

calendar

JULY 1977

- 11-13 **Int Conf on Physical Chem and Hydrodynamics / Benjamin Levich** [Organizing Committee] Oxford, UK 5/77
- 11-14 • **11th Int Symp on Shock Tubes and Waves—APS Topical Conf** Seattle, Wash. (W. W. Havens, Jr, APS, 335 E 45th St, N.Y., N.Y. 10017)
- 11-15 **Workshop on Classical Particle Electrodynamics** [Int Ctr for Theor Phys] Trieste, Italy 5/77
- 11-15 **Basic Nuclear Reactor Tech** [Rensselaer Polytech Inst] Troy, N.Y. 5/77
- 11-16 **Int Summer School on Groups and Many-Body Physics** [Stiftung Volkswagenwerk] Tuebingen, Fed. Rep. of Germany 1/77
- 11-17 • **10th Int Conf on High Energy Accelerators** [USSR Acad of Scis] Serpukhov, USSR (A. A. Logunov, USSR Acad of Scis, 14 Leninsky Prospekt, Moscow V-71, USSR)
- 12-15 • **Nuclear and Space Radiation Effects Conf** [NPS; NASA; JPL] Williamsburg, Va. (H. Hughes, Naval Res Lab, Code 5216, Wash., D.C. 20375)
- 12-15 **9th Annual Conf** [EPS, Eur Group for Atomic Spectroscopy] Krakow, Poland 11/76
- 13-14 • **Meeting of Task Group on Transfer of Radioactive Materials in Urban Environs** [Sandia Labs] Houston, Tex. (A. Ducharme, Sandia Labs, Fuel Cycle Risk Analysis Div, 54 13, Albuquerque, N. Mex. 87115)
- 13-15 **Int Symp on Microwave Diagnostics of Semiconductors** [Semiconductor Lab of Tech Res Ctr of Finland] Porvoo, Finland [9/30/76] 7/76
- 13-15 **Processing, Structure, Props and Performance of Polymers** [IOP Polymer Phys Group] Nottingham, UK [4/29/77] 1/77
- 13-19 • **3rd Int Symp on Chemistry of Plasmas** [Chem Plasma Comm, IUPAC] Limoges, France (B. Renard, Indust Attache, Suite 620, 1100 Connecticut Ave, NW, Wash., D.C. 20036)
- 15-21 **High Energy Physics** [Dubna Joint Inst for Nuclear Res] Tbilisi, USSR 7/76
- 15-30 • **Coherence in Spectroscopy** [Nato Adv Study Inst] Versilia, Italy (F. T. Arechi, CISE, PO Box 3986, 20100 Milano, Italy)
- 17-20 **10th Annual Int Metallographic Convention** [Int Metallographic Soc; ASM] Houston, Tex. [4/1/77] 3/77
- 17-22 • **Summer Meeting, Power Engineering Soc** Mexico City, Mexico (F. Hawley, N Condumex, Sa Poniente 140, No. 720, Mexico 16)
- 17-22 **5th Int Conf on Crystal Growth** [Mass. Inst of Tech] Cambridge, Mass 7/76
- 17-22 **Assess of Environmental Regulation** [Eng Found] Henniker, N. Hamp. 5/77
- 17-30 **Path Integrals and Their Appl** [NATO Adv Study Inst] Antwerp, Belgium 3/77
- 18-20 **Int Conf on Integrated Optics and Optical Fiber Communication** [Univ of Tokyo] Tokyo, Japan 5/77
- 18-20 **Summer Computer Simulation Conf**

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

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
EPS European Physical Society
ERDA Energy Research and Development Administration
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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[AMS; ISA; SCS; SHARE] Chicago, Ill. 5/77

- 18-21 **Inter / Micro '77** [McCrone Res Inst] Cambridge, UK 5/77
- 18-22 **Nuclear Reactor Design** [Rensselaer Polytech Inst] Troy, N.Y. 5/77
- 18-22 **6th Int Colloq on Group Theor Methods in Phys** [Deutsche Forschungsgemeinschaft] Tuebingen, Fed. Rep. of Germany 1/77
- 19-28 **5th Int Workshop on Weak Interactions With Very High Energy Beams** [Organizing Committee] Kobe, Japan [5/15/77] 5/77
- 20-22 • **Int Conf on High Pressure and Low Temp Physics—APS Topical Conf** Cleveland, Ohio (W. W. Havens, Jr, APS, 335 E 45th St, N.Y., N.Y. 10017)
- 21-27 **Int Conf on Physics of Electronic and Atomic Collisions** [Organizing Committee] Orsay, France 5/77
- 24-29 **Innovation in Meas Sci Symp** [Instru Soc of Amer.] Geneva, N.Y. 3/77
- 25-29 **Int High Pressure Conf—Appl and Tech** [Int Assoc for Res & Adv of High Pressure Tech] Boulder, Colo. [1/15/77] 11/76
- 25-29 **28th Annual Fisk Inst** [Fisk Univ; Vanderbilt Univ; Tenn. Dept of Public Health] Nashville, Tenn. **Topics:** infrared & raman spectra, gas-liquid chromatog, pollution control. 5/77
- 26-28 • **Electromagnetic Compatibility Sym** [Organizing Committee] Seattle, Wash. (B. L. Carlson, Jr, Boeing Co, PO Box 3029, Seattle, Wash. 98004)
- 26-29 **Molecular Solids/Electron Transport Conf** [EPS; IOP] Leeds, UK 7/76
- 31-4 **19th Annual Meeting—AAPM** Cincinnati, Ohio 3/77

