

CALENDAR

JANUARY 1991

- 20-25 **Optics, Electro-Optics and Laser Apps in Sci and Eng** Los Angeles, CA *See issue: 3/90*
- 20-26 **Aspen Winter Conf on Recent Advances in Physical Cosmology** Aspen, CO *See issue: 11/90*
- 21-24 **AAPT/APS Annl Joint Mtg** San Antonio, TX *See issue: 3/90*
- 21-25 **Gordon Rsch Conf on Electrochemistry** Ventura, CA *Contact: A. M. Cruickshank [Tel. (401) 783-4011] Gordon Rsch Conferences, Gordon Rsch Ctr, Univ of Rhode Island, Kingston, RI 02881-0801*
- 23-25 **CD-ROM Tech** Los Angeles, CA *See issue: 11/90*
- 27-2 **7th Winter Wksp on Nuclear Dynamics** Key West, FL *See issue: 9/90*
- 27-3 **Electromagnetic Interactions of Hadrons at Intermediate Energies** Folgoria, Italy *Contact: Carlo Schaerf [Tel. (39-6) 7979-4561] Dept of Phys, II University of Rome, Via E. Carnevale, I-00173 Rome, Italy*
- 29-1 **Phys and Chem of Semiconductor Interfaces** Long Beach, CA *See issue: 7/90*
- 30-31 **Wksp on Silicon Materials for Mega-IC Apps** New Orleans, LA *Contact: Howard Huff [Tel. (512) 356-3516] Sematech, 2706 Montopolis Dr, Austin, TX 78741*
- 30-1 **Western Spectroscopy Assoc Conf** Pacific Grove, CA *Contact: Stephen Agnew, WSA Scry, INC-4, C345, Los Alamos Natl Lab, Los Alamos, NM 87545*

FEBRUARY 1991

- 3-6 **Intl Conf on Disordered Materials (Structure and Properties)** Indore, India *Contact: S. K. Srivastava [Tel. 0091-731-63518] School of Phys, D. A. Univ, Indore-452 001, India*
- 4-6 **Intl Topical Conf on Rsch Trends in Inertial Confinement Fusion** La Jolla, CA *See issue: 9/90*
- 4-7 **OSA Topical Mtg on Noninvasive Assessment of the Visual System** Santa Fe, NM *See issue: 11/90*
- 5-6 **Parallel Methods on Large-Scale Structural Analysis and Phys Apps** Hampton, VA *See issue: 3/90*
- 6-8 **OSA Topical Mtg on Ophthalmic and Visual Science** Santa Fe, NM *See issue: 11/90*
- 11-13 **OSA Topical Mtg on Microphysics of Surfaces: Beam-Induced Processes** Santa Fe, NM *See issue: 11/90*
- 11-13 **Intl Topical Conf on Rsch Trends in Coherent Radiation Generation and Particle Accelerators** La Jolla, CA *See issue: 9/90*
- 14-19 **AAAS Ann Mtg** Washington, DC *See issue: 11/90*
- 17-20 **14th Ann Mtg of the Adhesion Soc** Clearwater, FL *See issue: 7/90*

17-23 **6th Lake Louise Winter Inst: Particle Phys—the Factory Era** Lake Louise, Canada *See issue: 3/90*

18-20 **Intl Topical Conf on Chaotic Dynamics and Transport in Fluids and Plasmas** La Jolla, CA *See issue: 9/90*

18-22 **Optical Fiber Communication Conf** San Diego, CA *See issue: 7/90*

- 22-23 **New Trends in Neutron Scattering** Chalk River, Ontario, Canada *Contact: B. M. Powell [Tel. (613) 584-3311] Chalk River Nuclear Labs, Chalk River, ON K0J 1J0, Canada*

22-23 **Southeastern Light Sources Mtg** Newport News, VA *See issue: 11/90*

- 24-1 **SPIE-SPSE Symp on Electronic Imaging Sci and Tech** San Jose, CA *Contact: Conf Manager, The Soc for Imaging Sci and Tech [Tel. (703) 642-9090] 7003 Kilworth Ln, Springfield, VA 22151*

- 24-1 **Future Directions for Lasers in Medicine and Surgery II** Palm Coast, FL *Contact: The Engineering Foundation [Tel. (212) 705-7835] United Engineering Trustees Inc, 345 E 47th St, New York, NY 10017*

- 25-1 **Gordon Rsch Conf on Superconductivity** Ventura, CA *Contact: A. M. Cruickshank [Tel. (401) 783-4011] Gordon Rsch Conferences, Gordon Rsch Ctr, Univ of Rhode Island, Kingston, RI 02881-0801*

25-27 **Topical Mtg on Optical Data Storage** Colorado Springs, CO *See issue: 11/90*

25-27 **Intl Topical Conf on Rsch Trends in Nonlinear Space Plasma Phys** La Jolla, CA *See issue: 9/90*

28-1 **Materials in Washington** Washington, DC *See issue: 11/90*

MARCH 1991

3-8 **Symp on Microlithography** San Jose, CA *See issue: 3/90*

4-6 **OSA Topical Mtg on Optical Computing** Salt Lake City, UT *See issue: 11/90*

- 4-8 **Gordon Rsch Conf on Structures, Energetics and Reaction Dynamics of Gaseous Ions** Ventura, CA *Contact: A. M. Cruickshank [Tel. (401) 783-4011] Gordon Rsch Conferences, Gordon Rsch Ctr, Univ of Rhode Island, Kingston, RI 02881-0801*

4-8 **Pittsburgh Conf and Exposition on Analytical Chem and Appl Spectroscopy** Chicago, IL *See issue: 11/90*

6-8 **Topical Mtg on Photonic Switching** Salt Lake City, UT *See issue: 11/90*

- 10-17 **European Conf on Liquid Crystals** Courmayeur, Valle d'Aosta, Italy *Contact: M. P. Fontana, ECLC '91, c/o TECDIS S. p. A. 41, rue de la Gare, 11024 Châtillon, Valle d'Aosta, Italy*

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	NIST	National Institute of Standards and Technology
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		

11-13 Topical Meeting on Quantum Optoelectronics Salt Lake City, UT *See issue: 11/90*

● **11-14 Scientific Results from Photoelectric Photometry with Small Telescopes** Las Vegas, NV *Contact: Diane Pyper Smith [Tel. (702) 739-3563] Univ of Nevada, Las Vegas, Dept of Phys, Las Vegas, NV 89154*

