

JULY 1989

- **1-14 Nonlinear Waves in Solid-State Phys** Erice, Sicily *Contact:* Univ of Salford, Dept of Pure and Appl Phys Salford M5 4WT, Sicily
- 3-28 Sum Sch on Liquids, Freezing and the Glass Transition** Les Houches, France *See issue:* 1/89
- 7-10 Dynamics Days** Düsseldorf Düsseldorf, FRG *See issue:* 1/89
- 9-14 4th Intl Conf on Scanning Tunneling Microscopy/Spectroscopy** Oarai, Ibaraki, Japan *See issue:* 11/88
- 10-13 9th Specialized Ampère Colloq: Magnetic Resonance in Polymers** Prague, CSSR *See issue:* 3/89
- 10-14 Gordon Res Conf on Metal Hydrides** Tilton, NH *See issue:* 5/89
- 10-14 Gordon Res Conf on Molecular Energy Transfer** Wolfeboro, NH *See issue:* 5/89
- 10-14 Gordon Res Conf on Polymer Colloids** Andover, NH *See issue:* 5/89
- 10-14 4th Intl Conf on Electron Spectroscopy** Honolulu, HI *See issue:* 3/89
- 10-14 Intl Conf on Phenomena in Ionized Gases** Belgrade, Yugoslavia *See issue:* 3/89
- 10-14 1989 Intl Geoscience and Remote Sensing Symp** Vancouver, BC, Canada *See issue:* 3/89
- 10-14 Intl Conf on Ion Sources** Berkeley, CA *See issue:* 5/88
- 10-15 Plasma Phenomena in Solar Phys** Cargèse, France, *See issue:* 3/89
- 10-21 10th Santa Cruz Summer Wksp in Astr and Astrophys, on Supernovae** Santa Cruz, CA *See issue:* 1/89
- 11-13 Wksp on Low Mass Star Formation and Pre-Main Sequence Objects** Garching, West Germany *See issue:* 11/88
- 11-14 6th Intl Conf on Numerical Analysis of Semiconductor Devices and Integrated Circuits** Dublin, Ireland *See issue:* 5/88
- 12-14 Solid State Lasers Top Mtg / Sino-Japanese Joint Mtg on Optical Fiber Sci and Electromagnetic Theory** Beijing, China *See issue:* 1/89
- 12-14 Applied Vision Top Mtg** San Francisco, CA *See issue:* 1/89
- **15-29 Intl School of Atomic and Molec Spectroscopy** Erice, Italy *Contact:* B. DiBartolo Dept of Phys, Boston College, Chestnut Hill, MA 02167
- 16-21 1989 Conf on Dynamics of Molecular Collisions** Pacific Grove, CA *See issue:* 9/88
- **17-20 Joule Centenary: One Hundred Years of Energy** Salford and Manchester, UK *Contact:* R. Williamson, Dept of Phys, Univ of Manchester, Manchester, M13 9PL
- 17-21 Electro-Ceramics: Processing, Properties, and Apps: Substrates to Superconductors** Cambridge, MA *See issue:* 5/89
- 17-21 Gordon Res Conf on Corrosion**

New London, NH *See issue:* 5/89

- 17-21 Gordon Res Conf on Laser Diagnostics in Combustion** Plymouth, NH *See issue:* 5/89
- 17-21 Gordon Res Conf on Superconducting Films** Tilton, NH *See issue:* 5/89
- 17-21 Gordon Res Conf on Point and Line Defects and Interfaces in Semiconductors** Plymouth, NH *See issue:* 5/89
- 17-21 Gordon Res Conf on Nuclear Phys** Tilton, NH *See issue:* 5/89
- 17-21 12th AIRAPT and 27th EHPRG Intl Conf on High Pressure Sci and Tech** Paderborn, FRG *See issue:* 3/89
- 17-21 4th Intl Conf on Modulated Semiconductor Structures** Ann Arbor, MI *See issue:* 3/89
- 17-21 17th Intl Symp on Shock Waves and Shock Tubes** Bethlehem, PA *See issue:* 3/89
- 17-21 Chapman Conf on Cometary Plasma Processes—Observations and Theory** Southern England *See issue:* 3/89
- 17-21 9th Intl Conf on Vacuum Ultraviolet Radiation Phys** Honolulu, HI *See issue:* 7/88
- 17-28 NATO Adv Study Inst Proceeding on Baryonic Dark Matter** Cambridge, UK *See issue:* 5/89
- 18-21 Strongly Correlated Electron Systems** Trieste, Italy *See issue:* 1/89
- 18-21 7th Intl Conf on Integrated Optics and Optical Fiber Communication** Kobe, Japan *See issue:* 1/89
- 18-21 Intl Conf on Lasers in the Life**

Sciences Guangzhou, China *See issue:* 1/89

- 23-27 Ann Mtg AAPM** Memphis, TN *See issue:* 7/87
- 23-28 2nd Intl Conf on Materials and Mechanisms of Superconductivity: High-Temp Superconductors** Stanford, CA *See issue:* 5/89
- 23-28 12th Intl Colloq on the Dynamics of Explosions and Reactive Sys** Ann Arbor, MI *See issue:* 3/89
- 23-29 Ann Mtg ACA** Seattle, WA *See issue:* 3/89
- **23-30 Nuclear and Space Radiation Effects Conf** Marriott Marco Island Resort, FL *Contact:* Dante Tasca [Tel. (215) 354-4132] Rm M-1211, General Electric Co, PO Box 8555, Philadelphia, PA 19101
- 24-26 42nd Annl Summer Symp on Analytical Chem: Surface Analysis** Blacksburg, VA *See issue:* 5/89
- 24-26 2nd Micro-Optics Conf 8th Top Mtg on Gradient-Index Optical Imaging Systems** Tokyo, Japan *See issue:* 1/89
- 24-26 2nd Intl Conf on Vacuum Microelectronics** Bath, UK *See issue:* 3/89
- 24-27 Intl Symp on Math and Theor Phys** Guarujá, Brazil *See issue:* 9/88
- 24-28 Gordon Res Conf on Fluids in Permeable Media** Tilton, NH *See issue:* 5/89
- 24-28 Modern Infrared Detectors and Systems Apps** Santa Barbara, CA *See issue:* 5/89