AUGUST 1977

- 1-3 **Changing Career Opport for Physicists—APS Topical Conf** Penn State Univ, Univ. Pk. [3/30/77] 3/77
- 1-4 **4th Rolla Conf on Surface Props of Mat** [Univ of Missouri at Rolla; US ERDA] Rolla, Mo. [3/31/77] 3/77
- 1-5 **Self-paced Learning: Concept and Proc** [Evergreen State Col; NSF] Olympia, Wash. To be repeated 8-12 August. 5/77
- 1-6 **Int Conf on Thermal Analysis** [Soc of Calorimetry & Thermal Analysis; Sci Council of Japan; Japan Soc] Kyoto, Japan 5/77
- 1-13 **Nonlinear Equations in Phys and Math** [NATO Adv Study Inst] Istanbul, Turkey 3/77
- 2-5 • **Cryogenic Engineering Conf** [Univ of Colo.; NBS] Boulder, Colo. (D. Belsher, NBS, Boulder, Colo. 80302)
- 3-5 **26th Annual Conf on Appl of X-ray Analysis** [Univ of Denver Chem Dept and Metallurgy and Mat Sci Div, Denver Res Inst] Denver, Colo. 5/77
- 7-12 **Michigan State Meeting—ACA** E. Lansing, Mich. 5/77
- 7-13 **8th Int Conf on General Relativity and Gravitation** [Int Soc on GR&G] Waterloo, Canada 7/76
- 8-12 **Quantum Crystal Conf** [Colo. State Univ; NSF, IUPAP] Fort Collins, Colo. 5/77
- 8-12 • **Solar Prominences and Their En-**

vironments [Inst of Theor Astrophysics, Univ of Oslo, Norway] Oslo, Norway (E. Jensen, Inst of Theor Astrophys, Univ of Oslo, PO Box 1029, Blindern Oslo 3, Norway)

- 9-11 **Optical Propagation Through Turbulence, Rain and Fog** [OSA] Boulder, Colo. 5/77
- 10-12 **Thermoelectric Props of Metallic Conductors** [Int Organizing Committee] East Lansing, Mich. 11/76
- 10-19 **15th Int Cong on the History of Science** [Int Union of History & Philo of Sci] Edinburgh, UK 11/76
- 10-23 **7th Hawaii Topical Conf in High-Energy Phys** [Univ of Hawaii at Manoa] Honolulu, Hawaii 3/77
- 11-18 • **Microbeam Analysis Soc and Electron Microscopy Soc of Amer. Joint Meeting** Boston, Mass. (P. Liblin, Waltham Res Ctr, GTE Labs, 40 Sylvan Rd, Waltham, Mass. 02154)
- 11-18 • **Symp on Found of Modern Physics** [Organizing Committee] Loma-Koli, Finland (V. Karimaki, Nuclear Phys Dept, Univ of Helsinki, Siltavuorenpenger 20 c, SF-00170 Helsinki 17, Finland)
- 13-26 **15th Int Cosmic Ray Conf** [IUPAP] Plovdiv, Bulgaria 11/76
- 14-17 **17th Nat'l Heat Transfer Conf** [Organizing Committee] Salt Lake City, Utah 5/77
- 15-18 **Int Conf on Polymer Processing** [Mass. Inst of Tech] Cambridge, Mass. 11/76
- 15-18 **Magnetic Alloys and Oxides** [EPS; Israel Acad of Sci & Humanities] Haifa, Israel 5/77
- 15-18 **Collision Induced Absorption** [Univ of Guelph; NRC of Canada] Guelph, Canada 5/77
- 15-19 **Physics of Transition Metals** [Organizing Committee; IUPAP] Toronto, Canada 7/76
- 16-18 **Conf on Plasmas, Lasers, Statistical Mech & Biophys** [Univ of Waikato] Hamilton, N. Zealand 1/77
- 16-19 **Symp on Planetary Atmospheres** [Royal Soc of Canada; NRC of Canada] Ottawa, Canada 5/77
- 19-24 **Int Microprobe Meeting** [Electron Microscopy Soc of Amer.] Boston, Mass. 11/76
- 19-28 **Struct and Radiation Props of Aerosols and Clouds** [Munich Univ] Garmisch Partenkirchen, Fed. Rep. of Germany 7/76
- 21-24 **Low Temp Nuclear Heat** [ANS-PD, Cent Eur Section; Finnish Nuclear Soc] Otaniemi, Finland 5/77
- 21-3 **Molecular Phys of Liquid Crystals** [NATO Advanced Study Inst] Cambridge, UK 5/77
- 22-26 • **Structure and Properties of Nearby Galaxies** [Organizing Committee] Bad Münstereifel, Fed. Rep. of Germany (R. Wielebinski, Max-Planck-Inst fur Radioastronomie, Auf dem Hugel 69, D-5300 Bonn 1, Fed. Rep. of Germany)
- 22-26 **3rd Int Summer Inst in Surface Sci** [Univ of Wisconsin] Milwaukee, Wisc. 5/77
- 22-26 **Int Conf on X-ray Optics and Microanalysis** [Microbeam Analysis Soc; Electron Microscopy Soc of Amer.] Boston, Mass. 5/77
- 22-26 **35th Annual Meeting** [Electron Microscopy Soc of Amer.] Boston, Mass.

