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

May 1967

- 15-18 Spectroscopy (Chicago) PT Dec. 1966
- 22-24 Electromagnetic Sizes of Nuclei (Ottawa, Canada) PT Apr. 1967 Contact: M.K. Sundaresan, Physics Department, Carleton University, Ottawa, Canada
- 24-26 Canadian High-Polymer Forum (Quebec) PT Dec. 1966
- 25 Photochromism (Letchworth College of Technology, England) PT Dec. 1966
- 26, 27 Midwest Conference on Theoretical Physics (U. of Illinois) PT Dec. 1966
- 26,27 Surface Physics (Washington State U.) PT May 1967 Contact: E. E. Donaldson, Dept. of Physics, W.S.U., Pullman, Wash. 99163
- 29-31 International Conference, Exhibit and World Review on Nuclear Reactors and Radioisotopes (Montreal) PT Dec. 1966

June 1967

- 4-17 Recent Advances in Astronomy and Cosmology (U. of Nebraska) PT Feb. 1967
- 5-10 X-Ray Spectroscopy (State U. of New York at Albany) PT May 1967

This program includes lectures in theory and application of spectroscopic techniques, with supervised instruction in the laboratory.

Contact: H. Chessin, Physics Department, State U. of New York at Albany, 1223 Western Ave., Albany, N.Y. 12203

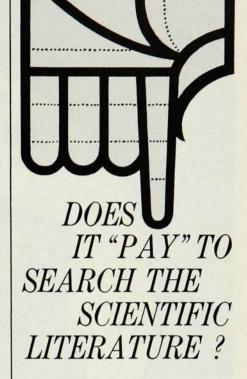
- 6-7 Deposition of Thin Films by Sputtering (U. of Rochester) PT Jan. 1967
- 7-9 Industrial Physics—the Contribution of Government-Sponsored Laboratories (Harrogate) PT Jan. 1967

- 8-17 Solid Mechanics (Brown U.) PT Jan. 1967
- 12 (through 1 Sept.), Gordon Research Conferences PT Apr. 1967
- 12–17 Radiation Dose Measurements (Stockholm, Sweden) PT Apr. 1967
- 12-13 Inter-Society Color Council (New York City) PT Dec. 1966
- 12 (through 12 Aug.) Health Physics (Oak Ridge, Tenn.) PT Apr. 1967
- 13-15 Vacuum Metallurgy (New York City) PT Dec. 1966
- 13-15 American Astronomical Society (Yerkes Observatory) PT Dec. 1966
- 13-16 Conjugate-Point Phenomena (Boulder) PT Dec. 1966
- 14-17 Conference of International Federation of Documentation and International Federation for Information Processing (Rome)

 PT May 1967

Contact: Secretariat, Rassegna Internazionale Elettronica, Nucleare e Teleradiocinematografica, Ufficio Congressi, Via Crescenzio 9, Rome, Italy

- 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



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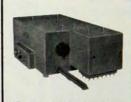
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June 1967

- 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

19-24 • Low Energy Nuclear Physics (U. of Maryland) PT May 1967

Arranged in cooperation with the NAS-NRC subcommittee on nuclear structure, this symposium is of interest to those engaged in or planning research programs with accelerators up to about 5 MeV. Topics cover both technical and theoretical aspects of low energy nuclear problems. Small-college nuclear physicists are particularly invited.

Contact: J. B. Marion, Dept. of Physics and Astronomy, U. of Mary-

land, College Park, Md.

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

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

There will be two programs:
Technique (19–23 June) and Applications (26–30 June). Lectures cover theoretical basis of infrared spectra; principal group frequencies; integrated intensities in solving structural problems; hydrogen bond spectra, solvents and other external effects; relation of infrared to Raman spectra; near and far infrared regions. Raman effect as a source of molecular information which is complementary to infrared will be emphasized. Early application in the laboratory course is advisable.

Contact: Director of the Summer Session, M.I.T., Cambridge, Mass.

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

The advanced study institute is sponsored by the Danish AEC, science affairs division of NATO and the Nordic Institute of Theoretical Atomic Physics. The program consists of lectures and seminars covering theoretical and experimental aspects of electron tunneling in semiconductors, metals and superconductors, and the tunneling of atoms between potential wells in solids.

Contact: S. Lundqvist, Chalmers U. of Technology, Göteborg, Sweden

19-2 Cosmic Rays (Alberta, Canada) PT Apr. 1967 Summer Institute for Observational Astronomy (State U. of New York at Stony Brook) PT May 1967

Contact: Hong-Yee Chiu, State U. of New York, Stony Brook, N.Y.

- 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
- 21-23 American Physical Society (Toronto) PT Dec. 1966
- 27-2 Thin Films (Budapest) PT Dec. 1966

July 1967

- 3-5 Electron Diffraction (London) PT Jan. 1967
- 3-13 Quantum Electronics (Steamboat Springs, Colorado State U.)
 PT May 1967

The symposium will include discussions in quantum electronics related to theoretical and experimental properties of the laser and its applications. Attendance is limited to 100 participants.

