

calendar

JULY 1978

- 10-11 **Low Temperature Nonmetallic Materials and Composites Seminar** [NBS Cryogenics Div; W. German Inst für Technische Physik] London, UK 3/78
- 10-14 **10th Conf on Atomic Spectroscopy** [European Group for Atomic Spectr] Garching, Fed. Rep. of Germany 1/78
- 12-14 **Int Solar Energy Forum** [German Solar Energy Soc] Hamburg, Fed. Rep. of Germany 1/78
- 16-20 **4th Nat'l Conf of Amer. Assoc for Crystal Growth** Wash., D.C. 7/77
- 19-28 **3rd Latin Amer. Symp on Magnetic Resonance and Hyperfine Interactions** Caracas, Venezuela 1/78
- 23-27 **INTER/MICRO '78** [McCrone Res Inst] Chicago, Ill. 9/77
- 24-28 • **Ultrasound, Sound, Microwaves, Laser and Ultraviolet: Biophysical and Biological Bases, Hazards and Applications in Medicine** [Mass. Inst of Tech] Cambridge, Mass. (Director, Summer Sessions, rm E19-356, MIT, Cambridge, Mass. 02139)
- 24-28 • **29th Annual Fisk Inst** Nashville, Tenn. **Topics:** Interpretation of Infrared and Raman Spectra, Gas-liquid Chromatography, Pollution Evaluation, IR and GC techniques to meet EPA/ OSHA Standards (Director, Fisk Inst,

Box 8, Fisk Univ, Nashville, Tenn. 37203)

- 24-1 **Int Summer School on Crystallographic Computing** Twente, The Netherlands 3/78
- 24-5 **Physics and Applications of Ion Beam Interactions with Solids** [NATO Adv Study Inst; State Univ of N.Y. at Albany] Albany, N.Y. 3/78
- 30-1 **Symp on Crystal Chemistry** [ACA] Dymaczewo, Poland 11/77
- 30-3 **AAPM 20th Annual Meeting** San Francisco, Cal. 3/78
- 31-4 **4th Int Conf on Spectral Line Shapes** Windsor, Canada [6/9/78] 1/78

AUGUST 1978

- 1-4 **27th Denver Conf on Applications of X-ray Analysis** [Univ of Denver, Denver Res Inst; JCPDS, Int Ctr for Diffraction Data] Denver, Colo. 3/78
- 1-4 **Time and Frequency Symp** [NBS] Helsinki, Finland 3/78
- 1-9 **9th Int Cong on Electron Microscopy** Toronto, Canada 7/77
- 3-12 **11th Cong of Crystallography** [ACA] Warsaw, Poland 11/77
- 6-26 **19th Symp on Metal-Non-metal Transition in Disordered Systems** St Andrews, Scotland 1/78
- 7-9 **Nat'l Inst of Health Symp/Nat'l In-**

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

ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
DOE	Department of Energy
EPS	European Physical Society
IAEA	International Atomic Energy Agency
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
NSF	National Science Foundation
ORNL	Oak Ridge National Laboratory

This is a complete listing of physics-related meetings known to us. A complete calendar will appear in alternate months (no calendar in other months). Those wishing to submit items should send complete information at least three months before the notice should appear.

