# MICROSCOPY TODAY north american edition

### Our New Two-Part Format:

With this issue, we are starting a new two part format for the newsletter. In this part we intend to cover topics only of interest to microscopists in North America and in the other part to present material and information of interest to microscopist worldwide. As the newsletter is essentially monthly (10 issues per year), we have little time between issues to prepare for the next and the new format will assist greatly in effective production. In addition:

1) As follows, we would like to present summaries of courses, workshops, etc. held in North America. We do not intend to •charge• for these summaries but rather will request (not require) article/material contributions to the newsletter from the event organizers.

2) With lower charges, to expand the •classified • section of the newsletter - including used equipment, both for sale and wanted, as well as employment, both available and wanted. Should you not be the •hiring authority • for your organization, we would appreciate it if you would see that the appropriate person(s) receive the newsletter.

#### --- Don Grimes, Editor

The Materials Research Society (MRS) will present a number of short courses at its Spring meeting in San Francisco, April 4/8, 1994. The following should be of interest to microscopists:

TEM SPECIMEN PREPARATION IN THE PHYSICAL SCIENCES IC FAILURE ANALYSIS, FAILURE MECHANISMS AND

ANALYTICAL TECHNIQUES.

SUPER-RESOLUTION IMAGING AND SPECTROSCOPY WITH NEAR-FIELD SCANNING OPTICAL MICROSCOPY (NSOM).

Other courses include:

- Amorphous Silicon Materials and Devices
- Film Formation, Adhesion, Surface Preparation, and Characterization of Thin Films
- Metallization for Devices, Circuits, and Packaging and in Multilayer Schemes for VLSI and ULSI.

Science and Technology of Nanostructured Materials.

- Diamond Films, Growth and Properties
- Wide Bandgap II-VI Semiconductor Microstructures: Growth Characterization, and Optical Properties.

Plus tutorials on 1) Transfer of Technology from R&D to Manufacturing, 2) Light-Emitting Porous Silicon: Fabrication, Properties and Device Applications and 3) Electromigration.

Attendance is limited and costs increase after 25 March. Register by FAX by calling MRS at (412)367-3003 and ask them to FAX you a registration form and/or a course brochure.

★ On 11/15 July 1994, Colorado State University (Department of Anatomy and Neurobiology) will offer an intensive course in freeze-fracture and freeze-etch techniques for research scientists and senior technicians. Basic and advanced techniques will be taught in five days of concentrated lectures and laboratory sessions. Advanced techniques will include sequential confocal mapping/freeze-fracture examination of identified cells in tissue slices. The course will prepare research scientists and laboratory technicians to use freeze-fracture techniques in cell biology research. Previous freeze fracture experience is not necessary, but individuals must be proficient in transmission electron microscopy. For registration and other information, contact Eileen Diepenbrock at telephone: (303)491-5847. ★ Yale University School of Medicine will conduct a course on Stereology on August 18/20 '94. The course will provide a theoretical and practical introduction to stereological techniques, including the newer methods for estimating volumes, surfaces, lengths and numbers of objects imaged 2-dimensionally. The course is applicable and open to medical, biological, botanical and materials researchers interested in obtaining quantitative data from images obtained from light and electron micrographs. For more details, contact Paul Webster at (203)785-5072 or (203)785-4578.

★ On August 22/26 '94, the Yale University School of Medicine will conduct an Immunocytochemistry and Cryosections Practical Course. It will provide theoretical and practical information for researchers in the medical and biological sciences who are interested in using affinity markers to localize intracellkular antigens. The course will concentrate on the production of cryosections, currently the most sensitive way in some systems, of detecting antigens at the subcellular level. Lectures and discussions, however, will focus on all the currently available specimen preparation methods for immunocytochemistry. Participants will produce cryosections, label them with antibodies and protein A-gold and examine them in the electron microscope. For more details, contact Paul Webster at (203)785-5072 or (203)785-4578.

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#### **REGIONAL MSA/MAS EVENTS**

April 7 '94: Mid Atlantic Microbeam Analysis Society Joint Meeting with the Chesapeake Society for Microscopy. NIH, Bethesda, MD. Blair Bowers: (301)496-3611

April 8, '94: Oklahoma Microscopy Society 1994 Spring Workshop. Bartlesville, OK. Scott D. Russell: (405)325-6234

April 8 '94: Midwest Society for Electron Microscopy Student Research Competition. Madison, WI. Glen Boda: (708)260-5137.

May 5/6 '94: Florida Society for Microscopy 12th Annual Meeting. Daytona Beach, FL. Alicia Slater-Haase: Tel.: (813)-974-4101.

