

calendar

JANUARY 1980

- 14-19 **Int Wrkshp on Gross Properties of Nuclei and Nuclear Excitation** 11/79
- 21-24 **APS/AAPT Joint Gen Meeting/SPS Zone 9 Meeting** Chicago, Ill. 9/79
- 21-24 **Conf on Structural Chem of Complex Solids** Castle Hot Springs, Ariz. 7/79
- 21-25 **Liquid Crystals of One- and Two-Dimensional Order and their Applications** Garmisch-Partenkirchen, Fed. Rep. Germany 9/79
- 22-24 **Solid State Phys Conf** Pakatoa Island, New Zealand 9/79
- 22-25 **Topical Meeting on Heavy Ion Phys** Trieste, Italy 7/79
- 28-30 **Integrated and Guided Wave Optics Topical Meeting** Incline Village, Nev. 7/79
- 28-30 **AAS Div of High Energy Astrophys Meeting** Cambridge, Mass. 5/79
- 29-31 **7th Phys of Compound Semiconductor Interfaces Conf** Estes Park, Colo. 7/79

- 30-31 • **27th Annual Conf of the Western Spectroscopy Assn** Pacific Grove, Cal. (E. Saadeh, *Spectra-Phys.*, 1250 W. Middlefield Rd., Mt. View, Cal. 94042)

FEBRUARY 1980

- 4-8 **Nuclear Sci Conf** Caracas, Venezuela 11/79
- 4-9 • **Int Conf on Extreme States in Nuclear System** Dresden, German Dem. Rep. (G. Flach, *Zentralinstitut für Kernforschung*, Rossendorf, PF 19, DDR-8051 Dresden, German Dem. Rep.)
- 11-13 **3rd Int Conf on Non-Destructive Evaluation in Nuclear Industry** Salt Lake City, Utah 5/79
- 13-15 **Int Solid State Circuits Conf** San Francisco, Cal. 1/79
- 18-21 **Int Conf on Finite Elements in Biomechanics** Tucson, Ariz. 11/79
- 18-22 **Symp on Management of Gaseous Wastes from Nuclear Facilities** Vienna, Austria 9/79
- 18-31 **Recent Developments in Theory of Fundamental Interactions** Karpacz, Poland 7/79

Coding: date **subject** [Sponsor] Location (Contact) [abstract deadline] *Physics Today* reference • new listing □ new or revised information

Please Note: follow-up listings give italicized reference date specifying *Physics Today* issue in which further information can be found.

Abbreviations:

AAPM American Association of Physicists in Medicine
AAPT American Association of Physics Teachers
AAS American Astronomical Society
ACA American Crystallographic Association
APS American Physical Society
ASA Acoustical Society of America
AVS American Vacuum Society
OSA Optical Society of America
SPS Society of Physics Students
S of R Society of Rheology
AAAS American Association for the Advancement of Science
AGU American Geophysical Union
ANS American Nuclear Society
ASTM American Society for Testing and Materials

DOE Department of Energy
DPG Deutsche Physikalische Gesellschaft
EPS European Physical Society
IAEA International Atomic Energy Agency
IAU International Astronomical Union
IEEE Institute of Electrical and Electronics Engineers
IOP The Institute of Physics
IUPAP International Union of Pure and Applied Physics
NAS National Academy of Sciences
NBS National Bureau of Standards
NRC Nuclear Regulatory Commission
NRL Naval Research Laboratory
NSF National Science Foundation
ONR Office of Naval Research
SFP Société Française de Physique
SIF Società Italiana di Fisica

A calendar of physics-related meetings appears only in alternate (odd-numbered) months. Send information to: Calendar, *PHYSICS TODAY*, 335 East 45th Street, New York, N.Y. 10017, to arrive at least three months before the notice should appear.

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JUNIOR FACULTY AND RESEARCH POSITIONS IN SEMICONDUCTOR DEVICE TECHNOLOGY

Applications are solicited for junior faculty and research staff positions in the Department of Electrical Engineering and Computer Science at M.I.T. in the general area of semiconductor-device and integrated-circuit technology. Faculty duties include teaching at the graduate and undergraduate levels, research, and supervision of these. Research staff duties are primarily in research, with opportunities for teaching or thesis supervision when appropriate.

As part of an expanding M.I.T. program in semiconductor device and integrated circuit technology, a new faculty or staff member will be expected to become a collaborative member of one or more existing research programs, and to develop original research programs in such areas as semiconductor device fabrication; characterization and modeling of submicrometer structures and devices; physical device limitations; design technologies for devices and integrated circuits; or novel devices, integrated circuits, and integrated systems. Prior industrial experience will be helpful. Applicants should have an interest in working with groups at M.I.T. that seek to develop integrated circuits and systems for a wide range of disciplines, such as computer technology, signal and image processing, biomedical engineering and communications, and should be interested in developing working relationships with industrial organizations.

Applicants should provide a resume and the names and addresses of three or more references. Applications should be sent to: Professor Stephen D. Senturia, Room 13-3010, Massachusetts Institute of Technology, Cambridge, Mass. 02139. Indicate citizenship and, if not a U.S. citizen, describe your visa status.

