

# CALENDAR

## SEPTEMBER 1992

**15-17 Conf on Superconductivity and Applications** Buffalo, NY *Contact:* R. S. Hamilton, NY State Inst on Superconductivity, 330 Bonner Hall, State Univ of New York, Buffalo, NY 14260

**15-18 Neutron Scattering from Liquids** Giardini Naxos, Italy *Contact:* José Teixeira, Lab Léon Brillouin, CE Saclay, 91191 Gif-Sur-Yvette Cedex, France

**15-19 Developments in Astrometry** Shanghai, China *Contact:* Ivan Mueller, Dept of Geodetic Sci and Surveying, Ohio State Univ, Columbus, OH 43210-1247

**16-18 Sky Surveys: Protostars to Protogalaxies** Pasadena, CA *Contact:* T. Soifer, Caltech 320-47, Pasadena, CA 91125

**16-18 Thermal Degradation of Polymers** Cambridge, England *Contact:* N. S. Allen, Dept of Chem, Manchester Polytechnic, John Dalton Bldg, Chester St, Manchester M1 5GD, England

**16-22 Small Particles and Inorganic Clusters** Chicago, IL *Contact:* Stephen Berry, ISSPIC 6, Dept of Chem, Univ of Chicago, 5735 S Ellis Ave, Chicago, IL 60637

**20-24 Biological Mass Spectrometry** Kyoto, Japan *Contact:* T. Matsuo, Inst of Phys, College of General Education, Osaka Univ, Toyonaka, Osaka 560, Japan

**20-25 OSA Ann Mtg** Albuquerque, NM *Contact:* OSA

**20-3 NATO ASI on High-Pressure Chem, Biochem and Materials Sci** Acquafredda di Maratea, Italy *Contact:* Jiri

Jonas, Univ of Illinois, Sch of Chemical Sci, 505 South Mathews Ave, Urbana, IL 61801

**21-23 Symp on Turbulence** Rolla, MO *Contact:* Walter Ries, Symp Coordinator, 119 ME Annex, Univ of Missouri, Rolla, MO 65401-0249

**21-23 Potentials and Correlations in Phys of Condensed Matter** Pavia, Italy *Contact:* G. Senatore, Dipartimento di Fisica Teorica, Univ di Trieste, Strada Costiera 11, 34014 Miramare-Grignano, Italy

**21-23 Microelectronics** Warsaw, Poland *Contact:* Jan Grzybowski, IRSEP, Aurawia 26/10, 00-515 Warsaw, Poland

**21-25 Small Angle X-Ray Scattering** Campinas, Brazil *Contact:* Natl Synchrotron Light Lab, CP 6192, Campinas 13081, SP, Brazil

**21-25 Applications of Phys in Medicine and Bio: Adv Detectors for Med Imaging** Trieste, Italy *Contact:* ICTP

**21-25 Dynamics of Mechanical Sys (within the Solar Sys)** Tomsk, Russia *Contact:* G. Andreev, Astronomical Observatory of Tomsk Univ, Box 1106, SU-634010, Tomsk, Russia

**21-25 Microelectronics Processing** San Jose, CA *Contact:* SPIE

**21-25 Nonthermal Plasma Techniques for Pollution Control** Cambridge, England *Contact:* B. M. Penetrante, LLNL, L-417, Box 808, Livermore, CA 94550

**21-25 Conf of Intl Nuclear Target Development Soc** Legnaro, Italy *Contact:* M. Stefani, Lab Nazionali di Legnaro, Via Romeo 4, I-35020 Legnaro, Padova, Italy

**21-25 Conf on Nanostructured Materials** Cancun, Mexico *Contact:* Victor Castaño, Inst de Fisica, UNAM, AP 20-364, CP 01000 Mexico, DF

**21-25 Cong on High-Speed Photography and Photonics** Victoria, Canada *Contact:* John Dewey, Dept of Phys and Astron, Univ of Victoria, PO Box 3055, Victoria, BC V8W 3P6, Canada

**21-25 Modern Surface Spectroscopy Techniques** Austin, TX *Contact:* Continuing Eng Studies, Univ of Texas, College of Eng, ECJ 10.324, Austin, TX 78712

**21-25 Semiconductor Laser Conf** Takamatsu, Japan *Contact:* IEEE/LEOS, 445 Hoes Lane, PO Box 1331, Piscataway, NJ 08855-1331

**21-25 Observational Cosmology** Milano, Italy *Contact:* Osservatorio Astronomico, Via Brera 28, 20121 Milano, Italy

**21-25 Symp on Gas Flow and Chemical Lasers** Crete, Greece *Contact:* C. Fotakis, FORTH-IESL, PO Box 1527, 711 10 Heraklion, Crete, Greece

**23-25 Microelectronic Processing Integration** San Jose, CA *Contact:* SPIE

**26-29 Optoelectronic Sci and Eng** Beijing, China *Contact:* SPIE

### ADDRESS KEY

Addresses for some frequently listed organizations are given below.

**AAPM** 335 E 45th St, New York, NY 10017 [Tel. (212) 661 7026]

**AAPT** 5112 Berwyn Rd, College Park, MD 20740 [Tel. (301) 345-4200]

**AAS** 2000 Florida Ave NW, Ste 300, Washington, DC 20009 [Tel. (202) 328-2010]

**AGU** 2000 Florida Ave NW, Washington, DC 20009 [Tel. (202) 462-6903]

**ANS** 555 N Kensington Ave, La Grange Park, IL 60525 [Tel. (708) 352-6611]

**APS** 335 E 45th Street, New York, NY 10017 [Tel. (212) 682-7341]

**ASA** 500 Sunnyside Blvd, Woodbury, NY 11797-2999 [Tel. (516) 349 7800 ext 481]

**AVS** 335 E 45th Street, New York, NY 10017 [Tel. (212) 661 9404]

**Engineering Foundation** 345 E 47th St, New York, NY 10017 [Tel. (212) 705-7835]

**ESF** 1 quai Lezay-Marnésia, F-67080 Strasbourg, France [Tel. (33) 88 76 71 35]

**ICTP** PO Box 586, 34100 Trieste, Italy [Fax (39)(40) 224163]

**MRS** 9800 McKnight Rd, Pittsburgh, PA 15237 [Tel. (412) 367-3003]

**OSA** 2010 Massachusetts Ave NW, Washington, DC 20036 [Tel. (202) 223-8130]

**SPIE** PO Box 10, Bellingham, WA 98227-0010 [Tel. (206) 676-3290]

**Univ Consortium for Continuing Education** 16161 Ventura Blvd, Encino, CA 91436 [Tel. (818) 995-6335]

**Please note:** Complete information is now given for all listings. New listings are marked ● and newly revised listings are marked ○. Addresses for frequently listed organizations are given in the accompanying table. The complete listings are coded as follows:

