

calendar

SEPTEMBER 1986

- 17-19 **Mtg on Advances in Reactor Phys and Safety** Saratoga Springs, NY *See issue: 5/86*
- 22-25 **12th Int Symp on Discharges and Electrical Insulation in Vacuum** Shresh, Israel *See issue: 11/85*
- 22-25 **1st World Cong on Computational Mech** Austin, TX *See issue: 11/85*
- 22-25 **12th Eur Conf on Optical Communication** Barcelona, Spain *See issue: 3/86*
- 22-27 **7th Int Symp on High Energy Spin Phys** Protvino, USSR *Contact: Symp. Secretary [Tel. 289-27-32 Serpukhov] Inst. for High-Energy Phys., 142284 Serpukhov, USSR*
- 24-26 **Wksp on Quantum Aspects of Molecular Motions in Solids** Grenoble, France *See issue: 5/86*
- 25-26 **Interface Effects on Processing and Properties of Materials for High-Temperature Service** Oak Ridge, TN *See issue: 5/86*
- 25-28 **Conf on Phys and Philosophy** Fort Collins, CO *See issue: 7/86*
- 28-1 **13th Int Symp on Gallium Arsenide and Related Compounds** Las Vegas, NV *See issue: 3/86*
- 28-3 **1986 Applied Superconductivity Conf** Baltimore, MD *See issue: 11/85*

- 28-10 **Wksp on Dynamics of Fractals and Hierarchies of Critical Exponents** Orsay, France *Contact: H. Herrmann [Tel. 1-69-08-73-66] SPHT, CEN-Saclay, F-91191 Gif-sur-Yvette Cedex, France*

OCTOBER 1986

- 1-3 **Chapman Conf on Microbial Processes in Transport, Fate and In Situ Treatment of Subsurface Contaminants** Snowbird, UT *See issue: 5/86*
- 6-8 **3rd Int Symp on Molecular Electronic Devices** Washington, DC *See issue: 7/86*
- 7-8 **Pennsylvania State Symp on Multicomponent Polymers** University Park, PA *See issue: 7/86*
- 7-9 **Int Conf on Optical-Fiber Sensors** Tokyo, Japan *See issue: 1/86*
- 7-11 **Eur Wksp on Few-Body Phys** Rome, Italy *See issue: 7/86*
- 8-11 **16th Eur Solid-State Device Res Conf** Cambridge, UK *See issue: 7/86*
- 9-11 **Mtg APS Div of Nuclear Phys** Vancouver, BC, Canada *See issue: 1/86*
- 10-11 **Symp on Cosmology and Elementary Particles** Syracuse, NY [NYS Sec. APS] *Contact: F. L. Wil-*

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].

Conferences sponsored by AIP member societies are listed with dates in boldface.

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
IAEA International Atomic Energy Agency

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
NAS National Academy of Sciences
MRS Materials Research Society
NBS National Bureau of Standards
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
SPS Society of Physics Students

MRS

MATERIALS RESEARCH SOCIETY

The 1987 MRS Spring Meeting of the Materials Research Society to be held Tuesday-Friday, 21-24 April 1987 at the Anaheim Marriott Hotel, Anaheim, California, will include the topical symposia listed below. These symposia will provide an interdisciplinary forum for important areas in materials research, so that physical, chemical, engineering, and materials science aspects can be considered in one meeting with a unified approach. For Spring 1987, the strongly complementary topics will encourage cross-fertilization between different areas of materials science.

- A. Heteroepitaxy on Silicon Technology
- B. Rapid Thermal Processing of Electronic Materials
- C. Materials Modification and Growth Using Ion Beams
- D. Initial Stages of Epitaxial Growth
- E. Amorphous Silicon Semiconductors - Pure and Hydrogenated
- F. Permanent Magnetic Materials
- G. Science and Fabrication of Small Clusters
- H. Synthesis and Properties of Novel Catalysts: Carbides, Nitrides, Borides, and Silicides
- I. Novel Refractory Semiconductors
- J. Geological Materials: Silicate Melts and Glasses
- K. Plasma Processing and Synthesis of Materials
- L. Materials for Aerospace Applications
- X. Frontiers of Materials Research

1987 Spring MRS Show

Over 90 companies plan to exhibit analytical and processing equipment at the 1986 MRS Show this December in Boston. Many of these exhibitors are already planning to exhibit at the 1987 Spring MRS Show.