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POSITIONS AVAILABLE STANFORD SYNCHROTRON RADIATION LABORATORY

The Stanford Synchrotron Radiation Laboratory (SSRL) is seeking qualified Ph.D. applicants for positions related to biological research using synchrotron radiation. Funding is anticipated in early 1980 for two positions: a postdoctoral research affiliate and a scientific staff research associate.

The *postdoctoral research affiliate* will be involved in an active research program of X-ray structural analysis using anomalous scattering methods. Specific scientific problems include measurement of large anomalous scattering effects near elemental absorption edges for a variety of materials and the application of these effects to structural studies of protein molecules. The research associate will also be involved in the development of new facility research resources such as X-ray detectors and monochromators.

The *scientific staff research associate* will devote 50% time to facility development in an area of research related to the biological and biomedical applications of synchrotron radiation. It is anticipated that the other 50% time will be spent on the individual's own research program involving synchrotron radiation. Preference will be given to those with experience in EXAFS, small-angle scattering or time-resolved fluorescence.

The salaries for the two positions depend upon level of experience. Applicants for either of these positions should write **Professor Keith O. Hodgson, SSRL, Bin 69, P. O. Box 4349, Stanford, CA 94305** and enclose relevant biological data and list of publications. Three letters of reference will also be required. Stanford University is an equal opportunity and affirmative action employer.

- 20-22 • **Int Conf on Bubble Memory Materials & Process Tech [AVS]** Santa Barbara, Calif. (Robert Atkin, *Rivera Campus, Quadra—Bubble Memory Tech.*, Santa Barbara, Cal. 93103)
- 20-1 • **19th Int University Week for Nuclear Phys** Schlading, Austria 11/79
- 25-29 • **Int Alfred Wegener Symp** Berlin, Fed. Rep. Germany 5/79
- 26-28 • **Inertial Confinement Fusion Topical Meeting** San Diego, Cal. 7/79
- 26-28 • **Conf on Lasers and Electro-Optical Systems** San Diego, Cal. 7/79
- 27-29 • **Phys of the Jovian Magnetosphere** Houston, Tex. 7/79
- 27-29 • **Wire Chamber Conf** Vienna, Austria 11/79
- 27-29 • **Spring Meeting on Particle Phys [DPG]** Dortmund, Fed. Rep. Germany (D. Wegener, *Lehrstuhl für Exp.-Physik V, Univ., Otto-Hahn-Str., 4600 Dortmund 50, Fed. Rep. Germany*) [1/4/80]
- 28-1 • **Int Conf on Band Structure and Nuclear Dynamics** New Orleans, La. (G. S. Goldhaber, *Brookhaven Nat. Lab., Upton, N.Y. 11973*)

MARCH 1980

- 3-5 • **8th Austin Symp on Molecular Structure** Austin, Texas 9/79
- 3-7 • **Spring Meeting on Atomic Phys, Thin Films, Short Time Phys, Mass Spectroscopy, Molecular Phys, Surface Phys, Plasma and Gas Discharge Phys and Quantum Optics [DPG]** Bielefeld, Fed. Rep. Germany (W. Raitz, *Fak. für Physik, Univ., Universitätstr., 4800 Bielefeld, Fed. Rep. Germany*) [12/1/79]
- 5-7 • **10th Int Congress on Radiation Protection** Jerusalem, Israel (Tuvia Schlesinger, *Soreq Nucl. Res. Inst., Yauneh 70600, Israel*)
- 5-7 • **Spring Meeting on Extraterrestrial Phys [DPG]** Mainz, Fed. Rep. Germany (H. J. Fahr, *Inst. für Astrophysik und Extraterre. Forschung, Univ., Auf dem Hugel 71, 5300 Bonn, Fed. Rep. Germany*) [1/10/80]
- 5-9 • **Pittsburgh Conf on Analytical Chem and Applied Spectroscopy** Pittsburgh, Pa. 1/79
- 5-11 • **2nd Novosibirsk/SLAC Conf on Storage Ring Instrumentation** Stanford, Cal. 11/79
- 9-13 • **2nd Int Symp on Gaseous Dielectrics** Knoxville, Tenn. 9/79
- 10-13 • **Conf on Acoustics** Munich, Fed. Rep. Germany 1/79
- 10-13 • **Wrkshp on Heavy Ion Fusion Reactions** Bad Honnef, Fed. Rep. Germany (U. Mosel, *Inst. für Theor. Physik, Univ., Heinrich-Buff-Str. 16, 3600 Gießen, Fed. Rep. Germany*)
- 12-14 • **3rd Int. Thermoelectric Energy Conversion Conf [IEEE]** Arlington, Tex. (K. R. Rao, *Dept. of Electrical Engrg., U. Texas at Arlington, Arlington, Tex. 76019*)
- 14-15 • **Symp: Einstein's Century [San Francisco State U.]** San Francisco, Cal. (Charles Shapiro, *Coordinator of Einstein's Century, NEXA: Sci./ Humanities Convergence Program, S.F. State U., 1600 Holloway Ave., San Francisco, Cal. 94132*)
- 16-18 • **Particle Accelerator Conf** Washington, D.C. 11/79