date title location contact

§ indicates financial aid may be available for some to attend the meeting.

This calendar appears in alternate (odd-numbered) months. Notices should be sent to: Calendar, PHYSICS TODAY, 335 East 45th Street, New York NY 10017, at least three months in advance.

**AAAS** American Association for the Advancement of Science  
**AAPM** American Association of Physicists in Medicine  
**AAPT** American Association of Physics Teachers  
**AAS** American Astronomical Society  
**ACA** American Crystallographic Association  
**AGU** American Geophysical Union  
**ANS** American Nuclear Society  
**APS** American Physical Society  
**ASA** Acoustical Society of America  
**AVS** American Vacuum Society  
**BNL** Brookhaven National Laboratory  
**CNRS** Centre National de la Recherche Scientifique  
**DOE** Department of Energy  
**DPG** Deutsche Physikalische Gesellschaft  
**EPS** European Physical Society  
**ESF** European Science Foundation  
**IAEA** International Atomic Energy Agency  
**IAU** International Astronomical Union  
**ICTP** International Centre for Theoretical Physics

**IEEE** Institute of Electrical and Electronics Engineers  
**IOP** Institute of Physics (London)  
**IUPAC** International Union of Pure and Applied Chemistry  
**IUPAP** International Union of Pure and Applied Physics  
**LBL** Lawrence Berkeley Laboratory  
**LLNL** Lawrence Livermore National Laboratory  
**MRS** Materials Research Society  
**NAS** National Academy of Sciences  
**NIST** National Institute of Standards and Technology  
**NRC** Nuclear Regulatory Commission  
**NRL** Naval Research Laboratory  
**NSF** National Science Foundation  
**ORNL** Oak Ridge National Laboratory  
**OSA** Optical Society of America  
**S of R** Society of Rheology  
**SPIE** International Society for Optical Engineering  
**SPS** Society of Physics Students



**27-1 Dynamic Properties of Solids**  
Dresden, Germany *Contact:* ESF

**27-1 Prospects for Heavy Ion Inertial Fusion**  
Aghia Pelaghia, Greece *Contact:* ESF

**27-1 Quantum Optics**  
Davos, Switzerland *Contact:* ESF

**28-2 WMO Wksp on Limited-Area Modeling**  
Trieste, Italy *Contact:* ICTP

**28-2 Phys of Highly Charged Ions**  
Manhattan, KS *Contact:* Martin Stockli, Dept of Phys, Kansas State Univ, Manhattan, KS 66506-2604

**28-23 College on Methods and Experimental Techniques in Biophys**  
Trieste, Italy *Contact:* ICTP

## OCTOBER 1992

**1-2 Interaction of Focused Electromagnetic Fields with Opt Disk Structures**  
Rochester, NY *Contact:* Maria Schnitzler, Inst of Optics, Univ of Rochester, Rochester, NY 14627

**1-8 IUCr General Assembly and Intl Cong of Crystallography**  
Beijing, China *Contact:* M. C. Shao, Inst of Physical

Chem, Beijing Univ, Beijing 100781, China

**4-9 Optics for Protection of Man and Environment Against Natural and Technological Disasters**  
Münster, Germany *Contact:* Gert von Bally, Lab of Biophys, Inst of Exper Audiology, Univ of Münster, Kardinal-von-Galen-Ring 10, D-4400 Münster, Germany

**4-9 Molecular and Ionic Clusters**  
Irsee, Germany *Contact:* Gordon Rsch Conf, Gordon Rsch Ctr, Univ of Rhode Island, Kingston, RI 02881-0801

**5-6 Synchrotron Radiation Ctr Users Group Mtg**  
Stoughton, WI *Contact:* Brian Tonner, Univ of Wisconsin, Synchrotron Radiation Ctr, 3731 Schneider Dr, Stoughton, WI 53589

**5-9 Flares Wksp**  
Crimea, Russia *Contact:* E. R. Priest, St. Andrews Univ, St. Andrews, Scotland

**5-9 Astron with Millimeter and Sub-millimeter Wave Interferometry**  
Hakone, Japan *Contact:* M. Ishiguro, Nobeyama Radio Observatory, Nobeyama, Minamiasaku, Nagano 384-13, Japan

**5-30 Microprocessor-Based Real-Time Control: Principles and Applications in Phys**  
Trieste, Italy *Contact:* ICTP

**6-8 Aerospace and Ground Conf on Lightning and Static Electricity**  
Atlantic City, NJ *Contact:* Mike Cupples, Federal Aviation Administration Technical Ctr, Atlantic City Intl Airport, NJ 08405

**10-11 Lab Rsch for Planetary Atmospheres**  
Munich, Germany *Contact:* Kenneth Fox, Dept of Chem and Biochem, Univ of Maryland, College Park, MD 20742

**11-16 Mtg of AAS Div for Planetary Sci**  
Munich, Germany *Contact:* AAS

**12-14 Maryland Astrophys Conf: Back to the Galaxy**  
College Park, MD *Contact:* S. Holt, NASA/Goddard Space Flight Ctr, Greenbelt, MD 20771