For Show Information, contact:

Bob Finnegan, MRS Show Manager
 American Institute of Physics
 335 East 45th Street
 New York, NY 10017
 Telephone (212) 661-9404

Contact for Technical Program:

John B. Ballance, Executive Director
 Materials Research Society
 9800 McKnight Road, Suite 327
 Pittsburgh, PA 15237
 Telephone (412) 367-3003

- son, NYSS-APS, COLA-3118, Rochester Inst. of Tech., 1 Lomb Memorial Dr., Rochester, NY 14623-0887
- 13-17 **Banff Conf on Quantum Fluids and Solids** Banff, AB, Canada *See issue: 11/85*
- 13-18 **Autumn Sch on Models and Methods in Few-Body Phys** Lisbon, Portugal *See issue: 5/86*
- 14-16 **George Mason Fall Wksp in Astrophys** Fairfax, VA *Contact: M. Kafatos [Tel. 703-323-2303] Phys. Dept., George Mason Univ., Fairfax, VA 22030*
- 14-17 **10th IEEE Int Semiconductor Laser Conf** Kanazawa, Japan *See issue: 1/86*
- 15-17 **2nd Int Symp on Phys and Chem of Porous Media** Ridgefield, CT *See issue: 7/86*
- 18-23 **Ann Mtg S of R** Tulsa, OK *See issue: 1/86*
- 19-24 **OSA Ann Mtg** Seattle, WA *Contact: OSA [Tel. 202-223-8130] 1816 Jefferson Pl. N.W., Washington, DC 20036 includes APS-OSA Int Laser Sci Conf, Top Mtg on Multiexcitations of Atoms and Wksp on Optical Fabrication and Testing*
- 20-21 **1986 SRC Users Group Mtg** Madison, WI *Contact: R. Ward [Tel. 608-873-6651] Synchrotron Radiation Ctr., Univ. of Wisconsin—Madison, 3725 Schneider Dr., Stoughton, WI 53589-3098*
- 20-24 **Int Laser Sci Conf** Seattle, WA *Contact: R. C. Powell [Tel. 405-624-6575] Phys. Dept., Oklahoma State Univ., Stillwater, OK 74078*
- 20-24 **15th Int Colloq on Group Theor Methods in Phys** Philadelphia, PA *See issue: 7/86*
- 20-26 **11th Int Conf on Infrared and Millimeter Waves** Pisa, Italy *See issue: 3/86*
- 21-24 **Hypervelocity Impact Symp** San Antonio, TX *Contact: C. Anderson, Southwest Res. Inst., P.O. Box 28510, San Antonio, TX 78284*
- 23-24 **13th Ann SSRL Users Group Mtg** Menlo Park, CA *Contact: C. Mitchell, Stanford Synchrotron Radiation Lab., SLAC Bin 69, P.O. Box 4349, Stanford, CA 94305*
- 23-29 **2nd Joint US-CERN Sch on Particle Accelerators: Frontiers of Particle Beams** South Padre Island, TX *See issue: 7/86*
- 24-25 **34th Midwest Solid-State Conf** St. Louis, MO *Contact: B. J. Feldman, Phys. Dept., Univ. of Missouri, St. Louis, MO 63121*
- 24-25 **25th Eastern Theor Phys Conf** Charlottesville, VA *See issue: 7/86*
- 26-31 **33rd AVS Nat Vacuum Symp, 10th Int Vacuum Cong, 6th Int Conf on Solid Surfaces** Baltimore, MD *Contact: M. Churchill, AVS [Tel. 212-661-9404] 335 E. 45th St., New York, NY 10017 note changed dates*
- 27-31 **Chapman Conf on El Niño: Int Symp** Guayaquil, Ecuador *See issue: 5/86*
- 27-31 **4th Int Symp on Production and Neutralization of Negative Ions and Beams** Upton, NY *See issue: 5/86*

