

SEPTEMBER 1984

- 3-6 10th Eur Conf on Optical Communication Stuttgart, FRG 1/84
- 3-7 5th Int Conf on Rapidly Quenched Metals Wurzburg, FRG 9/83
- 3-7 Course on Observational and Theoretical Aspects of Relativistic Astrophys and Cosmology Santander, Spain 5/84
- 3-7 Charge Density Waves in Solids Budapest, Hungary 7/84
- 5-11 Int Conf on Multiphoton Processes III Iraklion, Crete, Greece 7/84
- 6-7 2nd Int Conf on Optical Fiber Sensors Stuttgart, FRG 11/83
- 6-7 8th Int Macromolecular Symp: Macromolecules: Interdisciplinary Developments Interlaken, Switz. 1/84
- 6-8 Wksp on Personal Computer and STD Computer Interfacing for Scientific Instrument Automation Washington, DC 5/84
- 9-13 5th ANS/ENS Int Mtg on Thermal Reactor Safety Karlsruhe, FRG 3/84
- 9-13 Applied Superconductivity Conf San Diego, CA 3/84
- 9-15 Wksp on Electricity Germany 5/84
- 10-12 Int Sem on ORC-Tech: New Working Fluids for Energy Eng Alternative Heat Power Processes Zurich, Switz. 11/83
- 10-14 5th Int Symp on Capture Gamma-Ray Spectroscopy and Related Topics Knoxville, TN 3/84
- 10-14 Short Course on Fundamentals and Applications of Lasers Orlando, FL 7/84
- 10-14 2nd Int Workshop on Atomic Physics for Ion Fusion Rutherford Appleton Laboratory, Great Britain 7/84
- 10-14 Stochastic Processes Applied to Physics Santander, Spain 7/84
- 10-14 → Short Course on Modern Surface Spectroscopy Techniques—AES, ESCA, SIMS, UPS Applied to Problems in Materials and Chemistry Univ. of Texas at Austin (Continuing Engineering Studies, Cockrell Hall 2.102, University of Texas at Austin, Austin, TX 78712)
- 10-21 NATO Adv Study Inst in Fundamental Processes in Atomic Collision Physics Palermo, Italy 5/84
- 11-12 Conf on Reliability Aspects: From Devices to Systems Surrey, UK 5/84
- 12-19 6th Int Symp on High Energy Spin Phys Marseille, France 3/84
- 13-14 Kinetics and Mass Transport of Silicate & Oxide Systems London, UK 1/84
- 16-20 5th Top Conf on High Temperature Plasma Diagnostics Tahoe City, CA 5/84
- 17-19 Advances in Reactor Phys and Radiation Protection and Shielding Chicago, IL 3/84
- 17-21 9th Eur Conf on Thermophysical Properties Manchester, UK 7/83
- 17-21 7th Int Conf on Textures of Materials The Netherlands 9/83
- 17-21 Short Course on Modern Surface Spectroscopy Techniques—AES, ESCA, SIMS, UPS Applied to Problems in Materials and Chemistry Austin, TX 3/84
- 17-21 Short Course on Laser Safety: Hazard, Inspection and Control Cincinnati, OH 7/84
- 17-21 Short Course on Tunable Lasers Washington, D. C. 7/84
- 20-21 Wksp on Stopping Power for Low-Energy Ions Linz, Austria 5/84
- 21-24 Int Mtg on Photophysics and Photochemistry above 6 eV Bombannes, France 11/83
- 23-5 Phys and Engineering of Medical Imaging Maratea, Italy 3/84
- 23-5 Adv Course on Physics and Engineering of Medical Imaging Maratea, Italy 7/84
- 24-26 13th Ann Conf N Amer Thermal Analysis Society Philadelphia 7/84
- 24-28 11th Int Symp on Discharges and Electrical Insulation in Vacuum Berlin, GDR 11/83
- 24-28 3rd Latin Am Symp on Surface Phys San Jose, Costa Rica 5/84
- 26-26 NASA Symp on Productivity and Quality Washington, D.C. 7/84
- 25-28 Energy Pulse Modification of Semiconductors and Related Materials Dresden, GDR 11/83

Please note: Complete information is only given in new (→) or revised (●) listings. All other entries end with the date of the PHYSICS TODAY issue containing the following information: date title [sponsor] location (contact) [abstract deadline]

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
IAEA International Atomic Energy Agency

IEEE Institute of Electrical and Electronics Engineers
IOP The 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
NBS 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