Please note: Complete information is given only for new listings (marked ●) or for newly revised listings (marked ○). All items previously listed indicate the issue of PHYSICS TODAY that carries the complete listing. The complete listings are coded as follows:
date title location [sponsor] contact [abstract deadline]
§ 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	IEEE	Institute of Electrical and Electronics Engineers
AAPM	American Association of Physicists in Medicine	IOP	Institute of Physics (London)
AAPT	American Association of Physics Teachers	IUPAC	International Union of Pure and Applied Chemistry
AAS	American Astronomical Society	IUPAP	International Union of Pure and Applied Physics
ACA	American Crystallographic Association	LBL	Lawrence Berkeley Laboratory
AGU	American Geophysical Union	LLNL	Lawrence Livermore National Laboratory
ANS	American Nuclear Society	MRS	Materials Research Society
APS	American Physical Society	NAS	National Academy of Sciences
ASA	Acoustical Society of America	NBS	National Bureau of Standards
AVS	American Vacuum Society	NRC	Nuclear Regulatory Commission
BNL	Brookhaven National Laboratory	NRL	Naval Research Laboratory
CNRS	Centre National de la Recherche Scientifique	NSF	National Science Foundation
DOE	Department of Energy	ORNL	Oak Ridge National Laboratory
DPG	Deutsche Physikalische Gesellschaft	OSA	Optical Society of America
EPS	European Physical Society	S of R	Society of Rheology
IAEA	International Atomic Energy Agency	SPIE	International Society for Optical Engineering
IAU	International Astronomical Union	SPS	Society of Physics Students
ICTP	International Centre for Theoretical Physics		

24-28 Gordon Res Conf on Solid State Ionics Andover, NH See issue: 5/89

24-28 29th Annl Prog in Applied Molecular Spectroscopy: Infrared Tempe, AZ See issue: 3/89

● 24-28 Cryogenic Eng Conf-Intl Cryogenic Materials Conf Los Angeles, CA Contact: David Hustvedt [Tel. (213) 206-3384] 5405 Boelter Hall, UCLA, Los Angeles, CA 90024-1592

● 24-28 US-Japan Wksp on Low-Dimensional Nonlinear Dynamics and Apps to Plasma Phys Boulder, CO Contact: Carla Gottlieb [Tel. (303) 492-8760] Univ of Colorado, Boulder, CO 80309-0391

24-28 Conf on Nonlinear Optics and Lasers Wolfeboro, New Hampshire See issue: 11/88

24-3 Modern Topics in Electronics Imaging Rochester, NY See issue: 5/89

24-4 6th Scientific Assem of the Intl Assoc of Geomag and Aeronomy Exeter, UK See issue: 5/89

● 24-4 Adv Summer Inst in Supercomputing Ithaca, NY Contact: Robert Feldman [Tel. (607) 255-3985] Education and Training, Cornell Natl Supercomputer Facility, Campus Rd and Central Ave, Ithaca, NY 14853-8301

24-11 Phys of the Early Universe. Edinburgh, UK See issue: 3/89

25-26 Cosmogenic Nuclide Production Rates in Meteorites Vienna, Austria See issue: 5/89

25-28 Frontiers in Stellar Evolution Alpine, TX See issue: 3/89

26-1 16th Intl Conf on the Phys of Electronic and Atomic Collisions New York, NY See issue: 3/89

27-28 Differences Between Antarctic and Non-Antarctic Meteorites Vienna, Austria See issue: 5/89

30-3 Elastic Wave Propagation and Ultrasonic Nondestructive Evaluation Boulder, CO See issue: 3/89

30-3 12th Intl Electron Paramagnetic Resonance Symp Denver, CO See issue: 1/89

30-11 Natl Nucl Phys Sum Sch Gull Lake, Michigan See issue: 11/88

31-3 6th Intl Top Mtg on Photoacoustic and Photothermal Phenomena Baltimore, MD See issue: 1/89

31-4 Gordon Res Conf on Coatings and Films Andover, NH See issue: 5/89

31-4 Gordon Res Conf on Gravitational Effects in Materials and Processes Plymouth, NH See issue: 5/89

31-4 Gordon Res Conf on Ion Containing Polymers New London, NH See issue: 5/89

31-4 Gordon Res Conf on Metal and Semiconductor Clusters Plymouth, NH See issue: 5/89

31-4 52nd Meteoritical Soc Mtg Vienna, Austria See issue: 5/89

31-4 36th Intl Field Emission Symp Oxford, UK See issue: 9/88

31-4 17th IUPAP Intl Conf on Thermodynamics and Statistical Mechanics Rio de Janeiro, Brazil See issue: 5/88

31-4 Intl X-Ray Conf Denver, CO See issue: 3/89

31-5 Europhysics Study Conf on Physics Education: Interdisciplinary Aspects of Physics Education Altmünster/Traunsee, Austria See issue: 3/89

AUGUST 1989

● 1-3 Pennsylvania Surface Sci Wksp University Park, PA Contact: J. E. Roberts [Tel. (814) 863-0165] 104 Davey Lab, Penn State Univ, University Park, PA 16802