- 28-1 **Int Symp on Phys and Chem of Small Clusters** Richmond, VA *See issue: 3/86*
- 29-31 **1986 Nuclear Sci Symp** Washington, DC [IEEE, Nuclear Sci. Soc., Plasma Sci. Soc.] *Contact: D. E. Stillwell [Tel. 301-344-6282] NASA/GSFC, Mail Code 663, Greenbelt, MD 20771*
- 29-31 **Conf on Perspectives in Computational Phys** Trieste, Italy *See issue: 7/86*

NOVEMBER 1986

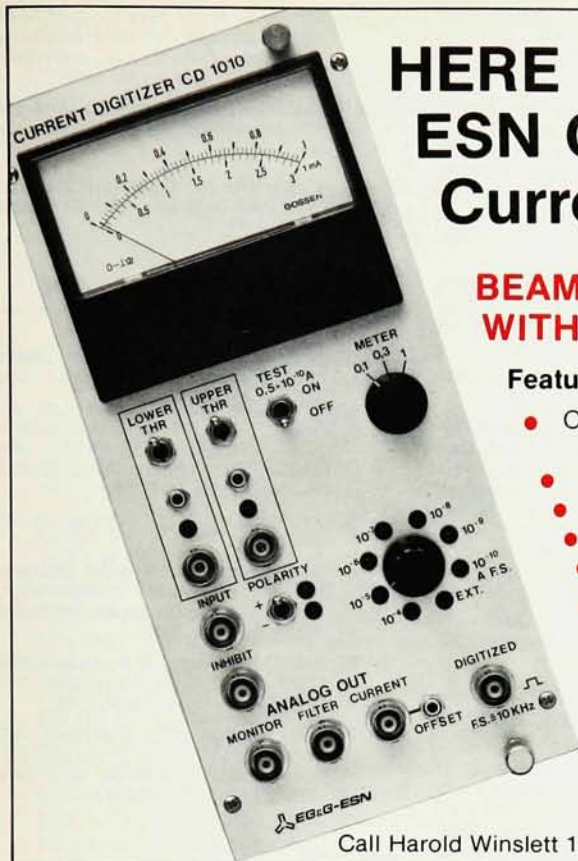
- 3-5 **Symp on Optical Materials for High-Power Lasers** Boulder, CO *See issue: 3/86*
- 3-7 **APS Div Plasma Phys Mtg** Baltimore, MD *See issue: 11/85*
- 3-7 **Lasers '86: 9th Ann Mtg Soc for Optical and Quantum Electronics** Orlando, FL *Contact: Lasers '86 [Tel. 703-642-5758] P.O. Box 245, McLean, VA 22101*
- 3-28 **IUPAB Latin Am Biophys Sch: Methods in Macromolecular Biophys** La Plata, Argentina *Contact: J. R. Grigera, Latin Am. Biophys. Sch., C.C. 565, 1900-La Plata, Argentina*
- 4-7 **18th Mtg AAS Div Planetary Sci** Paris, France *Contact: S. Dermott, Cornell Univ., Space Sci. Bldg., Ithaca, NY 14853*
- 6-8 **Mtg Texas Sec AAPT, Texas Sec APS and SPS Zone 10** Nacogdoches, TX *See issue: 1/86*
- 10-12 **9th Int Conf on Application of Accelerators in Res and Industry** Denton, TX *See issue: 11/85*
- 10-13 **5th Int Cong on Applications of Lasers and Electro-optics** Arlington, VA *See issue: 7/86*
- 12-14 **1986 RADCNBS Int Wksp on Moisture Measurement and Control for Microelectronics** Gaithersburg, MD *Contact: D. Kane [Tel. 315-330-4055] Rome Air Dev. Ctr., Griffiss AFB, NY 13441-5700*
- 16-21 **ANS Winter Mtg** Washington, DC *See issue: 5/86*
- 17-19 **IEEE Ultrasonics Symp** Williamsburg, VA *Contact: R. A. Moore [Tel. 301-765-4027] Westinghouse DEC, P.O. Box 746, MS-335, Baltimore, MD 21203*
- 17-21 **31st Ann Conf on Magnetism and Magnetic Materials** Baltimore, MD *See issue: 7/86*
- 17-21 **9th Int Conf on Magneto-hydrodynamic Electrical Power Generation** Tsukuba, Ibaraki, Japan *See issue: 3/86*
- 18-20 **4th Int Conf on Quantitative Surface Analysis** Teddington, UK *See issue: 11/85*
- 20-22 **Mtg APS Southeastern Sec** Williamsburg, VA *See issue: 1/86*
- 23-25 **Mtg APS Div of Fluid Dynamics** Columbus, OH *See issue: 1/86*
- 27-28 **14th Midwest Solid-State Theory Symp** Naperville, IL *See issue: 5/86*
- 30-5 **Gen Mtg AAPM and Radiological Soc N Am** Chicago, IL *See issue: 1/86*