OCTOBER 1984

- 1-3 9th Biennial Symp on Turbulence Rolla, MO 5/84
- 2-3 Symp on Optical Fiber Measurements Boulder, CO 3/84
- 2-4 → Short Course on Plasma Etching Palo Alto, CA (S. Broyd, The Continuing Ed. Inst., 10889 Wilshire Blvd., Los Angeles, CA 90024 [213-824-9545])

- 8-12 **108th ASA Mtg** Minneapolis, MN 7/83
- 8-13 **9th Int Cong on Rheology** Aca-pulco, Mex. 7/83
- 9-12 **37th Gaseous Electronics Conf** Boulder, CO 7/83
- 9-12 **16th Ann Mtg Div Planetary Sci-ences AAS** Kailua-Kona, Hawaii 7/84
- 12-13 **Mtg of APS Ohio Sec** Cleveland, OH 5/84
- 15-17 **Wksp on Nuclear Phys with Stored Cooled Beams** Bloomington, IN 11/83
- 15-17 **16th Ann Symp on Optical Materi-als for High Power Lasers** Boulder, CO 5/84
- 16-18 **Symp on Viscoelasticity and Rheology** Madison, WI 5/84
- 18-20 **APS Nuclear Phys Div** Nashville, TN 7/83
- 21-26 **5th Int Mtg on Radiation Process-ing** San Diego, CA 9/83
- 21-27 **Cambridge Symp on Optical and Electro-Optical Engineering** Cam-bridge, MA 5/84
- 22-23 → **The 1984 SRC USERS Group Mtg** Physical Sci. Lab. of the Univ. of Wisconsin-Madison (L. Blackburn, Synchrotron Radiation Ctr., Univ. of Wisconsin-Madison, 3725 Schneider Drive, Stoughton, WI 53589-3098 [608-873-6651]) [9/1/84]
- 22-24 → **Conf on Instrumentation for Heavy Ion Nuclear Research** [Oak Ridge Nat. Lab., Phys. Division] Amer. Museum of Sci. & Eng., Oak Ridge, TN (D. Shapira, Phys. Division, Oak Ridge National Lab., Oak Ridge, TN 37831)
- 22-26 **9th Int Conf on Infrared & Milli-meter Waves** Takarazuka, Osaka, Japan 1/84
- 22-26 **1st Int Conf Exhibition & Work-shop on Text Processing Sys-tems** Dublin, Ireland 5/84
- 25-27 **Mtg of APS Southeastern Sec** Memphis, TN 5/84
- 26-27 **23rd Eastern Theoretical Physics Conf** Univ. Park, PA 7/84
- 28-1 **2nd Int Cong on Computers in Science** Washington, D.C. 7/84
- 29-31 **1984 SERI Photovoltaic R&D 6th Ann Review** Denver, CO 1/84
- 29-31 **Polymer Research at Synchro-tron Light Sources** Brookhaven, NY 7/84
- 29-31 → **Lunar Bases and Space Activities in the 21st Century** National Aca-demy of Sci. Auditorium, Washing-ton, DC (M. B. Duke, NASA John-son Space Ctr., Houston, TX 77058 [713-483-4464]) [9/3/84]
- 29-2 **APS Plasma Phys Div** Boston 7/83
- 29-2 **OSA Ann Mtg** San Diego, CA 7/83
- 30-31 **7th Ann Newport Conf on Fiber-optic Markets** Newport, RI 1/84
- 31-3 **Mtg of APS Div of Particles and Fields** Santa Fe, NM 5/84

NOVEMBER 1984

- 4-10 **Intelligent Robots and Computer Vision Thermosense VII-Int Conf**

on Thermal Infrared Sensing for Diagnostics and Control Cam-bridge, MA 5/84

- 7-9 **Electron Beam Melting and Re-finishing-State of the Art 1984** Reno Nevada 7/84
- 12-14 **8th Conf on the Application of Accelerators in Research and In-dustry** Denton, TX 7/84
- 11-16 **ANS/ENS Int Mtg** Washington, DC 3/84
- 13-15 **Int Conf on the Applications of Lasers and Electro-Optics** Bos-ton, MA 5/84
- 15-17 **Mtg of the Texas Sec of AAPT** Houston, TX 5/84
- 18-20 **APS Fluid Dynamics Mtg** Provi-dence, RI 9/83
- 25-30 **Joint AAPM—Radiological Soc of N Amer Mtg** Washington, DC 9/83
- 26-30 **Fall Mtg of the Materials Re-search Soc** Boston, MA 5/84
- 26-30 → **7th Int Conf on Lasers & Appli-cations** [Soc. of Optical & Quan-tum Electronics] San Francisco (La-sers '84, P.O. Box 245, McLean, VA 22101 [703-241-8909] [6/1/84])
- 27-30 **30th Ann Conf on Magnetism & Magnetic Materials** San Diego, CA 3/84
- 29-1 **Wksp on Composite Models in Particle Phys** Irvine, CA 5/84

