alberta, Canada) *PT Apr. 1967*

19 (through 28 July) **Topics in Scattering Theory** (Waltham, Mass.) *PT Apr. 1967*

20 (through July 18) **Fundamental Problems in Statistical Mechanics** (Noordwijk aan Bee, Netherlands) *PT March 1967*

20-22 ♦ **Twenty-Second Calorimetry Conference** (Thousand Oaks, Calif.) *PT June 1967*

Contact: D. L. Hildenbrand, Douglas Advanced Research Laboratory, Huntington Beach, Calif. 92648

21-23 **American Physical Society** (Toronto) *PT Dec. 1966*

27-29 ♦ **Thermal Reactor Design** (London) *PT June 1967*

This is an international conference emphasizing physics problems in the design of thermal reactors.

Contact: Secretary, The British Nuclear Energy Society, 1-7 Great George St., Westminster, London, SW 1, England

27-2 **Thin Films** (Budapest) *PT Dec. 1966*

28-30 ♦ **Joint Automatic Control Conference** (Philadelphia) *PT June 1967*

Contact: L. Winner, 152 W. 42 St., N. Y. 10036

29-30 ♦ **Metal Matrix Composites** (Boston) *PT June 1967*

The Air Force Materials Laboratory, Wright-Patterson AFB and ASTM are cosponsors of this conference on influence of sample fabrication on mechanics and/or properties of metal composites, micromechanics and microstrains of metal composites, and yield and fracture studies on metal composites.

Contact: J. A. Herzog, Wright-Patterson AFB, Ohio

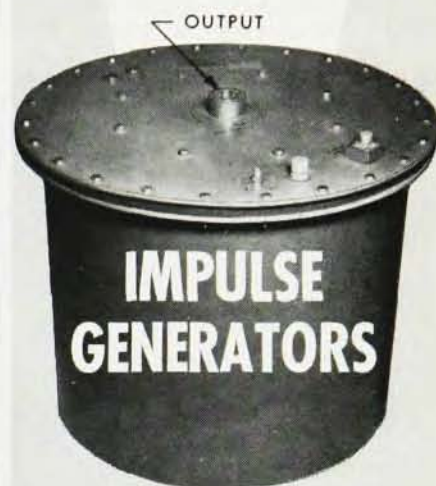
July 1967

3-5 **Electron Diffraction** (London) *PT Jan. 1967*

3-13 **Quantum Electronics** (Steamboat Springs, Colorado State U.) *PT May 1967*

4 (through 25 Aug.) **Many-Body**

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Communication Engineer (MS/Ph.D.) with experience in command control, information handling processing and systems analysis, or communication theory, modulation concepts and system optimization.

Physicist (Ph.D.) with background in electromagnetic scattering theories from hard objects and plasmas, also familiar with analyzing radar data.

Mechanical Engineer (MS/Ph.D.) with experience in solid mechanics, to perform analyses in a wide variety of problems associated with nuclear and chemical explosions. These include blast and cratering, energy and momentum coupling, and shock phenomena in various earth materials.

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Physicist (Ph.D.) with theoretical research experience in reentry physics, astrophysics, radiative transfer, upper atmospheric chemical kinetics, atomic and molecular structure, and plasma spectroscopy.

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Aerospace San Bernardino needs physicists to study nuclear effects on advanced missile systems



July 1967

Physics (Les Houches, France)
PT Dec. 1966

4-7 High-Energy Molecular Beams
(Cannes) PT Jan. 1967

6,7 • Spectroscopy (U. of Birmingham, England) PT June 1967

The Institute of Physics and The Physical Society are sponsoring this conference on advances in spectroscopic accuracy, particularly in atomic absorption, emission and x-ray methods. Topics include sampling sources, detectors, evaluation and general instrumentation.