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- strumentation Expo Wash., D.C. 5/78
- 7-11 • **Berkeley Symp on Relativity and Cosmology In Honor of A. H. Taub** Berkeley, Cal. (F. Tipler, Math Dept, Univ of Cal., Berkeley, Cal. 94720)
- 10-12 **Photopion Nuclear Physics—Int Symp** [APS Nuclear Physics Div] Troy, N.Y. 1/78
- 10-14 □ **Int Heat Transfer Conf** [ASME] Toronto, Canada (ASME, United Engineering Ctr, 345 E 47th St, N.Y., N.Y. 10017)
- 13-17 **Conf on Applied Crystallography** [ACA] Kozubnik, Poland 11/77
- 14-15 **Diffraction Profile Analysis Conf** [ACA] Cracow, Poland 11/77
- 14-17 **Symp on Crystal Structure and Bonding in Metal Complexes and Compounds** [ACA] Wroclaw, Poland 11/77
- 14-17 **World Conf and Exhibition on Energy From Biomass and Waste** [Inst of Gas Tech] Wash., D.C. 5/77
- 14-18 • **Int Meeting on Frontier of Physics** [Singapore Nat'l Acad of Science; Int Ctr for Theoretical Physics, Trieste] Singapore, Rep. of Singapore (K. K. Phua, Dept of Physics, Nanyang Univ, Jurong Rd, Singapore 22, Rep. of Singapore)
- 14-19 **Int Summer School on Diffraction Studies on Non-crystalline Substances** Pécs, Hungary 3/78
- 15-30 **Electronic and Magnetic Distributions in Molecules and Crystals/Application of Diffraction Methods** [NATO Adv Study Inst] Ales, France 3/78
- 17-21 **6th Int Conf on Atomic Physics** [USSR Acad of Sci Council on Spectroscopy; Physics Inst of Latvian SSR Acad of Sci; Latvian State Univ] Riga, USSR 5/78
- 18-15 **Math and Physical Principles of Remote Sensing—Summer School of Space Physics** [Ctr Nat'l D'Etudes Spatiales] Strasbourg, France 5/78
- 19-25 **6th Sagamore Conf on Charge, Spin and Momentum Densities** Quebec, Canada 3/78
- 20-25 **3rd Euroanalysis Conf** Dublin, Ireland **Topics:** atomic spectroscopy, x-ray techniques, computers 11/77
- 20-25 **17th Int Symp on Combustion** [Combustion Inst] Leeds, UK 9/77
- 20-1 **Synchrotron Radiation Applied to Biophysical, Biochemical and Biomedical Res** [Assoc Int de Photobiologie; Comitato Nazionale di Energia Nucleare; Istituto Nazionale di Fisica Nucleare; Consiglio Nazionale delle Ricerche] Rome, Italy 5/78
- 21-23 **2nd European Study Conf on Low-energy Molecular Collisions** [EPS; Danish Nat'l Sci Found] Brandbjerg, Denmark [5/1/78]
- 21-24 **2nd World Hydrogen Energy Conf** Zurich, Switz. 3/78
- 21-25 **Electron Spin Resonance Symp** [Midland Macromolecular Inst] Midland, Mich. 3/78
- 21-26 **20th Congress Ampere on Magnetic Resonance and Related Phenomena** Tallinn, USSR 3/78
- 22-25 **Australian Conf on Electron Spectroscopy** [Austr Inst of Physics; Austr Chemical Inst] Melbourne, Australia 9/77
- 22-28 **3rd Symp on Shell Theory** [Int Union of Theoretical and Applied Mechanics] Tbilisi, USSR
- 22-2 • **Nuclear Theory—Common Problems in Low and Medium-energy Nuclear Physics** [NATO Adv Study Inst] Banff, Canada (B. Castel, Physics Dept, Queen's Univ, Kingston, Ont., Canada)
- 23-29 **15th Int Conf on Low Temp Physics—Grenoble '78** Grenoble, France 11/77
- 23-30 **19th Int Conf on High Energy Physics** [IUPAP] Tokyo, Japan 3/78
- 23-30 **IAEA 7th Int Conf on Plasma Physics and Controlled Nuclear Fusion Res** Innsbruck, Austria 11/77
- 24-30 **8th Int Conf on Few Body Systems and Nuclear Forces** Graz, Austria 9/77
- 25-29 **Symp on Group Theoretical Methods in Mechanics** [Int Mechanical Union; Int Union of Theoretical and Applied Mechanics] Novosibirsk, USSR 5/78
- 28-31 **Annual Meeting of Amer. Section of Int Solar Energy Soc** Denver, Colo. 1/78
- 28-31 **Soc of Photo-optical Instrumentation Engineers—22nd Int Symp** San Diego, Cal. 5/78
- 28-1 **Int Conf on Nuclear Interactions** [IUPAP; Australian Inst of Physics; Australian Acad of Sci] Canberra, Austr 5/78
- 28-1 **Int Conf on X-ray and XUV Spectroscopy** [Sci Council of Japan; Japanese Soc of Applied Physics] Sendai, Japan 5/78
- 28-1 **Symp on Non-Newtonian Fluid Mechanics** [Int Union of Theoretical and Applied Mechanics] Louvain-la-Neuve, Belgium 5/78
- 28-1 **8th Int Conf on Applications of Mossbauer Effect** Kyoto, Japan 11/77
- 28-1 **11th Australian Spectroscopy Conf** [Austr. Acad of Science] Brisbane, Austr. 3/78
- 28-3 **Symp on Metal-forming Plasticity** [Int Union of Theoretical and Applied Mechanics] Tutzing, Fed. Rep. of Germany 5/78
- 28-9 **Electrons in Disordered Metals and at Metallic Surfaces** [NATO Adv Study Inst] Gent, Belgium 3/78
- 28-9 □ **OSA Topical Meeting on Meteorological Optics** Keystone, Colo. [4/28/78] 5/78
- 30-1 **3rd Int Conf on Electronic Structure of Actinides** Grenoble, France 3/78
- 30-1 **Int Conf on Recombination in Semiconductors** [IUPAP; IOP; Royal Soc] Southampton, UK 1/78
- 30-1 • **OSA Topical Meeting on Atmospheric Spectroscopy** Keystone, Colo. (W. G. Mankin, Nat'l Ctr for Atmospheric Res. P. O. Box 3000, Boulder, Colo. 80303) [4/28/78]
- 30-2 **Conf on Physics of Metallic Rare Earth and Actinides** Saint Pierre de Charreux, France 9/77

SEPTEMBER 1978

- 3-9 **6th Int Biophysics Cong** Kyoto, Japan 11/77
- 4-6 **5th Nat'l Systems Conf** Ludhiana, India [5/31/78] 3/78
- 4-6 **Applications of Machine-aided Image Analysis** [IOP Materials and Testing Group] Oxford, UK 5/78

1978 Gordon Research Conferences

The 1978 Gordon Research Conferences are being held through 25 August in New Hampshire and California. The conferences were established to stimulate research in universities, research foundations and industrial laboratories. This purpose is achieved by an informal type of meeting consisting of scheduled speakers and discussion groups.

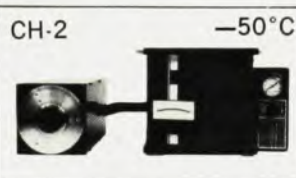
Complete information about the conferences is available from A. M. Cruickshank, Gordon Research Conferences, Pastore Chemical Laboratory, University of Rhode Island, Kingston, R.I. 02881 (see also Science, Vol. 199, pages 1097-1123).