DECEMBER 1984

- 3-7 → **Educatec Exhibition for Teaching and Training Equipment, Material and Techniques** Paris (Edit Expo International, 12, rue Leon Cogniet, 75017 Paris, France [(1)622-61-30])
- 4-7 **31st National Vacuum Symp** Reno, NV 9/83
- 4-10 **6th Int Conf on Fracture** New Delhi, India 9/83
- 9-12 → **1984 IEEE Int Electron Devices Mtg** San Francisco (M. M. Wider-kehr, Courtesy Associates, Inc., 655 15th Street, N.W., Suite 300, Wash-ington, D.C. 20005 [7/23/84])
- 11-14 **Phys Expo** Paris 3/84
- 17-21 → **12th Texas Symp of Relativistic Astrophysics** Jerusalem, Israel (M. Livio, Dept. of Physics, Technion, Haifa 32000, Israel)

JANUARY 1985

- 6-11 **7th Int Conf on Positron Annih-ilation** New Delhi, India 5/84
- 7-18 → **Short Course on Optical Science and Engineering** Tucson, AZ (P. N. Slater, Optical Systems & Engi-neering, Short Courses Inc., P.O. Box 18667, Tucson, AZ 85731 [602-885-3798])
- 13-16 **165th AAS Mtg** Tucson, AZ 11/83
- 14-15 • **Symp on Dielectric Phenomena in Honor of the 70th Birthday of**

R. H. Cole Providence, RI (E. F. Greene, Chem. Dept., Brown Univ., Providence, RI 02912; 401-863-1193) note changed date

- 15-18 **Top Mtg on Optical Remote Sensing of the Atmosphere** Lake Tahoe, NV 3/84
- 20-25 → **SPIE 1985 Los Angeles Tech Symp on Optical & Electro-Opti-cal Engineering and Instrument Exhibit** [SPIE] Los Angeles, CA (SPIE, P.O. Box 10, Bellingham, WA 98227-0010 [206-676-3290]) [8/20/84]
- 21-24 **APS/AAPT Gen Mtg** Toronto 9/83

FEBRUARY 1985

- 4-6 **Top Mtg on the Microphys of Surfaces, Beams, and Adsor-bates** Santa Fe, NM 3/84
- 4-8 → **7th NUPP Sum Sch on Nuclear and Particle Phys** Canberra, Aus-tralia (M. P. Fewell, Secretary, NUPP Group, Dept. of Nuclear Phys., Australian Nat. Univ., GPO Box 4, Canberra, ACT 2601 Australia)
- 11-13 **Top Mtg on Optical Fiber Com-munication** [OSA, IEEE] San Diego, CA 11/83
- 11-14 → **Int Symp Polymer 85: Characteri-zation and Analysis of Polymers** [Polymer Div., Royal Australian Chemical Inst.] Melbourne, Australia (Polymer 85, Royal Australian Chemical Inst., 191 Royal Parade, Parkville Victoria 3052, Australia)
- 13-15 → **IEEE Int Solid-State Circuits Conf** New York (L. Winner, 301 Almeria, Coral Gables, FL 33134 [305-446-8193/4]) [9/21/84]
- 24-27 **8th Ann Mtg, The Adhesion Soc** Savannah, GA 7/84
- 24-28 **56th Ann Mtg of SOR** Williams-burg, VA 5/84
- 25-28 **5th Top Conf on Atomic Pro-cesses in High Temperature Plas-mas** Pacific Grove, CA 5/84

MARCH 1985

- 7-9 **Mtg of Texas Sec of AAPT** 5/84
- 13-15 → **Top Mt on Picosecond Electron-ics and Optoelectronics** [IEEE, OSA] Incline Village, Nevada (OSA, Picosecond Electronics & Optoelec-tronics Meeting, 1816 Jefferson Place, N.W., Washington, D.C. 20036) [11/9/84]
- 18-20 **Top Mtg on Optical Computing** Lake Tahoe, NV 3/84
- 18-21 **Conf on Antinucleon and Nu-cleon-Nucleus Interactions** Tellu-ride, Colorado 7/84
- 18-25 **Int Rare Earth Conf: Materials and Chem** Zurich, Switz. 3/84
- 19-20 **Top Mtg on Non-Invasive As-sessment of Visual Function** Lake Tahoe, NV 3/84
- 20-22 **Top Mtg on Machine Vision** Lake Tahoe, NV 7/84
- 25-27 → **4th Oxford Conf on Microscopy of Semiconducting Materials** [Royal Microscopical Society: UK Institute of Physics] Oxford, UK (Dr.