DECEMBER 1986

- 1-5 **MRS Fall Mtg** Boston, MA *See issue: 1/86*
- 2-4 **18th Ann Precise-Time and Time-Interval Applications and Planning Mtg** Washington, DC *See issue: 7/86*
- 2-5 **6th Eur Conf on Materials Sci Under Microgravity** Bordeaux, France *See issue: 1/86*
- 8-10 **Conf on Impacts of Phys on Frontiers of Med: Lasers** Lake Buena Vista, FL *See issue: 5/86*
- 8-12 **112th ASA Mtg** Anaheim, CA *See issue: 3/85*
- 8-12 **AGU Fall Mtg** San Francisco, CA *See issue: 1/86*
- 9-10 **Conf on Fluctuation Phenomena in Underwater Acoustics** Weymouth, UK *See issue: 5/86*
- 12-13 **Top Mtg on SS433 and Jets** St. Louis, MO *See issue: 7/86*
- 14-19 **13th Texas Symp on Relativistic Astrophys** Chicago, IL *Contact: 13th Texas Symp. on Relativistic Astrophys., MS209, Fermilab, P.O. Box 500, Batavia, IL 60510*
- 16-20 **Int Conf on Metallic and Semiconducting Glasses** Hyderabad, India *Contact: A. K. Bhatnager, School of Phys., Univ. of Hyderabad, P.O. Central Univ., Hyderabad 500 134, India*
- 17-19 **Ann Solid State Phys Conf 1986** London, UK *See issue: 3/85*

JANUARY 1987

- 4-8 **169th Mtg AAS** Pasadena, CA *See issue: 1/86*
- 5-8 **17th Winter Colloq on Quantum Electronics** Snowbird, UT [Physics of Quantum Electronics] *Contact: S. F. Jacobs, Opt. Sci. Ctr., Univ. of Arizona, Tucson, AZ 85721 note corrected title*
- 5-9 **5th Int Conf on Valence Fluctuations** Bangalore, India *See issue: 7/86*
- 11-17 **Conf on Optoelectronics and Laser Applications in Sci and Eng** Los Angeles, CA *See issue: 7/85*
- 14-16 **Top Mtg on Picosecond and Optoelectronics** Lake Tahoe, NV *See issue: 1/86*
- 19-22 **Conf on Optical-Fiber Communication, Int Conf on Integrated Optics and Optical-Fiber Communication** Reno, NV *See issue: 1/86*
- 26-28 **Top Mtgs on Laser Analytical Spectroscopy and Noninvasive Assessment of Visual System** Lake Tahoe, NV *See issue: 1/86*
- 27-29 **Phys and Chem of Semiconductor Interfaces Conf** Salt Lake City, UT *See issue: 7/86*
- 28-30 **Int Conf on Stability of Amorphous Silicon Alloy Materials and Devices** Palo Alto, CA [AIP, SORL, DOE, NEDO, MITI] *Contact: B. Stafford [Tel. 303-231-7126] Solar Energy Res. Inst., 1617 Cole Blvd., Golden, CO 80401-3393*