- 17-19 **2nd Int Conf on 1/f Noise** Orlando, Fla. 11/79
- 17-21 **ACA Gen Meeting** Univ. of Alabama, Gulf Coast Resort 9/79
- 17-22 • **Spring Meeting on Nuclear Phys** [DPG] Munich, Fed. Rep. Germany (P. Brentano, *Inst. für Kernphysik, Univ., Zulpicher Str. 77, 5000 Köln 41, Fed. Rep. Germany*) [12/14/79]
- 18-20 • **Topical Meeting on Optical Phenomena Peculiar to Matter of Small Dimensions** [OSA] Tucson, Arizona (Barbara Hicks, OSA, 1816 Jefferson Pl., NW, Washington D.C. 20036) [12/1/79]
- 24-26 **7th Energy Tech Conf and Expo** Washington, D.C. 7/79
- 24-26 **Conf on the Microstructure of Carbon and Graphite** Glasgow, UK 9/79
- 24-26 • **Spring Meeting on the Phys of High Polymers** [DPG] Leoben, Austria (R. Bonart, *FB Physik, Univ., Universitätstr. 31, 8500 Regensburg, Fed. Rep. Germany*) [12/1/79]
- 24-27 **2nd Int Conf of Magnetic Fluids** Orlando, Fla. 9/79
- 24-28 **Conf on Vacuum Devices** Cambridge, UK 7/79
- 24-28 **APS Gen Meeting/SPS Reg Meeting** New York, N.Y. 9/79
- 24-28 • **Spring Meeting on Solid State Phys: Semiconductor Phys, Magnetism, Metal Phys, Thermodynamics, and Statistical Mechanics, Low-Temperatures** [DPG] Freudenstadt, Fed. Rep. Germany (H. Hinsch, *Inst. für Angew. Physik II, Albert-Uber-le-Str. 3-5, 6900 Heidelberg, Fed. Rep. Germany*) [12/1/79]
- 25-28 • **Reactor Meeting** Berlin, Fed. Rep. Germany (Kerntechnik, Ges., Heussallee 10, 5300 Bonn 1, Fed. Rep. Germany)
- 25-28 **Theoretical Mechanics Colloquium** Cambridge, UK 11/79
- 26-28 **Phase Transitions in Molecular Solids** Exeter, UK 7/79
- 26-28 • **Practical Rheology in Polymer Processing** Loughborough, UK (D. E. Marshall, *Inst. for Polymer Tech., Loughborough LE11 3TU, UK*)
- 26-28 • **Spring Meeting on Phys Teaching** [DPG] Giessen, Fed. Rep. Germany (W. Kuhn, *Inst. für Didaktik, Univ., Karl-Glockner-Str. 21, 6300 Giessen, Fed. Rep. Germany*) [12/1/79]
- 26-28 • **12th Nat Atomic and Molecular Phys** Oxford, UK (A. Corney, *Clarendon Lab., Parks Rd., Oxford, UK*)
- 26-29 **Symp on Archaeometry** Paris, France 9/79
- 30-3 **Int Symp on the Properties and Applications of Metal Hydrides** Colorado Springs, Colo. 7/79
- 31-2 **3rd Int Conf on Physico-Chemical Hydrodynamics** Madrid, Spain 9/79
- APRIL 1980**
- 1-3 **Spring Meeting: Crystallography Group**, IOP St. Andrews, UK 9/79
- 1-4 **6th Int Conf on Solid State Dosimetry** Toulouse, France 9/79
- 7-11 **Int Conf on Plasma Phys** Nagoya, Japan 5/79
- 8-10 **Int Reliability Phys Symp** Las Vegas, Nev. 5/79
- 9-11 **Int Symp on the Phys of Actinides and Related 4f Materials** Zurich, Switzerland 9/79
- 9-11 **Annual Conf of the EPS Condensed Matter Div** Antwerp, Belgium 11/79
- 11-14 **6th Annual Eur Geophys Soc Meeting** Vienna, Austria 7/79
- 14-16 **Int Conf on Acoustics, Speech and Signal Processing** Denver, Colo. 5/79
- 14-16 **Conf on Semi-Insulating III-V Materials** Nottingham, UK 11/79
- 14-17 **4th Int Conf on Nuclear Methods in Environmental & Energy Res** Columbia, Mo. 5/79
- 14-17 **2nd Conf on Low Energy Ion Beams** Bath, UK 7/79
- 14-18 **5th ESA Symp on Eur Sounding Rocket and Balloon Programmes and Related Res** Bournemouth, UK 9/79
- 14-18 **2nd Int Conf on Multiphoton Processes** Budapest, Hungary 9/79
- 15-17 **2nd Eur Symp on Photovoltaic Generators in Space** Heidelberg, Fed. Rep. Germany 9/79
- 15-18 **Int Symp on Phys of Open-Ended Systems** Tsukuba, Japan 9/79
- 16-18 **Trends in Nuclear Structure Phys** Manchester, UK 9/79
- 16-18 • **9th Experimental Thermodynamics Conf** London, UK (F. H. Hayes, *Metalurgy Dept., UMIST, Grosvenor St., Manchester M1 7HS, UK*)
- 16-18 • **Spring Meeting on Magnetism** [DPG] Bad Nauheim, Fed. Rep. Germany (K. Schlüter, *Thyssen Edelstahlwerke, Magnetfabrik, Ostkirchstr. 177, 4600 Dortmund 4, Fed. Rep. Germany*) [10/31/79]
- 18-19 **Seminar on the History of the Phys Sci** College Park, Md. 11/79
- 18-20 **Annual Conf of the IOP Education Group** Birmingham, UK 11/79
- 21-24 **Intermag '80** Boston, Mass. 5/79
- 21-24 **APS Gen Meeting/ SPS Reg Meeting** Washington, D.C. 9/79
- 21-25 **4th Int Conf on Plasma Surface Interaction on Controlled Fusion Devices** Garmisch-Partenkirchen, Fed. Rep. Germany 9/79
- 21-25 **Int Conf on Metallurgical Coatings** San Diego, Cal. 9/79
- 21-25 **ASA Meeting** Atlanta, Ga. 5/79
- 22-25 **Amer Roentgen Ray Soc Annual Meeting** Las Vegas, Nev. 7/79
- 23-25 • **Colloquium on the Phys and Chem Characterization of Surface States** Paris, France (CEFRACOR rue St. Dominique 28, F-75005 Paris, France)
- 24-25 • **6th Int Conf on Experimental Meson Spectroscopy** Upton, N.Y. (S. U. Chung, *Brookhaven Nat. Lab., Upton, N.Y. 11973*)
- 27-30 **Annual Meeting of Amer Ceramics Soc, Nuclear Div** Chicago, Ill. 11/79