11/76

- 22-26 **6th Int Colloquium on Gasdynamics of Explosions and Reactive Systems** [Organizing Committee] Stockholm, Sweden 11/76
- 22-26 **Int Symp on Flow-Induced Crystallization** [Midland Macromolecular Inst] Midland, Mich. 3/77
- 22-2 **Correlation Functions and Quasi-Particle Interactions in Condensed Matter** [Nato Adv Study Inst] Minneapolis, Minn. 3/77
- 24-26 **19th Canadian High-Polymer Forum** [NRC of Canada] Ottawa, Canada 3/77
- 24-26 **15th Int Thermal Conductivity Conf** [Organizing Committee] Ottawa, Canada 5/77
- 24-30 **13th Conf of Statistical Phys.** [IUPAP; Israel Acad of Science and Humanities; Israel Physical Soc] Haifa, Israel 11/76
- 24-4 • **Int School of Relativistic Astrophysics** [Organizing Committee] Erice, Italy (Secr, CCSEM, via Guarnotta 26, I-91016 Erice, Italy)
- 25-31 **1977 Int Symp on Lepton and Photon Interactions at High Energies** [Organizing Committee] Hamburg, Fed. Rep. of Germany 1/77
- 28-2 **12th Intersoc Energy Conversion Eng Conf** [Organizing Committee] Wash., D.C. 1/77
- 29-31 **Int Thermal Expansion Symp** [Organizing Committee] Gull Harbor, Canada 5/77
- 29-1 **3rd Specialized Colloque Ampere: Optical Studies in Magnetic Resonance** [Organizing Committee] Dublin, Rep. of Ireland [1/15/77] 11/76
- 29-1 □ **5th Int Conf and Exhibition on Liquefied Natural Gas** [Inst of Gas Tech; Int Gas Union, London; Int Inst of Refrigeration, Paris] Dusseldorf, Fed. Rep. of Germany (Inst of Gas Tech, 3424 S State St, IIT Ctr, Chicago, Ill. 60616)
- 29-2 • **7th Int Conf on High Energy Physics and Nuclear Structure** [Organizing Committee] Zurich, Switz. (F. Huber, SIN, CH-5234 Villigen, Suisse)
- 29-2 **6th Int Conf on Magnet Tech** [Int Organizing Committee] Bratislava, Czech. 11/76
- 30-31 • **9th Conf on Solid-state Devices** [Japan Soc of Appl Phys] Tokyo, Japan (T. Sugano, Electronic Engin Dept, Univ of Tokyo, 7-3-1, Hongo, Bunkyo-ku, Tokyo 113, Japan)
- 30-3 **European Crystallographic Meeting** [Organizing Committee] Oxford, UK 5/77
- 30-7 **Int Conf on Atomic Spectroscopy / 20th Colloq Spectroscopicum Int** [Tech Univs in Prague] Prague, Czech. 5/77
- 31-2 **1st Astron and Astrophysics Conf** [Univ of Canterbury] Christchurch, New Zealand 11/76

SEPTEMBER 1977

- 4-8 **Low-Energy Ion Beams** [IOP Atomic Collisions in Solids Group] Salford, UK 1/77
- 5-8 • **7th European Microwave Conf** [Organizing Committee] Copenhagen, Denmark (Vde-zentralstelle Tagungen, D-6 Frankfurt/Main 70, Stresmannallee

- 21 *Fed. Rep. of Germany*)
- 5-9 **5th Int Conf on Vacuum Ultraviolet Radiation Phys** [Organizing Committee] Montpellier, France 7/76
- 5-9 **Int Symp on Phys at Ultralow Temps** [IUPAP] Hakone, Japan 11/76
- 5-9 **Int Symp on Monitoring of Radioactive Releases** [IAEA] Portoroz, Yugoslavia 3/77
- 5-9 **24th Int Field Emission Symp** [Univ of Oxford] Oxford, UK 11/76
- 5-10 **Int Conf on Lattice Dynamics** [Organizing Committee] Paris, France 11/76
- 5-10 **Int Conf on Nuclear Struct** [IUPAP; Sci Council of Japan; Physical Soc of Japan; Inst for Nuclear Study, Univ of Tokyo] Tokyo, Japan 5/77
- 5-10 • **Int Conf on Mossbauer Spectroscopy** [Organizing Committee] Bucharest, Romania (M. Morariu, PO Box 5206, Bucharest/Magurele, Romania)
- 6-8 **7th Int Cong on Instru in Aerospace Simulation Facilities** [IEEE] Shrivenham, UK [5/1/77] 1/77
- 6-9 • **Interaction of Variable Stars with Their Environment** [Organizing Committee] Hamburg, Fed. Rep. of Germany (R. Kippenhahn, Inst für Astrophysik, Fohringer Ring 6, D-8 Munich 40, Fed. Rep. of Germany)
- 7-8 • **Earthquake Design Criteria, Structural Performance and Strong Motion Records** [NBS; Earthquake Engin Res Inst] (R. N. Wright, B260, Bldg Res Bldg, NBS, Wash., D.C. 20234)
- 7-9 **Electrical Transport and Optical Props of Inhomog Media** [Ohio State Univ] Columbus, Ohio [7/1/77] 3/77
- 7-9 **General Rheology and Stretching Flows** [British Soc of Rheology] Edinburgh, UK 5/77
- 8-10 • **Chemico-dynamical Evolution of Our Galaxy** [Organizing Committee] Torun, Poland (L. Martinet, Observatoire de Genève, CH-1290 Sauverny, Suisse)
- 9 **AAPT Sectional Meeting—Colo. Sect.** Denver, Colo. 5/77
- 11-16 **Symp on Phys and Chem of Ice** (Int Glaciological Soc) Cambridge, UK 7/76
- 11-21 • **Int Conf on Operator Algebra Ideals in Their Physics** [Organizing Committee] Leipzig, Dem. Rep. of Germany (A. Uhlmann, Karl-Marx Univ, Sektion Physik, DDR-701 Leipzig, Dem. Rep. of Germany)
- 12-14 • **EMAG'77: Developments in Electron Microscopy and Analysis** [IOP] Glasgow, UK (Meeting Ofcr, IOP, 47 Belgrave Sq, London SW1X 8QX UK)
- 12-14 • **Synchrotron Radiation Instrumentation and Developments** [Organizing Committee] Orsay, France (Y. Farge, SRI Conf, L U R E, Univ Paris-Sud, Bâtiment 200, 91405 Orsay, France)
- 12-15 **7th European Solid-state Devices Res Conf** [IOP Solid-state Phys subcommittee] Brighton, UK 1/77
- 12-15 **3rd Int Conf on Phys of Narrow-Gap Semiconductors** [Polish Acad of Sci; Univ of Warsaw; IUPAP] Warsaw, Poland [5/30/77] 3/77
- 12-16 **7th Int Vacuum Congress and 3rd Int Conf on Solid Surfaces** [Organizing