Some physics-related conferences include:

- Corrosion**, 10-14 July; **Polymers**, 17-21 July; **Elastomers**, 24-28 July at Colby-Sawyer College, New London, N.H.
- Organic Reactions and Processes**, 17-21 July; **Chemical Oceanography**, 31 July-4 August; **Science of Adhesion**, 21-25 August at New Hampton School, New Hampton, N.H.
- Chemistry at Interfaces**, 17-21 July; **Research at High Pressure**, 7-11 August; **Photonuclear Reactions**, 14-18 August; **Metal Insulator-Semiconductor Systems**, 21-25 August at Kimball Union Academy, Meriden, N.H.
- Nuclear Structure Physics**, 10-14 July; **Thin Films and Solid Surfaces**, 31 July-4 August; **Solid State Studies in Ceramics**, 7-11 August; **Magnetic Resonance in Medicine and Biology**, 14-18 August at Tilton School, Tilton, N.H.
- Science and Technology of Biomaterials**, 17-21 July; **Chemistry and Physics of Coatings and Films**, 31 July-4 August; **Particle-Solid Interactions**, 7-11 August; **Plasma Chemistry**, 21-25 August at Proctor Academy, Andover, N.H.
- Radiation Chemistry**, 17-21 July; **Dielectric Phenomena**, 24-28 July; **Chemistry and Physics of Water and Aqueous Solutions**, 31 July-4 August at Holderness School, Plymouth, N.H.
- Electron Spectroscopy**, 17-21 July; **Atomic and Molecular Interaction**, 24-28 July; **Electron Donor-Acceptor Interactions**, 14-18 August; **Vibrational Spectroscopy**, 21-25 August at Brewster Academy, Wolfeboro, N.H.
- Dynamics of Quantum Solids and Fluids**, 10-14 July; **Statistics in Chemistry and Chemical Engineering**, 24-28 July; **Immunochemistry and Immunobiology**, 31 July-4 August; **Transport Phenomena in Synthetic and Biological Membranes**, 7-11 August at Plymouth State College, Plymouth, N.H.

- 4-7 **Int Topical Meeting on Muon Spin Rotation** Rorschach, Switz. 5/78
- 4-7 **Int CNRS Colloq on Physics of Metallic Rare Earths** St-Pierre de Chartreuse, France 3/78
- 4-8 **14th Int Conf on the Physics of Semiconductors** [IUPAP] Edinburgh, UK 1/78
- 4-8 **5th Int Conf on Beam-foil (Fast Ion) Spectroscopy** Lyon, France 5/78
- 4-9 **6th Int Conf on Raman Spectroscopy** [IUPAP; IUPAC; Indian Government] Bangalore, India 5/78
- 4-16 • **Diagnostics for Fusion Experiments** [Int School of Plasma Physics] Varenna, Italy (E. Sindoni, Istituto di Fisica, 16 Via Celoria, Milano, Italy)
- 5-7 **Biennial Conf on Vacuum Insulation and Flashover: 8th Int Symp on Discharges and Electrical Insulation in Vacuum** [Sandia Labs; Air Force Ofc of Sci Res; Los Alamos Sci Labs] Albuquerque, N.M. [5/1/78] 5/78
- 6-8 **Fiber-optic and Communications Expo** Chicago, Ill. 5/78
- 7-9 **Perspectives on Fundamental Physics** [Istituto di Fisica] Rome, Italy 5/78
- 10-13 • **Symp on Surface Contamination: Genesis, Detection, Control** Wash., D.C. (K. L. Mittal, Dept 49F, Bldg 300-078, IBM Corp, Hopewell Junction, N.Y. 12533)
- 10-17 **Int Commission for Optics—11th Meeting**, Madrid, Spain 9/77
- 11-13 **Symp on Variational Methods in Mechanics** [Int Union of Theoretical and Applied Mechanics] Evanston, Ill. 5/78
- 11-14 **Int Conf on Defects and Radiation Effects in Semiconductors** Nice, France 9/77
- 11-14 **Chemical and Physical Lifetime Limits of Macromolecular Materials—ACS Symp** Miami Beach, Fla. 3/78
- 11-14 • **World Conf of Int Nuclear Target Development Soc** Garching, Fed. Rep. of Germany (P. Maier-Komor, Physik Dept, Technical Univ Munchen, 8046 Garching, Fed. Rep. of Germany)
- 11-15 **4th Int Thin Films Cong: Thin Film Properties in Relation to Structure** [IOP] Loughborough, UK 9/77
- 11-15 **Application of High Magnetic Fields in Semiconductor Physics** Oxford, UK 1/78
- 11-15 **2nd Int Symp on Gas-flow and Chemical Lasers** Rhode-Saint-Genèse, Belgium 3/78
- 11-15 • **8th European Solid State Device Res Conf/3rd Symp on Solid State Device Technology** Montpellier, France (J. P. Nougier, Univ des Sciences et Techniques du Languedoc, Ctr d'Etudes d'Electronique des Solides, 34060 Montpellier Cédex, France) [5/5/78]
- 11-16 **Integrative Conf on Group Theory and Math Physics—7th Int Colloq** [IUPAP; AMP] Austin, Tex. 3/78
- 11-23 **Int Workshop on Use of Computers in Hydraulics and Water Resources** Delft, The Netherlands 3/78
- 12-14 **AAS High Energy Astrophysics Div Meeting** La Jolla, Cal. 9/77
- 12-14 • **10th Annual Symp on Optical Materials for High Power Lasers** [NBS; ONR; DOE; ASTM; Defense Adv Res Projects Agency] Boulder, Colo. (C. P. Marsden, NBS, Wash. D.C. 20234)