**12-14 Adaptive Radar Signal Processing**  
Washington, DC *Contact:* Univ Consortium for Continuing Education

**12-16 Cong of Energy, Environment and Tech**  
Rome, Italy *Contact:* Secretaria CPA, Facultad de Ingenieria, Univ Central de Venezuela, Edif Decanato, Caracas 1050, Venezuela

**12-16 Vacuum Cong and Conf on Solid Surfaces**  
The Hague, The Netherlands *Contact:* Van Namen, Westerlaken Cong Organization Services, PO Box 1558, 6501 BN Nijmegen, The Netherlands

● **14-15 Adv Photon Source Users Mtg**  
Argonne, IL *Contact:* User Admin and Support Office, Adv Photon Source, Argonne Natl Lab, Bldg 362, 9700 S Cass Ave, Argonne, IL 60439

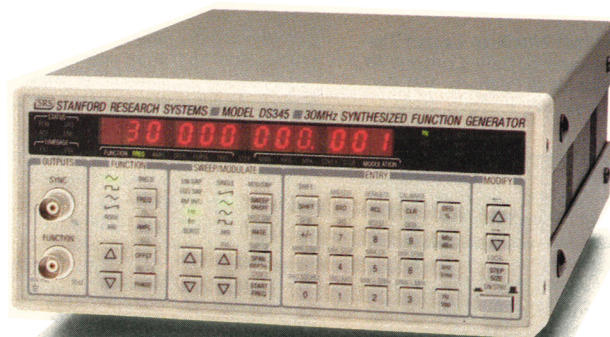
**14-17 Mtg of APS Div of Nuclear Phys**  
Santa Fe, NM *Contact:* Millie Saxman, MS P-366, T-5, Los Alamos Natl Lab, Los Alamos, NM 87545

**15-17 Symp on Gamma Ray Astron**  
St. Louis, MO *Contact:* Neil Gehrels, Code 661, NASA/Goddard Space Flight Ctr, Greenbelt, MD 20771

**15-19 Magnetic and Velocity Fields of Solar Active Regions**  
Beijing, China *Contact:* H. Zirin, Caltech 264-33, Pasadena, CA 91125

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## CALENDAR

**16-19 Intl Conf on Lasers and Optoelectronics** Beijing, China *Contact:* Fang Min, Chinese Inst of Electronics, Nong-zhanguan Nanlu No 12, Rm 2310, Beijing 100026, China

**18-21 Interdisciplinary Wksp on Polymer Surfaces and Interfaces** Danvers, MA *Contact:* T. P. Russell, IBM ARC, K93/802, 650 Harry Rd, San Jose, CA 95120

**18-23 Applications and Fabrication of Nanostructures** Kona, HI *Contact:* Eng Foundation

**19-21 Phase Contrast and Differential Interference Contrast** Warsaw, Poland *Contact:* Maksymilian Pluta, Centraline Laboratorium Optyki, Kamionkowski 18, 03-805 Warsaw, Poland

**19-23 Phenomenology of Particle Phys** Trieste, Italy *Contact:* ICTP

**19-23 Visualization '92** Boston, MA *Contact:* IEEE Computer Soc Conf Dept, 1730 Massachusetts Ave, NW, Washington, DC 20036-1903

● **21-23 SSRL Users Mtg** Stanford, CA *Contact:* Michele Kearney, SSRL, MS 99, PO Box 4349, Stanford, CA 94309-0210

**23-27 Adv Quantum Field Theory: Low Dimensional Field Theories** Como, Italy *Contact:* ESF

**25-27 Electron Beam Melting and Refining** Reno, NV *Contact:* R. Bakish, Bakish Materials Corp, PO Box 148, Englewood, NJ 07631

**25-29 Intl Cong on Applications of Lasers and Electro-Optics** Orlando, FL *Contact:* Gary Bert, Laser Inst of America, 12424 Rsch Parkway, Ste 130, Orlando, FL 32826

**25-30 Advances in Non-Impact Printing Tech** Williamsburg, VA *Contact:* R. Allen, HP Labs 2U-19, PO Box 10490, Palo Alto, CA 94303-0969

**25-30 Molecular-Based Magnetic Materials** Shuzenji, Japan *Contact:* H. Iwamura, Faculty of Sci, Univ of Tokyo, Bunkyo-ku, Tokyo 113, Japan

**26-28 Wksp on Near Field Optics** Besancon, France *Contact:* Daniel Courjon, Laboratoire d'Optique P. M. Duffieux, UFR Sci, Univ Franche-Comte, 25030 Besancon Cedex, France

**26-29 Oceans '92** Newport, RI *Contact:* Leslie Prewitt, 655 15th St, NW, Ste 300, Washington, DC 20005

**26-30 Chemical Evolution and Origin of Life** Trieste, Italy *Contact:* ICTP

**26-31 Nuclear Sci Symp** Kissimmee, FL *Contact:* John Dawson, Argonne Natl Lab, Argonne, IL 60439

**26-6 Physical Methods for Study of Upper and Lower Atmosphere Sys** Trieste, Italy *Contact:* ICTP

**27-30 Gaseous Electronics Conf** Boston, MA *Contact:* Pablo Vicharelli, GTE Labs Inc, 40 Sylvan Rd, Waltham, MA 02254

● **29-31 Joint Mtg of Div of Atomic and Molecular Phys and Div of Opt Phys of Canadian Assoc of Physicists** Quebec, Canada *Contact:* Emile Knystautas, Université Laval, Faculté des Sciences et de Génie, Département de Physique, Cité Universitaire, Quebec G1K 7P4, Canada

● **30-31 Sigma Pi Sigma Cong** Dayton, OH *Contact:* Sigma Pi Sigma, AIP, 1825 Connecticut Ave, NW, Washington, DC 20009

**30-7 70th Anniversary of Chinese Astronomical Soc** Beijing, China *Contact:* L. Qibin, Beijing Astronomical Observatory, Chinese Academy of Sci, Beijing 100080, China