1-31 Sum Sch on Chaos and Quantum Phys Les Houches, France See issue: 1/89

2-4 5th Intl Symp on Polarization and Correlation in Electronic and Atomic Collisions Hoboken, NJ See issue: 5/89

6-11 33rd Ann Intl Tech Symp on Opt and Optoelectronic Applied Sci and Eng San Diego, CA See issue: 5/89

6-11 Electron Microscopy Soc of America Ann Mtg San Antonio, TX See issue: 3/89

6-13 Intl Symp on Lepton-Photon Interactions Stanford, CA See issue: 3/89

7-9 2nd Intl Conf on Electrorheological Fluids Raleigh, NC See issue: 3/89

7-11 Non-Ionizing Radiations: Biophys and Biol Basis, Apps, and Hazards Cambridge, MA See issue: 5/89

7-11 Gordon Res Conf on Holography and Opt Information Processing Plymouth, NH See issue: 5/89

7-11 Gordon Res Conf on Molten Salts and Liquid Metals Wolfeboro, NH See issue: 5/89

7-11 Gordon Res Conf on X-Ray Phys New London, NH See issue: 5/89

7-11 Gordon Res Conf on Physical Metallurgy Tilton, NH See issue: 5/89

7-11 13th Intl Conf on Atomic Collisions in Solids Aarhus, DK See issue: 3/89

7-11 6th Natl Conf on Synchrotron Radiation Instrum Berkeley, CA See issue: 3/89

7-11 Intrinsic Properties of Hot Luminous Stars Boulder CO See issue: 3/89

8-11 Conf on Thermodynamics and Stat Mech Porto Alegre, Brazil See issue: 5/89

8-11 Wksp on Computational Phys and Cellular Automata Ouro Preto, Brazil See issue: 3/89

9-11 Wksp on Pion-Nucleus Double Charge Exchange Los Alamos, NM See issue: 5/89

13-17 2nd Intl Conf on Low-Energy Dislocation Structures Charlottesville, VA See issue: 3/89

13-18 Summer Course in Hadron Spectroscopy College Park, MD See issue: 5/89

13-18 12th Conf of the Intl Soc of General Relativity and Gravitation Rio de Janeiro, Brazil See issue: 3/89

13-26 NATO Adv Study Inst on High-Temp Superconductors Bad Windsheim, FRG See issue: 9/88

14-17 APS Top Conf on Shock Compression of Condensed Matter Albuquerque, NM See issue: 9/88

14-18 Gordon Res Conf on Sci of Adhesion New Hampton, NH See issue: 5/89

14-18 Gordon Res Conf on Chem and Phys of Liquids Plymouth, NH See issue: 5/89

14-18 Gordon Res Conf on Solid State Studies in Ceramics New London, NH See issue: 5/89

14-18 7th Intl Conf on Biomagnetism New York, NY See issue: 3/89

14-18 6th Intl Conf on Energy and Electron Transfer: Photosynthetic Systems and their Models, Photochemical Processes Prague, CSSR See issue: 3/89

14-18 8th Conf on Hopping Transport Chapel Hill, North Carolina See issue: 11/88

14-25 NATO Adv Study Inst on Phys, Geometry and Topology Banff, Alta, Canada See issue: 5/89

14-26 Adv Study Inst on New Frontiers in QED and Quantum Optics Istanbul, Turkey See issue: 5/89

16-18 Polycrystalline Thin Film Prog Mtg Lakewood, CO See issue: 5/89

20-23 Materials for Biomedical Applications Philadelphia, PA See issue: 3/89

20-25 Intl Conf on Crystal Growth Sendai, Japan See issue: 3/89

20-26 Intl Nuclear Phys Conf São Paulo, Brazil See issue: 7/88

20-29 12th Eur Crystallography Mtg Moscow, USSR See issue: 3/89

21-24 9th Intl Sum Inst in Surface Sci Milwaukee, WI See issue: 5/89

21-24 13th Intl Conf of Amorphous and Liquid Semiconductors Asheville, North Carolina See issue: 11/88

21-25 3rd Intl Conf on Phonon Phys; 6th Intl Conf on Phonon Scattering in Condensed Matter Heidelberg, FRG See issue: 3/89

21-25 CESRA Wksp on Particle Beams in the Solar Atmosphere Braunwald, Switzerland See issue: 11/88

21-26 26th Intl Conf on High Energy Accelerators Tsukuba, Japan See issue: 1/89

22-26 10th Intl Symp on Nuclear Quadrupole Resonance Spectroscopy Takayama, Japan See issue: 3/89

24-26 1st Intl Conf on Amorphous Semiconductor Tech Asheville, North Carolina See issue: 11/88

24-31 13th Cong of the Intl Commission on Acoustics Belgrade, Yugoslavia See issue: 3/89

26-31 Intl Sum Sch on Crystal Growth Tokyo, Japan See issue: 3/89

27-31 5th Interdisciplinary Laser Sci Conf Stanford, CA See issue: 3/89

28-1 12th Wksp on Nuclear Phys Iguaçu Falls, Argentina See issue: 5/89

28-1 11th Intl Conf on Free Electron Lasers Naples, FL See issue: 5/89

28-1 Intl Mtg on Ferroelectricity Saarbrücken See issue: 3/89

28-1 12th Intl Cong on X-Ray Optics and Microanalysis Cracow, Poland See issue: 9/88

28-1 2nd Eur Quantum Electronics Conf Dresden, GDR See issue: 3/89

● 28-1 9th Symp (Intl) on Detonation Portland, OR Contact: Leona Hicks, Lawrence Livermore Natl Lab, PO Box 808, L-282, Livermore, CA 94550

28-8 Top Mtg on Variational Problems in Analysis Trieste, Italy *See issue: 3/89*