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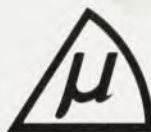
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- 12-15 **Computational Atomic and Molecular Physics Conf** [European Physical Soc] Nottingham, UK 11/77
- 12-15 • **4th European Conf on Optical Communication** Genoa, Italy (OSA, 2000 L St, NW, Wash., D.C. 20036)
- 18-20 **Int Conf on Solids and Plasmas in High Magnetic Fields** Cambridge, Mass. 3/78
- 18-20 **4th Acoustic Emission Symp** [High Pressure Inst of Japan] Tokyo, Japan 3/78
- 18-22 **3rd Int Symp on Neutron Capture Gamma-ray Spectroscopy and Related Topics** [ANS; DOE; APS; IUPAP] Upton, N.Y. 3/78
- 18-22 **10th Materials Res Symp: Characterization of High Temp Vapors and Gases** [NBS Inst for Materials Research] Gaithersburg, Md. 1/78
- 19-22 **Synthetic and Biological Macromolecules—Common Structural Aspects** [European Phys Soc Macromolecular Phys Div] Bristol, UK 1/78
- 20-22 **The Physics and Chemistry of Laser Induced Processes in Molecules** [European Phys Soc] Edinburgh, UK 1/78
- 20-23 **Optical Group, IOP—Biennial Conf** Bath, UK 3/78
- 25-28 **1978 Applied Superconductivity Conf** [APS; IEEE; DOE] Pittsburgh, Pa. 3/78
- 25-29 **Non-linear Behavior of Molecules, Atoms and Ions in Electric, Magnetic or Electromagnetic Fields** [Soc de Chimie Physique; Assoc Italiana de Chimica Fisica; Chemical Soc, Faraday Div; Deutsche Bunsengesellschaft für Physikalische Chemie] Fontevault, France 3/78
- 25-29 **4th Genl Conf of European Phys Soc** 9/77
- 26-28 **Aerosols in Science Medicine and Technology** [Assoc for Aerosol Res] Vienna, Austria 5/78
- 26-29 **Environmental Aspects of Nonconventional Energy Resources—2nd Topical ANS Meeting** Denver, Colo. 3/78
- 29-30 • **Fall Meeting—New England Section APS** Williamstown, Mass. Topic: High-energy Astrophysics in Age of HEAO (B. Pierce, Physics and Astronomy Dept, Williams College, Williamstown, Mass. 01267)

OCTOBER 1978

- 1-5 **Applied Electrostatics, Electrophotography and Electrostatic Precipitators** [IEEE Industrial Applications Group] Toronto, Canada 3/78
- 1-8 **29th Int Astronautical Cong; 8th Student Conf; 21st Space Law Colloq** [Int Astronautical Federation] Dubrovnik, Yugoslavia 3/78
- 2-6 **IAEA Int Symp on Nuclear Material Safeguards** Vienna, Austria [3/15/78] 11/77
- 3-4 **Color Measurement** [Materials and Testing Group and Optical Group, IOP] London, UK 5/78
- 4-6 • **Nat'l Conf of Standards Labs—Regulatory Impact on Metrology Mngt** Gaithersburg, Md. (B. Belanger, NBS, 221/A345, Wash., D.C. 20234)
- 6-7 • **SPS Meeting—Zone 9** Minneapolis, Minn. (M. Engelbretson, Physics Dept,

Augsburg College, Minneapolis, Minn. 55454)