**31-4 124th Mtg of ASA** New Orleans, LA *Contact:* ASA

## NOVEMBER 1992

**2-4 Astronomical Data Analysis Software and Sys** Boston, MA *Contact:* Tricia Buckley, Smithsonian Astrophysical Observatory, MS 83, 60 Garden St, Cambridge, MA 02138

**2-5 Applications of Accelerators in Rsch and Industry** Denton, TX *Contact:* J. L. Duggan, Dept of Phys, Univ of North Texas, PO Box 5368, Denton, TX 76203

**2-6 IAU Latin Amer Regional Mtg** Santiago, Chile *Contact:* C. Anguita, Dept of Astron, Facultad de Ciencias Físicas y Matemáticas, Univ de Chile, Casilla 36-D, Santiago, Chile

**2-27 Applications of Synchrotron Radiation** Trieste, Italy *Contact:* ICTP

**5-8 Conf of Amer Indian Sci and Eng Soc** Washington, DC *Contact:* Jack Ramsey, AISES, 1630 30th St, Ste 301, Boulder, CO 80301

# Essential Reading Material For the Materials Scientist

## SUPERCONDUCTIVITY: Its Historical Roots and Development from Mercury to the Ceramic Oxides

Per Fridtjof Dahl, *Superconducting Super Collider Laboratory, Dallas*

The first truly comprehensive history of superconductivity—from the first studies in the late 19th century to the present. The book delves deeply into a largely undocumented early history, marked by H.K. Onnes's first successes with mercury in 1911 and extending to the onset of World War II. Encompasses the materials development of the fifties; the work that culminated in the BCS theory of the early sixties; and the important recent application of ceramic oxides.

1992, 400 pages, illustrated • 0-88318-797-3, hardcover, \$60.00

## PIEZOELECTRICITY

C.Z. Rosen, *GEC-Marconi Electronic Systems Corp.*,  
B.V. Hiremath, *AT&T Bell Laboratories*,  
and R.E. Newnham, *Penn State University*

Thirty-two major review papers guide you in preparing and choosing piezoelectric materials and assist you in designing signal processing devices. Coverage ranges from the mundane to the arcane—from the dimmer switch in your home to sonar on an attack submarine. Major sections explore measurements and standards and the derivation of piezoelectric coefficients and the equations of state for coupling mechanical, electrical, and thermal fields.

1992, 512 pages • 0-88318-647-0, hardcover, \$95.00

## COMPUTATIONAL METHODS IN CONDENSED MATTER: ELECTRONIC STRUCTURE

A.A. Katsnelson and V.S. Stepanyuk, *Moscow State University*,  
A. Szasz, *Eotvos University, Budapest*,  
and O.V. Faberovich, *Voronezh University*

Here is the first book to make accessible a large number of computational results previously known only by a few experienced practitioners. You'll find a comprehensive analysis of electron states, calculation methods for electronic structures, pseudopotential methods, and electron methods and functional theory designed to calculate physical properties.