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28-30 **34th Ann Conf Western Spectroscopy Assoc** Pacific Grove, CA
See issue: 11/85

28-31 **Ann Joint Mtg AAPT and APS** San Francisco, CA Contact: AAPT, Suite 101, 5110 Roanoke Pl., College Park, MD 20740 note changed dates

FEBRUARY 1987

1-6 **Int Symp on Pattern Recognition and Acoustical Imaging, Conf on Med Imaging** Newport Beach, CA [SPIE] Contact: J. Powers [Tel. 206-676-3290] SPIE, P.O. Box 10, Bellingham, WA 98227-0010

2-6 **8th Nuclear and Particle Phys Sum Sch** Launceston, Tasmania, Australia See issue: 7/86

9-13 **Southwest Conf on Optics** Albuquerque, NM See issue: 1/86

14-19 **Ann Mtg AAAS** Chicago, IL See issue: 5/86

16-18 **Top Mtg on Microphys of Surfaces, Beams and Adsorbates** Santa Fe, NM Contact: OSA [Tel. 202-223-8130] 1816 Jefferson Pl. NW, Washington, DC 20036

17-27 **26th Schlading Winter Sch on Recent Developments in Math Phys** Schlading, Austria Contact: L. Pittner, Inst. für Theoretische Physik, Universität Graz, Universitätsplatz 5, A-8010 Graz, Austria [30 Jan. 87]

22-27 **Int Mtg Adhesion Soc** Williamsburg, VA See issue: 11/85

23-27 **3rd Int Conf on Ultrastructure Processing of Ceramics, Glasses and Composites** San Diego, CA See issue: 5/86

25-26 **Vibration Control in Optics and Metrology** London, UK Contact: Sira Ltd. [Tel. 01-467-2636] South Hill, Chislehurst, Kent BR7 5EH, UK

MARCH 1987

5-7 **Mtg Texas Secs AAPT and APS** Abilene, TX See issue: 1/86

11-13 **Top Mtg on Optical Data Storage** Lake Tahoe, NV See issue: 1/86

12-14 **Int Symp on Quantum Bio and Quantum Pharmacology** Gainesville, FL Contact: Sanibel Symposia [Tel. 904-392-1597] Williamson Hall, Univ. of Florida, Gainesville, FL 32611

15-20 **ACA Ann Mtg** Austin, TX See issue: 7/86

15-20 **Tech Symp Southeast on Optics and Optoelectronics** Orlando, FL See issue: 11/85

16-18 **Top Mtg on Optical Computing** Lake Tahoe, NV See issue: 1/86

16-19 **1987 Particle Accelerator Conf** Washington, DC Contact: C. Lee-mann [Tel. 804-875-7875] CEBAF, 12070 Jefferson Ave., Newport News, VA 23606

16-20 **APS March Mtg** New York, NY See issue: 1/86

16-21 **Int Symp on Atomic, Molecular and Solid-State Theory, Scattering Problems, Many-Body Phenomena, and Computational**

Methods Gainesville, FL Contact: Sanibel Symposia [Tel. 904-392-1597] Williamson Hall, Univ. of Florida, Gainesville, FL 32611

17-27 **NATO Adv Study Inst on Chem Crystallography with Pulsed Neutrons and Synchrotron Radiation** Alvor, Algarve, Portugal Contact: G. A. Jeffrey [Tel. 412-624-4366] Dept. of Crystallography, Univ. of Pittsburgh, Pittsburgh, PA 15260 [15 Nov. 86]