● **11-15 Intl Conf on Spin and Isospin in Nuclear Interactions** Telluride, CO *Contact: S. W. Wissink [Tel. (812) 855-9365] Indiana Univ Cyclotron Facility, 2401 Milo B. Sampson Ln, Bloomington, IN 47405*

● **11-15 Course on Optics for Scientists and Engineers** Santa Fe, NM *Contact: Engineering Tech Inst [Tel. (800) 367-4238] PO Box 8859, Waco, TX 76714-8859*

12-13 Natl Radar Conf: Impact of Microelectronics on Radar Systems Los Angeles, CA *See issue: 5/90*

● **13-15 Course on Plasma Etching** Monterey, CA *Contact: University Consortium for Continuing Education [Tel. (818) 995-6335] 16161 Ventura Blvd, M/S C-752, Encino, CA 91436*

13-15 Topical Mtg on Picosecond Electronics and Optoelectronics Salt Lake City, UT *See issue: 11/90*

14-16 1st European Powder Diffraction Conf Munich, FRG *See issue: 5/90*

● **17-22 High-Speed/High-Frequency Optoelectronics** Palm Coast, FL *Contact: Lester F. Eastman [Tel. (607) 255-4369] Cornell Univ, 425 Phillips Hall, Ithaca, NY 14853-5401*

17-22 Ann Technical Conf of the Soc of Vacuum Coaters Philadelphia, PA *See issue: 11/90*

● **18-20 Advanced Solid-State Lasers Topical Mtg** Hilton Head, SC *Contact: OSA Meetings Dept [Tel. (202) 416-1980] 2010 Massachusetts Ave NW, Washington, DC 20036 [13 Nov 90]*

18-20 IEEE Intl Conf on Microelectronic Test Structures Kyoto, Japan *See issue: 7/90*

● **18-21 Intl Wksp on the Measurement and Characterization of Ultra-Shallow Doping Profiles in Semiconductors** Research Triangle Park, NC *Contact: Carlton Osburn [Tel. (919) 248-1924] MCNC, Ctr for Microelectronics, North Carolina State Univ, PO Box 12889, 3021 Cornwallis Rd, Research Triangle Park, NC 27709*

18-22 Nondestructive Characterization for Advanced Technologies Oakland, CA *See issue: 11/90*

18-22 22nd Ann Lunar and Planetary Sci Conf Houston, TX *See issue: 9/90*

18-22 APS March Mtg Cincinnati, OH *See issue: 9/89*

25-27 Models of Non-Classical Chemical-Reaction Rates Bethesda, MD *See issue: 7/90*

25-28 7th Oxford Conf on Microscopy of Semiconducting Materials Oxford, UK *See issue: 9/90*

● **25-29 Wksp on the Relationship Between Active Galactic Nuclei and Starburst Galaxies** Taipei, Taiwan *Contact: Alex Filippenko, UC Berkeley, Dept of Astron, Berkeley, CA 94720*

27-5 Winter School on Cosmology and Elementary Particles Río Piedras, Puerto Rico *See issue: 11/90*

APRIL 1991

1-5 Tech Symp on Optics, Electro-Optics and Sensors Orlando, FL *See issue: 3/90*

2-12 Spontaneous Formation of Space-Time Structures and Criticality Geilo, Norway *See issue: 11/90*

● **3-4 27th Ann Mtg of the Natl Council on Radiation Protection and Measurements** Washington, DC *Contact: NCRP, 7910 Woodmont Ave, Suite 800, Bethesda, MD 20814*

3-5 3rd Symp on Integrated Ferroelectrics Colorado Springs, CO *See issue: 11/90*

3-5 19th Intl Symp on Acoustical Imaging Bochum, FRG *See issue: 5/90*

● **4-6 Mtg of AAS Division on Dynamical Astron** Coconut Grove, FL *Contact: Tim Carroll [Tel. (305) 235-0515] US Naval Observatory, 11820 SW 166th St, Miami, FL 33177*

4-6 Chautauqua Course on Dynamical Systems: Chaos, Fractals and Catastrophes Stony Brook, NY *See issue: 11/90*



Color video images from inside vacuum chambers

- As low as 10^{-9} torrs
- Magnified images
- Focus from close-up to infinity
- Couple to any C-Mount video camera
- In-situ spectroscopy
- Image enhancement and analysis
- White light, strobe, UV, infrared, laser frequencies

Flexible fiberoptic and rigid borescopes are unique optical instruments that let you see sharp, clear, color video images of events inside vacuum chambers and document them on video tape. All Olympus vacuum scopes need for penetration is a minimum of $2\frac{3}{4}$ inch flange.

Observe close-up magnified semiconductor wafers during processing, position objects under SEM observation, investigate new aspects of in-situ spectroscopy, and a host of other scientific tasks.

Illuminate the site with a wide range of light frequencies carried by the fiberoptic light guide system. Study motion with stroboscopic illumination. Enhance images with Olympus software.

For more information call or write:

Olympus Corporation,
Industrial Fiberoptics Division
4 Nevada Drive
Lake Success, N.Y. 11042-1179
Tel: 516-488-5888, 800-446-5260
FAX: 516-488-3973