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- 7-8 Mtg of Texas Sections of AAPT and APS** Houston, TX *Contact:* Steve Baker, Dept of Phys, Rice Univ, PO Box 1892, Houston, TX 77251
- 8-10 Vacuum Web Coating** Reno, NV *Contact:* R. Bakish, Bakish Materials Corp, PO Box 148, Englewood, NJ 07631
- 8-13 Soc for Imaging Sci and Tech: East-West Symp III** Maui, HI *Contact:* Soc for Imaging Sci and Tech, 7003 Kilworth Lane, Springfield, VA 22151
- 9-12 Space Simulation Conf** Baltimore, MD *Contact:* Inst for Environmental Sci, 940 E Northwest Highway, Mt Prospect, IL 60056
- 9-13 Opt Properties of Solids** Campinas, Brazil *Contact:* Natl Synchrotron Light Lab, CP 6192, Campinas 13081, SP, Brazil
- 9-13 Production and Neutralization of Negative Ions and Beams** Upton, NY *Contact:* Ady Hershcovitch, AGS Dept, Bldg 911B, BNL, Upton, NY 11973
- 9-13 39th Natl AVS Symp** Chicago, IL *Contact:* AVS
- 9-14 Symp on High-Energy Spin Phys** Nagoya, Japan *Contact:* Naoaki Horikawa, Dept of Phys, Nagoya Univ, Chikusa-ku, Nagoya 464-01, Japan
- 10-14 Mtg of Div of Particles and Fields of APS** Fermilab, IL *Contact:* C. M. Sazama, Fermilab, PO Box 500, Batavia, IL 60510
- **11-12 Instrumentation for Time-of-Flight Spectrometry** Chestnut Ridge, NY *Contact:* George Blunar, LeCroy Corp, 700 Chestnut Ridge Rd, Chestnut Ridge, NY 10977-6499
- 11-13 Electron-Beam Melting and Refining** Reno, NV *Contact:* R. Bakish, Bakish Materials Corp, PO Box 148, Englewood, NJ 07631
- **12-14 Mtg of Southeastern Section of APS** Oak Ridge, TN *Contact:* Pete Shugart, Dept of Phys, Memphis State Univ, Memphis, TN 38152-0009 *Note revised contact*
- 13-16 Opt Tech Modules/Issues in Optics** Boston, MA *Contact:* OSA
- **15-20 Latin Amer Symp on Surface Phys and Ibero-Amer Cong on Surface Sci Applications** Bariloche, Argentina *Contact:* Blas Alascio, Centro Atomico Bariloche, 8400 Bariloche, Argentina
- **15-20 Optcon '92** Boston, MA *Contact:* OSA *Note revised dates*
- 15-20 Lower Thermosphere and Upper Mesosphere** Ann Arbor, MI *Contact:* AGU
- 15-20 Joint Mtg of ANS and Eur Nuclear Soc** Chicago, IL *Contact:* ANS
- 16-20 Food Hydrocolloids** Tsukuba, Japan *Contact:* Katsuyoshi Nishinari, Lab of Food Rheology, Natl Food Rsch Inst, Tsukuba 305, Japan
- 16-20 Latin Amer Symp on Fluid Dynamics and Applications** Guanajuato, Mexico *Contact:* Ramón Peralta-Fabi, Dept de Fisica, Facultad de Ciencias, UNAM, A 70-543, 04510, Mexico, DF
- 16-20 Supercomputing '92** Minneapolis, MN *Contact:* Susan Cross, Natl Ctr for Atmospheric Rsch, PO Box 3000, Boulder, CO 80307
- 16-20 Mtg of Plasma Phys Div of APS** Seattle, WA *Contact:* APS
- 16-11 Exper Wksp on High- $T_c$  Superconductivity** Trieste, Italy *Contact:* ICTP
- **22-24 Mtg of Fluid Dynamics Div of APS** Tallahassee, FL *Contact:* APS *Note revised dates*
- 22-25 Polymer Symp** Palm Springs, CA *Contact:* J. E. McGrath, 2111 Chem Rsch Bldg, Virginia Polytechnic Inst, Blacksburg, VA 24061-0212
- 23-26 Conf of Third World Academy of Sciences** Kuwait City, Kuwait *Contact:* ICTP
- 29-4 Adv Heterostructure Transistors** Kona, HI *Contact:* Eng Foundation
- 29-4 AAPM/RSNA Ann Joint Mtg** Chicago, IL *Contact:* RSNA, 2021 Spring Rd, Ste 600, Oak Brook, IL 60521
- 30-4 MRS Fall Mtg** Boston, MA *Contact:* MRS
- 30-11 Three-Dimensional Modeling of Seismic Waves** Trieste, Italy *Contact:* ICTP
- ## DECEMBER 1992
- 1-2 Asteroid Safety Conf** Albuquerque, NM *Contact:* Safety Rsch Inst, PO Box 9123, Albuquerque, NM 87119-9123
- 1-4 Conf on Magnetism and Magnetic Materials** Houston, TX *Contact:* Courtesy Assoc Inc, 655 15th St, NW, Ste 300, Washington, DC 20005
- 1-5 Phys Education for Development** Quezon City, Philippines *Contact:* J. Pabellon, Inst for Sci and Mathematics Education Development, Univ of Philippines, Diliman, Quezon City 1101, Philippines
- **7-11 Lasers '92** Houston, TX *Contact:* Soc for Opt and Quantum Electronics, PO Box 245, McLean, VA 22101 *Note revised dates*
- 7-11 AGU Fall Mtg** San Francisco, CA *Contact:* AGU
- 8-10 Planetary Sys: Formation, Evolution and Detection** Pasadena, CA *Contact:* N. Nickle, JPL, 4800 Oak Grove Dr, Pasadena, CA 91109
- 10-12 Fundamental Aspects of Quantum Theory** Columbia, SC *Contact:* Quantum Conf Secretary, Dept of Phys and Astron, Univ of South Carolina, Columbia, SC 29208
- 14-16 Opt Eng** Tel Aviv, Israel *Contact:* Dipl Ing Itzhak Shladov, AEAI, PO Box 3082, Tel Aviv 61030, Israel
- 14-18 Optoelectronics in Computers, Communications and Control** Hsinchu, Taiwan *Contact:* SPIE
- 14-18 Infrared and Millimeter Waves** Pasadena, CA *Contact:* Ken Button, PO Box 2455, Satellite Beach, FL 32937
- 14-18 Symp on Relativistic Astrophysics/Particles, Strings and Cosmology** Berkeley, CA *Contact:* PASCOS '92, Conf Coordination, MS-50F, LBL, Univ of California, Berkeley, CA 94720
- **16-18 Probing the Interior of Stars: Microvariability and Activity** Vienna, Austria *Contact:* W. W. Weiss, Inst for Astron, Tuerkenschanzstr 17, A-1180 Vienna, Austria
- 4-7 High- $T_c$  Superconductivity** Eilat, Israel *Contact:* Shulamith Cahana, Ministry of Sci and Tech, PO Box 18195, 91811 Jerusalem, Israel
- 4-7 AAPT Winter Mtg** New Orleans, LA *Contact:* AAPT
- 5-8 URSI Natl Radio Sci Mtg** Boulder, CO *Contact:* James Moran, Harvard-Smithsonian Ctr for Astrophys, 60 Garden St, Cambridge, MA 02138
- 6-9 Dynamics Days** Tempe, AZ *Contact:* Eric Kostelich, Dept of Mathematics, Arizona State Univ, Tempe, AZ 85287
- 11-14 Cataclysmic Variables and Related Phys** Eilat, Israel *Contact:* Oded Regev, Dept of Phys, Technion, Haifa 32000, Israel
- 11-15 Very High Angular Resolution Imaging** Sydney, Australia *Contact:* J. Davis, Chatterton Astron Dept, Sch of Phys, Univ of Sydney, Sydney NSW 2006, Australia
- 11-15 Particle Acceleration Phenomena in Astrophysical Plasmas** College Park, MD *Contact:* E. L. Chupp, Dept of Phys, Univ of New Hampshire, Durham, NH 03824
- 16-23 OE/LASE '93** Los Angeles, CA *Contact:* SPIE
- 20-22 Neutrons and X Rays in Magnetism** Grenoble, France *Contact:* Diana Dijoux, Institut Laue-Langevin, BP 156, F-38042 Grenoble Cedex 9, France
- 25-29 Phys and Chem of Semiconductor Interfaces** Williamsburg, VA *Contact:* L. J. Brillson, Xerox Webster Rsch Ctr, 800 Phillips Rd, 0114-41D, Webster, NY 14580
- **31-5 Electronic Imaging Sci & Tech** San Jose, CA *Contact:* Soc for Imaging Sci and Tech, 7003 Kilworth Lane, Springfield, VA 22151
- ## FEBRUARY 1993
- 1-4 Smart Structures and Materials** Albuquerque, NM *Contact:* SPIE
- 3-6 Infrared Solar Phys** Tucson, AZ *Contact:* D. Rabin, Natl Solar Observatory, PO Box 26732, Tucson, AZ 85726
- 7-10 64th Ann Mtg of S of R** Santa Barbara, CA *Contact:* S of R [Tel. (212) 661-9404 ext 611] 335 E 45th St, New York, NY 10017-3483
- 8-26 Winter College on Optics** Trieste, Italy *Contact:* ICTP
- 11-16 Ann Mtg of AAAS** Boston, MA *Contact:* Rolf Sinclair, Phys Div, NSF, Washington, DC 20550
- 14-18 Med Imaging** Newport Beach, CA *Contact:* SPIE
- 21-25 Ann Mtg of Minerals, Metals and Materials Soc** Denver, CO *Contact:* Marlene Karl, TMS, 420 Commonwealth Drive, Warrendale, PA 15086
- 21-25 Exper Methods for Materials Sci Rsch** Denver, CO *Contact:* William Hofmeister, Dept of Materials Sci and Eng, Box 1593, Station B, Vanderbilt Univ, Nashville, TN 37235
- 21-26 Symp on the Interphase** Williamsburg, VA *Contact:* Louis Sharpe, Dept of Materials Sci and Eng, ML 12, Univ of Cincinnati, Cincinnati, OH 45221
- 21-26 Opt Fiber Communications** San Jose, CA *Contact:* OSA