Committee] Vienna, Austria 7/75; 11/76

- 12-16 • **Large-scale Structure of the Universe** [Organizing Committee] Tallinn, USSR (M. J. Longair, Cavendish Lab, Madingley Rd, Cambridge CB3 0HE, UK)
- 12-16 • **13th European Cong on Molecular Spectroscopy** [IUPAC; IUPAP] Wrocław, Poland (B. Jezowska-Trzebiatowska, Univ of Wrocław, Inst of Chem, 14 Joliot-Durie St, Wrocław, Poland)
- 12-17 • **Int Symp on Nuclear Collisions and Their Microscopic Description** [Organizing Committee] Bled, Yugoslavia (N. Mankoc-Borstnik, Univ of Ljubljana, J. Stefan Inst, Jamova 39, PO Box 199, 61000 Ljubljana, Yugoslavia)
- 12-17 • **13th Int Conf on Phenomena in**

Ionized Gases [IUPAP] Berlin, Dem. Rep. of Germany (G. Hinzpeter, Acad of Sci of Dem. Rep. of Germany, PO Box 73, DDR-108 Berlin, Dem. Rep. of Germany)

- 13-15 • **Ion-Ion and Ion-Solvent Interactions** [Organizing Committee] Oxford, UK (A. K. Covington, Physical Chem Dept, The Univ, Newcastle upon Tyne, NE1 7RU, UK)
- 13-16 • **4th Int Symp on Nuclear Quadrupole Resonance Spectroscopy** [Organizing Committee] Osaka, Japan (4th ISNQRS, Science Faculty, Osaka Univ, Toyonaka 560, Osaka, Japan)
- 14-15 • **Biological Appl of Magnetic Resonance** [Organizing Committee] Dundee, Scotland (R. A. Vaughan, Carnegie Lab of Phys, Univ of Dundee, Dundee DD1 4HN, Scotland)

SHORT COURSES

12-14 JULY 1977

Solid-state Imaging [Amer. Univ] Wash., D.C. (Amer. Univ, Ofc of Summer Sessions, Massachusetts & Nebraska Aves, NW, Wash., D.C. 20016)

12-14 JULY 1977

Laser Appl Today and Tomorrow [George Wash Univ] Wash., D.C. (Contin Engin Educ, GW Univ, Wash., D.C. 20052)

12-15 JULY 1977

Digital Image Processing [Integrated Computer Systems, Inc; Image Processing Inst of Univ of S Calif.] Los Angeles, Calif. (Enrollment Secretary, ICS, Inc, 4445 Overland Ave, Culver City, Calif. 90239) To be repeated in a shorter form 25-27 July in Wash., D.C.

18-21 JULY 1977

Computer Techniques in Image Pattern Recognition and Analysis [Integrated Computer Systems, Inc; Image Processing Inst of Univ of S Calif.] Los Angeles, Calif. (Enrollment Secretary, ICS, Inc, 4445 Overland Ave, Culver City, Calif. 90239) To be repeated 27-29 July in Wash., D.C.

18-29 JULY 1977

Energy for Energy Decision-Makers [Mass. Inst of Tech] Cambridge, Mass. (Summer Session Director, rm E19-356, MIT, Cambridge, Mass. 02139)

25-27 JULY 1977

Auditory and Hearing Prosthetics Research [Univ of Wyoming] Laramie, Wyo. (Auditory & Electroacoustics Res Group, Box 3295, Univ Station, Univ of Wyo., Laramie, Wyo. 82071)

25 JULY-2 AUGUST

Applied X-ray Spectrometry and X-ray Powder Diffraction [Univ of Denver, Chem Dept; Denver Res Inst, Metallurgy & Mat Sci Div] Denver, Colo. (M. Cain, Denver Res Inst, Univ of Denver, Denver, Colo. 80208)

26-28 JULY 1977

Advanced Infrared Focal Plane Arrays [Amer. Univ] Wash., D.C. (Amer. Univ, Ofc of Summer Sessions, Massachusetts & Nebraska Aves, NW, Wash., D.C. 20016)

1-5 AUGUST 1977

Data Communications Systems and Networks [George Wash Univ] Wash.,

D.C. (Contin Engin Educ, GW Univ, Wash., D.C. 20052)

2-4 AUGUST 1977

Charge-Transfer Device Signal Processing [Amer. Univ] Wash., D.C. (Amer. Univ, Ofc of Summer Sessions, Massachusetts & Nebraska Aves, NW, Wash., D.C. 20016)

8-19 AUGUST 1977

□ **Physics of Quantum Electronics** [Organizing Committee] Telluride, Colo. (S. F. Jacobs, Rt 21, Box 732D, Tucson, Ariz. 85715)

12-16 SEPTEMBER 1977

Fiber and Integrated Optics [George Wash Univ] Wash., D.C. (Contin Engin Educ, GW Univ, Wash., D.C. 20052) To be repeated 19-23 September

26-30 SEPTEMBER 1977

Spread-Spectrum Communication Systems [George Wash Univ] Wash., D.C. (Contin Engin Educ, GW Univ, Wash., D.C. 20052)