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# The Last Chapter in the Seemingly Never Ending Drama of Computer Thefts at the University of Washington

As previously reported, in April 1993 a thief twisted open some 76 locked doors with a pipe wrench and stole 24 computers from the University of Washington. Then six weeks later, just as the stolen computers had been replaced, a thief stole another 10 computers so few as he was surprised by police and escaped after leaving his tools. And in a third theft in 1993, a thief stole some 250 SIMMs from the University - but, in this case, he was caught as he attempted escape through a drainage ditch. The thief, a Avram Morar, three hearings later jumped bail and disappeared.

It seems that Mr. Morar was also wanted for stealing SIMMs from California State University - Fullerton. In response to his profile on television (NBC's Prime Suspect) on 26 February and an anonymous tip, he has just been arrested.

Mr. Morar had once demonstrated to California police, on videotape, his agility in passing through ceiling tiles - the removable type. In making the arrest, California State University Police found his white Mercedes parked at a produce market. After being advised that Morar was not on the premise, police noted removable type ceiling tiles and, after calling for backup, flushed him down from the ceiling tiles. Ironically, he was finally apprehended in a drainage canal in California - just as he was in Washington.

Then after searching his parents home and finding many computers and parts, the identification number on a hard drive tied him back to the computer thefts at the University of Washington.

End of Story - ?

# Help from Our U.S. Readers?

As we attempt to greatly improve the quality of this on newsletter, move to full color printing and commence sending issues to interested microscopists overseas, we would truly appreciate the assistance of our U.S. readers as follows: QA

1) If there is a "?" following your name on the address of this issue, we do not know if you wish to continue to receive a no cost subscription - or if you are receiving this issue. Should you be in this category, and wish to continue to receive the newsletter, please complete the questionnaire on the following postage paid reader response card.

(24) We wish, however, to increase not decrease our U.S. readership. We would appreciate if if you would route this 24 newsletter issue to others in your organization with an W interest in any and all facets of microscopy. We are delighted to receive requests for additional subscriptions.

Check your mailing address. Our USPO automated 3) mailing system accepts only a) number and street name, b) PO Box number or c) Rural Route (RR) and box number. Any other, while it may reach you, does cost us extra postage.

4) Help in making newsletter content interesting and of 00 [A] value to working microscopists worldwide. We are attempting more in the areas of "advances in" and "approaches to" the technology. Even short articles and material are appreciated. --- Ed.

# **1994 MICROSCOPY COURSES**

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# **McCrone Research Institute**

2820 S. Michigan Avenue Chicago, IL 60616-3292 Phone: 312/842-7100 - Fax: 312/842-1078



McCrone Research Institute will offer the following microscopy courses in Chicago during 1994. For further infomation contact Nancy Daerr.

Advanced Asbestos Identification - April 25-29, June 20-24, August 29-September 3, October 17-21 Advanced Microchemical Methods - August 22-25 Applied Polarized Light Microscopy - May 9-13, June 20-24, August 15-19, September 26-30, November 14-18 Asbestos Fiber Counting (NIOSH 582) - April 11-15, June 6-10, August 15-19, October 3-7, December 12-16 Crystal Morphology & Optics - September 26-30 Drug Identification - July 25-29 Fiber Identification - July 11-15 Forensic Examination of Building Materials - April 18-22 Forensic Microscopy - April 4-8, November 28- December 2

Fusion Methods - December 5-9 Hair Microscopy - May 23-27 Hair Microscopy - May 23-28 Identification of Small Particles - March 21-25 Microchemical Methods - April 25-29 Microscopical Identification of Asbestos - April 18-22, June 13-17, August 1-5, August 22-25, October 10-14, December 5-9 Microscopy and Microchemistry of Polymers - September 19-23 Microscopy for Art Conservators - May 16-20 Microscopy of Explosives - May 2- 6 Mineral Identification - October 24-28 Paint Microscopy - July 11-15 Particle Identification and Manipulation - November 7-11 Pharmaceutical Microscopy - June 13-17 Photomicrography - October 3-7 Polymer, Fiber & Film Microscopy - September 12-16 Quantitative Asbestos Analysis - May 2-4, November 14-16 Sample Preparation Methods - December 12-16 Scanning Electron Microscopy - July 11-15 Soils Analysis for Criminalists - July 25-29 Special Methods in Light Microscopy-A - October 10-14 TEM Asbestos Analysis - May 16-20, November 7-11 **TEM Introduction - September 12-16** TEM SAED EDS - March 21-25