18-20 **Top Mtg on Photonic Switching** Lake Tahoe, NV Contact: OSA [Tel. 202-223-8130] 1816 Jefferson Pl. NW, Washington, DC 20036

18-20 **Top Mtg on Machine Vision** Lake Tahoe, NV See issue: 1/86

30-4 **4th Int Symp on Optical and Optoelectronic Applied Sci and Eng** The Hague, The Netherlands [SPIE, ANRT, Quantoptica Foundation] Contact: B. Denoyel [Tel. 33-1-4-501-7227] The Hague Conf. Coordinator, ANRT, 101 Ave. Raymond Poincaré, 75116 Paris, France [15 Sep. 86]

31-3 **Schrödinger Centenary Conf** London, UK See issue: 7/86

APRIL 1987

3-4 **NYS Sec APS Symp on Phys of Thin Films** Briarcliff Manor, NY Contact: F. L. Wilson [Tel. 716-475-6204] College of Liberal Arts, Rochester Inst. of Tech., 1 Lomb Memorial Dr., Rochester, NY 14623

6-8 **5th Oxford Conf on Microscopy of Semiconducting Materials** Oxford, UK [IOP, MRS, Royal Microscopical Soc] Contact: A. G. Cullis Royal Signals and Radar Establishment, St. Andrews Rd., Malvern, Worcs. WR14 3PS, UK [1 Dec. 86]

7-10 **7th General Conf EPS Condensed-Matter Div** Pisa, Italy See issue: 7/86

8-9 **23rd Ann Mtg Nat Council on Protection and Measurements** Washington, DC Contact: NCRP, 7910 Woodmont Ave., Ste. 1016, Bethesda, MD 20814

8-11 **Electrostatics '87 Conf** Oxford, UK [IOP] Contact: IOP [Tel. 01-235-6111] 47 Belgrave Sq., London SW1X 8QX, UK note changed dates /

15-18 **1st Yukawa Int Sem on Mesons and Quarks in Nuclei** Kyoto, Japan Contact: T. Suzuki, Res. Inst. for Fundamental Phys., Kyoto Univ., Kyoto 606, Japan

20-22 **Int Symp on Magnetism of Inter-metallic Compounds** Kyoto, Japan Contact: Y. Nakamura, Dept. of Metal Sci. and Tech., Kyoto Univ., Kyoto 606, Japan

20-23 **APS Spring Mtg** Crystal City, VA See issue: 1/86

20-24 **MRS Spring Mtg** Anaheim, CA See issue: 1/86

20-24 **11th Int Conf on Particles and Nuclei** Kyoto, Japan See issue: 1/86

21-23 **22nd Int Microbalance Techniques Conf** Rabat, Morocco Contact: L. Belkhir, Dept. of Chem., Faculty of Sci., Ibn Battuta Ave., B.P. 1014, Rabat, Morocco

23-25 **Symp on Isaac Newton's *Philosophia Naturalis Principia Mathematica*** College Park, MD, and Washington, DC See issue: 5/86

27-1 **CLEO '87: Conf on Lasers and Electro-optics** Baltimore, MD See issue: 3/86

27-1 **IQEC '87: Int Quantum Electronics Conf** Baltimore, MD See issue: 3/86

MAY 1987

3-7 **5th Int Symp on Gaseous Dielectrics** Knoxville, TN See issue: 1/86

4-7 **SPE 45th ANTEC Mtg** Los Angeles, CA Contact: B. J. Bachman [Tel. 201-582-6085] AT&T Bell Labs., 600 Mountain Ave., 2D-225, Murray Hill, NJ 07974

11-15 **113th ASA Mtg** Indianapolis, IN See issue: 7/84

12-15 **STIP Symp on Physical Interpretations of Solar Interplanetary and Cometary Intervals** Huntsville, AL See issue: 5/86