Contact: Meetings Officer, The Institute of Physics and The Physical Society, 47 Belgrave Sq., London, SW 1, England

10-12 Astronomical Optics (Imperial College, London) PT May 1967

10-14 • Radiation Effects (Ohio State U.) PT June 1967

This annual IEEE conference on nuclear and space radiation effects is sponsored by the Office of Naval Research, Air Force Office of Scientific Research, and Office of the Chief of Research and Development. There will be three parts to the conference: a symposium (with papers by S. Wagner and B. Ancker), technical sessions (with papers on dosimetry and nuclear measurements, radiation effects on semiconductors, short-term annealing, displacement damage effects in devices, ionization effects in MOS devices, transient effects in devices and materials and ionization effects in insulation) and round-table discussions.

Contact: S. E. Harrison, Mail No. 717, Radiation Physics Section, Martin Marietta Corporation, Baltimore, Md. 21203

10-21 Structure Changes in Ceramics (Harvard) PT May 1967

15-18 Electrical Contact (University College of Swansea) PT May 1967

16 (through 31 Aug.) Battelle Seattle Rencontres in Mathematics and Physics (Seattle) PT Jan. 1967

17-28 Modern Optics (UCLA) PT May 1967

17-21 Neutron Thermalization and Reactor Spectra (U. of Michigan) PT Dec. 1966

17-23 Physics of Electronic and Atomic Collisions (Leningrad) PT Dec. 1966

Systems Research at CAL: BALLISTIC MISSILE DEFENSE

Since the mid-1950's, Cornell Aeronautical Laboratory, Inc. has maintained a continuing research program in the technologies relevant to ballistic missile defense. Current activities include analytical studies leading to component requirements of various terminal defense concepts as well as planning of field experiments designed to advance such problem areas as interceptor technology. Other efforts concentrate on determining target characteristics useful to AICBM systems and involves definition of potential targets, including their expected motions, both outside the atmosphere and during reentry. Considerable attention is directed toward radar discrimination problems. In an associated area, the Laboratory is participating in a major program to gather accurate radar measurements of reentry vehicles.



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At CAL, systems research encompasses extensive programs for tactical and strategic weapon systems which, in addition to AICBM investigations, include penetration aids for tactical aircraft, new delivery techniques for chemical munitions, command and control techniques for air and sea operations, and advanced research on reconnaissance and surveillance systems.

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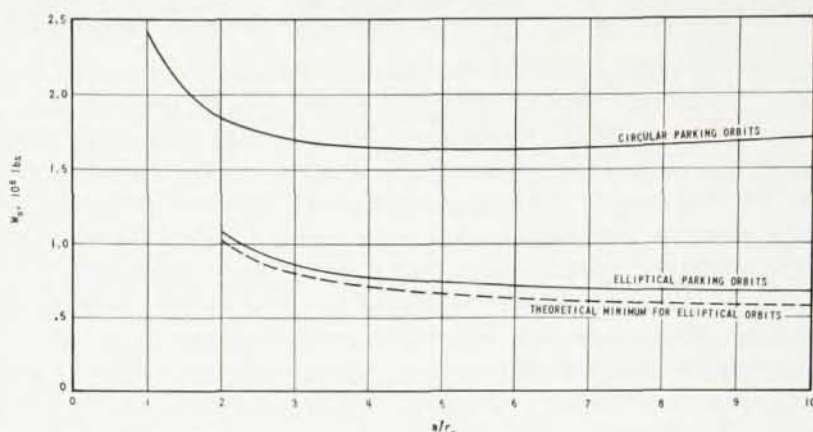
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July 1967

17-28 **Applied Optics** (London, England) *PT Apr. 1967*

17-29 ♦ **Particle Physics** (Varenna, Italy) *PT May 1967*

18-23 **Laser Applications** (Paris, France) *PT Apr. 1967*

24-4 **Scattering and Collision Processes** (Istanbul, Turkey) *PT Apr. 1967*

27-3 • **Theoretical Physics** (Liperi, Finland) *PT June 1967*

This summer school, organized by the Research Institute for Theoretical Physics of the U. of Helsinki in cooperation with the Northern Karel-ian Summer University, is mainly intended for graduate students. The subjects will be elementary particle physics and many-body theory. Lecturers include H. Abarbanel (Princeton), C. Callan (Princeton), J. Hamilton (Copenhagen), R. Roskies (Rutgers), P. Singer (Haifa), G. E. Brown (Copenhagen), P. G. De Gennes (Orsay) and D. J. Thouless (Birmingham).