SHORT COURSES AND SCHOOLS

Medical Phys

19-20 January [AAPM/AAPT] Chicago, Illinois (Russell K. Hobbie, *U. Minnesota, 103 Space Sci. Center, 100 Urban St., SE, Minneapolis, Minnesota 55455*)

Design of Optical Systems

28 January-1 February [U. Wisconsin] Madison, Wisc. (Donald E. Baxa, *Dept. of Engrng., U. Wisconsin—Extension, 432 North Lake Dr., Madison, Wisc. 53706*)

Medical Ultrasound Phys and Instrumentation

12-22 March Denver, Colo. (Paul L. Carson, *Course Dir., U. Colorado Health Sci. Center, Dept. of Radiology, C278, 4200 E. 9th Ave, Denver, Colo. 80262*)

Advanced Energy Conversion

17-21 March [Ariz. State U.] Tempe, Arizona (Charles E. Backus, *Asst. Dean, College of Engrng. and Applied Sci., Arizona State U., Tempe, Arizona 85281*)

Fundamental Aspects of Polymer Phys

22-23 March [APS] New York, N.Y. (*High Polymer Div. Short Course, APS, 335 E. 45th St., New York, N.Y. 10017*)

Instructions for the Physicist on Biological Problems

22-23 March [APS] New York, N.Y. (*Bio. Phys. Short Course, APS, 335 E. 45th St., New York, N.Y. 10017*)

Introduction to Metallurgy: Microstructure and Mechanical Properties of Metals

22-23 March [APS] New York, N.Y. (*Div. of Condensed Matter Short Course, APS, 335 E. 45th St., New York, N.Y. 10017*)

Optical Sci and Engrng

12-23 May Calverton, Md. (Philip N. Slater, *Optical Systems and Engrng. Short Courses, Inc., PO Box 18667, Tucson, Ariz. 85731*)

Health Phys

19 May-20 June Oak Ridge, Tenn. (Registrar, *Prof. Training Programs, Oak Ridge Associated U., PO Box 117, Oak Ridge, Tenn. 37830*)

Holography

2-6, 9-13 and 16-20 June [Lake Forest College] Lake Forest, Illinois (T. H. Jeong, *Dir. Holography Workshops, Lake Forest College, Lake Forest, Illinois 60045*)

Techniques for Surface Analysis

10-11 June [U. Dayton] Dayton, Ohio (J. T. Grant, *U. Dayton Res. Inst., Dayton, Ohio 45469*)

Gauge Theories and Experiments at High Energies

10-30 August [NATO Adv. Study Inst.] St. Andrews, Scotland (Sec., A. Walker, *Dept. of Phys., U. Edinburgh EH9 3JZ, UK*)

- 28-30 **Symp on Sputtering** Perchtholdsdorf, Austria 7/79
- 29-1 **Tritium Tech in Fission, Fusion and Isotopic Applications** Dayton, Ohio 11/79
- 30-3 • **Topical Meeting Recent Advances in Vision** [OSA] Sarasota, Florida (OSA, *Recent Advances in Vision Meeting*, 1816 Jefferson Pl., NW, Washington, D.C. 20036) [1/15/80]