13-15 **Sci Computing and Automation Conf and Exhibit** Amsterdam, The Netherlands See issue: 7/86

18-22 **AGU Spring Mtg** Baltimore, MD Contact: B. Weaver [Tel. 202-462-6903] AGU, 2 Florida Ave. NW, Washington, DC 20009

JUNE 1987

11-25 **4th Wksp on Nonlinear Evolution Eqs and Dynamical Sys** Balaruc-Bains, Montpellier, France Contact: J. J.-P. Leon [Tel. 67-63-91-44, ext. 568] Lab. de Physique Mathématique, Univ. des Sciences et Techniques du Languedoc, 34060 Montpellier Cedex, France

14-18 **ASME Symp on Flow of Thin Fluid Films** Cincinnati, OH See issue: 7/86

14-18 **170th Mtg AAS** Vancouver, BC, Canada See issue: 1/86

15-29 **Sum Inst on Disordered Processes** Erice, Italy Contact: B. Di Bartolo, Phys. Dept., Boston College, Chestnut Hill, MA 02167

21-25 **5th Nat Synchrotron Radiation Instrumentation Conf** Madison, WI See issue: 7/86

22-26 **10th Information Processing in Med Imaging Conf** Utrecht, The Netherlands See issue: 7/86

22-26 **2nd Int Conf on Structure of Surfaces** Amsterdam, The Netherlands See issue: 5/86

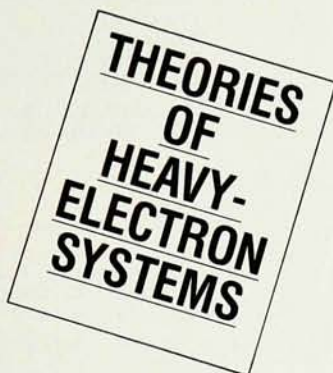
24-27 **AAPT Sum Mtg** Bozeman, MT See issue: 1/86

JULY 1987

12-17 **1987 Conf on Dynamics of Molecular Collisions** Wheeling, WV See issue: 7/86

13-17 **4th Int Conf on Multiphoton Processes** Boulder, CO Contact: S. J. Smith [Tel. 303-492-7788] JILA, CB 440, Univ. of Colorado, Boulder, CO 80309

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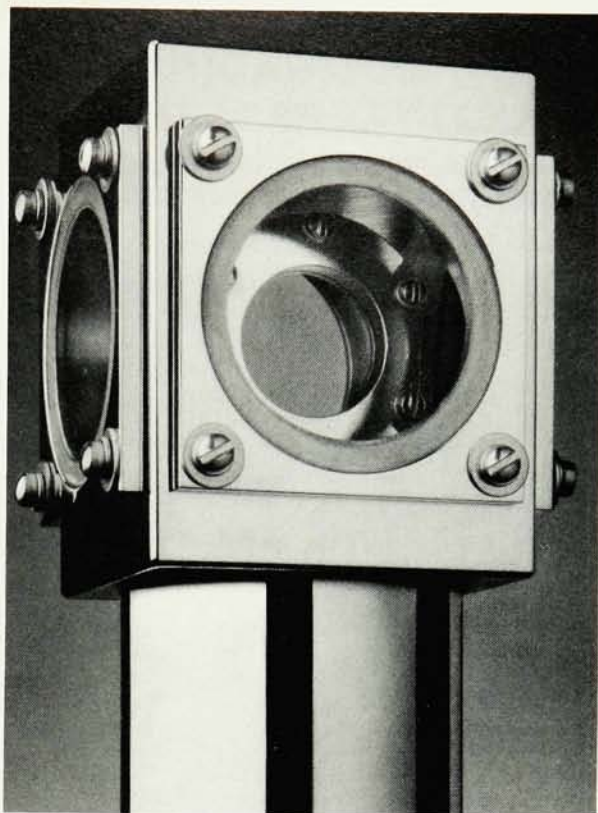
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