30-2 7th Intl Conf on Dynamical Processes in Excited States Athens, GA *See issue: 5/89*

SEPTEMBER 1989

3-7 Conf on the Computation of Electromagnetic Fields Tokyo, Japan *See issue: 11/88*

4-7 IAU Colloq: From Miras to Planetary Nebulae—Which Path for Stellar Evolution? Montpellier, France *See issue: 5/89*

4-8 Intl Conf on the Applications of the Mössbauer Effect Budapest, Hungary *See issue: 3/89*

4-8 Intl Cong on Intergranular and Interphase Boundaries in Materials Paris, France *See issue: 3/89*

4-8 21st Europhysics Conf on Macromolecular Phys: Electrical and Opt Active Polymers Lodz, Poland, *See issue: 3/89*

4-8 8th Intl Conf Electronic Properties of Two-Dimensional Systems Grenoble, France *See issue: 11/88*

5-8 Computations in Phys and Phys in Computation Trieste, Italy *See issue: 1/89*

5-8 O-E/FIBERS Boston, MA *See issue: 1/89*

5-9 1st Eur Conf on Accelerators in Applied Res Tech Frankfurt am Main/Germany *See issue: 1/89*

6-8 CCDs in Astron Tucson, AZ *Contact: George Jacoby [Tel. (602) 325-9292] NOAO/KPNO, PO Box 26732, Tucson, AZ 85726-6732*

6-8 Environmental Aspects of Polymer Degradation and Stabilization: Recycling, Conservation and Industrial Applications Kingston-on-Thames, UK *See issue: 1/89*

6-8 10th Specialized Ampère Colloq: Hertzian Optics and Dielectrics Rennes, France *See issue: 3/89*

6-9 EMMA '89 Eur Magnetic Materials and Applications Conf Rimini, Italy *See issue: 1/89*

6-13 Intl Europhysics Conf on High-Energy Phys Madrid, Spain *See issue: 3/89*

6-15 Course and Wksp on Tritium and Adv Fuels in Fusion Reactors Varenna, Italy *See issue: 5/88*

7-9 Fundamental Symmetries in Nuclei and Particles Pasadena, CA *See issue: 3/89*

9-16 High Energy Density Phys with Subpicosecond Laser Pulses Snowbird, UT *Contact: OSA [Tel. (202) 223-0920] 1816 Jefferson Pl, NW, Washington, DC 20036*

10-14 15th Eur Conf on Optical Communication Gothenburg, Sweden *See issue: 9/88*

10-15 VIIth Eur Conf on Fluid and Materials Sciences in Microgravity Oxford, UK *See issue: 11/88*

11-13 Holographic Systems, Components and Applications Bath, England *See issue: 1/89*

11-15 Modeling of Molecular Struc-

tures and Properties in Physical Chem and Biophys Vandoeuvre Les Nancy, France *See issue: 5/89*

11-15 Eur Conf on Optical Communication Gothenburg, Sweden *See issue: 1/89*

11-15 Highly Correlated Electron Systems Santa Fe, NM *See issue: 3/89*

11-15 WE-Heraeus-Sem: Genl Rel and Applications Bad Honnef, FRG *See issue: 3/89*

11-16 IAU Colloq 125: Radio Recombination Lines: 25 Years of Investigation

Pushchino, USSR *See issue: 5/89*

11-22 NATO Adv Study Inst on Active Close Binaries Kusadasi, Turkey *See issue: 5/89*

11-22 Adv Study Inst on Electronic Properties of Multilayers and Low Dimensional Semiconductor Structures Toulouse, France *See issue: 3/89*

11-23 3rd Iberian Sum Sch on Magnetism and Magnetic Materials Huesca, Spain *See issue: 5/89*

11-29 Adriatico Working Party on Condensed Matter Properties of Neu-

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IN PHYSICS

Iron Stars Trieste, Italy *See issue: 1/89*
12-15 6th Cambridge Wksp on Cool Stars, Stellar Sys and the Sun Seattle, WA *See issue: 1/88*

13-15 EMAG '89: Micro 89 Exhibition and Conf London, UK *See issue: 3/89*

● 13-15 X-Ray Binaries Bologna, Italy *Contact: H. Scheffer, ESA, 8-10, rue Mario Nikis, 75738 Paris, France*

14-19 2nd Intl Symp on Surface Waves in Solids and Layered Structures; 4th Natl Scientific Tech Conf with Intl Participation Varna, Bulgaria *See issue: 3/89*

17-22 IUQSTA Wksp on Structure and Reactivity of Small Molecules on Surfaces Ofir, Portugal *See issue: 3/89*

17-22 4th Intl Conf on II-VI Compounds West Berlin *See issue: 3/89*

18-20 23rd ESLAB Symp (X-Ray Binaries; AGN and the X-Ray Background) Bologna, Italy *See issue: 5/89*

● 18-20 AGN and the X-Ray Background Bologna, Italy *Contact: H. Scheffer ESA, 8-10, rue Mario Nikis, 75738 Paris, France*

18-21 Math of Geophys Sci Houston, TX *See issue: 3/89*

18-22 11th Colloq on High Resolution Molecular Spectroscopy Giessen, Germany (GDR) *See issue: 5/89*

● 18-22 Short Course on Modern Surface Spectroscopy Techniques Austin, TX *Contact: Harris L. Marcus [Tel. (512) 471-3188] Dept of Mech Eng, ETC 5.160, Univ of Texas, Austin, TX 78712*

19-21 3rd Annl Conf on Superconductivity and Apps Buffalo, NY *See issue: 5/89*

19-22 Phys of the Outer Heliosphere Warsaw, Poland *See issue: 5/89*

19-22 3rd Ann Utah State Univ Conf on Small Satellites Logan, UT *See issue: 3/89*