Contact: D. F. Edwards, Depart-

ment of Physics, Colorado State U., Fort Collins, Colo. 80521

- 4 (through 25 Aug.) Many-Body Physics (Les Houches, France) PT Dec. 1966
- 4-7 High-Energy Molecular Beams (Cannes) PT Jan. 1967

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

This conference is sponsored jointly by the optical group of The Institute of Physics and The Physical Society. Discussion topics will include basic telescope design, spectrographs, image tubes in astronomy and photoelectronic photometry.

Contact: C. G. Wynne, Department of Physics, Imperial College, Prince Consort Road, London, SW 7,

England

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

This program is conducted jointly by the Division of Engineering and Applied Physics, Harvard, and the Department of Metallurgy, M.I.T. Binding and crystal chemistry, ther modynamics of phase equilibria (including the thermodynamics of interfaces), principles of chemical kinetics, transport in crystals and liquids, structure of glasses, nucleation in

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condensed phases, spinodal decomposition, phase separation, crystal growth from the melt, devitrification, the liquid-glass transition, internal crystallization, grain boundary behavior, and the development of ceramic microstructures will be the topics.

Contact: Ceramic Program— Harvard Summer School, 735 Holyoke Center, 1350 Massachusetts Ave., Cambridge, Mass. 02138

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

The conference will be concerned with interruption and maintenance of connections in electrical circuits with exclusion of large-system circuit breakers. The symposium is sponsored by The Institute of Physics and The Physical Society in collaboration with The Institution of Electrical Engineers.

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

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

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

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

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

17-28 • Modern Optics (UCLA) PT May 1967

Max Garbuny will lecture on fundamentals of optics, theory and applications, phenomena of interaction between radiation and matter as applied to generation, propagation and secondary effects of light from the ultraviolet to the infrared region, recent results in geometrical and wave optics and their applications, lasers, nonlinear optics, holography, high intensity light source technology, and systems of detection in the electromagnetic spectrum.

Contact: R. E. Garrels, Physical Sciences Extension, Room 6532 Boelter Hall, University of California, Los Angeles, Calif. 90024

17-19 • Particle Physics (Varenna, Italy) PT May 1967

This course will be sponsored by the Ministry of Public Instruction, the National Council of Research. the National Committee for Nuclear Energy, NATO, and other Italian

and foreign organizations. Lecturers will be S. Adler (Institute for Advanced Study), J. Bjorken (Stanford U.), W. Frazer (U. of California), G. M. Giacomelli (U. of Bologna), C. Rubbia (CERN), J. Steinberger (Columbia U.), V. Weisskopf (Columbia U.), V. Weisskopf (M.I.T.), A. M. Wetherell (CERN), and B. Zumino (N.Y.U.). Topics include current algebras, high-enerelectron-neutrino scattering. Regge-pole theory, CP violation, experimental results on high-energy hadron collisions, and vector mesons and electromagnetic currents of had-Application deadline is 45 rons. days before the beginning of the course.

Contact: G. M. Giacomelli, Istituto di Fisica dell'Università, Via Irnerio, 46, Bologna, Italy

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

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

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

Subjects: Theory of direct reac-tions (N. Austern, S. T. Butler), experimental surveys of direct reactions (O. Hansen, R. Siemssen, J. R. Erskine, R. H. Bassel), intermediate structure (H. Weidenmueller, A. J. Elwyn, H. Feshbach), optical model and elastic scattering (F. Perey, G. Greenlees), form factors in direct reactions (E. Rost, G. R. Satchler), isobaric analog states (A. M. Lane, C. F. Moore), nuclear physics in astrophysics (C. Barnes, H. Y. Chu), high energy reactions (P. Radvanyi, H. McManus, J. Friedes). Contact: J. P. Schiffer, Argonne

National Laboratory, Argonne, Ill.

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

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

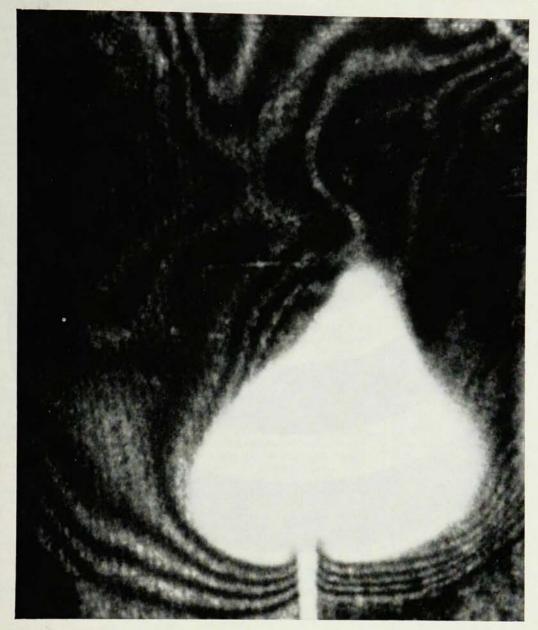
The subjects of this summer course will include higher-order coherence, photon-counting statistics, nonlinear optics, optical interactions of collective excitations in matter, scattering of incoherent and coherent beams, saturation effects in absorption resonances, quantum-mechanical amplifiers and oscillators, and quantum theory of the laser.