## CALENDAR

28-5 **Symp on Microlithography** San Jose, CA *Contact:* SPIE

### MARCH 1993

4-6 **Symp on the Arts and Tech** New London, CT *Contact:* M. Monce, Dept of Phys and Astron, Connecticut College, New London, CT 06320

12-13 **Joint Mtg of Texas Sections of APS, AAPT and SPS** Edinburg, TX *Contact:* Richard Bartels, Phys Dept, Trinity Univ, San Antonio, TX 78212

● 13-20 **Sanibel Symp** St. Augustine, FL *Contact:* Sanibel Symp, 362 Williamson Hall, Univ of Florida, Gainesville, FL 32611-2085

15-19 **Lunar and Planetary Sci Conf** Houston, TX *Contact:* Pamela Jones, LPI Prog Services Dept, 3600 Bay Area Blvd, Houston, TX 77058

● 22-24 **Dynamics of Disordered Materials** Grenoble, France *Contact:* W. Petry, Institut Laue-Langevin, BP 156, F-38042 Grenoble Cedex 9, France

22-24 **Robotic Observatories: 1st Decade** Tucson, AZ *Contact:* B. Rafert, Florida Inst of Tech, Dept of Phys and Space Sci, 150 West Univ Blvd, Melbourne, FL 32901-6988

● 22-25 **Reliability Phys Symp** Atlanta, GA *Contact:* J. W. McPherson, Texas Instruments, PO Box 655012, MS 385, 13353 Floyd Rd, Dallas, TX 75265

22-26 **APS March Mtg** Seattle, WA *Contact:* APS

31-1 **Ultraviolet Radiation in Medicine** York, England *Contact:* Diane Crawford, Joint Dept of Phys, Inst of Cancer Rsch, Royal Marsden Hospital, Down's Rd, Sutton, Surrey SM2 5PT, England

### APRIL 1993

● 5-7 **Sci and Tech in Third World Development** Glasgow, Scotland *Contact:* Richard Heeks, IDPM, Manchester Univ, Precinct Ctr, Manchester M13 9QS, UK

● 5-7 **Ion-Beam and Surface-Specific Analysis Techniques** Namur, Belgium *Contact:* G. Demortier, LARN, Facultés Universitaires, N-D de la Paix, 22 rue Muzeet, B-5000 Namur, Belgium

● 5-8 **Global Warming Sci and Policy Intl Conf** Chicago, IL *Contact:* Sinyan Shen, Natural Resource Management Div, Supcon Intl, One Heritage Plaza, Woodridge, IL 60517-0275

● 5-8 **Microscopy of Semiconducting Materials** Oxford, UK *Contact:* A. G. Culis, DRA Malvern, St. Andrews Rd, Malvern, Worcs WR14 3PS, UK

● 7-8 **Ann Mtg of Natl Council on Radiation Protection and Measurements** Arlington, VA *Contact:* NCRP, 7910 Woodmont Ave, Ste 800, Bethesda, MD 20814-3095

● 12-15 **APS/AAPT Joint Spring Mtg** Washington, DC *Contact:* APS *Note revised title, date*

12-16 **Opt Eng and Photonics in Aerospace Sci and Sensing** Orlando, FL *Contact:* SPIE

12-16 **MRS Spring Mtg** San Francisco, CA *Contact:* MRS

● 13-16 **Intermag '93** Stockholm, Sweden *Contact:* John Nyenhuis, 1285 Electrical

Eng Bldg, Purdue Univ, West Lafayette, IN 47907-1285

● 14-16 **Ann Mtg of Seismological Soc of America** Ixtapa-Zihuatanejo, Mexico *Contact:* Prog Chair, c/o SSA, 201 Plaza Professional Bldg, El Cerrito, CA 94530

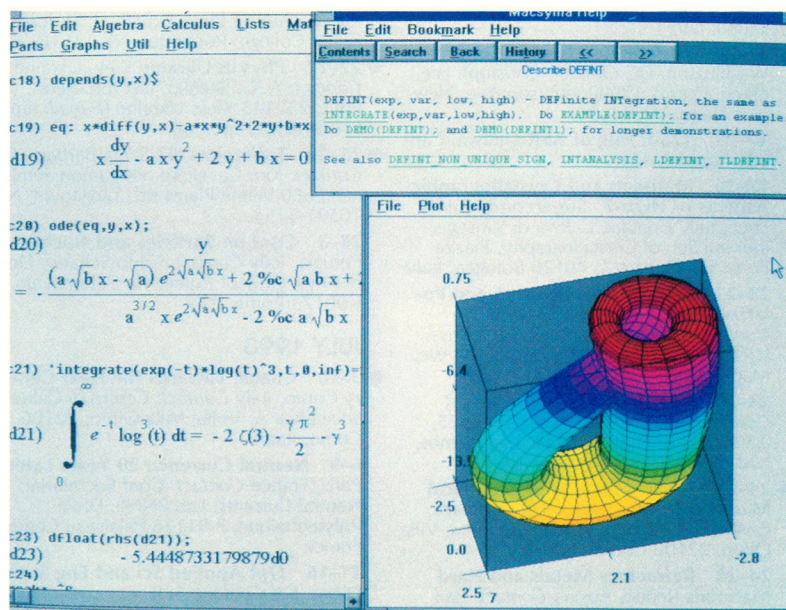
● 20-23 **Dense Z Pinches** London, England *Contact:* M. Coppins, Blackett Lab, Imperial College, London SW7 2BZ, England