19-26 13th Intl School on Theor Phys: Standard Model and Beyond Szczyrk, Poland *See issue: 9/88*

23-27 Conf and Wksp on Teaching Optics at the Tertiary Level Victoria, Australia *See issue: 11/88*

24-30 Intl Conf on Nuclear Phys São Paulo, Brazil *See issue: 3/89*

25-27 Transport Processes in Fluids and in Mobile Phases Aachen, FRG *See issue: 3/89*

25-27 Sensors and their Applications Canterbury, UK *See issue: 3/89*

25-28 Eur Conf on Opt Integrated Systems Amsterdam, NL *See issue: 3/89*

25-29 Cong of the French Physical Soc Lyon, France *See issue: 3/89*

25-29 IAU Colloq No 117: Dynamics of Prominences Hvar, Yugoslavia *See issue: 5/89*

25-29 11th Intl Vacuum Cong and 7th Intl Conf on Solid Surfaces Cologne, FRG *See issue: 9/88*

25-29 Final Stages of Stars Lyon, France *See issue: 3/89*

25-30 3rd Intl Conf on Problems in Quantum Phys—Recent and Future Experiments and Interpretations Gdansk, Poland *See issue: 3/89*

25-30 1st Intl Conf on Epitaxial Crys-

tal Growth Budapest, Hungary, *See issue: 3/89*

26-28 Intl Symp on Opt Memory Kobe, Japan *See issue: 5/89*

● 26-29 3rd Intl Conf on Laser Anemometry: Advances and Apps Wales, UK [Univ College of Swansea, Wales and the Inst of Mech Eng BHRA] *Contact: L. A. Conf 1989 [Tel. 061-275-4360] Dept of Eng, Univ of Manchester, Manchester M13 9PL, England*

● 27-29 6th Conf of the Australian Optical Soc Adelaide, Australia *Contact: The Flinders Univ of South Australia, Bedford Park, SA, Australia 5042*

30-4 Intl Conf on High- T_c Thin Films and Single Crystals Ustron, Poland *See issue: 1/89*

OCTOBER 1989

1-5 4th Eur Wksp on Problems in the Numerical Modeling of Plasmas Spitzingsee, FRG *See issue: 3/89*

2-5 3rd Intl Symp on Borehole Geophys Las Vegas, NV *See issue: 1/89*

2-5 Materials Weeks '89 Indianapolis, IN *See issue: 3/89*

2-6 25th Anniversary Conf on Frontiers in Phys and High Tech Trieste, Italy *See issue: 3/89*

2-6 Atomic Processes in Plasmas Gaithersburg, MD *See issue: 5/89*

2-6 2nd Eur Conf on Progress in X-Ray Synchrotron Radiation Res Rome, Italy *See issue: 1/89*

● 2-6 14th Intl Conf on IR and Millimeter Waves Wurzburg, FRG *Contact: SPIE [Tel. (206) 676-3290] PO Box 10, Bellingham, WA 98227*

● 2-6 Symp on Fusion Eng Knoxville, TN *Contact: T. E. Shannon [Tel. (615) 576-5501] Oak Ridge Natl Lab, PO Box Y, FEDC Bldg, Oak Ridge, TN 37831*

3-6 IEEE Ultrasonics Symp Montreal, PQ, Canada *See issue: 5/89*

6-7 AAAS Forum for School Sci Arlington, VA *See issue: 3/89*

7-13 40th Intl Astronautical Cong Beijing, China *See issue: 3/89*

7-13 Intl Conf on Kinetics of Nonhomogeneous (Nonlinear) Processes Banff, Canada *See issue: 1/89*

8-13 Microelectronic Integrated Processing: Growth, Monitoring, and Control Santa Clara, CA *See issue: 5/89*

9-13 12th North Amer Wksp on Cataclysmic Variables and Low-Mass X-ray Binaries Santa Fe, NM *See issue: 3/89*

● 9-13 Wksp on Geometric Phases in Mechanics Ithaca, NY [Mathematical Sci Res Inst at Cornell Univ] *Contact: Richard Montgomery [Tel. (415) 642-0143] Mathematical Science Research Institute, 1000 Centennial Dr., Berkeley, CA 94720*

9-14 Autumn School in Phys: Hadrons—their Structure and Interactions Lisbon, Portugal *See issue: 5/89*

10-13 4th Intl Top Mtg on Nuclear Reactor Thermal-Hydraulics Karlsruhe, Germany *See issue: 11/88*

● 11-24 Wksp on Macromolecular Crystallography Cold Spring Harbor, NY *Contact: Registrar [Tel. (516) 367-8343] Cold Spring Harbor Lab, Bungtown Rd, Cold Spring Harbor, NY 11724*