MAY 1980

- 1-3 **Vanderbilt Symp on E⁺ E⁻ Interactions at High Energies** Nashville, Tenn. 11/79
- 5-7 **Basic Optical Properties of Materials** Gaithersburg, Md. 9/79
- 5-8 • **1st Int Conf on Lasers: Part 1** Shanghai, People's Rep. China (Charles P. Wang, Dept. of Applied Mechanics and Engrng. Sci., U. California, San Diego, La Jolla, Cal. 92093) [1/10/80] **Note:** Conf. cont. in Beijing in 19 May
- 5-16 • **Exploration of the Polar Upper Atmosphere** [NATO] Lillehammer, Norway (A. Egeland, Inst. of Phys., U. Oslo, PO Box 1038, N-Blindern Oslo 3 Norway) [2/1/80]
- 6-9 **2nd Int Conf on Superconducting Quantum Devices** West Berlin Fed. Rep. Germany 9/79
- 9-12 • **2nd Int Conf on Particle Induced X-Ray Emission and Its Analytical Applications** Lund, Sweden (Dept. of Nuclear Phys., Lund Inst. of Tech., Solvegatan 14, S-223 62 Lund, Sweden)
- 11-15 • **Intermag** [IEEE; SFP] Grenoble, France (J. L. Lommel, GE R&D Center, PO Box 8, Schenectady, N.Y. 12301)
- 11-16 **9th Int Conf on Electron and Ion Beam Sci and Tech** St. Louis, Mo. 11/79
- 12-16 • **Working Seminar: Problems in Non-Linear Continuum Mechanics** [Dublin Inst. for Adv. Study] (*The Dir., School of Theoretical Phys. (Working Seminar 1980)*, Dublin Inst. for Adv. Studies, 10 Burlington Rd., Dublin 4, Ireland)
- 13-16 **The Satellites of Jupiter** Kailua-Kona, Hawaii 9/79
- 14-16 **Fiber Society Tech Conf** New Orleans, La. 7/79
- 18-20 • **Int Plasma Sci Conf** [IEEE] Santa Fe, N.M. (S. J. Gitomer, Los Alamos Sci. Lab., Los Alamos, N.M. 87545)
- 19-22 • **1st Int Conf on Lasers: Part 2** Beijing, People's Rep. China (Charles P. Wang, Dept. of Applied Mechanics and Engrng. Sci., U. California, San Diego, La Jolla, Cal. 92093) [1/10/80] **Note:** Conf. cont. from Shanghai on 5 May
- 19-24 **2nd Int Conf on Intercalation Compounds of Graphite** Provincetown, Mass.
- 20-21 **Wrkshp on Dielectric Systems for the III-V Compounds** San Diego, Cal. 11/79
- 22-27 **AGU Spring Meeting** Toronto, Canada 7/79
- 25-30 • **28th Annual Conf on Mass Spectroscopy and Allied Topics** New York, N.Y. (H. M. Fales, Nat. Inst. of Health Bldg. 10, 7N322, Bethesda, Md. 20205)
- 27-31 **Int Microwave Symp** Washington, D.C. 7/79

- 28-30 **Adv Seminar on Singular Perturbation and Asymptotics** Madison, Wisc. 11/79
- 31-6 • **1980 Spring Conf on Applied Optics** [OSA] Oakland, Cal. (OSA, *Spring Conf*, 1816 Jefferson Pl., NW, Washington, D.C. 20036)

JUNE 1980

- 2-4 **Topical Meeting on Hologram Interferometry and Speckle Metrology** North Falmouth, Mass. 11/79
- 2-4 • **Conf on the Chem and Phys of Coal Utilization** Morgantown, W. Va. (Bernard R. Cooper, Phys. Dept., West Virginia U., Morgantown, W. Va.)
- 2-6 **Symp on the Management of Alpha-Contaminated Wastes** Vienna, Austria 9/79
- 2-6 **6th Int Conf on Vacuum Ultraviolet Radiation Phys** Charlottesville, Va. 11/79
- 2-6 **Canadian/Amer Radio Sci Meeting** Quebec City, Canada 7/79
- 3-5 **10th Int Conf on Effects of Radiation on Materials** Savannah, Ga. 11/79
- 3-6 **Eur Symp on Few-Body Problems in Nuclear and Particle Phys** Sesimbra, Portugal 9/79
- 3-6 • **Int Conf on Boundary and Interior Layers—Computational and Asymptotic Methods** Dublin, Ireland (BAIL 1 Conf., 39 Trinity College, Dublin 2, Ireland) [4/14/80]
- 4-6 • **Calorimetry and Thermal Analysis Conf** Barcelona, Spain (Centre de Rech. de Calorimetrie, 26 rue du 141ème Ria, F-13003 Marseille, France)
- 6-11 **Int Conf on Developments in Atomic Plasma Spectrochemical Analyses** San Juan, Puerto Rico 9/79
- 8-13 **ANS Annual Meeting** Las Vegas, Nev. 7/79
- 8-14 • **Symp on Systems Far From Equilibrium** Sitges (Barcelona), Spain (L. Garrido, Fac. Fisica, Universidad de Barcelona, Diagonal 647, Barcelona—28, Spain)
- 9-13 **Nobel Symp: Nuclei at Very High Spins** Lund, Sweden 9/79
- 11-13 **Int Symp on the Statistical Mechanics of Phase Transitions in Polymers** Cleveland, Ohio 9/79
- 11-13 • **2nd Symp on Applied Surface Analysis** Dayton, Ohio (J. T. Grant, U. Dayton Res. Inst., Dayton, Ohio 45469) [4/25/80]
- 15-18 **AAS Gen Meeting** College Park, Md. 9/79
- 16-18 **Int Conf on Communications** Seattle, Wash. 11/79
- 16-18 **Phys Electronics Conf** Ithaca, N.Y. 9/79
- 16-20 **35th Annual Symp on Molecular Spectroscopy** Columbus, Ohio 11/79
- 16-20 • **Nuclear Chem** [Gordon Res. Conf.] New London, New Hampshire (H. C. Britt, Sektion Physik, Universität München, 8046 Garching, Fed. Rep. Germany)
- 18-20 • **AAS Solar Phys and Dynamical Astronomy Meeting** College Park, Md. (Peter B. Boyce, AAS, 1717 Massachusetts Ave., NW, Suite 603, Washington, D.C. 20036)
- 18-20 **Topical Meeting on Picosecond Phenomena** North Falmouth, Mass. 11/79