OLYMPUS
INDUSTRIAL

Circle number 51 on Reader Service Card

CALENDAR

- 7-11 **32nd Experimental NMR Conf** St. Louis, MO *See issue: 11/90*
- 8-9 **OSA Topical Mtg on Gradient Index Optical Systems** Monterey, CA *See issue: 11/90*
- 8-10 **OSA Topical Mtg on Short Wavelength Coherent Radiation: Generation and App** Monterey, CA *Contact: OSA Meetings Dept [Tel. (202) 416-1980] 2010 Massachusetts Ave NW, Washington, DC 20036 [17 Dec 90] Note revised closing date*
- 8-10 **Chautauqua Course on Historical Consideration as a Tool in Teaching Modern Science** Stony Brook, NY *See issue: 11/90*
- 8-11 **Global Warming—A Call for International Coordination** Chicago, IL *See issue: 11/90*
- 8-12 **7th Intl Conf on the Numerical Analysis of Semiconductor Devices and Integrated Circuits** Copper Mountain, CO *See issue: 7/90*
- 8-12 **Ann Mtg of the Eur Phys Soc Condensed Matter Div** Devon, UK *See issue: 3/90*
- 9-11 **Mtg of AAS Solar Phys Division** Huntsville, AL *Contact: D. Hathaway, NASA/Marshall Space Flight Ctr [Tel. (205) 544-7581] Huntsville, AL 35812*
- 9-11 **Topical Mtg on Integrated Photonics Rsch** Monterey, CA *Contact: OSA Meetings Dept [Tel. (202) 416-1980] 2010 Massachusetts Ave NW, Washington, DC 20036 [27 Nov 90] Note revised closing date*
- 10-12 **OSA Topical Mtg on Soft X-Ray Projection Lithography** Monterey, CA *See issue: 11/90*
- 10-12 **Scanning Microscopy Conf** Atlantic City, NJ *See issue: 9/90*
- 12-13 **Modeling Complex Phenomena** San Jose, CA *See issue: 11/90*
- 15-17 **Frontiers of Tribology** Stratford Upon Avon, UK *See issue: 9/89*
- 16-19 **Intl Conf on Lightning and Static Electricity** Cocoa Beach, FL *See issue: 11/90*
- 17-19 **Course on Plasma Etching** Washington, DC *Contact: University Consortium for Continuing Education [Tel. (818) 995-6335] 16161 Ventura Blvd, M/S C-752, Encino, CA 91436*
- 21-24 **6th European Conf on Molecular-Beam Epitaxy and Related Growth Methods** Tampere, Finland *See issue: 5/90*
- 22-24 **3rd ESO/ST-ECF Data Analysis Wksp** Garching, FRG *Contact: Sctry of Image Processing Group [EARN: DAW@DGAES051. SPAN: ESO::DAW] ESO, Karl-Schwarzschild-Strasse 2, D-8046 Garching, FRG*
- 22-25 **APS Spring Mtg** Washington, DC *See issue: 7/90*
- 22-26 **XVI Genl Assembly of the Eur Geophys Soc** Wiesbaden, FRG *See issue: 3/90*
- 25-27 **Chautauqua Course on Origins of the Solar System** Stony Brook, NY *See issue: 11/90*
- 28-3 **121st Mtg ASA** Baltimore, MD *See issue: 3/90*
- 29-3 **Instruments Soc of Amer Spring Symp** Edmonton, Alberta, Canada *Contact: Ian Verhappen [Tel. (403) 790-*

7917] PO Box 41035, 200 Petrolia Post Office, Edmonton, Alberta T6J 6M7, Canada

29-3 **MRS Spring Mtg** Anaheim, CA *See issue: 7/90*

29-4 **Intl Wksp on Methods of Structure Analysis of Modulated Structures and Quasi-Crystals** Lekeitio-Bilbao, Spain *See issue: 9/90*

MAY 1991

- 1-3 **Intl Symp on Analogies in Optics and Microelectronics** Eindhoven, The

Netherlands *Contact: W. Van Haeringen [Tel. 31 40 47 4288] Phys Dept, Eindhoven Univ of Tech, PO Box 513, 5600 MB Eindhoven, The Netherlands Note revised starting date*

2-3 **22nd Ann Pittsburgh Conf on Modeling and Simulation** Pittsburgh, PA *See issue: 11/90*

2-4 **Chautauqua Course on Teaching Introductory Physics—Current Situation and Modern Perspectives** Stony Brook, NY *See issue: 11/90*

5-11 **3rd Eur Conf on Crystal Growth** Budapest, Hungary *See issue: 9/89*



**EVEN THIS
WON'T GET
THEIR LOCK-IN
INTO YOUR
P.C.**

OURS JUST PLUGS IN

The ITHACO Model 3981 board level lock-in is a low cost, dual phase instrument. You can simply plug up to 4 of them into your PC. They are self-calibrating for drift-free long term accuracy—not dependent on trim pots, EEPROMS or battery-backed RAM. The 3981 comes complete with fast, efficient driver software and a highly flexible user program which includes error band computation, signal averaging and spreadsheet compatible, data storage disk. The units accept voltage, current and ADC inputs. Auxiliary PSD dc outputs are provided.

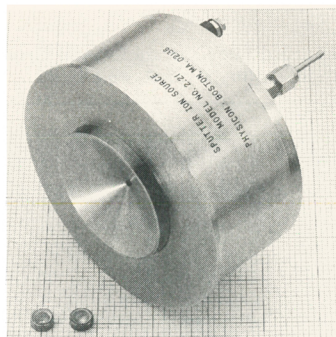
They are perfect for OEM systems and test fixtures. Powerful analysis features also make them well suited for the research lab.

Call for more details and application data.
1-800-847-2080
(NY Residents call 607-272-7640)
ITHACO, Inc.
735 West Clinton St.
PO Box 6437
Ithaca, NY, 14851-6437
FAX: 607-272-4550

ITHACO

Circle number 52 on Reader Service Card

Focused Ion Sources and Beam Systems



Cold cathode ion source CC2.21 for solid samples and gases including reactive gases: Metals from Al to W, alloys and compounds. Forms single and higher charged ions, and can form mixed ion beams.

High current Duoplasmatron ion source DP10 for gases, high brightness, analyzed currents of 100 μ A or much more, differentially pumped, air-cooled.

Compact Duoplasmatron ion source DPQ-100 for gases. Cold cathode operates with many gases. Permanent magnets, compact design, 2 3/4 inch mounting flange.

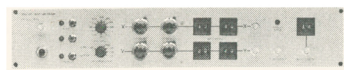
Full systems or components. UHV compatible.

Lenses for extraction, transport and focus, complete with housing for UHV.

Variable deceleration lens DPQ-505 for decelerating ion beams with projection to the target. 2-stage unit for fixed and variable voltage ratios.

ExB filter DPQ-522 with stigmatic focusing. Short length unit with high transmission.

XY Raster Scanner RS1200: Dual ramp unit for beam steering, line scans, rasters from dc to near video and video, with amplifier RS1224 for 0–600V on 4 separate outputs.