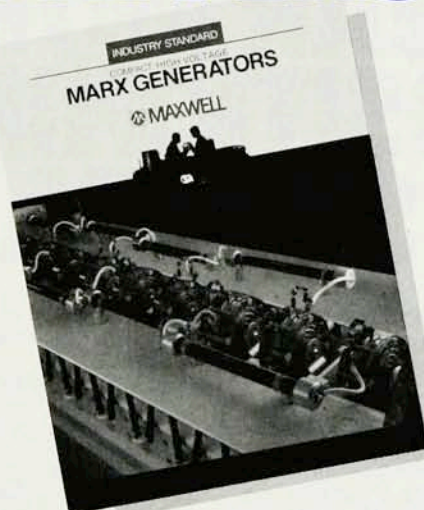
- 15-18 21st Intl Thermal Conductivity Conf Lexington, KY See issue: 3/89
- 15-18 8th Intl Cong on Apps of Lasers and Electro-Optics Orlando, FL Contact: The Laser Inst of Amer [Tel. (407) 380-1553] 12424 Research Pkwy, Suite 130, Orlando, FL 32826
- 15-20 LEOS Ann Mtg Orlando, FL Contact: The Lasers and Electro-Optics Soc of IEEE [Tel. (201) 562-3895] 445 Hoes Ln, Piscataway, NJ 08854
- 15-20 State-of-the-Art Program on Compound Semiconductors Hollywood, FL [The Electrochemical Society] Contact: George J. Valco [Tel. (614) 292-5110] Dept of Elec Eng, Ohio State Univ, 2015 Neil Ave, Columbus, OH 43210
- 15-20 OSA Ann Mtg Orlando, FL See issue: 1/88
- 16-18 Intl Top Conf on Phys with Polarized Beams on Polarized Targets Spencer, IN See issue: 3/89
- 16-18 1st Intl Conf on Radioactive Nuclear Beams Berkeley, CA See issue: 3/89
- 16-19 6th Latin-Amer Regional Astron Mtg Rio Grande do Sul, Brazil See issue: 5/89
- 17-21 IAU Symp 141: Inertial Coordinate System on the Sky Leningrad, USSR [Astronomical Council, USSR Academy of Sciences] Contact: J. H. Lieske [Tel. (818) 354-3642] Jet Propulsion Lab, Mail Stop 301-150, 4800 Oak Grove Dr, Pasadena, CA 91109
- 18-20 3rd Conf on Crystal Growth Atlantic City, NJ See issue: 5/89
- 21-28 Nuclear Sci Symp San Francisco, CA Contact: Paul L. Phelps [Tel. (415) 422-8934] MS L-130, Lawrence Livermore Natl Lab, PO Box 5504, Livermore, CA 94550
- 22-26 61st Ann Mtg S of R Montreal, Canada See issue: 5/89
- 22-28 2nd Intl Conf on Solid State and Integrated Circuit Tech Beijing, China See issue: 1/89
- 23-26 Wksp on Accelerator Instrum Upton, NY [DOE] Contact: G. Bennett [Tel. (516) 282-7590] AGS-911B, Upton, NY 11973
- 23-27 IAU Symp 137: Flare Stars in Star Clusters, Associations and Solar Vicinity Byurakan, USSR See issue: 5/89
- 23-27 Intl Symp CNES-Intercosmos: 1st Results of the Phobos Mission and Future Space Exploration of Mars Palais de congrès, Paris, France See issue: 3/89
- 23-27 36th AVS Natl Vacuum Symp Boston, MA See issue: 7/88
- 24-25 Critical Currents in High- T_c Superconductors Karlsruhe, FRG [Office of Naval Res, London, UK; German Phys Soc; Cryogenics] Contact: Marija Vukovojac [Tel. 0483 300966] Conf Organizer, Critical Currents in High- T_c Superconductors, Butterworth Scientific Ltd, PO Box 63, Westbury House, Bury St, Guildford, Surrey GU2 5BH, UK
- 26-29 History of Sci Soc Ann Mtg Gainesville, FL See issue: 3/89
- 29-2 Conf on Electrical Insulation and Dielectric Phenomena Leesburg, VA See issue: 3/89
- 30-3 5th Intl Symp on the Production and Neutralization of Negative Ions and Beams Upton, NY See issue: 3/89
- 30-3 Intl Conf on Accelerator and Large Exptl Phys Control Sys Vancouver, BC Contact: Donald A. Dohan [Tel. (604) 222-1047] TRIUMF, 4004 Wesbrook Mall, Vancouver, BC, Canada V6T 2A3
- 30-3 Ann Mtg of the AAS Div for Planetary Sci Providence, RI Contact: Carle Pieters [Tel. (401) 863-2417] Dept of Geol Sci, Brown Univ, Providence, RI 02912
- 31-3 25th Anniversary Conf on Frontiers in Phys, High Tech and Math Trieste, Italy See issue: 1/89

NOVEMBER 1989

- 5-10 6th Intl Conf on Recent Progress in Many-Body Theories Arad, Israel See issue: 3/89
- 6-9 2nd Top Conf on Emerging Technologies in Materials San Francisco, CA [Materials Eng and Sciences Div of the Amer Inst of Chem Engineers] Contact: John L. Kardos [Tel. (314) 889-6062] Ma-

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terials Res Lab, Campus Box 1087, Washington Univ, One Brookings Dr, St Louis, MO 63130 [1 May 89]

- **6-10 9th Intl Wksp on Laser Interaction and Related Plasma Phenomena** Monterey, CA *Contact:* George H. Miley, U of Illinois, Fusion Studies Lab, 103 S Goodwin Ave, Urbana, IL 61801

6-10 Applied Geometry Tempe, AZ *See issue:* 3/89

- **8-11 Superstrings and Elementary Particle Theory** Tuscaloosa, AL *Contact:* L. Clavelli [Tel. (205) 348-3794] Dept of

Phys, Univ of Alabama, Tuscaloosa, AL 35487

- **9-11 APS/SES Genl Mtg** Tuscaloosa, AL *Contact:* APS [Tel. (212) 682-7341] 335 E 45 St, New York, NY 10017

13-17 Mtg APS Div Plasma Phys Anaheim, CA *See issue:* 1/88

14-16 Wksp on Scintillating Fiber Detector Devel for the SSC Batavia, IL *See issue:* 3/89

16-17 Colloq on Sci, Arms Control and Natl Security Washington, DC *See issue:* 3/89

17-18 Conf on Nonlinear Structures in Physical Systems—Pattern Formation, Chaos and Waves San Jose, CA *See issue:* 3/89

- **17-20 Wksp on Classical and Quantum Transport in Hamiltonian Sys** Ithaca, NY [Math Sci Inst at Cornell University] *Contact:* G. S. Ezra [Tel. (607) 255-3949] Dept of Chem, Baker Lab, Cornell Univ, Ithaca, NY 14853