Contact: Nils Mustelin, Research Institute for Theoretical Physics, Siltaavuorenpenger 20 B, Helsinki 17, Finland

31-4 **Nuclear Structure** (Tilton, N.H.) *PT May 1967*

31-11 • **Laser Propagation Through the Atmosphere** (Ohio State U.) *PT June 1967*

This concentrated course sponsored by Ohio State University covers absorption and scattering at laser wavelengths, turbulence degradation by the atmosphere and high-intensity propagation effects.

Contact: R. K. Long, Ohio State U., ElectroScience Laboratory, 1320 Kinnear Road, Columbus, Ohio 43212

31-11 **Earth's Particles and Fields** (Stadt Freising, Germany) *PT March 1967*

31-19 **Quantum Optics** (Varenna, Italy) *PT May 1967*

August 1967

1 (through 2 Sept.), **Quantum Chemistry, Solid-State Physics and Quantum Biology** (Uppsala, Sweden) *PT Apr. 1967*

7-2 **Continuum Mechanics** (Virginia Polytechnic Institute) *PT March 1967*

7-9 • **Ellipsometry** (U. of Nebraska) *PT June 1967*

August 1967

Contact: N. M. Bashara, Electrical Materials Laboratory, U. of Nebraska, Lincoln, Nebraska 68508

- 7-18 Nuclear and Particle Physics (McGill U., Montreal) *PT May 1967*
- 9-11 Applications of X-Ray Analysis (Denver) *PT March 1967*
- 13-21 Crystallography (State U. of New York at Stony Brook) *PT May 1967*
- 14-25 Strong and Weak Interactions (U. of Hawaii) *PT May 1967*
- 20-25 American Crystallographic Association (Minneapolis) *PT March 1967*
- 21-1 Electrons in Metals (Alta Lake, British Columbia) *PT March 1967*
- 21-1 Nuclear Reactor Safety (M.I.T.) *PT May 1967*
- 27-2 Phenomena in Ionized Gases (Vienna) *PT Dec. 1966*
- 27-3 International Union of Pure and Applied Chemistry (Prague) *PT Dec. 1966*
- 28-30 Electronic Materials (New York City) *PT May 1967*
- 28-1 Atomic Masses (U. of Manitoba) *PT Jan. 1967*
- 28-1 Particles and Fields (University of Rochester) *PT March 1967*
- 29-31 • High Frequency Generation and Amplification (Cornell U.) *PT June 1967*

This conference, sponsored by the Office of Naval Research in cooperation with IEEE, includes topics of Gunn and Read oscillators and other solid state plasma effects and devices, laser and nonlinear optic generators, acoustic and electromagnetic wave interactions, parametric and tunnel diode elements, microwave transistors, electron beam and gaseous plasma high frequency generators and amplifiers, and active signal processing systems.