PHYSICON Corporation
221 Mount Auburn Street
Boston MA 02138 USA
Phone and FAX: 617 491-7997

Circle number 53 on Reader Service Card

6–9 Particle Accel Conf San Francisco, CA *See issue: 9/89*

6–10 3rd Intl Conf on the Formation of Semiconductor Interfaces Rome, Italy *See issue: 7/90*

12–17 44th Ann Conf of the Soc for Imaging Sci and Tech St Paul, MN *See issue: 9/90*

13–17 Conf on Lasers and Electro-optics; Quantum Electronics and Laser Sci Conf Baltimore, MD *See issue: 9/90*

● **20–22 Recent Advances in Underwater Acoustics** Weymouth, England *Contact: G. W. Neal, Marconi Underwater Systems Ltd, Leanne House, Avon Close, Granby Estate, Weymouth, Dorset, DT4 9UX, UK*

● **20–24 Intl Symp on Nanostructures and Mesoscopic Systems** Santa Fe, NM *Contact: Mary J. Wilkening, NMS Symposium Sctry, Nanofab Ctr, Eng/Phys Bldg, Texas A&M Univ, College Station, TX 77843-4242 [1 Mar 91]*

20–24 Short Course on X-Ray Powder Diffractometry and Spectrometry Austin, TX *See issue: 7/90*

● **20–25 Strings and Symmetries 1991** Stony Brook, NY *Contact: Inst for Theoretical Phys [Tel. (516) 632-7972] State Univ of New York at Stony Brook, Stony Brook, NY 11794-3840*

● **21–24 8th Intl Conf on Ion- and Plasma-Assisted Techniques** Brussels, Belgium *Contact: IPAT Secretariat [Tel. 031-557-2478] CEP Consultants Ltd, 26-28 Albany St, Edinburgh EH1 3QH, UK [16 Nov 90]*

21–25 10th Intl Conf on Solid Compounds of Transition Elements Münster, FRG *See issue: 9/90*

● **22–24 13th Intl Conf on Advances in Stabilization and Controlled Degradation of Polymers** Lucerne, Switzerland *Contact: A. V. Patsis, Materials Lab, CSB 209, State Univ of New York, New Paltz, NY 12561*

● **22–27 Intl Space Development Conf** San Antonio, TX *Contact: Carol Redfield [Tel. (512) 522-3823] Southwest Rsch Inst, Bldg 68, div 5, 6220 Culebra Rd, San Antonio, TX 78228*

26–30 178th Mtg AAS Seattle, WA *See issue: 3/90*

● **26–1 Wksp on Electromechanical Coupling of the Solar Atmosphere** Capri, Italy *Contact: D. Spicer, NASA/Goddard Space Flight Ctr [Tel. (301) 286-8701] Lab for Astron and Solar Phys, Code 680, Greenbelt, MD 20771*

● **28–31 Intl Symp on Electron, Ion and Photon Beams** Seattle, WA *Contact: D. R. Ehrlich, MIT Lincoln Lab, Lexington, MA 02139*

● **28–31 NATO Wksp on Computation of Transport Properties in the Dilute Gas Region** Porto Carras, Greece *Contact: V. Vesovic [Fax: 071-584-1170] Chem Eng, Imperial College, London SW7, UK*

28–1 AGU Spring Mtg Baltimore, MD *See issue: 3/90*

● **29–31 45th Ann Symp on Frequency Control** Los Angeles, CA *Contact: Ann Symp on Frequency Control, PO Box 826, Belmar, NJ 07719 [14 Jan 91]*

JUNE 1991

2–4 Conf on Plasma Sci Williamsburg, VA *See issue: 9/89*

2–6 Ann Mtg of the Amer Nuclear Soc Orlando, FL *See issue: 7/90*

2–29 4th Ann Complex Systems Summer School Santa Fe, NM *See issue: 11/90*

● **3–7 Intensive Course on Electrical Contacts** Raleigh, NC *Contact: IEEE Holm Conf Registrar [Tel. (908) 562-3863] 445 Hoef Ln, PO Box 1331, Piscataway, NJ 08855-1331*

● **3–7 Phys of Active Galactic Nuclei** Heidelberg, Germany *Contact: AGN Conference [Tel. 6221-5090] Landessternwarte, Königstuhl, D-6900 Heidelberg, Germany*

3–7 18th Eur Conf on Controlled Fusion and Plasma Phys Berlin, Germany (GDR) *See issue: 3/90*

● **4–14 31st Cracow School of Theoretical Phys: Particle Phys at High Energy** Zakopane, Poland *Contact: W. Słomiński, Inst of Phys, Jagellonian Univ, ul. Reymonta 4, 30-059 Kraków, Poland*

10–14 Chapman Conf on Continental Isotopic Indicators of Climate Jackson Hole, WY *See issue: 11/90*

10–14 Image Understanding for Aerospace Apps, Optical Space Communication Munich, FRG *See issue: 9/90*

10–14 4th Intl Conf on Nucleus-Nucleus Collisions Kanazawa, Japan *See issue: 7/90*

10–14 5th Intl Symp on Radiation Phys Dubrovnik, Yugoslavia *See issue: 3/90*

● **10–28 Aspen Astrophys Wksp on the Phys of Galaxy Formation** Aspen, CO *Contact: D. DeYoung [Tel. (602) 325-9324] Kitt Peak Natl Observatory, Box 26732, Tucson, AZ 85726*

● **11–13 Colorimetry: An Intensive Short Course for Scientists and Engineers** Rochester, NY *Contact: Colleen McCabe [Tel. (716) 475-7189] Munsell Color Sci Lab, Rochester Inst of Tech, Chester F. Carlson Ctr for Imaging Sci, PO Box 9887, Rochester, NY 14623-0887*

11–14 Principles of Microlithography Rochester, NY *See issue: 11/90*

11–14 Cryogenic Eng Conf and Intl Cryogenic Materials Conf Huntsville, AL *See issue: 11/90*

● **11–21 NATO Advanced Study Inst on Structure and Dynamics of Supramolecular Aggregates and Strongly Interacting Colloids** Acquafredda di Maratea, Italy *Contact: S. H. Chen [Tel. (617) 253-3810] Dept of Nuclear Eng, MIT, Cambridge, MA 02139*

12–15 Dynamics Days Berlin, Germany *See issue: 11/90*

13–17 Infrared Astron and the ISO Mission Les Houches, France *See issue: 11/90*

16–21 6th Intl Conf on Emerging Nuclear Energy Systems Monterey, CA *See issue: 7/90*

16–29 NATO Adv Study Inst: The Sun—Laboratory for Astrophysics Crieff, Scotland *See issue: 11/90*

16–30 NATO Adv Study Inst on Optical Properties of Excited States in Solids Erice, Italy *See issue: 11/90*