- 18-20 **Int Topical Conf on the Phys of MOS Insulators** Raleigh, N.C. 11/79
- 20-1 **Int Meeting: Neutrino 80** Erice, Italy 7/79
- 21-25 **Int Lens Design Conf** Santa Cruz, Cal. 11/79
- 22-27 • **11th Int Symp on Multiparticle Dynamics** Bruges, Belgium (F. Verbeure, Dept. of Phys., Univ. Inst. Antwerpen, Universiteitsplein 1, B-2610 Wilrijk, Belgium)
- 23-25 **11th Int Quantum Electronics Conf** Boston, Mass. 7/79
- 23-25 • **38th Annual Device Research Conf** Ithaca, N.Y. (Fred A. Blum, Conf. Chmn., Rockwell Int. PO Box 4761, Anaheim, Cal. 92803)
- 23-26 **Conf on Precision Electromagnetic Measurements** Braunschweig, Fed. Rep. Germany 7/79
- 23-27 **9th Int Colloquium on Group Theoretic Methods in Phys** Cocoyoc, Mexico 9/79
- 23-27 **Symp on Infrared Astronomy** Kailua-Kona, Hawaii 11/79
- 24-26 **Topical Meeting on Optical Interference Coatings** Santa Cruz, Cal. 11/79
- 25-27 **Wrkshp on Optical Fabrication and Testing** Santa Cruz, Cal. 11/79
- 25-27 • **Int Symp on Solar Power Satellites** Toulouse, France (ONERA-CERT, BP 4025, 31 055 Toulouse Cedex France)
- 25-27 **AAPT Gen Meeting** Troy, N.Y. 9/79
- 30-4 **Conf on Metallic Glasses: Sci and Tech** Budapest, Hungary 7/79
- 30-4 **7th Eur Thermophys Properties Conf** Anwerp, Belgium 9/79

JULY 1980

- 1-10 **8th Int Conf on Plasma Phys and Controlled Nuclear Fusion Res** Brussels, Belgium 9/79
- 2-13 **Adv Study Inst on Techniques and Concepts of High Energy Phys** St. Croix, US Virgin Is. 11/79
- 7-11 **5th Int Conf on Spectral Line Shapes** West Berlin, Fed. Rep. Germany 11/79
- 7-11 **Int Conf on Liquids and Amorphous Metals** Grenoble, France 7/79
- 7-11 • **12th Int Symp on Rarefied Gas Dynamics** Charlottesville, Va. (Sam S. Fisher, PO Box 4, Station 2, U. Virginia, Charlottesville, Va. 22904) [2/1/80]
- 7-11 • **11th Int Conf on High Energy Accelerators** [IUPAP] Geneva, Switzerland (D. A. Cato, Scientific Conf. Sec., CERN, CH-1211, Geneva 23, Switzerland)
- 9-16 **10th Int Congress on Acoustics** Sydney, Australia 9/79
- 9-23 • **Wrkshp: Non-Linear Equations and Dynamical Systems** Chania, Crete (A. Verganelakis, Nuclear Res. Center "Demokritos," Aghia Paraskevi-Attiki, Athens, Greece) [2/28/80]
- 14-18 • **Crystal Growth** [Gordon Res. Conf.] Plymouth, New Hampshire (Gordon Res. Conf., Pastore Chem. Lab, U. Rhode Island, Kingston, R.I. 02881)
- 14-19 **9th Int Conf on Gen Relativity and Gravity** Jena, German Dem. Rep. 7/79