Contact: L. Eastman, School of Electrical Engineering, Cornell U., Ithaca, N.Y. 14850

- 29-1 • Electron Microscopy Society Meeting (Chicago) *PT June 1967*
Contact: R. K. Hart, Argonne National Laboratory D212, Argonne, Illinois

- 31-2 American Physical Society (Seattle) *PT Dec. 1966*

- 31-6 Low Temperatures (Madrid) *PT March 1967*

September 1967

- 4-8 The Strength of Metals and Alloys (Tokyo) *PT March 1967*
- 4-10 International Congress of Pure and Applied Chemistry (Prague) *PT Dec. 1966*
- 4-16 Dosimetry of Radiation (Universite Libre de Bruxelles) *PT May 1967*
- 5-7 Quasars (Manchester, England) *PT Apr. 1967*
- 5-8 Solid-State Devices (University of Manchester) *PT March 1967*
- 5-9 Molecular Structure and Spectroscopy (Ohio State U.) *PT Jan. 1967*
- 5-9 Electron and Photon Interactions at High Energies (Stanford Linear Accelerator Center) *PT March 1967*
- 6-8 ♦ II-VI Semiconducting Compounds (Providence, R.I.) *PT Feb. 1967*
- 7-13 Nuclear Structure (Tokyo) *PT Dec. 1966*
- 11-13 Atomic Spectroscopy, by invitation (National Bureau of Standards, Gaithersburg) *PT March 1967*
- 11-15 High-Energy Accelerators (Cambridge) *PT Dec. 1966*
- 11-16 Magnetism (Boston) *PT March 1967*
- 13,14 High-Voltage Insulation in Vacuum (London) *PT Jan. 1967*
- 16-21 Fifteenth A.M.P.E.R.E. Colloquium (Domaine University, France) *PT May 1967*
- 17-20 High Temperature Technology (Asilomar, California) *PT May 1967*
- 18-22 Localized Excitations in Solids (Irvine, Calif.) *PT Jan. 1967*
- 18-22 • Theory and Computers (Rome) *PT June 1967*
Contact: Secretariat, International Council of Scientific Unions, Via Sebenico 2, Rome, Italy
- 18-23 • Stochastic Problems in Underwater Sound Propagation (La Spezia) *PT June 1967*
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September 1967

tute program, sponsored by the Italian Navy, will present lectures on sound propagation in a random medium, signal noise and reverberation, detection problems, and oceanography.

Contact: M. Federici, USEA, Via Paolo Montegazza nr. 23 S. Terenzo, La Spezia, Italy

18-29 • Inorganic Materials (Penn State U.) PT June 1967

This two-week course sponsored by the materials research laboratory of Penn State U. emphasizes oxides, sulfides and halides. Topics include crystal chemistry, phase equilibria, crystal growth, materials characterization by x-ray, electron microscope, microprobe, spectroscopic techniques, characterization of point line and surface defects.

Contact: Conference Center, Penn State U., University Park, Pa.

20-22 • Stress Analysis in Bioengineering (University College, London) PT June 1967

Sponsored by The Institute of Physics and The Physical Society, this annual conference is concerned with recent work involving whole or part body reactions to passive or dynamic force systems. The results are related to the strain or deformation, actual stress or force per unit area experienced by the tissue.

Contact: Meetings Officer, The Institute of Physics and The Physical Society, 47 Belgrave Sq., London, SW 1, England

21-22 ♦ Electrodeless Breakdown of Gases (Leatherhead, England) PT May 1967 (See May 1967 under October 21-22 listing for further information)

26-28 Reactor Shielding Design (Harwell, England) PT Apr. 1967

26-28 Magnetic Materials and Their Applications (London) PT Dec. 1966

October 1967

2-7 German Physical Society (Berlin, Germany) PT Apr. 1967

3-5 • Radiation Effects in Semiconductors (Santa Fe) PT June 1967

This international conference will be sponsored by Sandia laboratory and supported by the US Atomic Energy Commission. Subjects will be fundamental properties of primary defects; mechanisms of defect production; motion, interaction and annealing defects; and new experimental approaches to defects in semiconductors.

Abstracts deadline: earliest possible date. Contact: F. L. Vook, Or-

ganization 5211, Sandia Corporation,
P. O. Box 5800, Albuquerque, N. M.
87115

October 1967

4-6 • Ultrasonics (Vancouver, B.C.) PT June 1967

This symposium, sponsored by the IEEE group on sonics and ultrasonics, features topics on ultrasonic and microwave acoustic devices, biological and medical ultrasonics, industrial ultrasonics, physical acoustics, materials, continuum mechanics and lattice dynamics.

