

NEW AND/OR INTERESTING IN MICROSCOPY

•* **The SHaRE Faculty Fellowship Program for 1997 is Announced.** These fellowships are intended to provide outstanding university faculty access to the SHaRE User Facility at Oak Ridge National Laboratory. This user facility is equipped with state-of-the-art electron microscopes, atom probe field ion microscopes, and mechanical properties microprobes for materials science microanalysis. These appointments are intended to assist faculty by enhancing their materials science research through extended access to SHaRE's state-of-the-art microanalytical facilities, and through collaborations with appropriate researchers at ORNL. It is anticipated that one junior and one senior university faculty will be appointed as follows.

The duration of each fellowship is expected to be between six and twelve weeks. It is anticipated that fellowships will be taken during the participant's summer semester or quarter terms.

Applicants must be full-time permanent faculty members at accredited U.S. colleges or universities.

For information on stipends and allowances and other matters, contact: <http://www.ms.ornl.gov/share/intro.htm>

•* **The Carolina Workshop on LIGHT MICROSCOPY FOR THE BIOMEDICAL SCIENCES** will be held on June 1-6, 1997 at the University of North Carolina at Chapel Hill.

Carolina Workshops are intensive hands-on laboratory courses designed to teach cutting edge methods in molecular biology and biotechnology. Several courses on different topics in molecular biology and biotechnology are offered each year by the Program in Molecular Biology & Biotechnology at the University of North Carolina at Chapel Hill. Most participants in the Carolina Workshops already hold M.D. or Ph.D. degrees or are advanced pre-doctoral students. The courses are designed for novice students as well as for individuals with prior experience. All students benefit from in-depth interaction with instructors.

Additional information is available from Dr. Wayne Litaker at the University of North Carolina at: (919)966-1730, Fax: (919)966-6821 or eMail: litaker@unc.med.edu

•* **18th Annual 1997 SACP Starter Grant Applications.**

The Society for Analytical Chemists of Pittsburgh will award three grants of \$10,000 to assistant professors in the field of analytical chemistry. The purpose of these grants are to encourage high-quality, innovative research by new analytical chemistry professors and to promote the training and development of graduate students in this field. Assistant professors who have accepted a United States college or university appointment since December 31, 1993 are eligible.

Information is available from Robert Gagne, SACP, at (800)825-3221 (x208) or fax: (412)825-3224

•* **ThermoSpectra Corporation agrees to buy Park Scientific for \$17 million.**

When asked about the Park Scientific decision to sell to ThermoSpectra, Park Scientific president Stan Yarbrow advises "the Thermo Instruments concept of acquiring companies and putting them into specific areas of technical expertise suits us well, and there are synergies with the Noran and Kevex businesses. Another advantage is that ThermoSpectra presently has no direct expertise in SPM, so we fill an important gap in its product line."

•* **World-Wide Analytical Instrument Markets**

High growth potential for analytical instruments in the Pacific Rim over the next five years is forecast in a recent report from K.C. Associates, Inc. (Wilmington, DE), sponsored by Centcom Ltd., advertising management for the American Chemical Society. According to the study, this geographic region leads the growth rate estimates in 22 out of 29 instrument technologies analyzed in *The Market Book: The Worldwide Analytical Instrument Market Study*, recently published. Many executives in the instrument industry will welcome the return of this valued publication, which last appeared in 1987.

The new report provides data for most of the leading types of analytical instrumentation and covers: market size; distribution of sales and market growth rate by geographic region; impact of new technologies; and the effects of regulation. The study embraces the USA, Europe, Pacific Rim (inc. Japan) and rest-of-the-world.

Information regarding the study is available from Infocom Ltd. +44 1342 835935 or fax: +44 1342 833488.

•* **AMRAY, Inc.** a manufacturer of Scanning Electron Microscopes, invites you to browse their newly constructed WEB site. They can be found at www.amray.com The WEB site includes information about AMRAY's 3000 series of scanning electron microscopes, their customer service organization, their customer training schools, and other important information about AMRAY.

•* **The Thirteenth Annual Short Course on Molecular Microspectroscopy** is planned for June 23-17, 1997 at Miami University. The short course presents the field of molecular microspectroscopy in terms of basic theory, applications, advances in the field and future developments. Participants are offered the opportunity to apply molecular microspectroscopy in small groups, discuss instrumentation with manufacturers who sponsor the short course, or talk with faculty and MML personnel about specific sampling problems.