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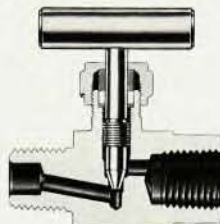
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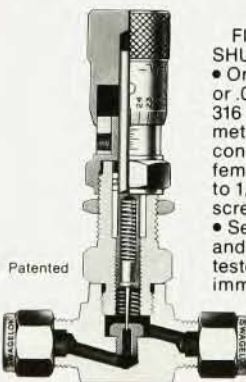


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PHYSICS TODAY / SEPTEMBER 1984

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Accelerator Scientists/Engineers

Argonne National Laboratory has several employment opportunities at various levels in particle accelerator theory, design and technology. The Laboratory is seeking talented persons who can participate in and contribute to its ongoing programs as well as new initiatives. Sample activities include:

- **Accelerator Design**—for future accelerator-based facilities such as high-flux spallation neutron sources, high-energy synchrotron light sources, and proton synchrotrons. Emphasis is on beam dynamics/optics and on accelerator hardware design.
- **Stochastic Cooling**—to develop concepts and technology for beam cooling and active beam control. Cooling theory and hardware for advanced systems are emphasized.
- **Advanced Acceleration Techniques**—to investigate new methods of particle acceleration such as wake-fields, laser fields, etc. Experimental and theoretical opportunities exist.

Applicants should have a PhD or equivalent experience in physics or engineering. Salary and position will be commensurate with experience and qualifications. Entry levels have been established as:

- 2-year appointments for individuals with no previous accelerator experience who desire to train in the field
- 5-year fellowships for individuals with some previous accelerator experience
- Regular staff positions for individuals with extensive accelerator experience/expertise

For confidential consideration, please send resume to: Appointments Officer, Walter D. McFall, Argonne National Laboratory, Box ACP-51, 9700 South Cass Avenue, Argonne, IL 60439, or telephone Dr. James D. Simpson, (312) 972-6587



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A. G. Cullis, R.S.R.E., St. Andrews Road, Malvern, Worcs. WR14 3PS, UK) [12/1/84]

25-28 **Symp on Semiclassical Descriptions of Atomic and Nuclear Collisions** Copenhagen, Denmark 5/84

25-29 **APS Gen Mtg** Baltimore 11/83

APRIL 1985

8-12 **109th Ann Mtg of ASA** Austin, TX 11/83

15-18 → **2nd Spring Mtg of the Materials Research Society** San Francisco (J. B. Ballance, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237 [412-367-3003])

15-19 → **2nd Eur Conf on Atomic and Molecular Phys** Amsterdam (L. Roos, FOM-Institute for Atomic & Molecular Physics, Kruislaan 407, 1098 SJ, Amsterdam, The Netherlands) [12/15/84]

22-26 **14th Int Symp on Acoustical Imaging** The Hague, The Netherlands 11/83

25-27 **APS Spring Mtg** Washington, DC 11/83

MAY 1985

13-17 **Int Conf on Nuclear Data for Basic and Applied Sci** Los Alamos, NM 1/84

21-24 **Conf on Lasers and Electro Optics [OSA, IEEE]** Baltimore 11/83

23-28 **AAAS Ann Mtg** Los Angeles 11/83

24-6 **Conf on Determination & Interpretation of Small Structural Differences** Erice, Italy 1/84

JUNE 1985

9-12 **166th Mtg of AAS** Charlottesville, VA 5/84

9-14 **ANS Ann Mtg** Boston, MA 3/84

10-12 → **IEEE 5th Pulsed Power Conf** Washington, DC (M. F. Rose, Conference Chairman, NSWC/F04, Dahlgren, VA 22443)

10-14 **2nd Int Conf on Nucleus-Nucleus Collisions** Sweden 5/84

16-20 **Symp on Foundations of Modern Physics: 50 years of the Einstein-Podolsky-Rosen Gedankenexperiment** University of Joensuu, Finland 7/84