- **18-21 Magnetism and Magnetic Materials-Intermag, 5th Joint Conf** Pittsburgh, PA *Contact:* Diane Suiters [Tel. (202) 639-5088] 5th Joint MMM-Intermag Conf, 655 15th St NW, Suite 300, Washington, DC 20005
- 18-29 NATO Adv Study Inst on Flow and Dynamic Modeling of the Earth and Planets** Fairbanks, AK *See issue:* 11/90
- **19-21 Recent Advances in the Uses of Light in Phys, Chem and Medicine** New York, NY *Contact:* Ronald H. Brown, Ctr for Analysis of Structures and Interfaces [Tel. (212) 650-6953] Dept of Chem, The City College of New York, 138th and Convent Ave, New York, NY 10031
- 19-29 7th Wksp on Nonlinear Evolution Equations and Dynamical Systems** Gallipoli, Italy *See issue:* 11/90
- **21-23 Robotic Telescopes in the 1990s** Laramie, WY *Contact:* Alex Filipenko, UC Berkeley, Dept of Astron, Berkeley, CA 94720
- **21-27 103rd Ann Mtg of the Astron Soc of the Pacific** Laramie, WY *Contact:* Wyoming Mtg Info [Tel. (415) 337-1100] ASP, 390 Ashton Ave, San Francisco, CA 94112
- **22-28 Course on Advanced Techniques in Magnetic-Resonance Imaging** Kiawah Island, SC *Contact:* G. Allan Johnson [Tel. (919) 660-2711 ext. 4354] Dept of Radiology, Box 3302, Duke Univ Medical Ctr, Durham, NC 27710
- 23-28 Intl Conf on Metals in Solution** Aussois, France *See issue:* 11/90
- 23-29 6th Marcel Grossmann Mtg on General Relativity** Kyoto, Japan *See issue:* 11/90
- 24-28 Cambridge Wksp in Theoretical Geoplasma Phys—Nonlinear Phenomena and Active Experiments** Cambridge, MA *See issue:* 11/90
- 24-28 Intl Conf on Asteroids, Comets and Meteors** Flagstaff, AZ *See issue:* 7/90
- 24-28 Real-Time Computer Apps in Nuclear, Particle and Plasma Phys** FRG *See issue:* 9/90
- 24-29 AAPT Summer Mtg** Vancouver, BC, Canada *See issue:* 7/90
- 25-27 Intl Superconductive Electronics Conf** Glasgow, Scotland *See issue:* 7/90
- 25-28 2nd Intl Conf on Surface X-Ray and Neutron Scattering** Bad Honnef, Germany *See issue:* 11/90

JULY 1991

- 1-4 Ultrasonics Intl '91** Le Touquet, France *See issue:* 9/90
- **8-11 OSA Coherent Laser Radar Topical Mtg** Snowmass, CO *Contact:* OSA Meetings Dept [Tel. (202) 416-1980] 2010 Massachusetts Ave NW, Washington, DC 20036 [10 Mar 91]
- **8-11 6th Intl Wksp on Critical Currents** Cambridge, UK *Contact:* The Conference Organiser [Tel. (0223) 332712] The Cambridge Programme, The Dept of Engineering, Univ of Cambridge, Trumpington Street, Cambridge CB2 1PZ, UK [Mar 91]
- **8-12 Rsch Amateur Astron Symp** La Paz, Baja California Sur, Mexico *Contact:* Steve Edberg, Jet Propulsion Lab,

Mail Stop 169-237, 4800 Oak Grove Dr, Pasadena, CA 91109

8-12 Intl Conf on Phenomena in Ionized Gases Barga, Italy *See issue:* 9/90

8-12 9th Intl Conf on Electronic Properties of Two-Dimensional Systems Nara, Japan *See issue:* 9/90

● **14-16 Natl Conf on Noise Control Eng** Tarrytown, NY *Contact:* Noise-Con 91 Conf Secretariat [Tel. (914) 462-4006] PO Box 2469 Arlington Branch, Poughkeepsie, NY 12603

14-19 19th Rare Earth Rsch Conf Lexington, KY *See issue:* 7/90

14-20 4th Intl Conf on Synchrotron Radiation Instrumentation Chester, UK *See issue:* 5/90

● **15-19 Chaos, Resonance and Collective Dynamical Phenomena in the Solar System** Angra dos eil, Brazil *Contact:* S. Ferraz Mello, Universidade de São Paulo, Inst Astronômico e Geofísico, Av. Miguel Stefano 4200, CP 30627, 01051 São Paulo SP, Brazil

15-19 AAPM Summer School: Specifications, Acceptance Testing and Quality Assurance of Diagnostic X-Ray Imaging Equipment Arcata, CA *See issue:* 11/90

15-19 28th Ann Intl Conf on Nuclear and Space Radiation Effects San Diego, CA *See issue:* 11/90

16-20 2nd Intl Wigner Symp Goslar, FRG *See issue:* 9/90

● **21-25 Mathematical Aspects of Classical Field Theory** Seattle, WA *Contact:* Carole Kohansky [Tel. (413) 545-0910] Amer Mathematical Soc, PO Box 6887, Providence, RI 02940

21-25 Ann Mtg AAPM San Francisco, CA *See issue:* 3/90

21-26 35th Ann Intl Tech Symp on Optical and Optoelectronic Appl Sci and Eng San Diego, CA *See issue:* 3/90

21-26 Ann Mtg ACA Toledo, OH *See issue:* 3/90

● **22-26 Gordon Rsch Conf: QCD in Nuclear Phys** Tilton, NH *Contact:* James P. Vary [Tel. (515) 294-8894] Phys Dept, Iowa State Univ, Ames, IA 50011

22-26 Gordon Rsch Conf on Nonlinear Optics and Lasers Wolfeboro, NH *See issue:* 11/90

22-26 13th IMACS World Cong on Computation and Appl Math Dublin, Ireland *See issue:* 3/90

22-26 11th Intl Conf on Molecular Energy Transfer Nijmegen, The Netherlands *See issue:* 3/90

● **23-1 21st Genl Assembly of the Intl Astron Union** Buenos Aires, Argentina *Contact:* IAU Secretariat [Tel. (1) 43-25-83-58] 61 Ave de l'Observatoire, F-75014 Paris, France

● **24-26 Topical Mtg on Optical Amplifiers and Their Apps** Snowmass, CO *Contact:* OSA Meetings Dept [Tel. (202) 416-1980] 2010 Massachusetts Ave NW, Washington, DC 20036 [25 Mar 91]

● **28-1 14th Intl Electron Paramagnetic Resonance Symp** Denver, CO *Contact:* Gareth R. Eaton, Dept of Chem, Univ of Denver, Denver, CO 80208

● **29-31 OSA Topical Mtg on Photorefractive Materials, Effects and Devices** Beverly, MA *Contact:* OSA Meetings Dept

[Tel. (202) 416-1980] 2010 Massachusetts Ave NW, Washington, DC 20036 [29 Mar 91]