For further information, or copies of application forms, contact Molecular Microspectroscopy Laboratory (MML): (513)529-2874, fax: (513)529-7284.



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Microscopy and Surface Analysis Manufacturers and Suppliers on the WWW

- 4pi Analysis: <http://www.4pi.com>
- Advanced Surface Technology: <http://www.advsurftex.com>
- AMRAY, Inc.: <http://www.amray.com>
- AST Products: <http://www.astp.com>
- Beckman Instruments: <http://www.beckman.com>
- Brucker Instruments, Inc.: <http://www.brucker.com>
- Burleigh Instruments, Inc.: <http://www.burleigh.com>
- Carl Zeiss: <http://www.zeiss.com>
- Codonics, Inc.: <http://www.codonics.com>
- Custom Medical Stock Photos: <http://www.cmstp.com>
- Delaware Diamond Knives: <http://www.ddk.com>
- Diatome Diamond Knives: http://www.mwrn.com/page/diatome/dia_995.htm
- Digital Instruments: <http://www.di.com>
- Eastman Kodak: <http://www.kodak.com>
- EdgeCraft Corp.: <http://edgecraft.com>
- Electroscan: <http://www.electroscan.com>
- Energy Beam Sciences: <http://www.mwrn.com/ebs/ebs.html>
- Ernest F. Fullam: <http://www.fullam.com>
- ETP-USA: <http://www.etp-usa.com>
- Evex Analytical: <http://www.evex.com>
- Fisons Instruments: <http://www.fisonssurf.co.uk>
- Gatan Inc.: <http://www.gatan.com>
- Goldmark Biologicals: <http://members.aol.com/goldmarker>
- Hitachi Scientific Instruments: <http://www.nissei.com>
- ICMAS: <http://www.usit.net/icmas>
- JEOL USA: <http://www.jeol.com>
- Kratos Analytical: <http://www.kratos.com>
- LECO: <http://www.lecoua.com>
- LEO Electron Microscopes: <http://www.mwrn.com/leo>
- Material Analytical Sciences: <http://www.microstartech.com>
- Media Cybernetics: <http://www.mediacy.com>
- McCrone Group: <http://www.mccrone.com>
- Micro Star Technologies: <http://www.microstartech.com>
- Nanoprobes: <http://www.nanoprobes.com>
- Nicolet Instrument Corporation: <http://nicolet.com>
- Nissei-Sangyo Canda: <http://www.nstoronto.com/nissei-sangyo>
- Noran Instruments: <http://www.noran.com>
- Omega Optical: <http://www.sover.net/~omega>
- Oxford Instruments (Microanalysis Group): <http://www.oxinst.com>
- Park Scientific Instruments: <http://www.park.com>
- Philips Electronic Instruments: <http://www.peo.philips.com>
- Philips Electron Optics: <http://www.peo.philips.com>
- Photometrics: <http://www.photomet.com>
- Polysciences, Inc.: <http://www.polysciences.com>
- Princeton Gamma-Tech: <http://www.pgt.com>
- Scanalytics: <http://www.scanalytics.com>
- Scott Scientific: <http://scottscientific.com>
- Signal Analytics: <http://www.iplab.com/sac>
- Small World: <http://members.aol.com/smworld100/index.htm>
- South Bay Technology, Inc.: <http://southbaytech.com>
- Soquelec Ltd.: <http://www.soquelec.com>
- Spectra-Tech Inc.: <http://www.spectra-tech.com>
- SPI Supplies: <http://www.2spi.com>
- Ted Pella Inc.: <http://www.tedpella.com>
- TSL - TexSEM Labs: <http://www.itsnet.com/~tsl>
- Thomson Scientific Instruments: <http://werple.net.au/~tsi>
- Topcon Technologies: <http://www.topcon.com/tti-1.htm>
- Topometrix Corporation: <http://www.topometrix.com>
- Vacuum Generators: <http://WWW.surface.fisons.co.uk/vacgen/vg-home.html>
- Vaytek: <http://www.vaytek.com>
- Virtual Laboratories: <http://www.rt66.com/~virtlabs>