- 15-18 • **Nuclear and Space Radiation Effects Conf** [IEEE; Defense Nuclear Agency; Jet Propulsion Lab.] Ithaca, N.Y. (Harold L. Flescher, Raytheon Co., 528 Boston Post Rd., MS 1K5, Sudbury, Md. 01776)
- 16-18 **Int Conf on the Frontiers of Glass Sci** Los Angeles, Cal. 11/79
- 17-23 **20th Int Conf on High Energy Phys** Madison, Wisc. 9/79
- 20-26 **Cornell Symp on Liquid and Solid ^3He** Ithaca, N.Y. 9/79
- 21-25 **5th Int Conf on Hyperfine Interactions** West Berlin, Fed. Rep. Germany 9/79
- 22-25 **Symp on Fundamental Problems in the Theory of Stellar Evolution** Kyoto, Japan 9/79
- 27-31 **AAPM 22nd Annual Meeting** Minneapolis, Minn. 7/79
- 28-1 • **6th Eur Crystallographic Meeting** Barcelona, Spain (ECM-6, Ultramar Express, S.A., Gran Via, 591, 4.^o, Barcelona, Spain)
- 28-8 **SLAC Summer Inst on Particle Phys** Stanford, Cal. 11/79
- 18-22 **Phys of Transition Metals** Leeds, UK 9/79
- 18-22 • **Symp on Millimeter Wave Technology, with Emphasis on Radio Astronomy Applications** Grenoble, France (E. J. Blum, IRAM, 53, Avenue des Martyrs, 38026 Grenoble, Cedex, France)
- 20-22 • **Symp on Photochem in Large Molecules and Solids** San Jose, Cal. (D. M. Burland, IBM Res. Lab., K34/281, San Jose, Cal. 95193)
- 20-31 • **UN Conf on Sci and Tech for Development** Vienna, Austria (Dept. of Pub. Info., United Nations, New York, N.Y. 10017)
- 24-29 **X-ray Processes and Inner-Shell Ionization** Strathclyde, UK 9/79
- 24-30 • **Int Conf on Nuclear Phys** [IUPAP: APS; DOE; NSF] Berkeley, Cal. (ICNP, Lawrence Berkeley Lab., Berkeley, Cal. 94720) [4/1/80]
- 24-30 • **Int Conf on Nuclear Phys** Berkeley, Cal. (G. G. Ohlsen, MS 456, Los Alamos Sci. Lab., Los Alamos, N.M. 87545)
- 24-30 • **Int Conf on Post-Graduate Education of Physicists** [UNESCO; IUPAP] Prague, Czechoslovakia (Secretariat of ICPEP, Z. Pluhař, 121 16 Prague 2, Ke Karlovu 3, Czechoslovakia)
- 24-30 **7th Eur Congress on Electron Microscopy** The Hague, The Netherlands 9/79
- 25-29 • **12th Australian Spectroscopy Conf** [Australian Acad. of Sci.] Sydney, Australia (B. J. Orr, Org. Sec., 12th Australian Spectroscopy Conf., School of Chem., U. New South Wales, PO Box 1, Kensington, N.S.W., Australia 2033)
- 25-29 **4th Nat Congress of the Australian Inst of Phys** Melbourne, Australia 7/79
- 25-29 **Int Conf on Phys in One Dimension** Fribourg, Switzerland 9/79
- 25-30 **Joint ISMAR-Ampere Conf on Magnetic Resonance** Delft, The Netherlands 9/79
- 26-29 • **Int URSI Symp on Electromagnetic Waves** [IEEE] Munich, Fed. Rep. Germany (Ing. F. Coers, Stresemannallee 21, VDE-Haus, D-6000 Frankfurt 70, Fed. Rep. Germany)
- 28-29 **4th Int Conf on Ternary and Multinary Compounds** Tokyo, Japan 9/79
- 8-12 **2nd Int Meeting on Small Particles and Inorganic Clusters** Lausanne, Switzerland 9/79
- 8-12 • **3rd Int Symp on Gas Flow and Chemical Lasers** Marseille, France (G.C.L.-Symp. Sec., Institut de Mécanique des Fluides, 1 rue Honnorat—13003 Marseille, France)
- 9-12 **Int Symp on Flow Visualization** Bochum, Fed. Rep. Germany 11/79
- 9-12 **Europhys Conf on Computing in High Energy and Nuclear Phys** Bologna, Italy 9/79
- 10-12 **Optics '80** Manchester, UK 11/79
- 11-21 **High Energy Phys** Maria Laach, Fed. Rep. Germany 9/79
- 15-19 **3rd Int Meeting on Solid Electrolytes** Tokyo, Japan 11/79
- 15-19 • **11th Symp on Fusion Technology** Oxford, UK (Conf. Office, Culham Lab., Abingdon, Oxfordshire, UK)
- 15-19 **10th Eur Solid State Device Res Conf/5th Symp on Solid State Device Tech** York, UK 9/79
- 16-19 • **9th Symp on Discharges and Electrical Insulation in Vacuum** Eindhoven, The Netherlands (Secretariat Conf. Organization, Holec Switchgear Group, Res. Dept., PO Box 23, 7550 AA Hengelo, The Netherlands) [2/15/80]
- 22-26 **8th Int Vacuum Congress, 4th Int Conf on Solid Surfaces/3rd Eur Conf on Surface Science/5th Nat Colloquium on Phys and Chem of Solid Surfaces** Cannes, France 9/79
- 29-2 **Applied Superconductivity Conf** Santa Fe, N.M.
- 30-3 • **3rd Int Conf on Ferrites** Kyoto, Japan (Mitsuo Sugimoto, Gen. Sec., Dept. of Electronic Engrg., Saitama U., Urawa-City, 338, Japan) [4/30/80]