29-1 Intl Conf on Point Defects in Glasses Riga, Latvia *See issue:* 11/90

AUGUST 1991

- **3-7 IAU Symp 150: The Astrochemistry of Cosmic Phenomena** Campaões de Jordao, Brazil *Contact:* A. Dalgarno, Harvard-Smithsonian Ctr for Astrophys, 60 Garden St, Cambridge, MA 02138
- 4-9 21st Intl Symp on Free Radicals** Williamstown, MA *See issue:* 11/90
- 4-9 10th Intl Symp on Plasma Chem** Jerusalem, Israel *See issue:* 11/90
- **5-8 IAU Symp 151: Evolutionary Processes in Interacting Binary Stars** Cordoba, Argentina *Contact:* Y. Kondo, Code 684, Goddard Space Flight Ctr, Greenbelt, MD 20771
- 5-9 IAU Symp 149: The Stellar Population of Galaxies** Angra dos Reis, Brazil *See issue:* 11/90
- **11-14 Statistical Challenges in Modern Astron** University Park, PA *Contact:* E. Feigelson [Tel. (814) 865-0162] Dept of Astron and Astrophys, Penn State Univ, University Park, PA 16802 [1 Mar 91]
- 12-16 6th Intl Conf on Scanning Tunneling Microscopy and Related Techniques** Interlaken, Switzerland *See issue:* 5/90
- 17-24 1991 Solar World Cong** Denver, CO *See issue:* 9/90
- 18-22 Particles and Fields '91** Vancouver, British Columbia, Canada *See issue:* 11/90
- 18-31 NATO Adv Study Inst: Phys and Materials Sci of High-Temp Superconductors** Corfu Island, Greece *See issue:* 9/90
- 20-22 Conf on Materials for Electronic Packaging** Buffalo, NY *See issue:* 9/90
- 26-30 Symp on the Interp of Time Series from Nonlinear Mechanical Sys** Coventry, UK *See issue:* 7/90
- 26-30 12th Intl Mass Spectrometry Conf** Amsterdam, The Netherlands *See issue:* 3/90
- **27-30 8th Intl Conf on Dynamical Processes in Excited States of Solids** Leiden, The Netherlands *Contact:* DPC'91, Silvia Völker [Tel. 31-71-275907] Huygens Lab, Univ of Leiden, PO Box 9504, 2300 RA Leiden, The Netherlands
- **27-30 Topical Mtg on Atmospheric, Volume and Surface Scattering and Propagation** Florence, Italy *Contact:* Anna Consortini, Univ of Firenze, Dept Fisica Sez Fis. Superiore, Via S. Marta 3, Firenze 50139 ITAL, Italy
- 27-30 European Quantum Electronics Conf** Edinburgh, Scotland *See issue:* 5/90
- 27-30 Intl Conf on Neutron Scattering** Oxford, UK *See issue:* 5/90
- 27-6 Wksp on Diagnostics for Contemporary Fusion Experiments** Varenna, Italy *See issue:* 3/90

SEPTEMBER 1991

1-7 Intl Conf on Magnetism Edinburgh, Scotland *See issue:* 3/90

16-bit A/D 100 kHz IEEE 488 \$1,795

The ADC488 digitizer gives you performance that a PC plug-in board can't match, at a price that digital scopes and waveform recorders will never touch.

Features include 16 analog input channels (8 channel simultaneous sampling option), up to 512 Kbyte memory, 200 Kbytes/sec. continuous IEEE throughput, 500 VCM isolation, digital calibration, 16 digital I/O lines, and rack mounting.

The ADC488 also includes menu-driven software and is compatible with all popular languages and graphics/analysis packages.

Call us today for your free Technical Guide to the ADC488 and other IEEE 488 products from IOtech: 216-439-4091.



IBM PC, AT, 386, and PS/2 IEEE Products

Macintosh IEEE Products

Sun and DEC Workstation IEEE Products

Serial/IEEE Converters and Controllers

Analog and Digital I/O Converters to IEEE

IEEE Analyzers, Converters, and Extenders

IOtech

IOtech, Inc. • 25971 Cannon Road
Cleveland, Ohio 44146
PHONE 216-439-4091 • FAX 216-439-4093

Circle number 54 on Reader Service Card

2-4 OSA Topical Mtg on Nonlinear Guided-Wave Phenomena Cambridge, UK *See issue: 11/90*

● **2-6 Intl Conf on Polymer-Solid Interfaces** Namur, Belgium *Contact: J. J. Pireaux, FUNDP, LISE, Rue de Bruxelles, 61 B-5000 Namur, Belgium [15 May 91]*

● **3-6 Conf on the Renormalization Group** Dubna, USSR *Contact: Prof D. V. Shirkov [Telex: 412 621 DUBNA SU] Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Head Post Office, PO Box 79 Moscow, USSR*

3-6 OE/FIBERS 91 Boston, MA *See issue: 3/90*

3-7 European Conf on Accelerators in Applied Rsch and Tech Frankfurt, FRG *See issue: 11/90*

● **4-6 Polymer Degradation Discussion Group Ann Mtg** Birmingham, UK *Contact: N. S. Allen, Dept of Chem, Manchester Polytechnic, John Dalton Bldg, Chester St, Manchester M1 5GD, UK*

● **9-12 Conf on Gallium Arsenide and Related Compounds** Seattle, WA *Contact: V. G. Keramidas [Tel. (201) 758-3353] Bellcore, NVC 3Z-375, 331 New-
man Springs Rd, Red Bank, NJ 07701*

● **9-12 European Conf on Optical Communications/Integrated Optics and Optical-Fiber Communications Conf** Paris, France *Contact: A. Leboutet [Tel. (33-1) 46-08-5661] ECOC-IOOC TPC Chairman, SDSA, 65 avenue Edouard Vaillant, 92100 Boulogne Billancourt, France*

● **9-12 12th European Conf on Surface Sci** Stockholm, Sweden *Contact: ECOS 12, c/o CONGREX, Box 5619, S-114 86, Stockholm, Sweden [Apr 91]*

● **9-13 Intl Conf on Gravitational Lenses** Hamburg, Germany *Contact: Rainer Kayser [Fax: (40) 7252-4198] Hamburg Sternwarte, Gojenbergsweg 112, D-W2050 Hamburg 90, Germany*

9-17 Wksp on High-Power Microwave Generation and Apps Varenna, Italy *See issue: 3/90*

15-20 Symp on Microelectronic Interconnect and Integrated Processing San Jose, CA *See issue: 3/90*