- 9-10 • **Atmospheric Sensing With Lasers** [IOP Quantum Electronics Group] London, UK (Meetings Ofcr, IOP, 47 Belgrave Sq, London SW1X 8QX, UK)
- 9-12 **Int Workshop on Electric Charges in Dielectrics** Kyoto, Japan [3/31/78] 1/78
- 9-13 **Chapman Conf on Magnetospheric Substorms and Related Plasma Processes** [Amer. Geophysical Union; Los Alamos Scientific Lab] Los Alamos, N. Mex. [5/23/78] 3/78
- 11-13 • **Amer. Ceramic Soc Joint Meeting—Glass Div/Ceramic-metal Systems Div** Bedford, Penn. (W. G. French, Bell Labs, Murray Hill, N.Y. 07974)
- 13-14 • **N.Y. State Section APS—Fall Meeting** Yorktown Heights, N.Y. Topic: Frontiers of Physics of Solid-state Electronics (H. R. Hart, Jr, GE R&D Ctr, P. O. Box 8, Schenectady, N.Y. 12301)
- 13-14 • **AAPT III. Section** Chicago Heights, Ill. (G. Schmitz, Physics Dept, Prairie State College, Chicago Heights, Ill. 60411)
- 13-14 **APS Sectional Meeting** [Ohio Sect] Columbus, Ohio 9/77
- 15-20 **Fine Particles** [Electrothermics and Metallurgy Div of Electrochemical Soc] Pittsburgh, Penn. [5/1/78] 5/78
- 15-20 **Pittsburgh Meeting—Electrochemical Soc** Pittsburgh, Pa. 3/78
- 16-19 **Int Meeting on Nuclear Power Reactor Safety** [ANS] Brussels, Belgium 3/78
- 16-20 **Int Symp on Behavior of Tritium in the Environment** [IAEA; NEA] San Francisco, Cal. 3/78
- 17-20 • **APS Topical Conf—31st Annual Gaseous Electronics Conf** [APS Div of Electron and Atomic Physics; SUNY at Buffalo; Calspan Corp] Buffalo, N.Y. (D. M. Benenson, Electrical Engineering Dept, SUNY at Buffalo, 4232 Ridge Lea Rd, Amherst, N.Y. 14226) [8/11/78]
- 22-26 • **49th Annual Meeting—S of R** Houston, Tex. (M. Nightingale, S of R, AIP, 335 E 45th St, N.Y., N.Y. 10017) [7/15/78]
- 22-26 **2nd Int Meeting on Radiation Processing** [ACS; Assoc of Polymer Chemists of France; Japan Radiation Polymer Soc; Japan Atomic Energy Res Inst; Plastics Inst of Amer., Inc; Soc of Plastics Engineers; Rubber and Plastics Assoc of Great Britain; IAEA] Miami, Fla. 5/78
- 23-24 **11th Annual Synchrotron Radiation Users Group Meeting** Stoughton, Wisc. 5/78
- 24-26 • **Joint Lubrication Conf** [ASLE] Minneapolis, Minn. (C. Garvin-Donohue, ASME, 345 E 47th St, N.Y., N.Y. 10017)
- 25-28 • **Amer. Ceramic Soc Nuclear Div and Pacific Coast Regional Meeting** San Diego, Cal. (J. L. Harrison, Babcock & Wilcox Co, Lynchburg Res Ctr, P. O. Box 1260, Lynchburg, Va. 24505)
- 26-27 **5th Annual Stanford Synchrotron Radiation Lab Users Group Meeting** Stanford, Cal. 5/78
- 26-28 **APS Sectional Meeting** [SE Sect] Blacksburg, Va. 9/77
- 27 • **SPS Regional Meeting** Blacksburg,

Va. (D. W. J. Shea, SPS, State Univ of N. Y. at Stony Brook, Stony Brook, N.Y. 11794) To be held in conjunction with the APS-SES Meeting.

- 28 • **New England Section AAPT** Andover, Mass. (J. Guernsey, Sabrina Farm, Wellesley, Mass. 02181)
- 30-1 • **Physico-Chemical Hydrodynamics—2nd Int Conf** West Lafayette, Ind. (D. B. Spalding, Purdue Univ, Thermal Sciences and Propulsion Ctr, Chaffee Hall, West Lafayette, Ind. 47907)
- 30-1 **Fall Meeting of Soc for Industrial and Applied Math** Knoxville, Tenn. 3/78
- 30-1 **6th IEEE Int Semiconductor Laser Conf** San Francisco, Cal. [6/15/78] 5/78
- 30-2 **9th General Assembly of Int Union of Independent Labs/Symp on Safety and Industry** Bath, UK 3/78
- 30-3 □ **APS Div of Plasma Physics Meeting** Colorado Springs, Colo. (G. Bekefi, Physics Dept, Mass. Inst of Tech, Cambridge, Mass. 02139)
- 30-3 • **OSA Nat'l Meeting** San Francisco, Cal. (OSA, 2000 L St, NW, Suite 620, Wash., D.C. 20036) [7/7/78]
- 30-3 • **SPS Meeting—Zone 12** San Francisco, Cal. (D. W. J. Shea, SPS, State Univ of N.Y. at Stony Brook, Stony Brook, N.Y. 11794) To be held in conjunction with the OSA Meeting.
- 30-3 • **10th Annual Meeting—AAS Div of Planetary Sciences** Pasadena, Cal. (J. T. Bergstralh, Jet Propulsion Lab 183B-365, 4800 Oak Grove Dr, Pasadena, Cal. 91103) [9/15/78]
- 30-3 • **5th Annual Meeting—Federation of Analytical Chemistry and Spectroscopy Soc** Boston, Mass. (P. Lublin, GTE Labs, Waltham, Mass. 02154)

NOVEMBER 1978

- 1-2 **3rd IEEE Specialist Conf on Technology of Electroluminescent Diodes** San Francisco, Cal. [6/15/78] 5/78
- 4 • **AAPT N Cal. Section Meeting** Sacramento, Cal. (P. T. McCormick, Physics Dept, Univ of Santa Clara, Santa Clara, Cal. 95053)
- 4 • **Annual Fall Meeting—Iowa Section AAPT** Pella, Iowa (E. Poduska, Kirkwood Community College, Cedar Rapids, Iowa 52406)
- 5-9 • **Engineering in Medicine and Biology** [AEMB] Atlanta, Ga. (C. Garvin-Donohue, ASME, 345 E 47th St, N.Y., N.Y. 10017)
- 6-8 **5th Conf on Use of Small Accelerators** Denton, Tex. 3/78
- 6-9 • **Energy Technology Conf and Exhibition** Houston, Tex. (P. Fromme, ASME, 345 E 47th St, N.Y., N.Y. 10017)
- 6-10 **Int Symp on Water Reactor Fuel Element Fabrication and Its Effect on Fuel Performance** [IAEA] Prague, Czech. 3/78
- 7-11 • **Int Forum: An Acceptable Nuclear Energy Future of the World** [Ctr for Theoretical Studies, Univ of Miami] Coral Gables, Fla. (B. Kursunoglu, Univ of Miami, Ctr for Theoretical Studies, P. O. Box 249055, Coral Gables, Fla. 33124)
- 10-15 • **ASME Winter Meeting** San Francisco, Cal. (R. L. Webb, 207 Mech Engineering, Penn. State Univ, University Park, Penn. 16802)