AUGUST 1980

- 4-7 **5th Int Conf on Zirconium in the Nuclear Industry** Boston, Mass. 7/79
- 4-8 **Joint Meeting of the Electron Microscopy Soc of Amer and the Microbeam analysis Soc** San Francisco, Cal. 11/79
- 4-8 • **Conf on Optics in Four Dimensions** [Int. Commission for Optics] Ensenada, Cal. (M. A. Machado, Org. Committee Chmn., Optics in Four Dimensions, CIGESE, Applied Phys. Dept., AP Postale 2732, Ensenada, B.C.N. Mexico) [4/25/80]
- 4-8 **7th Int Conf on Atomic Phys** Cambridge, Mass. 9/79
- 4-8 • **Denver Conf on Applications of X-Ray Analysis** Denver, Colo. (Mildred Cain, Denver Res. Inst., U. Denver, Denver, Denver, Colo. 80208)
- 4-9 **Int Conf on Raman Spectroscopy** Ottawa, Canada 7/79
- 4-9 **Symp on Atmospheric Ozone** Boulder, Colo. 7/79
- 10-14 • **3rd Int EPR Symp** [Soc. for Applied Spectroscopy; Int. Soc. of Magnetic Resonance] Denver, Colo. (Gareth R. Eaton, Dept. Chem., U. Denver, Denver, Colo. 80208) [3/24/80]
- 10-15 **Int Conf on Low Dimensional Synthetic Metals** Helsingør, Denmark 9/79
- 11-14 • **NMR Symp** [Soc. for Applied Spectroscopy] Denver, Colo. (Francis P. Miknis, Laramie Energy Tech. Center, Laramie, Wyoming 82071) [3/24/80]
- 11-15 **5th Int Symp on Polarization Phenomena in Nuclear Phys** Santa Fe, N.M. 11/79
- 11-16 **Symp on Radiative Processes in the Atmosphere** Fort Collins, Colo. 7/79
- 17-22 **ACA Annual Meeting** Calgary, Canada 9/79
- 17-23 **9th Int Conf on the Few-Body Problem** Eugene, Ore. 9/79
- 17-23 **14th Int Conf on Thermodynamics and Statistical Mechanics** Edmonton, Alberta 9/79
- 18-20 **Micro 80** Brighton, UK 11/79

SEPTEMBER 1980

- 1-6 **8th Int Congress on Rheology** Naples, Italy 9/79
- 1-6 **9th Int Symp on the Reactivity of Solids** Cracow, Poland 9/79
- 1-6 • **Int Conf on Education for Phys Teaching** [UNESCO; IUPAP] Trieste, Italy (A. Loria, Istituto di Fisica, U. Modena, Via Campi 213/A, 41100 Modena, Italy)
- 2-5 **12th Annual Conf of the Eur Group for Atomic Spectroscopy** Pisa, Italy 9/79
- 3-12 **Grenoble-Varenna Int Symp on Heating in Toroidal Plasmas** Como, Italy 9/79
- 7-12 • **7th Annual Meeting of the Fed of Analytical Chem and Spectroscopy Soc** Philadelphia, Pa. (J. A. Williamson, DuPont Co., Instrument Prod. Div., Wilmington, Del. 19899)
- 8-11 **Conf on Phys of Dielectric Solids** Canterbury, UK 11/79

OCTOBER 1980

- 1-2 **Symp on Fiber Microscopy and Spectroscopy** Rockville, Md. 9/79
- 5-9 • **Symp on Interatomic Potentials and Computer Simulation of Defects in Metals** Pittsburgh, Pa. (Jong K. Lee, Dept. of Metallurgical Engrg., Michigan Tech. U., Houghton, Michigan 49931)
- 6-10 **5th Int Conf on Infrared and Millimeter Waves** Würzburg, Fed. Rep. Germany 9/79
- 7-9 **Electromagnetic Compatibility Symp** Baltimore, Md. 9/79
- 9-11 **Meeting of APS Nuclear Phys Div** Minneapolis, Minn. 9/79
- 12-16 **10th Int Symp on Acoustic Imaging** Cannes, France 11/79
- 13-15 **Symp on Transition and Turbulence** Madison, Wisc. 11/79
- 14-17 **Vacuum Symp** Detroit, Mich. 9/79
- 14-18 • **AAS Planetary Sci Div Meeting** Tucson, Arizona (Peter B. Boyce, AAS, 1717 Massachusetts Ave., NW, Suite 603 Washington D.C. 20036)
- 20-24 **OSA Annual Meeting** Chicago, Ill. 11/79
- 29-31 **Nuclear Sci Symp** Atlanta, Ga. 9/79

NOVEMBER 1980

- 5-7 **Ultrasonics Symp** Boston, Mass. 9/79