COMING EVENTS

✓ American Type Culture Collection (ATCC) Workshops:

- March 10/11 '97: Anaerobic Bacteriology
 - April 14/18 '97: Recombinant DNA: Techniques and Applications
 - April 21/24 '97: Polymerase Chain Reaction (PCR) Applications/Cycle DNA Sequencing.
 - June 4/6 '97: *In Vitro* Toxicology
 - July 7/10 '97: Theory and Techniques for Extremophile Research
 - Nov 4/7 '97: Microbial DNA Fingerprinting
 - Nov 10/14 '97: Advanced Recombinant DNA: Techniques and Applications
 - Nov 17/20 '97: Polymerase Chain Reaction (PCR) Applications/Cycle DNA Sequencing
 - Sept 8/10 '97: Cell Culture and Hybridomas: Quality Control and Cryopreservation Techniques
 - Sept 15/16 '97: The 15th Annual ATCC Biotech Patent Forum
 - Sept 17/19 '97: Cytogenetic and Fluorescence *In Situ* Hybridization
 - Sept 23/26 '97: Fermentation Microbiology
 - Oct 6/9 '97: Hybridoma Technology and Monoclonal Antibody Product Development
 - Oct 15/17 '97: Microscopy/Photomicrography
 - Oct 15/17 '97: Diagnostic Virology
 - Oct 22/24 '97: Downstream Processing, Recovery and Purification of Proteins
 - Oct 27/30 '97: Freezing and freeze-Drying of Microorganisms
- INFORMATION: (800)359-7370, Local: (301)231-5566, Fax: (301)816-4364

MATERIALS TEM SPECIMEN PREPARATION WORKSHOPS

- AMC Group, Scottsdale, AZ. Dr. F. Shaapur: (602)949-4203, Fax: (602)473-9421
- May 7/9 '97: FIB Cross-Section for SEM/TEM
- May 14/16 '97: TEM Wedge-Polishing
- May 19/21 '97: Basic Ultramicrotomy
- May 22/23 '97: Advanced Ultramicrotomy

- ✓ March 14/16 '97: **Applied Optical Microscopy for Chemists** (Microscopy Marketing Education). Atlanta, GA. Barbara Foster: (800)227-5558 or (202)872-4508.
- ✓ March 16/21 '97: **PITTCON '97** - Atlanta, GA. (412)825-3220, Fax: (412)825-3224.
- ✓ March 31 - April 4 '97: **Workshop on Specimen Preparation for TEM of Materials - IV.** (MRS Spring Meeting). San Francisco, CA. Scott Walck: (513)255-5791, Fax: (513)255-9019.
- ✓ March 31 - April 4 '97: **Materials Reliability in Microelectronics VII.** (MRS Spring Meeting). San Francisco, CA. Robert Keller, (303)497-7651, Fax: (303)497-5030.
- ✓ April 4/6 '97: **16th Southern Biomedical Engineering Conference.** (Mississippi State Univ. & Univ. of Mississippi Medical Ctr.) Biloxi, MS. Dr. Joel D. Bumgardner: (601)325-3282, Fax: (601)325-3853.
- ✓ April 7/10 '97: **Digital Microscopy** (Gatan, Inc.), Pleasanton, CA. (510)463-0200, Fax: (510)463-0204
- ✓ April 15/18 '97: **EELS Imaging & Analysis** (Gatan, Inc.), Pleasanton, CA. (510)463-0200, Fax: (510)463-0204
- ✓ April 19/22 '97: **SCANNING '97** (FAMS, Inc.) Monterey, CA. Mary K. Sullivan, (201)818-1010, Fax: (201)818-0086
- ✓ April 27 - May 1 '97: **19th International Conference on Cement Microscopy.** Cincinnati, OH. Louis Jany: (610)261-4429, Fax: (610)261-4430.
- ✓ April 28/30 '97: **Specimen Preparation** (Gatan, Inc.), Pleasanton, CA. (510)463-0200, Fax: (510)463-0204
- ✓ May 8/16 '97: **Analytical & Quantitative Microscopy** (Marine Biological Lab) Woods Hole, MA. Carol Hamel: (508)289-7401.
- ✓ May 10/15 '97: **30th Anniversary Scanning Microscopy and Cells and Materials 1997 Meeting.** (Scanning Microscopy International). Chicago, IL. (847)524-6677, Fax: (847)985-6698.