26-30 SEPTEMBER 1977

Small Computer Systems [George Wash Univ] Wash., D.C. (Contin Engin Educ, GW Univ, Wash., D.C. 20052)

3-5 OCTOBER 1977

Nonparametric Statistics [George Wash Univ] Wash., D.C. (Contin Engin Educ, GW Univ, Wash., D.C. 20052)

13-15 OCTOBER 1977

Noise Control [Inst of Noise Control Engin] Hampton, Va. To precede Noise-Con '77 Conf (N-C '77 Sec, PO Box 3469, Arlington Branch, Poughkeepsie, N.Y. 12603)

7-11 NOVEMBER 1977

Short Courses in Vacuum Science and Technology [AVS] Boston, Mass. Topics: fundamental theory through state-of-the-art, equip, applications (N. Hammond, AVS, 335 E 45th St, N.Y., N.Y. 10017) To be held in conjunction with the AVS 24th Nat'l Symp and Vacuum Show

14-18 NOVEMBER 1977

15th Annual Reliability Engineering and Management Inst [Univ of Ariz.; Honeywell Info Systems; Ariz. Computer Operations—Phoenix] Tucson, Ariz. (D. Kececioglu, Aerospace & Mech Engin Dept, Univ of Ariz., Bldg 16, Tucson, Ariz. 85721)