16-30 → **Spectroscopy of Solid State Laser-Type Materials** Erice, Italy (B. Di Bartolo, Dept. of Phys., Boston College, Chestnut Hill, MA 02167)

17-21 **AAPT Mtg** Flagstaff, AZ 11/83

19-21 **4th Int Conf on the Numerical Analysis of Semiconductor Devices and Integrated Circuits** Dublin, Ireland 5/84

20-5 → **3rd Wksp on Nonlinear Evolution Equations and Dynamical Systems** [N.R.C. Athens, U. Crete, U. Lecce, U. Rome] Baia Verde, Gallipoli (Italy) (M. Boiti, Dipartimento

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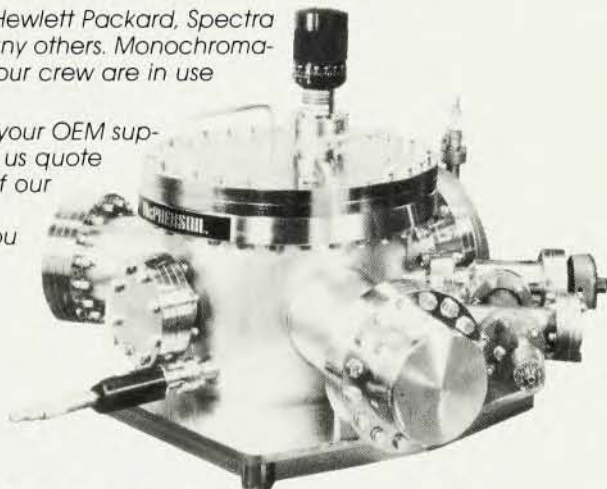
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- 24-27 → **9th Symp on Thermophys Properties** [NBS] Boulder, CO (H. J. M. Hanley, NBS, 773-2, Boulder, CO 80303; 303-497-3320) [12/1/84]
- 24-28 **7th Int Conf on Laser Spectroscopy** Maui, Hawaii 7/84
- 24-29 **Int Conf on Fourier and Computerized Infrared Spectroscopy** Ottawa, Ontario 5/84
- 24-6 **Sum Sch on Theory of Nuclear Structure and Reactions** La Rabida, Spain 5/84

JULY 1985

- 1-4 **2nd Int Conf on Langmuir-Blodgett Films** Schenectady, NY 7/84
- 1-6 **11th Europhysics Conf on Intermediate Energy Nuclear Physics with Electromagnetic Probes** Paris 7/84
- 8-12 → **17th Int Conf on Phenomena in Ionized Glass** Budapest (Dr. I. Abonyi, Roland Eötvös Physical Society, 1368 Budapest, P.O. Box 240, Anker köz 1-3) [2/1/85]
- 14-19 **Conf on the Dynamics of Molecular Collisions** Snowbird, UT 1/84
- 15-19 **8th Int Symp on Detonation** Albuquerque, NM 7/84
- 18-28 → **5th Int School for Intermediate Energy Nuclear Physics** Venice, Italy (C. Schaerf, Dipartimento di Fisica, Università di Roma 'La Sapienza', 00185-Rome, Italy)
- 22-25 **1985 Int Symp on Microwave Technology in Industrial Development** Campinas, Brazil 7/84
- 23-25 **Phys Interactions and Energy Exchange at the Gas-Solid Interface** Hamilton, Ontario, Can. 3/84
- 24-30 **14th Int Conf on Phys of Electronic and Atomic Collisions** Palo Alto, CA 3/84

AUGUST 1985

- 4-8 • **4th Top Mtg on Photoacoustic, Thermal and Related Sciences** Quebec, Canada (L. Bertrand, Département de génie physique, Ecole Polytechnique, Campus de l'Université de Montreal, P.O. Box 6079, Succursale "A", Montreal, Canada H3C 3A7 [514-344-4732]) **note changed date**
- 4-9 **10th Int Colloq Dynamics of Explosions and Reactive Systems** Berkeley, CA 7/84
- 11-15 **27th Ann Mtg of AAPM** Seattle, WA 11/83
- 26-30 **Int Conf on Magnetism** San Francisco, CA 5/84
- 26-30 **6th Int Symp Polarization Phenomena in Nuclear Physics** Isaka 7/84
- 26-3 **Course and Wksp on Basic Physical Processes in Fusion Plasmas** Varenna, Italy 3/84

SEPTEMBER 1985

- 2-5 **Biennial Conf of IOP Microscopy and Analysis Group** Newcastle upon Tyne, UK 5/84 ☐