- ✓ May 15/17 & May 19/21 '97: **Quantitative Image Analysis Short Course.** (N.C. State Univ.) Raleigh, NC. (919)515-2261.
- ✓ May 19/23 & 26/30 '97: **PASEM 97 Practical Aspects of Scanning Electron Microscopy** (SEM Short Course - Univ. of Maryland). College Park, MD. Tim Mangel: (301)405-6898, Fax: (301)314-9358.
- ✓ May 20/27 '97: **Microinjection Techniques in Cell Biology** (Marine Biological Lab) Woods Hole, MA. Carol Hamel: (508)289-7401.
- ✓ May 30 - June 2 '97: **Korea International Scientific Instruments Exhibition '97** Seoul, Korea. Tel: 82-2-551-1112, Fax: 82-2-551-1311
- ✓ June 4/7 '97: **24th Annual Meeting of the Microscopical Society of Canada.** Edmonton. Ray Egerton: (403)492-5095, Fax: (403)492-0714.

LEHIGH UNIVERSITY MICROSCOPY COURSES:

- ✓ June 9/13 '97: SEM and X-ray Microanalysis
- ✓ June 16/19 '98: Advanced Scanning Electron Microscopy with Digital Image Processing
Quantitative X-ray Microanalysis of Bulk Specimens & Particles
June 17/20 '97: Atomic Force Microscopy & other Scanned Probe Microscopies.
Bethlehem, PA. David B. Williams, (610)758-5133, Fax: (610)758-4244.
- ✓ June 4/7 '97: **24th Annual Meeting of the Microscopical Society of Canada.** Edmonton, Canada. Ray Egerton: (403)492-5095, Fax: (403)492-0714.
- ✓ June 6/7 '97: **Workshop on Tripod Polishing** (South Bay Technology) San Clemente, CA. (800)728-2233, Fax: (714)492-1499.
- ✓ June 9/14 '97: **ACHEM 97** - International Meeting on Chemical Engineering, Environmental Protection and Biotechnology. Frankfurt am Main. +49(69)7564-280, Fax: +49(69)7564-201.
- ✓ June 16/19 '96: **Quantitative Image Analysis Short Course** (N.C. State Univ.) Taastrup, Denmark (919)515-2261
- ✓ June 19/20 '97: **3D Microscopy of Living Cells Short Course and NEW post-course workshop.** (Univ of WI & Univ of B.C.) Vancouver, B.C. James Pawley: (608)263-3147, fax: (608)265-5315
- ✓ June 22/27 '97: **Fundamentals and Applications of Light Microscopy.** Burlington, VT. Mary McCann: (617)484-7865, Fax: (617)484-2489.
- ✓ June 23/27 '97: **13th Annual Short Course on Molecular Microspectroscopy.** (Miami University) Oxford, OH. (513)529-2874, Fax: (513)529-7284
- ✓ June 23/27 '97: **OIM Academy: OIM Theory & Applications** (TSL) Provo, UT. Klaus Behnert: (801)344-8990, Fax: (801)344-8997.
- ✓ July 6/9 '97: **CRYO '97 - Low Temperature Microscopy and Analysis & The Application of the Microscope in Life Sciences, Cells, and Signaling Including FLOW.** (Royal Microscopical Society). Univ. of York, RMS: +44(0)1865 248768, Fax: +44(0)1865 791237
- ✓ Aug 10/15 '97: **Microscopy Society of America 55th Annual Meeting - Jointly with the Microbeam Analysis Society.** Cleveland, OH. MSA Business Office: (800)538-3672. Fax: (508)548-9053
- ✓ Sept 7/11 '97: **111th AOAC International Annuyal Meeting & Eposition.** San Diego, CA. (800)379-2622, Fax: (301)924-7089
- ✓ Oct 8/16 '97: **Optical Microscopy and Imaging in the Biomedical Sciences** (Marine Biological Lab) Woods Hole, MA. Carol Hamel: (508)289-7401.
- ✓ Nov. 16/20 '97: **Eastern Analytical Symposium.** Somerset, NJ. (302)738-6218, Fax: (302)738-5275.