- 14-16 • **European Conf on Optical Communication** [Organizing Committee] Munich, Fed. Rep. of Germany (*W. Garth, Arcisstrasse 21, D-8000 Munich, Fed. Rep. of Germany*)
- 14-16 • **3rd Nat'l Quantum Electronics Conf** [Organizing Committee] Southampton, UK (*D. C. Hanna, Electronics Dept, Univ of Southampton, Southampton, Hants SO9 5NH, UK*)
- 18-23 • **4th Int Meeting on Ferroelectricity** [Organizing Committee] Leningrad, USSR (*A. F. Ioffe, Physico-Technical Inst, Acad of Scis of the USSR, Polytechnicheskaja, 194021 Leningrad 26, USSR*)
- 19-21 **WESCON / 77** [Organizing Committee] San Francisco, Cal. 3/77
- 19-22 **50th Anniversary of the Discovery of Electron Diffraction—Int Conf** [IOP] London, UK 7/76
- 19-23 **7th Int Conf on Atomic Collisions in Solids** [Int Committee] Moscow, USSR 1/77
- 19-23 **2nd Ion Mass Spectroscopy and Ion Microprobe Int Conf** [Muenster Univ] Muenster, Fed. Rep. of Germany 5/77
- 19-23 • **8th European Conf on Controlled Fusion and Plasma Physics** [Organizing Committee] Prague, Czech. (*V. Kopecky, PO Box 65, 180 00 Prague 8, Czech.*)
- 19-23 • **5th Colloq on High Resolution Molecular Spectroscopy** [Organizing Committee] Tours France (*G. Amat, Lab de Phys Moléculaire et d'Optique Atmospherique, CNRS, Bâtiment 221, Campus d'Orsay, F-91405 Orsay Cedex, France*)
- 19-24 • **10th World Energy Conf** [Organizing Committee] Istanbul, Turkey (*J. Gregory, Engineers Joint Council, 345 E 47th St, N.Y., N.Y. 10017*)
- 20-22 **Non-linear Probs in Stress Analysis** [IOP Stress Analysis Group] Durham, UK 5/77
- 20-23 • **3rd European Solid-state Circuits Conf** [Organizing Committee] Ulm, Fed. Rep. of Germany (*VDE Zentralstelle Tagungen, Stresemannallee 21, D-6 Frankfurt/Main 70, Fed. Rep. of Germany*)
- 20-24 • **1977 Meeting of German Physical Society** Karlsruhe, Fed. Rep. of Germany (*H. Hirsch, Inst F. Agnew, Physik 11D, Univ, Albert-Heubler-Str. 3-5, D-6900 Heidelberg, Fed. Rep. of Germany*)
- 25-27 • **Appl of Optical Instrumentation in Medicine—VI** [Soc of Photo-Optical Instru Engin; Soc of Photo Scientists and Engin] Boston, Mass. (*SPIE, PO Box 10, 405 Fieldstone Rd, Bellingham, Wash. 98225*)
- 25-28 • **Joint Fall Meeting of Nuclear and Basic Sci Divs of Amer. Ceramic Soc** Hyannis, Mass. (*J. R. MacEwan, Nuclear Div, Atomic Energy of Canada Ltd, Chalk River, Ontario, Canada KOJ 1JO*)
- 25-1 **28th Int Astronautical Cong/20th Colloquium of Int Inst of Space Law/7th Int Student Conf** [Int Organizing Committee] Prague, Czech. 3/77
- 26-28 **EASCON / '77** [Organizing Committee] Arlington, Va. 5/77
- 26-28 • **Int Electrical and Electronics Conf and Exhibition** [Organizing Committee] Toronto, Canada (*D. M. Hinton, Bell Canada, 11 Bay Bridge Rd., Belleville, Ontario K8P 3P6, Canada*)
- 26-30 • **Solid-state Physics Meeting** [Organizing Committee] Sunny Beach, Bulgaria (*A. Derzhanski, bul Lenin 72, Sofia-1113, Bulgaria*)
- 26-30 **Int Symp on Photo- and Electro-Imaging** [Soc of Photographic Sci & Eng; Soc of Photographic Sci & Tech of Japan] Tokyo, Japan 3/77
- 27-29 **5th Data Communications Symp** [ACM; IEEE] Snowbird, Utah [5/1/77] 3/77
- 27-29 • **Utilization of Optics in Radar Systems Symp/Workshop** [Soc of Photo-Optical Instru Engin; US Army Ballistic Missile Defense Adv Tech Ctr; OSA; IEEE Aerospace and Electronic Systems Group] Huntsville, Alabama (*SPIE, PO Box 10, 405 Fieldstone Rd, Bellingham, Wash. 98225*)
- 27-29 • **Power Electronics—Power Semiconductors and Appl** [IEE UK & Rep. of Ireland sections] London, UK (*IEE, Savoy Place, London WC2R 0BL, UK*)
- 27-30 • **Photovoltaics Solar Energy Conf** [Organizing Committee] Luxembourg, The Netherlands (*A. Strub, CEC DG XII, 200 rue de la Loi, B-1049 Brussels, The Netherlands*)
- 28 • **Appl of Tuneable Lasers** [IOP Spectroscopy & Quantum Electronics Groups] London, UK (*D. N. Batchelder, Phys Dept, Queen Mary Coll, Mile End Rd, London E1 4NS*)
- 28-30 • **Microscopic Physics of Laser Interactions With Solids** [Organizing Committee] Strasbourg, France (*J. B. Grun, Lab de Spectroscopie et d'Optique du Corps Solide, 5, rue de l'Université, F-67000 Strasbourg, France*)
- 30-1 • **Physics of the Solid Earth—APS NY Sect Meeting** Rochester, N.Y. (*F. L. Wilson, NTID 60-2093, 1 Lomb Memorial Dr, Roch., N.Y.*)
- OCTOBER 1977**
- 2-4 **Global Growth Alternatives** [Soc for Int Development; Club of Rome; Univ of Houston; Mitchell Energy & Devel Corp] Houston, Texas 9/76
- 2-4 • **5th Biennial Symp on Turbulence** [Univ of Missouri-Rolla, Chem Engin Dept and extension div] Rolla, Mo. (*J. L. Zakin, Chem Engin Dept, Univ of Missouri-Rolla, Rolla, Mo. 65401*) [4/1/77]
- 2-6 **Applied Electrostatics, Electrophotography and Electrostatic Precipitators** [IEEE Indust Appl Group] Los Angeles, Cal. 3/77
- 3-5 **2nd Int Topical Conf on High Power Electron and Ion Beam R&D** [Cornell Univ; ERDA; USAF Ofc of Sci Res] Ithaca, N.Y. [5/1/77] 5/77
- 3-6 • **Amer. Soc for Nondestructive Testing: 3rd Quality Testing Show** Detroit Mich. (*D. J. Walter, ASNT, 3200 Riverside Dr, Columbus, Ohio 43221*)
- 3-7 **4th Int Conf on Small-Angle Scattering of X-rays and Neutrons** [ORNL; ERDA; US Nat'l Committee for Crystallography; ACA; Int Union of Crystallography] Gatlinburg, Tenn. 7/76
- 4-9 **Int Conf on Optical Computing in R&D** [Hungarian Acad of Sci] Visegrád, Hungary 5/77
- 6-7 • **9th Southeastern Magnetic Resonance Conf** [Georgia State Univ] Atlanta, Ga. (*J. H. Hadley, Phys Dept, Georgia State Univ, Atlanta, Ga. 30303*) [9/1/77]
- 9-14 • **2nd Cong of Int Tech** [Int Tech Found; Int Tech Inst; Cong of Int Tech] Pittsburgh, Penna. (*ITI, 7125 Saltsburg Rd, Pittsburgh, Penna. 15235*)
- 9-14 **Int Conf on Defects in Insulating Crystals** [ERDA; ORNL] Gatlinburg, Tenn. [6/1/77] 5/77
- 9-14 **Fall Meeting and Symp** [Electrochem Soc] Atlanta, Ga. [5/1/77] 3/77
- 10-14 **Int Symp on Appl of Reliability Tech to Nuclear Power Plants** [IAEA] Vienna, Austria [4/30/77] 5/77
- 10-14 **1977 Annual Meeting—OSA** Toronto, Canada [7/8/77] 1/77
- 14-15 • **SPS Meeting** [Zone 10, SPS] Fayetteville, Ark. (*G. J. Salama, Phys Dept, Univ of Arkansas, Fayetteville, Ark. 72701*)
- 14-16 **3rd Nat'l Quantum Elect Conf** [IOP; IEE; Chem Soc] Southampton, UK 11/76
- 17-19 □ **Noise-Con '77** [NASA Langley Res Ctr; Inst of Noise Control Eng] Hampton, Va. 5/77
- 17-21 **Int Symp on Neutron Inelastic Scattering** [IAEA] Vienna, Austria [5/16/77] 5/77
- 18-20 **23rd AAS Meeting/Indust of Space Conf** [AIAA; IEEE; Brit. Interplanetary Soc; Int Inst of Space Law; Amer. Soc for Quality Control; Stanford Res Inst; L-5 Soc; Nat'l Space Inst] San Francisco, Cal. [5/1/77] 5/77
- 18-21 • **30th Gaseous Electronics Conf—APS Topical Conf** Palo Alto, Calif. (*W. W. Havens Jr, APS, 335 E 45th St, N.Y., N.Y. 10017*)
- 19-21 • **Nuclear Science/Nuclear Power Systems Conf** [NPS] San Francisco, Calif. (*F. A. Kirsten, Lawrence Berkeley Lab, Univ of Calif., Berkeley, Calif. 94720*)
- 23-26 **24th Canadian Spectroscopy Symp** [Spec Soc of Canada] Ottawa, Canada 11/76
- 23-27 **48th Annual Meeting—Soc of Rheology** Madison, Wisc. 5/77
- 24-25 • **Recent Adv in Psychophysical and Visual Aspects of Image Evaluation** [OSA; Soc of Photo Scientists and Engin] Rochester, N.Y. (*SPSE, 1411 K St, NW, Suite 930, Wash., D.C.*)
- 24-28 • **10th Annual Synchrotron Radiation Users Group/4th Annual Stanford Synchrotron Users Group Meeting** [Stanford Linear Accel Ctr] Stoughton, Wisc. (*S. Doniach, SSRP, Bin 69, SLAC, PO Box 4349, Stanford, Calif. 94305*)
- 24-28 • **Int Conf on Energy Use Management** [Organizing Committee] Tucson, Ariz. (*R. A. Fazzolare, 106 Engin Bldg, Univ of Ariz., Tucson, Ariz. 85721*)
- 25-28 **Radar '77** [IEE; IEEE; Inst of Math and Its Appl; IOP; Inst for Elect and Radio Eng] London, UK 1/77
- 25-28 **7th Symp on Eng Problems of Fusion Res** [ORNL, Fusion Energy Div; IEEE Nuclear & Plasma Sci Soc; ANS Div of Controlled Nuclear Fusion; ERDA Div of Magnetic Fusion Energy] Knoxville, Tenn. 3/77
- 26-28 **1977 Ultrasonics Symp** [IEEE Group of Sonics and Ultrasonics] Phoenix, Ariz. 3/77
- 27-29 • **APS Nuclear Physics Div Meeting**