● **22-17 The Theory of Sunspots** Cambridge, England *Contact: J. H. Thomas [Tel. (716) 275-4083] Univ of Rochester, Dept of Mech Eng, Rochester, NY 14627*

22-25 5th Conf on Sensors and Apps Edinburgh, Scotland *See issue: 3/90*

● **23-26 Course on Modern Microwave Techniques** San Diego, CA *Contact: University Consortium for Continuing Education [Tel. (818) 995-6335] 16161 Ventura Blvd, M/S C-752, Encino, CA 91436*

● **23-27 3rd European Vacuum Conf** Vienna, Austria *Contact: W. Husinsky [Tel. 43-1-588-01-5591] Institut für Allgemeine Physik, TU-Wien, Wiedner Hauptstrasse 8-10, A-1040 Wien, Austria*

● **29-4 4th Topical Mtg on Tritium Technology in Fission, Fusion and Isotopic Apps** Albuquerque, NM *Contact: John Bartlett, Los Alamos Natl Lab, PO Box 1663, MS C348, Los Alamos, NM 87545 [15 Feb 91]*

● **30-2 3rd Intl Symp on Aerogels** Würzburg, Germany *Contact: Jochen Fricke, Physikalisches Institut, Universität Würzburg, Am Hubland, D-8700 Würzburg, Germany*

30-2 Speciality Polymers '91 Mainz, FRG *See issue: 3/90*

● **30-4 Intl Conf on Ion Sources** Bensheim, Germany *Contact: B. Wolf [Tel. (49) 6151-359320] GSI, Postfach 110552, D-6100 Darmstadt, Germany [30 Mar 91]*

OCTOBER 1991

6-9 37th IEEE-Holm Conf on Electrical Contacts Chicago, IL *See issue: 11/90*

● **7-9 2nd Symp on High-Performance Computing** Montpellier, France *Contact: CNUSC [Tel. 33 67 14 14 14] SHPC Secretariat, 950 rue de Saint Priest, BP 7229, 34184 Montpellier Cedex 4, France*

● **9-12 7th Cambridge Wksp on Cool Stars, Stellar Systems and the Sun** Tucson, AZ *Contact: M. Giampapa [Tel. (602) 327-5511] Natl Optical Astron Observatories, 950 N Cherry Ave, Tucson, AZ 85719*

● **14-18 Mtg of the AAS Division of Planetary Sciences** Palo Alto, CA *Contact: A. Ingersoll, Caltech, Dept of Planetary Sci, Pasadena, CA 91125*

14-18 4th Eur Conf on Apps of Surface and Interface Analysis Budapest, Hungary *See issue: 3/90*

15-18 High-Resolution Imaging by Interferometry II Garching, FRG *See issue: 9/90*

20-24 63rd Ann Mtg S of R Rochester, NY *See issue: 3/90*

● **24-25 3rd Micro-Optics Conf** Yokohama, Japan *Contact: Kazuo Kuroda [Tel. (81-3) 402-6231 ext. 2121] Univ of Tokyo, Inst of Industrial Sci, 7-22-1 Roppongi, Minatoku, Tokyo 106, Japan*

NOVEMBER 1991

2-8 Nuclear Sci Symp Santa Fe, NM *See issue: 9/90*

3-8 OSA Ann Mtg San Jose, CA *See issue: 9/90*

● **4-8 Intl Symp on Slow Dynamics in Condensed Matter** Fukuoka, Japan *Contact: Michio Tokuyama [Tel. 81-92-542-0812] Tohwa Inst of Sci, Tohwa Univ, Fukuoka 815, Japan*

4-8 Mtg of APS Div of Plasma Phys Tampa, FL *See issue: 3/90*

4-8 122nd Mtg ASA Houston, TX *See issue: 3/90*

● **6-8 Conf on Astronomical Data Analysis: Software and Systems** Tucson, AZ *Contact: Jeannette Barnes [Tel. (602) 325-9381] NOAO/IRAF, PO Box 26732, Tucson, AZ 85726*

● **10-13 Optical Fibres in Astron II** Sydney, Australia *Contact: Peter Gray [Tel. 61 2 868 1666] AAO, PO Box 296, Epping NSW 2121, Australia*

10-13 Visual Communications and Image Processing '91 Boston, MA *See issue: 9/90*

10-15 Winter Mtg of the Amer Nuclear Soc San Francisco, CA *See issue: 9/90*

11-13 Mtg of the Southeastern Section of APS Durham, NC *See issue: 9/90*

● **11-15 9th Intl Conf on Ultra-Relativistic Nucleus-Nucleus Collisions—Quark Matter '91** Gatlinburg, TN *Contact: Frank Plasil [Tel. (615) 574-4711] Oak Ridge*

CALENDAR

Natl Lab, PO Box 2008, MS 6372, Oak Ridge, TN 37831-6372

11-15 38th Natl AVS Symp Seattle, WA *See issue: 3/90*

- **18-21 OSA Topical Mtg on Optical Remote Sensing of the Atmosphere** Williamsburg, VA *Contact: OSA Meetings Dept [Tel. (202) 416-1980] 2010 Massachusetts Ave NW, Washington, DC 20036 [1 Jul 91]*

18-22 Symp on Fusion Eng San Diego, CA *See issue: 9/90*

24-27 11th Intl Conf on Noise in Physical Systems and 1/f Fluctuations Kyoto, Japan *See issue: 9/90*

24-28 AAPM-Radiological Soc of North Amer Joint Mtg Chicago, IL *See issue: 11/90*

DECEMBER 1991

2-7 MRS Fall Mtg Boston, MA *See issue: 9/90*

9-13 AGU Fall Mtg San Francisco, CA *See issue: 3/90*

- **15-19 2nd Intl Conf on Molecular Electronics Sci and Tech** St Thomas, US Virgin Islands *Contact: Charles Freiman [Tel. (212) 705-7835] Engineering Foundation, 345 E 47th St, New York, NY 10017*

- **18-20 Intl Conf on Emerging Optoelectronics Technologies** Bangalore, India *Contact: Krishna Shenai, GE Corporate R&D, PO Box 8, Schenectady, NY 12301*

- **29-5 Intl Wksp: Ordering Disorder—Prospect and Retrospect in Condensed-Matter Phys** Hyderabad, India *Contact: D. G. Naugle [Tel. (409) 845-7717] Phys Dept, Texas A&M Univ, College Station, TX 77843*