- 12-17 **ANS Winter Meeting** Wash., D.C. 3/78
- 13-14 **12th LAMPF Users Group Meeting** [Los Alamos Scientific Lab] Los Alamos, N. Mex. 3/78
- 13-17 **Int Symp on Decommissioning of Nuclear Facilities** [IAEA; NEA] Vienna, Austria 3/78
- 14-16 **Military Electronics Expo** Anaheim, Cal. 3/78
- 14-16 **Government Microcircuit Applications Conf** [Dept of Defense; US Army, Navy, Air Force; NASA; Dept of Commerce; NBS; US Postal Service; Nat'l Security Agency; DOE; Defense Supply Agency] Monterey, Cal. 5/78
- 14-17 **24th Annual Conf on Magnetism and Magnetic Materials** [AIP; Magnetic Soc, IEEE; APS; ONR; Metallurgical Soc; AIME; ASTM] Cleveland, Ohio [7/21/78] 5/78
- 16-1 **ASA Fall Meeting** Honolulu, Hawaii 5/77
- 17-18 • **SPS Meeting—Zones 6 and 10** Nacogdoches, Tex. (J. E. Nicholson, Physics Dept, Stephen F. Austin State Univ, Nacogdoches, Tex. 75961) To be held in conjunction with the AAPT meeting.
- 17-18 • **Fall Meeting—Tex. Section AAPT** Nacogdoches, Tex. (R. B. Clark, Physics Dept, Tex. A&M Univ, College Station, Tex. 77843)
- 20-22 **APS Fluid Dynamics Div Meeting** Los Angeles, Cal. 9/77
- 26-1 • **64th Scientific Assembly and Annual Meeting—AAPM/RSNA** Chicago, Ill. (S. Pierce, AAPM, 111 E Wacker Dr, Chicago, Ill. 60601)
- 28-1 **Annual Meeting of AVS** San Francisco Cal. 1/78
- 29-1 **Annual Meeting of Materials Res Soc** Boston, Mass. 3/78
- 29-1 **APS Div of Electron and Atomic Physics** Madison, Wisc. 5/78

DECEMBER 1978

- 4-6 **Winter Simulation Conf** [NBS; US Dept of Commerce; Amer. Inst of Indust Engineers; Assoc for Computing Machinery; Systems, Man and Cybernetics Soc; IEEE; Operations Res Soc of Amer.; Inst for Mngmt Sci; Soc for Computer Simulation] Miami Beach Fla. 5/78
- 4-6 **Nat'l Telecommunications Conf** [IEEE] Birmingham, Ala. [6/15/78] 3/78
- 4-6 • **Waste Heat Mngt and Utilization** [ASME; NRC; EPA; DOE; EPRI; Univ of Miami; Fla. Power and Light Co] Miami Beach, Fla. (S. Sengupta, Mechanical Engineering Dept, Univ of Miami, P. O. Box 248294, Coral Gables, Fla. 33124) [5/31/78]
- 4-8 **Int Seminar and Autumn School on Magnetism** Gaussig, Dem. Rep. of Germany 3/78
- 11-15 **Int Symp on Use of Isotopes and Radiation in Soil-plant Relationships** [FAO; IAEA] Colombo, Sri Lanka 3/78
- 18-19 • **IOP Conf on Materials in a Marine Environment** London, UK (J. V. Sharp, Marine Tech Support Unit, B 424, AERE, Harwell, Didcot, Oxon, UK)
- 19-21 • **NRC Conf on Technical Aspects of Nuclear Waste Mngt** Denver, Colo. (NRC Conf Mngr, SCS Engineers,

SHORT COURSES

15 JULY-5 AUGUST 1978

Fundamentals of Phase-locked Loops [Contin Engineering Educ, George Washington Univ] Wash., D.C. (M. Augustin, Contin Engineering Educ, George Washington Univ, Wash., D.C. 20052)

17-19 JULY 1978

Computer Communications Networks [Contin Engineering Educ, George Washington Univ] Wash., D.C. (M. Augustin, Contin Engineering Educ, George Washington Univ, Wash., D.C. 20052)

20-21 JULY 1978

Microprocessor Seminar [IEEE] Nashville, Tenn. (V. J. Giardina, Contin Educ, 445 Hoes La, Piscataway, N.J. 08854)

24-28 JULY 1978

Applied Molecular Spectroscopy: Infrared, Raman, Ultraviolet [Ariz. State Univ] Tempe, Ariz. (J. Fuchs, Chem Dept, Ariz. State Univ, Tempe, Ariz. 85281)

24 JULY-5 AUGUST 1978

Intermolecular Spectroscopy and Dynamical Properties of Dense Systems—Enrico Fermi Int School of Physics Varenna, Italy (S. Cunsolo, Istituto di Fisica dell'Università Piazzale delle Scienze, 5, 00185 Roma, Italy)

26-28 JULY 1978

Solid-state Electronics for Non-electrical Engineers [Contin Engineering Educ, George Washington Univ] Wash., D.C. (Contin Engineering Educ, George Washington Univ, Wash., D.C. 20052)