Rochester, N.Y. (APS, 335 E 45th St, N.Y., N.Y. 10017)

- 27-30 • **9th Annual Meeting—Planetary Science Div of AAS** Boston, Mass. (A. Brecher, Dept of Earth and Planetary Sci, Mass. Inst of Tech, 54-1114, Cambridge, Mass. 02139) [9/1/77]
- 29 • **Fall Meeting of New England Section of AAPT** Wellesley, Mass. (J. Willis, Phys Dept, Univ of Rhode Island, Kingston, R.I. 02881)
- 31-4 • **Int Symp on Radioimmunoassay in Medicine** [IAEA] W. Berlin, Fed. Rep. of Germany (J. H. Kane, Ofc of Tech Info, ERDA, Wash., D.C. 20545)

NOVEMBER 1977

- 2-5 • **IAU Symp No. 80: Hertzsprung-Russell Diagram** [Organizing Committee] Wash., D.C. **Topics:** life & work of H. N. Russell, spectral classif, stellar evolution, distance-scale. (E. R. Dyer, NAS, 2102 Constitution Ave, Wash., D.C. 20418)
- 4-5 • **Texas Sect AAPT—Fall Meeting** Dallas, Tx. (G. W. Crawford, Phys Dept, Southern Methodist Univ, Dallas, Tx. 75275)
- 4-5 • **35th Annual ACA Pittsburgh Diffraction Conf** Buffalo, N.Y. (J. F. Griffin, Medical Found of Buffalo, Inc, 73 High St, Buffalo, N.Y. 14203)
- 4-5 • **16th Eastern Theor Phys Conf** [College of William & Mary] Williamsburg, Va. 3/77
- 5 • **AAPT N and S Calif. Sects—Fall Meeting** Pomona, Calif. (P. T. McCormick, Phys Dept, Univ of Santa Clara, Santa Clara, Calif. 95053)
- 6-11 • **4th Joint Conf on Sensing of Environmental Pollutants** [Organizing Committee] New Orleans, La. [5/15/77] 5/77
- 7-9 • **Conf on Processing of Crystalline Ceramics** [N. Carolina State Univ] Raleigh, N.C. 5/77
- 7-11 • **Int Seminar on Magnetism** [Tech Univ Dresden, Phys Section; Inst for Solid-state Phys and Mat Sci, Acad of Sci of GDR] Dresden, Dem. Rep. of Germany 5/77
- 8-11 • **APS Topical Conf: Magnetism and Magnetic Mat** [AIP; IEEE] Minneapolis, Minn. [7/22/77] 3/77
- 8-11 • **24th Nat'l Vac Symp and Confs** [AVS; Steering Committee] **Topics:** Surface sci, thin films, vac tech, vac metallurgy Boston, Mass. [7/8/77] 3/77
- 10-11 • **Chem and Physical Processes in Combustion** [E Sect, Combustion Inst] Hartford, Conn. (W. Bartok, Exxon Res & Engin Co, PO Box 8, Linden, N.J. 07036) [8/1/77]
- 14-15 • **11th LAMPF Users Group Meeting** [LAMPF Users Group, Inc., LASL] Los Alamos, N. Mex. 3/77
- 21-23 • **SPS Symp/SE Sect APS Meeting** Miami Beach, Fla. (D. W. J. Shea, SPS, Graduate Phys Bldg, State Univ of N.Y., Stony Brook, N.Y. 11794)
- 21-23 • **Meeting of Fluid Dynamics Div of APS** Bethlehem, Penna. (R. J. Emrich, Phys Dept, Phys Bldg 16, Lehigh Univ, Bethlehem, Penna. 18015)
- 28-2 • **Protons and Ions in Fast Dynamic Phenomena** [Soc de Chimie Physique] Paris, France [6/1/77] 5/77

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- 29-3 • **67th Physics Expo of the French Physical Soc** Paris, France (*Exposition de Physique, Soc Francaise de Physique, 33, rue Croulebarbe, 75013 Paris, France*)

- 30-1 • **Present Status of Chemical Appl of Lasers** [Organizing Committee] Chapel Hill, N. Carolina (C. S. Johnson, Jr, Chem Dept-045 A, Univ of N. Carolina, Chapel Hill, N.C. 27514)