22-24 1st Eur Conf on Materials Sci and Tech Aachen, Fed. Rep. of Germany *See issue:* 11/88

26-1 AAPM-RSNA Mtg Chicago, IL *See issue:* 7/88

26-1 ANS Winter Mtg San Francisco, CA *See issue:* 11/88

27-1 118th Mtg ASA St. Louis, MO *See issue:* 3/89

27-1 MRS Fall Mtg Boston, MA *See issue:* 1/88

28-1 Conf on Color Discrimination Psychophys Williamsburg, VA *See issue:* 9/88

- **28-1 34th Ann Conf on Magnetism & Magnetic Materials** Boston, MA [AIP, the Magnetics Society of IEEE, in cooperation with the Metallurgical Soc of AIME, ONR, the Amer Soc for Testing and Materials, APS, and the Amer Ceramic Soc] *Contact:* Diane Suiters [Tel. (202) 347-6109] Conf Coordinator, at 655 15th St N W, Suite 300, Washington, DC 20005 [21 July 89]

- **30-3 Ann Mtg of the Div for Planetary Sci of AAS** Providence, RI *Contact:* Carle Pieters [Tel. (401) 863-2417] Dept of Geol Sci, Brown Univ, Providence, RI 02912

DECEMBER 1989

1-5 IAU Symp No 142: Basic Plasma Processes on the Sun Bangalore, India *See issue:* 3/89

- **3-8 12th Intl Conf on Lasers and Apps** New Orleans, LA [Soc for Opt and Quantum Electronics] *Contact:* LASERS 89 [Tel. (703) 642-5835] PO Box 245, McLean, VA 22101 [30 June 89]

3-8 Issues in Sci and Tech Policy Williamsburg, VA *See issue:* 3/89

4-7 IAU Colloq 124: Paired and Interacting Galaxies Tuscaloosa, AL *See issue:* 5/89

4-8 AGU Fall Mtg San Francisco, CA *See issue:* 1/88

11-13 SIAM Conf on Parallel Processing for Scientific Computing Chicago, IL *See issue:* 3/89

- **11-16 14th Texas Symp on Relativistic Astrophys** Dallas, TX *Contact:* Ervin J. Fenyves, Univ of Texas at Dallas, M/S BE 2.2, PO Box 830688, Richardson, TX 75083-0688

11-21 5th Symp on Sci and Tech Ed for Devel Manila, Philippines *See issue:* 9/88

JANUARY 1990

6-19 21st Intl Cosmic Ray Conf Adelaide, Australia *See issue:* 11/88

- **7-11 7th Symp on Space Nucl Power Sys** Albuquerque, NM *Contact:* Mohamed S. El-Genk [Tel. (505) 277-2813] Inst for Space Nucl Power Studies, The Univ of New Mexico, Albuquerque, NM 87131 [13 June 1989]

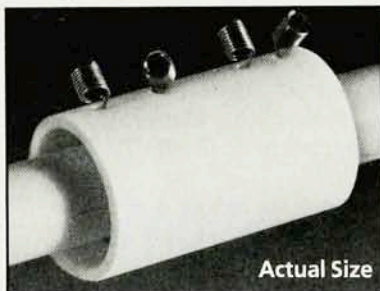
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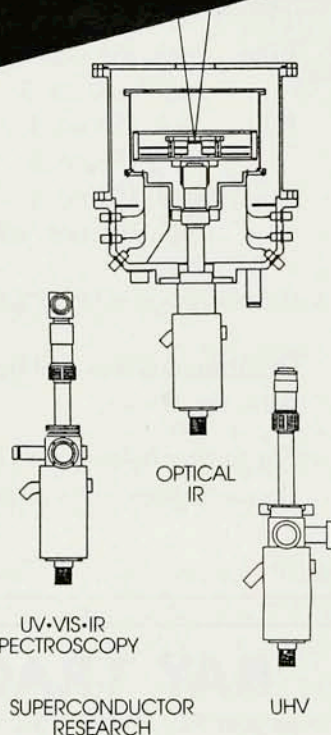
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PHYSICS TODAY JULY 1989 97

- 8-13 **Winter Conf on Plasma Spectrochemistry** St Petersburg, FL [ICP Info Newsletter] Contact: Ramon M. Barnes [Tel. (413) 545-2294] Dept of Chem, GRC Towers, Univ of Massachusetts, Amherst, MA 01003-0035 [3 July 89]

9-13 **175th Mtg AAS** Washington, DC See issue: 1/88

- 10-14 **Intl Conf on Superconductivity** Bangalore, India [Superconductivity Programme Management Board and the Dept. of Sci.] Contact: S. V. Subramanyam, Dept of Phys, Indian Inst of Sci, Bangalore 560 012, India Note change of dates

- 14-19 **Optics, Electro-Optics, and Laser Apps in Sci and Eng** Los Angeles, CA Contact: SPIE [Tel. (206) 676-3290] PO Box 10, Bellingham, WA 98227-0010

- 16-18 **6th Intl Symp on Separation Sci and Biotech** Fort Lauderdale, FL Contact: Janet Cunningham [Tel. (301) 898-3772] Barr Enterprises, PO Box 279, Walkersville, MD 21793

- 16-19 **Wksp on Bulges in Galaxies** La Serena, Chile [ESO, Cerro Tololo Inter American Observatory] Contact: H. E. Schwarz, European Southern Observatory, Casilla 19001, Santiago 19, Chile

- 17-19 **Photorefractive Materials** Aussois, France Contact: P. Chavel, SFO Institut d'Optique, BP 43, 91406 Orsay Cedex, France [15 Aug 89]