29 JULY-9 SEPTEMBER 1978

Practical Digital Design and Applications [Contin Engineering Educ, George Washington Univ] Wash., D.C. (M. Augustin, Contin Engineering Educ, George Washington Univ, Wash., D.C. 20052)

31 JULY-11 AUGUST 1978

Coal Production, Technology, Utilization [Oak Ridge Assoc Univs] Oak Ridge, Tenn. (Oak Ridge Assoc Univs, P. O. Box 117, Oak Ridge, Tenn. 37830)

7-11 AUGUST 1978

Radar Signal Processing—Theory and Applications [Contin Engineering Educ, George Washington Univ] Wash., D.C. (M. Augustin, Contin Engineering Educ, George Washington Univ, Wash., D.C. 20052)

7-11 AUGUST 1978

Adv in Electronics Technology [Contin Engineering Educ, George Washington Univ] Wash., D.C. (M. Augustin, Contin Engineering Educ, George Washington Univ, Wash., D.C. 20052)

12-15 AUGUST 1978

Fundamentals of Noise and Vibration Control [Mass. Inst of Tech] Cambridge, Mass. (Director, Summer Sessions, E19-356, MIT, Cambridge, Mass. 02139)

Washington Univ, Wash., D.C. 20052)

14-18 AUGUST 1978

Satellite Systems for Navigation and Traffic Control—Design, Performance, Economics [Contin Engineering Educ, George Washington Univ] Wash., D.C. (M. Augustin, Contin Engineering Educ, George Washington Univ, Wash., D.C. 20052)

21-23 AUGUST 1978

Basic Electronics for Measurements and Instrumentation [Va. Polytech Inst and State Univ] Blacksburg, Va. (L. Leffel, VPSU, Extension Div, Blacksburg, Va. 24060)

21-25 AUGUST 1978

Fiber-optic and Electro-optic Systems Design [Univ of S Cal.] Los Angeles, Cal. (USC regit Service, College of Contin Educ, CES #9, Los Angeles, Cal. 90007)

21 AUGUST-1 SEPTEMBER

Lasers [Univ of S Cal.] Los Angeles, Cal. (L. Casperson, Electrical Sciences and Engineering Dept, School of Engineering and Applied Science, Univ of S Cal., Los Angeles, Cal. 90007)

24-26 AUGUST 1978

Instrumentation Signal Conditioning Techniques [Va. Polytech Inst and State Univ] Blacksburg, Va. (L. Leffel, VPSU, Extension Div, Blacksburg, Va. 24060)

28-30 AUGUST 1978

Digital Electronics and Microcomputer Interfacing Basics [Va. Polytech Inst and State Univ] Blacksburg, Va. (L. Leffel, VPSU, Extension Div, Blacksburg, Va. 24060)

31 AUGUST-2 SEPTEMBER

Microcomputer, Instrument and Analog Converter Interfacing and Programming [Va. Polytech Inst and State Univ] Blacksburg, Va. (L. Leffel, VPSU, Extension Div, Blacksburg, Va. 24060)

2-6 OCTOBER 1978

Fundamentals of Nondestructive Assay of Fissionable Material Using Portable Instrumentation [LASL; US DOE Safeguards Technology Training Program] Los Alamos, N.M. (K. Humphrey, US DOE Safeguards Tech Trng Prog, LASL, Q-DO/SG MS 550, Los Alamos, N.M. 87545) The course is geared toward DOE, NRC and contractor personnel and licensees.

21-22 OCTOBER 1978

Rheology of Dispersions [S of R] Houston, Tex. (M. Nightingale, S of R, AIP, 335 E 45th St, N.Y., N.Y. 10017)

27 NOVEMBER-1 DECEMBER

In-plant Nondestructive Assay Instrumentation [LASL; US DOE Safeguards Technology Training Program] Los Alamos, N.M. (K. Humphrey, US DOE Safeguards Tech Trng Prog, LASL, Q-DO/SG MS 550, Los Alamos, N.M. 87545) The course is geared toward DOE, NRC and contractor personnel and licensees.

27-29 **Symp on Biomaterials in Dentistry and Medicine** Los Angeles, Cal. 3/78

JANUARY 1979

- 3-5 • **16th Annual Solid-state Physics Conf** [IOP] Coventry, UK (*Meetings Ofcr, IOP, 47 Belgrave Sq, London SW1X 8QX, UK*)
- 4-5 • **Laser Plasma Interactions** [IOP Computational Physics, Plasma Physics, Quantum Electronics and Spectroscopy Groups] Bangor, UK (*Meetings Ofcr, IOP, 47 Belgrave Sq, London SW1X 8QX, UK*)
- 29-31 **1st Topical Meeting on Fusion Reactor Materials** [ANS; Ofc of Magnetic Fusion Energy of DOE; Electric Power Res Inst; Nuclear Metallurgy Committee of AIME; ASM] Miami Beach, Fla. 3/78
- 29-1 **APS General Meeting** N.Y., N.Y. [11/10/78] 1/78
- 29-1 • **Zone 2 SPS Meeting** New York, N.Y. (D. W. J. Shea, SPS, SUNY at Stony Brook, Stony Brook, N.Y. 11794) To be held in conjunction with the APS meeting.
- 30-2 • **Physics of Compound Semiconductor Interfaces** Pacific Grove, Cal. (R. S. Bauer, Xerox Palo Alto Res Ctr, 3333 Coyote Hill Rd, Palo Alto, Cal. 94304) [10/27/78]