DECEMBER 1977

- 5-7 **1977 Winter Simulation Conf** [NBS] Gaithersburg, Md [4/15/77] 3/77
- 5-7 • **Nat'l Telecommunications Conf** [Organizing Committee] Los Angeles, Calif. (M. K. Simon, Jet Propulsion Lab, 4800 Oak Grove Dr, Pasadena, Calif. 91103)
- 5-7 □ **IEEE 1977 Int Electron Devices Meeting** Wash., D.C. (For poster sessions: R. Thomas, Electronics Dept, Carleton Univ, Colonel-By Dr, Ottawa, Ontario, Canada K1S5B6. For papers: A. U. MacRae, IEDM, Bell Labs, 600 Mountain Ave, rm 2D-434, Murray Hill, N.J. 07974) [8/8/77]
- 5-9 **Int Symp on Nat'l and Internat'l Standards for Radiation Dosimetry** [IAEA] Atlanta, Ga. [6/1/77, in Vienna] 3/77
- 13-16 **Winter Meeting—ASA** Miami Beach, Fla. 5/77

JANUARY 1978

- 3-7 • **Protostars and Planets** [Int Astronomical Union] Tucson, Ariz. (T. Gehrels, Lunar & Planetary Lab, Univ of Ariz., Tucson, Ariz. 85721)
- 4-7 • **Int Symp on Biomolecular Structure, Conformation, Function, Evolution** [Organizing Committee] Madras, India (R. Srinivasan, Phys Dept, Univ of Madras, Guindy Campus, Madras 600025, India)
- 11-13 • **3rd APS Topical Conf on Radio Frequency Plasma Heating** Pasadena, Calif. (R. W. Gould, Dept of Appl Phys, Calif. Inst of Tech, Pasadena, Calif. 91125)
- 11-14 • **AAS Dynamical Astronomy Div Meeting** Austin, Tex. (P. K. Seidelmann, US Naval Observ, Wash., D.C. 20390)
- 16-19 • **Health Phys Soc 11th Midyear Topical Symp—Radiation Instru** San Diego, Calif. (J. Trunzo, Scripps Clinic Medical Institutions, 10666 N Torrey Pines Rd, La Jolla, Calif. 92037)
- 16-18 • **IEEE/OSA Meeting on Integrated and Guided Wave Optics** Salt Lake City, Utah (OSA, 2000 L St, NW, Suite 620, Wash., D.C. 20036) [10/20/77]
- 22-26 **Joint Annual Meeting—APS/AAPT** San Francisco, Cal. 3/77

FEBRUARY 1978

- 7-9 • **CLEOS '78—IEEE/OSA Conf** San Diego, Calif. (CLEOS, OSA, Suite 620, 2000 L St, NW, Wash., D.C. 20036) [9/30/77]
- 2-17 • **Annual Meeting of Amer. Assoc for the Adv of Sci** Wash., D.C. (AAAS Meetings Ofc, 1776 Mass. Ave. NW,

Wash., D.C. 20036)

MARCH 1978

- 1-3 • **100th Anniversary of Liquefaction of Air/Adv in Refrig at Lowest Temps Conf** [Int Inst of Refrigeration] Zurich, Switz. (C. Trepp, Inst für Verfahren und Kältetechnik, ETH-Zentrum, CH-8092 Aürich, Suisse)
- 19-24 • **ACA Oklahoma Meeting**, Norman, Okla. (B. Morosin, 12317 Eastridge Dr, NE, Albuquerque, N. Mex. 87112)
- 22-24 • **APS Topical Conf on Phys of SiO₂ and its Interfaces** Yorktown Heights, N.Y. (S. T. Pantelides, IBM Thomas J. Watson Res Ctr, PO Box 218, Yorktown Heights, N.Y. 10598) [11/28/77]
- 27-30 **APS General Meeting** Washington, D.C. 3/77

APRIL 1978

- 3-7 **3rd Int Conf on Plasma Surface Interactions in Controlled Fusion Devices** [Organizing Committee] Abington, UK 3/77
- 4-6 **European Conf on Optical Sys and Appl** [IOP Quantum Elect Group] Brighton, UK 5/77
- 10-12 • **IEEE Int Conf on Acoustics, Speech, Signal Processing** Tulsa, Okla. (T. H. Crystal, Inst for Defense Analyses, Thanet Rd, Princeton, N.J. 08540) [9/22/77]
- 17-20 **10th Nat'l Atomic and Molecular Phys Conf** [Atomic and Molecular Phys Group, IOP] Egham, UK 5/77
- 23-28 **3rd Int Symp on Natural Radiation Environment** [Univ of Texas; ERDA] Houston, Tex. [9/30/77] 5/77
- 24-27 **APS Spring Meeting** Wash., D.C. 3/77

MAY 1978

- 16-19 **ASA Spring Meeting** Providence, Rhode Island 5/77

JULY 1978

- 3-7 **Heating of Toroidal Plasmas: Joint Varenna—Grenoble Int Symp** [Organizing Committee] Grenoble, France 5/77
- 3-7 • **4th Int Meeting on Nuclear Magnetic Resonance Spectroscopy** [Organizing Committee] York, UK (J. F. Gibson, Chemical Society, Burlington House, London W1V 0BN, UK)
- 4-7 **7th Int Cryogenic Eng Conf and Exhibition** [Int Cryogenic Eng Committee] London, UK 5/77
- 16-20 • **4th Nat'l Conf of Amer. Assoc for Crystal Growth** Wash., D.C. (R. L. Parker, NBS, Wash., D.C. 20234)

AUGUST 1978

- 1-9 • **9th Int Cong on Electron Microscopy** [Organizing Committee] Toronto, Canada (G. T. Simon, Banting Inst, Univ of Toronto, 100 College St, Toronto Canada)

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