Abstracts deadline: earliest possible date. Contact: B. A. Auld, W. W. Hansen Laboratories of Physics, Stanford U., Stanford, Calif. 94305

11-13 Optical Society of America (Detroit) PT Dec. 1966

12,13 • Physics of Selenium and Tellurium (Montreal) PT June 1967

This international symposium is sponsored by the Selenium-Tellurium Development Association, Inc. The four major topics are band structure, crystal growth and characterization, optical properties and electrical properties. G.M.B. Abdullaev and S. Shalyt will be among the speakers.

Contact: H. I. Fushfeld, Selenium-Tellurium Association, Inc., 11 Broadway, N.Y., N.Y. 10004

16-19 • Materials Research (Gaithersburg) PT June 1967

The National Bureau of Standards will sponsor the second materials research symposium on molecular dynamics and structure of solids. Primary emphasis will be placed on correlation of structural and dynamic information obtained by various experimental techniques applied to the study of solids. The symposium will include studies of inorganic solids (including hydrogen-bonded systems), organic crystals, polymers, and bio-molecules.

Abstracts deadline: 15 June. Contact: R. S. Carter, 2nd IMR Symposium, National Bureau of Standards, Washington, D. C. 20234

18-20 • Exploding Wires (Boston) PT June 1967

Contact: W. G. Chace, CRFA, AFRL, L. G. Hanscom Field, Bedford, Mass.

18-20 Gaseous Electronics (San Francisco) PT Jan. 1967

23-25 APS Nuclear Physics Division (Madison, Wis.) PT Apr. 1967

25-27 American Vacuum Society (Kansas City, Mo.) PT March 1967

November 1967

1-3 • Diffraction (Mellon Institute, Pittsburgh) PT June 1967

This annual conference sponsored by the Mellon Institute covers crystallography, electron diffraction and microscopy, x-ray diffraction, crystal physics and chemistry and metallurgy. H. S. M. Coxeter (U. of Toronto) will be the guest speaker.

Contact: S. Diamond, US Steel Corp., Applied Research Laboratory, Monroeville, Pa. 15146

1-3 • Plasmas in Open-Ended Geometry (Oak Ridge National Laboratory) PT June 1967

Sponsored by Oak Ridge National Laboratory, the conference is concerned with research on plasmas in certain magnetic traps.

Contact: Conference Chairman, ORNL, Oak Ridge, Tenn. 37830

6,7 • Photopolymers (Ellenville, N.Y.) PT June 1967

This regional conference sponsored by the Society of Plastics Engineers will concentrate on photopolymers and the demands of new generation electronics and graphics. Subjects include sensitometry, photocrosslinkable polymers, photopolymers from monomers and industrial and developmental applications.

Abstracts deadline: as soon as possible. Contact: J. M. Schiller, Route #52, Hopewell Junction, N.Y. 12533

6-8 • Applied Superconductivity (Austin, Texas) PT June 1967

The US Atomic Energy Commission and U. of Texas are sponsoring this conference. Invited and contributed papers cover high-field magnets, flux pumps, transmission lines, magnetometers, accelerators and electron microscopes.

Abstracts deadline: 7 Aug. Contact: W. H. Hartwig, Electronic Materials Research Laboratory, U. of Texas, Austin, Texas 78712

14-17 Acoustical Society of America (Miami) PT Dec. 1966

16-18 American Physical Society (New York City) PT Dec. 1966

December 1967

1,2 • American Association of Physicists in Medicine (Chicago) PT June 1967

Abstracts deadline: 1 Oct. Contact: J. R. Cameron, Dept. of Radiology, University Hospitals, Madison, Wisconsin 53706

5-7 American Astronomical Society (Philadelphia) PT Jan. 1967 □

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