● 21-23 **Scanning '93** Orlando, FL *Contact:* Mary Sullivan, Scanning '93, PO

Box 832, Mahwah, NJ 07430

● 21-23 **3-D Conformal Therapy** St. Louis, MO *Contact:* Bahman Emami, Radiation Oncology Ctr, Mallinckrodt Inst of Radiology, 4939 Children's Pl, Ste 5500, St. Louis, MO 63110

25-29 **High-Level Radioactive Waste Management** Las Vegas, NV *Contact:* William Wells, Howard Hughes College of Eng, Univ of Nevada, 4505 Maryland Parkway, Las Vegas, NV 89154



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## MAY 1993

- **2-4 Lars Onsager Symp** Trondheim, Norway *Contact:* Onsager Symp, NTH, 7034 Trondheim, Norway [E-mail: onsa-ger93@imf.unit.no]
- 2-7 Conf on Lasers and Electro-Optics/Quantum Electronics and Laser Sci** Baltimore, MD *Contact:* OSA
- **10-14 Intercalation Compounds** Louvain-la-Neuve, Belgium *Contact:* J.-P. Issi, Unité PCPM, 1, place Croix du Sud, B-1348 Louvain-la-Neuve, Belgium
- **16-22 X-Ray Small Angle Scattering** Como, Italy *Contact:* Centro di Cultura Scientifica A. Volta, Villa Olmo, 22100 Como, Italy
- 17-20 Particle Accelerator Conf** Washington, DC *Contact:* Christoph Lee-mann, CEBAF, 12000 Jefferson Ave, Newport News, VA 23606
- 17-21 125th Mtg of ASA** Ottawa, Canada *Contact:* ASA
- 17-29 Materials and Crystallographic Aspects of High- $T_c$  Superconductivity** Erice, Italy *Contact:* L. Riva di Sanseverino, Intl Sch of Crystallography, Piazza Porta San Donato 1, 40126 Bologna, Italy
- 23-27 Polarized Ion Sources and Polarized Gas Targets** Madison, WI *Contact:* L. W. Anderson, Dept of Phys, Univ of Wisconsin, 1150 University Ave, Madison, WI 53706
- 23-28 ACA Mtg** Albuquerque, NM *Contact:* Allen Larson, LANSCE-89-025, A805, Los Alamos Natl Lab, Los Alamos, NM 87455
- **24-28 Crystallography of Biological Macromolecules** Como, Italy *Contact:* Centro di Cultura Scientifica A. Volta, Villa Olmo, 22100 Como, Italy
- 24-28 Refractory Metals and Hard Materials** Reutte, Austria *Contact:* Ralf Eck, Metallwerk Plansee GmbH, A-6600 Reutte, Austria
- 24-28 AGU Spring Mtg** Baltimore, MD *Contact:* AGU
- 30-3 Metallization of Polymers** Montreal, Canada *Contact:* Edward Sacher, Dept of Eng Phys, Ecole Polytechnique, PO Box 6079, Station A, Montreal, Quebec H3C 3A7, Canada
- 31-4 Fundamentals of Fracture** Fukushima, Japan *Contact:* Robb Thomson, NIST, Gaithersburg, MD 20899

## JUNE 1993

- 3-6 Opt Spectroscopic Instrumentation and Techniques** Albuquerque, NM *Contact:* SPIE
- 6-10 182nd Mtg of AAS** Berkeley, CA *Contact:* AAS
- 6-12 Materials Processing in High Gravity** Potsdam, NY *Contact:* Liya Regel, Intl Ctr for Gravity Material Sci and Applications, Potsdam, NY 13699-5700
- 7-9 Conf on Plasma Sci** Vancouver, Canada *Contact:* Andrew Ng, Univ of British Columbia, Dept of Phys, 6224 Agricultural Rd, Vancouver, BC V6T 2A6, Canada
- 8-11 Real-Time Computer Applications in Nuclear, Particle and Plasma Phys** Vancouver, Canada *Contact:* Renee Poutissou, TRIUMF, 4004 Wesbrook Mall, Vancouver, BC V6T 2A3, Canada
- 9-11 Symp on Applied Surface Analysis** Cleveland, OH *Contact:* Jeffrey El-

dridge, NASA Lewis Rsch Ctr, MS 23-2, 21000 Brookpark Rd, Cleveland, OH 44135

- 13-18 Biennial Conf on Carbon** Buffalo, NY *Contact:* D. Chung, Composite Materials Rsch Lab, Furnas Hall, State Univ of New York, Buffalo, NY 14260
- **16-30 NATO ASI on Nonlinear Spectroscopy of Solids** Erice, Italy *Contact:* B. Di Bartolo, Dept of Phys, Boston College, Chestnut Hill, MA 02167
- 20-24 Ann Mtg of ANS** Las Vegas, NV *Contact:* ANS
- 21-25 Symp on Exper Gravitation** Nathiagali, Pakistan *Contact:* Munawar Karim, Dept of Phys, Expgrav I, St. John Fisher College, Rochester, NY 14618
- **22-27 Phys in Ukraine** Kiev, Ukraine *Contact:* A. G. Sitenko, Inst for Theor Phys, 252143 Kiev, Ukraine [E-mail: nma-kovsky@glas.apc.org]
- **27-30 Fullerenes '93** Santa Barbara, CA *Contact:* Kim Cavellero, Pergamon Seminars, 660 White Plains Rd, Tarrytown, NY 10591-5153
- 28-3 Conf on Particles and Nuclei** Perugia, Italy *Contact:* Carlo Schaefer, Dept of Phys, Univ of Rome, via E Carnevale, I-00173 Rome, Italy