JANUARY 1992

- **5-9 179th Mtg of AAS** Atlanta, GA *Contact: AAS [Tel. (202) 328-2010] 2000 Florida Ave NW, Suite 300, Washington, DC 20009*

6-9 AAPT Winter Mtg Orlando, FL *See issue: 9/90*

- **6-11 Winter Conf on Plasma Spectrochemistry** San Diego, CA *Contact: R. Barnes [Tel. (413) 545-2294] c/o ICP Info Newsletter, Univ of Massachusetts, Dept of Chem, GRC Towers, Amherst, MA 01003-0035 [1 Jul 91]*

27-29 Intl Topical Conf on New Ideas in Tokamak Confinement La Jolla, CA *See issue: 11/90*

FEBRUARY 1992

- **3-7 Optical Fiber Communication Conf** San Jose, CA *Contact: OSA Meetings Dept [Tel. (202) 416-1980] 2010 Massachusetts Ave NW, Washington, DC 20036*

MARCH 1992

16-20 APS March Mtg Indianapolis, IN *See issue: 3/90*

APRIL 1992

6-10 XVII Genl Assembly of the Eur Geophys Soc Edinburgh, Scotland *See issue: 3/90*

12-16 APS Spring Mtg Washington, DC *See issue: 9/90*

27-30 Progress in Telescope and Instrumentation Technologies Garching, FRG *See issue: 9/90*

27-2 MRS Spring Mtg San Francisco, CA *See issue: 9/90*

MAY 1992

11-15 AGU Spring Mtg Montreal, Canada *See issue: 9/90*

11-15 123rd Mtg ASA Salt Lake City, UT *See issue: 3/90*

- **11-15 Quantum Electronics and Laser Science Conf/Conf on Lasers and Electro-Optics** Anaheim, CA *Contact: OSA Meetings Dept [Tel. (202) 416-1980] 2010 Massachusetts Ave NW, Washington, DC 20036 Note the addition of CLEO*

JUNE 1992

1-3 Conf on Plasma Sci Tampa, FL *See issue: 3/90*

7-11 180th Mtg AAS Columbus, OH *See issue: 9/90*

7-12 Ann Mtg of the Amer Nuclear Soc Boston, MA *See issue: 9/90*

- **14-19 Intl Quantum Electronics Conf** Vienna, Austria *Contact: Conf Secretariat [Tel. (43) 1-587-6044] ICOS Congress Organization Service, Schleifmuhlgasse 1/14, A-1040 Vienna, Austria*

- **24-27 3rd Mtg on the History of Particle Phys** Palo Alto, CA *Contact: M. Rioridan [Tel. (202) 293-1382] Universities Rsch Assoc, 1111 19th St NW, Washington, DC 20036*

28-4 13th Intl Conf in General Relativity and Gravitation Córdoba, Argentina *See issue: 11/90*

JULY 1992

- **5-10 3rd Teton Summer School: Galaxy Evolution—Environment and Ecology** Grand Teton National Park, WY *Contact: H. A. Thronson [Tel. (307) 766-6150] Univ of Wyoming, Dept of Phys and Astron, Laramie, WY 82071*

AUGUST 1992

- **3-7 7th Intl Conf on Phonon Scattering in Condensed Matter** Ithaca, NY *Contact: Robert O. Pohl, Phonon Scattering [Tel. (607) 255-3303] LASSP, Clark Hall, Cornell Univ, Ithaca, NY 14853-2501*

3-7 STATPHYS 18 Berlin, Germany *See issue: 9/90*

8-13 ACA Ann Mtg Pittsburgh, PA *See issue: 9/90*

10-15 AAPT Summer Mtg Orono, ME *See issue: 9/90*

17-21 Intl Cong on Rheology Brussels, Belgium *See issue: 3/90*

23-27 Ann Mtg AAPM Calgary, Canada *See issue: 3/90*

SEPTEMBER 1992

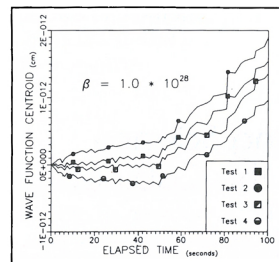
7-12 10th Eur Cong on Electron Microscopy Granada, Spain *See issue: 3/90*

OCTOBER 1992

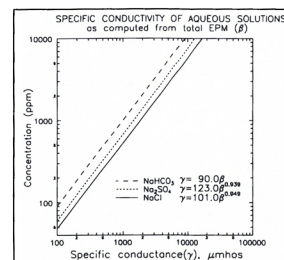
18-24 124th Mtg ASA Memphis, TN *See issue: 9/90*

26-31 Nuclear Sci Symp Orlando, FL *See issue: 9/90*

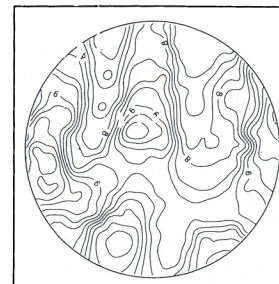
SCIENTIFIC GRAPHICS



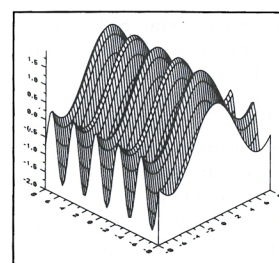
GRAPHER™ accepts your ASCII comma or space delimited file of up to 32000 XY pairs. You may combine an unlimited number of files on each graph. Choose from five types of error bars and six types of best-fit lines. Include automatic legends and unlimited text.



Use any combination of linear and logarithmic axes with automatic or user-specified ticks and labels. Text may contain superscripts, subscripts, and mixed fonts from **GRAPHER™**'s complete symbol library, including Greek letters and special symbols.



SURFER™ creates contour plots from your data quickly and easily. You may specify contour label frequency and format, irregular contour intervals, and data posting. Choose a rectangular border with ticks and labels, or a user-defined shape.



SURFER™ lets you display your data as a 3-D surface in perspective or orthographic projection, rotated and tilted to any degree or angle. Add axes, posting and titles to your plots. Stack surfaces for impressive results.

GRAPHER™ (PC Editor's Choice) . . . \$199
SURFER™ (PC Editor's Choice) . . . \$499
 Demo Disk . . . \$10



FREE Brochure

Go ahead . . . give us a call.
1-800-333-1021
 or (303-279-1021 - fax: 303-279-0909)

GOLDEN SOFTWARE, INC.
 809 14th St., Golden, CO 80401



Purchase orders
are welcome for
IBM-PC

Circle number 55 on Reader Service Card
 PHYSICS TODAY JANUARY 1991