Contact: F. T. Arecchi, Laboratori CISE, Casella Postale 3986, Milan, Italy

August 1967

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

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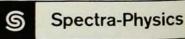
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August 1967

- 7-2 Continuum Mechanics (Virginia Polytechnic Institute) PT March 1967
- 7-18 Nuclear and Particle Physics (McGill U., Montreal) PT May 1967

The theoretical physics division of the Canadian Association of Physicists will conduct its seventh summer school, with J. Schwinger (Harvard), K. Gottfried (Cornell), G. Kallen (Lund), D. Kurath (Argonne), S. Kahana (McGill), B. Margolis (McGill), and B. W. Lee (Stony Brook) as speakers. Subject matter includes theory of sources, collision and decay phenomena, nuclear deformation in the shell model, effective interactions in finite nuclei, and nuclear reaction theory.

Contact: B. Margolis, Institute of Theoretical Physics, McGill Univer-

sity, Montreal, P.Q.

- 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

Contact: Betty Wood, Bell Telephone Laboratories, Inc., Murray Hill, N. J. 07971

14-25 • Strong and Weak Interactions
(U. of Hawaii) PT May 1967
R. H. Dalitz (Oxford), T. D. Lee
(Columbia), G. Goldhaber (Berkeley), and V. Fitch (Princeton) will be the lecturers.

Contact: S. F. Tuan, Department of Physics, University of Hawaii, Honolulu, Hawaii

- 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

This summer program will emphasize safety problems and their solutions encountered in water-cooled and moderated nuclear power plants of current interest.

Contact: Director of the Summer Session, Room E19-356, M.I.T., Cambridge, Mass. 02139

- 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

This conference will be concerned with materials studies relating to integrated circuitry and compound semiconductors and their mixed crystals.

Contact: C. D. Thurmond, Bell Telephone Laboratories, Inc., Murray Hill, N. J. 07971

- 28-1 Atomic Masses (U. of Manitoba) PT Jan. 1967
- 28-1 Particles and Fields (University of Rochester) PT March 1967
- 31-6 Low Temperatures (Madrid) PT March 1967
- 31-2 American Physical Society (Seattle) PT Dec. 1966

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

The session will cover dosimetry in health physics, different phenomena of solid state likely to be applied in dosimetry, demonstration of various laboratory dosimetry equipment.

Contact: Universite Libre de Bruxelles, Faculte des Sciences Appliquees, Laboratoire des Semi-Conducteurs, att. S. Amelinckx, 50, avenue F. D. Roosevelt, Bruxelles 5, Belgium

- 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

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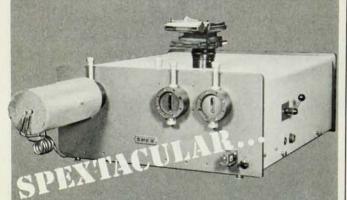
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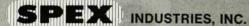
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September 1967

- 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

Contact: P. Averbuch, Laboratoire de Spectrometrie Physique, Faculte des Sciences, Domaine Universitaire, St. Martin d'Heres 38, France

17-20 • High Temperature Technology (Asilomar, California) PT May 1967

Contact: Dept. 366, Stanford Research Institute, Menlo Park, Calif. 94025

- 18-22 Localized Excitations in Solids (Irvine, Calif.) PT Jan. 1967
- 25–28 Solid-State Physics Research with Accelerators (Brookhaven National Laboratory) PT March 1967
- 25-29 Mass Spectrometry (Berlin) PT Jan. 1967
- 25 (through 7 Oct.) Geodesy and Geophysics (Switzerland) PT Apr. 1967
- 26-28 Reactor Shielding Design (Harwell, England) PT Apr. 1967
- 26-28 Magnetic Materials and Their Applications (London) PT Dec. 1966

October 1967

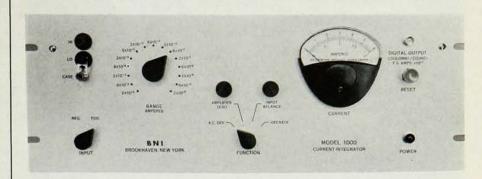
- 2-7 German Physical Society (Berlin, Germany) PT Apr. 1967
- 11-13 Optical Society of America (Detroit) PT Dec. 1966
- 18-20 Gaseous Electronics (San Francisco) PT Jan. 1967
- 21-22 Electrodeless Breakdown of Gases (Leatherhead, England) PT May 1967

Under the sponsorship of The Institute of Physics and The Physical Society, its Atomic and Molecular Physics Subcommittee will present this conference on the electrodeless breakdown of gases, including laser-produced breakdown. The sessions will include discussions of radiofrequency and microwave breakdown of gases, laser-produced discharges, breakdown in Theta-pinch and other devices, breakdown in voids and along surfaces, and other related topics.

Abstracts deadline: 16 June. Contact: F. D. A. Boylett, Central Electricity Research Laboratories, Cleeve Road, Leatherhead, Surrey, England

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

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