## JULY 1993

- **3-16 Chaos: Towards the Next Century** Como, Italy *Contact:* Centro di Cultura Scientifica A. Volta, Villa Olmo, 22100 Como, Italy
- 6-9 Neutral Currents: 20 Years Later** Paris, France *Contact:* Conf Secretariat, Neutral Currents, Lab PNHE, Ecole Polytechnique, F-91128 Palaiseau Cedex, France
- 11-16 Opt Applied Sci and Eng** San Diego, CA *Contact:* SPIE
- 19-23 Nuclear and Space Radiation Effects Conf** Snowbird Resort, UT *Contact:* Paul Dressendorfer, Sandia Natl Labs, Albuquerque, NM 87185
- **26-30 Atomic Collisions in Solids** London, Canada *Contact:* William N. Lennard, Dept of Phys, Univ of Western Ontario, London, Ontario N6A 3K7, Canada

## AUGUST 1993

- 4-11 Conf on Low-Temperature Phys** Eugene, OR *Contact:* Russell Donnelly, Dept of Phys, Univ of Oregon, Eugene, OR 97403-1274
- 8-12 Ann Mtg of AAPM** Washington, DC *Contact:* AAPM
- 8-20 Assembly of Intl Assoc of Geomagnetism and Aeronomy** Buenos Aires, Argentina *Contact:* Comité Organizador, IAGA Assembly, Casilla de Correo 106, Sucursal 28, 1428 Buenos Aires, Argentina
- 9-13 Conf on Luminescence** Storrs, CT *Contact:* Douglas Hamilton, Dept of Phys, 2152 Hillside Rd, Univ of Connecticut, Storrs, CT 06269-3046
- 10-15 Symp on Lepton and Photon Interactions** Ithaca, NY *Contact:* Richard Galik, Cornell Univ, Floyd R. Newman Lab of Nuclear Studies, Wilson Lab, Ithaca, NY 14853-8001
- **15-21 Holography, Microstructures and Laser Technologies** Quebec City, Canada *Contact:* SPIE Note revised title, date

- **16-20 Sum Sch on Electron Crystallography** Beijing, China *Contact:* Z. Zhang, Beijing Lab of Electron Microscopy, Academy of Sci, PO Box 2724, Beijing 100080, China

- 16-20 Asian-Pacific Regional Mtg** Pune, India *Contact:* J. V. Narlikar, Inter Univ Ctr for Astron and Astrophys, Post Bag 4, Ganeshkhind, Pune 411007, India
- 21-29 Cong and General Assembly of Intl Union of Crystallography** Beijing, China *Contact:* M.-C. Shao, Inst of Physical Chem, Dept of Chem, Beijing Univ, Beijing 100871, China
- 23-26 Synchrotron Radiation Instrumentation** Gaithersburg, MD *Contact:* Charles Clark, A253 Phys Bldg, NIST, Gaithersburg, MD 20899
- **25-2 Adv Toroidal Devices with Innovative Phys and Tech** Varenna, Italy *Contact:* E. Sindoni, Intl School of Plasma Phys, Via Celoria 16, 20133 Milano, Italy
- 25-2 General Assembly of Intl Union of Radio Sci** Kyoto, Japan *Contact:* I. Kimura, Business Ctr for Academic Societies of Japan, 10th Tabuchi Bldg, 6-3 Matsugai-cho, Kita-ku, Osaka 530, Japan
- 30-4 Conf on Surface Sci** Warwick, England *Contact:* C. F. McConville, ECOS-13, Dept of Phys, Univ of Warwick, Coventry CV4 7AL, UK
- 31-3 Environmental Transport and Dosimetry** Charleston, SC *Contact:* Kenneth Hofstetter, Westinghouse SRC, Savannah River Lab, Bldg 735-A, D-104, Aiken, SC 29808
- 31-4 Ion Sources** Beijing, China *Contact:* Chen Chia-erh, Inst of Heavy Ion Phys, Peking Univ, Beijing 100871, China

## SEPTEMBER 1993

- **6-14 Tritium Tech for Fusion Reactors** Varenna, Italy *Contact:* E. Sindoni, Intl School of Plasma Phys, Via Celoria 16, 20133 Milano, Italy
- 7-11 OE/Fibers '93** Boston, MA *Contact:* SPIE
- **12-16 Applications of Density Functional Theory in Chem and Phys** Como, Italy *Contact:* Centro di Cultura Scientifica A. Volta, Villa Olmo, 22100 Como, Italy
- 20-24 Magnet Tech** Victoria, Canada *Contact:* P. A. Reeve, Dept of Phys and Astron, Univ of Victoria, Box 3055, Victoria, BC V8W 3P6, Canada
- 20-24 Solar Coronal Structure** Tatranska Lomnica, Czechoslovakia *Contact:* V. Rusin, Astronomical Inst, Slovak Academy of Sci, 059 60 Tatranska Lomnica, Czechoslovakia
- **26-30 Structural Intermetallics** Champion, PA *Contact:* R. Darolia, GE Aircraft Engines, Mail Drop M-89, Cincinnati, OH 45215

## OCTOBER 1993

- **4-8 Local Transport Studies in Fusion Plasmas** Varenna, Italy *Contact:* G. Gorini, Intl School of Plasma Phys, Via Celoria 16, 20133 Milano, Italy
- 4-8 126th Mtg of ASA** Denver, CO *Contact:* ASA
- 11-15 Symp on Fusion Eng** Burlington, VT *Contact:* Albe M. Dawson, 175 Albany St, Cambridge, MA 02139-4307