- 17-19 **3rd Ann Intl Superconductor Apps Conv** Long Beach, CA Contact: Superconductor Apps Assoc [Tel. 800-854-8263] 24781 Camino Villa Ave, El Toro, CA 92630

22-25 **AAPT-APS Joint Winter Mtg** Atlanta, GA See issue: 9/88

22-26 **Conf on Optical Fiber Communication** San Francisco, CA See issue: 9/88

- 28-4 **Intl School on Disarmament and Res on Conflicts 3rd Winter Course** Folgaria (Trento), Italy Contact: Carlo Schaefer [Tel. (39-6) 24990-561] Dipartimento di Fisica, Università di Roma "Tor Vergata," Via O. Raimondo, I-00173 Roma, Italy

FEBRUARY 1990

- 4-9 **Med Imaging IV** Newport Beach, CA Contact: SPIE [Tel. (206) 676-3290] PO Box 10, Bellingham, WA 98227-0010

- 5-9 **Noninvasive Assessment of the Visual System Top Mtg** Incline Village, NV See issue: 1/89

- 5-9 **Laser Apps to Chem Analysis Top Mtg** Incline Village, NV [OSA] Contact: OSA [Tel. (202) 223-0920] Meetings Dept, 1816 Jefferson Pl, NW, Washington, DC 20036 [15 Sept 89] Note addition of abstr. deadline

- 11-16 **Adv Tech Opt Telescopes IV and Instrumentation in Astron** Tucson, AZ Contact: SPIE [Tel. (206) 676-3290] PO Box 10, Bellingham, WA 98227-0010

- 12-16 **Ocean Sci Mtg** New Orleans, LA Contact: AGU [Tel. (202) 462-6903] 2000 Florida Ave, NW, Washington, DC 20009

- 13-15 **Optical Remote Sensing of the Atmosphere Top Mtg** Incline Village, NV Contact: OSA [Tel. (202) 223-0920] Mtgs Dept, 1816 Jefferson Pl, NW, Washington, DC 20036 [15 Sept 90]

- 18-21 **13th Ann Mtg of the Adhesion Soc** Savannah, GA Contact: Jim Wightman [Tel. (703) 231-5854] Dept of Chem, VPI & SU, Blacksburg, VA 20461 [15 June 89]

- 18-22 **Minerals, Metals and Materials Soc Ann Mtg** Anaheim, CA Contact: TMS [Tel. (412) 776-9050] Attn: Mtgs Dept, 420 Commonwealth Dr, Warrendale, PA 15086

- 25-2 **Intl Symp and Exposition on Electronic Imaging Devices and Sys** Santa Clara, CA Contact: The Soc for Imaging Sci and Tech [Tel. (703) 642-9090] 7003 Kilworth Ln, Springfield, VA 22151

MARCH 1990

- 6-8 **Intl Cong on Recent Developments in Air and Structure Borne Sound and Vibration** Auburn Univ, AL Contact: Congress Secretariat [Tel. (205) 844-4820] Dept of Mech Eng, 201 Ross Hall, Auburn Univ, AL 36849-3541 [15 Sept 89]

- 12-14 **13th Austin Symp on Molec Structure** Austin, TX Contact: J. E. Boggs [Tel. (512) 471-7525] Dept of Chem, The Univ of Texas, Austin, TX 78712

- 12-16 **Intl Cong on Opt Sci and Eng** Hague, The Netherlands [EPS, Europtica, SPIE] Contact: SPIE [Tel. (206) 676-3290] PO Box 10, Bellingham, WA 98227

12-16 **March Mtg APS** Anaheim, CA See issue: 7/88

15-17 **CCD Techniques in Opt Astron** Charleston, SC See issue: 3/89

18-23 **Symp on Advances in Semiconductors and Superconductors: Phys Toward Device Apps** San Diego, CA See issue: 1/89

APRIL 1990

- 1-7 **1st Intl Conf on Epitaxial Crystal Growth** Budapest, Hungary Contact: E. Lendvay [Tel. (36) (1) 698-037] Res Inst for Technical Phys, Hungarian Acad of Sci, Ujpest 1. Pf. 76. Budapest, Hungary-1325

- 2-6 **Intl Cong on Opt Sci and Eng** Hamburg, FRG [EPS, Europtica, SPIE] Contact: SPIE [Tel. (206) 676-3290] PO Box 10, Bellingham, WA 98227-0010

- 2-6 **Advances in Material Sci and Apps of High Temp Superconductors** Greenbelt, MD [NASA Goddard Space Flight Center, NIST, The Johns Hopkins Univ/Appl Phys Lab, ONR] Contact: L. H. Bennett 1990 AMSAHTS Conf, Natl Inst of Standards and Tech, B152, Materials Bldg, Gaithersburg, MD 20899 [1 July 89]

- 4-6 **Structure of Surfaces and Interfaces as Studied by Synchrotron Radiation** Manchester, UK Contact: J. N. Sherwood, Dept of Pure and Appl Chem, U of Strathclyde, Glasgow G1 1XL [June 89]

- 8-13 **ACA Annl Mtg** New Orleans, LA Contact: Jane Griffin [Tel. (716) 856-9600] Medical Foundation of Buffalo, 73 High St, Buffalo, NY 14203-1196

10-12 **2nd New Materials and Their Applications Conf** Warwick, UK See issue: 11/88

- 16-19 **APS Spring Mtg** Washington, DC Contact: APS [Tel. (212) 682-7341] 335 E 45 St, New York, NY 10017

- 16-20 **Tech Symp on Optics, Electro-Optics, and Sensors** Orlando, FL Contact: SPIE [Tel. (206) 676-3290] PO Box 10, Bellingham, WA 98227