MARCH 1979

- 12-14 • **1979 Particle Accelerator Conf** [IEEE] San Francisco, Cal. (R. B. Neal, SLAC, P. O. Box 4349, Stanford, Cal. 94305)
- 18-22 • **Zone 8 SPS Meeting** Chicago, Ill. (D. L. Bushnell, Physics Dept, Northern Ill. Univ, DeKalb, Ill. 60115)
- 19-22 **APS General Meeting** Chicago, Ill. [1/5/79] 1/78
- 23-24 • **Zone 9 SPS Meeting** Atchison, Kansas (D. Brothers, Physics Dept, Benedictine College, Atchison, Kansas 66002)
- 26-29 • **2nd European Conf on Surface Science/4th Interdisciplinary Surface Science Conf** Cambridge, UK (P. M. Williams, VG Scientific Ltd, The Birches Industrial Estate, E Grinstead, Sussex RH10 1QY, UK) [12/1/78]
- 28-30 • **Nuclear Structure and Elementary Particle Physics Conf** [IOP] Birmingham, UK (*Meetings Ofcr, IOP, 47 Belgrave Sq, London SW1X 8QX, UK*)
- 28-31 • **Symp on Archaeometry and Archaeological Prospection** [British Museum Res Lab, Inst of Archaeology, Univ of London] London, UK (*Symp Secretary, British Museum Res Lab, London WC1B 3DG, UK*) [12/9/78]

APRIL 1979

- 4-6 • **Strength and Structure in Carbons and Graphites** [IOP Joint Carbon and Graphite Group] Bath, UK (*Meetings Ofcr, IOP, 47 Belgrave Sq, London SW1X 8QX, UK*) [9/30/78]
- 6-7 • **New England Section AAPT** Lowell, Mass. (J. Guernsey, Sabrina Farm, Wellesley, Mass. 02181)
- 9-12 **2nd Symp on Incoherent Light Sources** Enschede, The Netherlands

[6/1/78] 5/78

- 17-20 **Electrostatics '79** [IOP Static Electrification Group] Oxford, UK 11/77
- 22-27 **Workshop on Solar-terrestrial Predictions** [NOAA Environmental Research Labs] Boulder, Colo. [11/1/78] 1/78
- 23-26 □ **APS Cosmic Physics Div/AAS HEAD Meeting** Wash., D.C. [2/2/79] 1/78
- 28 • **Spring Meeting—N Cal. Section AAPT** San Jose, Cal. (P. T. McCormick, Physics Dept, Univ of Santa Clara, Santa Clara, Cal. 95053)
- 28-3 • **81st Annual Meeting and Expo of Amer. Ceramic Soc** Cincinnati, Ohio (F. P. Reid, ACS, Inc, 65 Ceramic Dr, Columbus, Ohio 43214)

MAY 1979

- 6-11 • **European Nuclear Conf** Hamburg, Fed. Rep. of Germany (A. J. Gauvenet, CEA, 29 rue de la Federation, Paris 15, France)

JUNE 1979

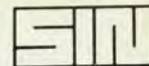
- 3-8 • **ANS Annual Meeting** Atlanta, Ga. (W. M. Stacey, Jr, Ga. Inst of Technology, Atlanta, Ga. 30332)
- 11-15 • **Symp on Accuracy in Powder Diffraction** Wash., D.C. (S. Block, Crystallography Section, NBS, Wash., D.C. 20234)

JULY 1979

- 17-20 • **Joint Intermag—Magnetism and Magnetic Materials Conf** New York, N.Y. (P. W. Shumate, Bell Labs, rm 2D 343, Murray Hill, N.J. 07974)

AUGUST 1979

- 12-17 • **8th Int Conf on Atomic Collisions in Solids** Hamilton, Canada (J. E. Robinson, Engineering Physics Dept, McMaster Univ, Hamilton, Ont., Canada L8S 4M1)
- 19-25 • **6th Sagamore Conf on Charge, Spin and Momentum Densities** Mont Tremblant, Canada (M. J. Cooper, Physics Dept, Univ of Warwick, Coventry CV4 7AL, UK)
- 19-24 • **12th Int Conf on Medical and Biological Engineering/5th Int Conf on Medical Physics** Jerusalem, Israel (*Conf Secretariat, P. O. Box 16271, Tel Aviv, Israel*)
- 20-24 **7th Int Colloq on Gasdynamics of Explosions and Reactive Systems** Gottingen, Fed. Rep. of Germany [2/1/79] 5/78
- 27-31 **27th Congress of Int Union of Pure and Applied Chemistry** Helsinki, Finland 3/78
- 27-8 • **Workshop on Physics of Plasmas Close to Thermonuclear Conditions** [Int School of Plasma Physics] Varenna, Italy (E. Sindoni, Istituto de Fisica, Via Celoria, 16 Milano, Italy)
- 28-31 • **Int Symp on Mechanics of Sound Generation in Flows** [IUTAM; Int Commission on Acoustics; AIAA] Gottingen, Fed. Rep. of Germany (E. A. Müller, Max-Planck-Institut für Stromungsforschung, Böttingerstrasse 4-8, D3400 Gottingen, Fed. Rep. of Germany) □



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