

NEW AND/OR INTERESTING IN MICROSCOPY

● **Hitachi Announces A New Organization:**

The Scientific Instruments Division of Nissei Sangyo America, Ltd. (a.k.a. Hitachi Scientific Instruments) has been reorganized into three groups:

Robert Gordon, former National Sales Manager of the Sales Department, is now the Director of the Electron Microscope System Group.

Les Sunada, former Manager of the Sales Administration Department, is now the Director of the new Sales Administration Group.

The Medical Systems Group, continues to be led by Koichi Wada, Product Development Department Manager.

● **Digital Instruments and Zygo Corporation Announce Termination of Merger Discussions.**

Digital Instruments, Inc. and Zygo Corporation recently announced their decision to end pursuit of a merger of the two companies and to terminate the Letter of Intent previously signed by them. The decision was taken after intensive negotiations to resolve the outstanding differences between the parties proved futile.

● **Journal of Electron Microscopy**

Oxford University Press is offering a special subscription rate for the *Journal of Electron Microscopy*. The full year rate is \$125, or two years for \$250. Oxford University Press: Tel.: (919)677-0977, Fax: (919)677-1714

● **Lehigh University's Microscopy Courses**

Lehigh University announces its 1998 series of microscopy courses - for schedule refer to the following "Coming Events"

New this year will be a one day course "Introduction to SEM and EDS for the New SEM Operator" to be held on 7 June 1998. The course is

intended for SEM operators with less than a year of experience.

For further information on this course, or others in the series, contact Ms. Sharon Coe at: Tel.: (610)758-5133, Fax: (610)758-4244, eMail: slc@lehigh.edu

*Let's Have a
Just-For-The-Fun-Of-It Contest*

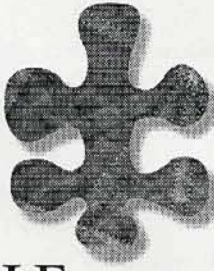
Thanks to the interest of our readers, the contest is a "go".

Should you have missed the announcement in our last issue, the gist of the contest is for the most "creative and interesting" composite image - of two or more images, one at least must be microscopical in nature. Judgement will be made by the attendees of next years MSA Conference. We will offer nifty prizes and attendance is not required to win.

The only outstanding question is whether we should have categories. Should you have an opinion on this topic, or any other to make the contest more worthwhile (and fun), please let me know.

Final/complete "rules" will be published in our January issue.

... Don Grimes,

A  **ANOTHER
PIECE OF
THE PUZZLE**

If you use an analytical SEM in your materials research then it's probable that your system comprises SEM/EDX/WDX/BSE which provides both surface & chemical information.

EBSP (crystallographic mapping) can provide a further level of important information including characterization of grain orientation boundaries and the relationship between texture and micro structure. Please call, fax or E-mail for our information package.



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**Bonjour . . . Buenos Dias . . . Guten Tag
Buon giorno . . . Konnichi wa
Goedendag**

Electron microscopists worldwide (except in the USA!) have benefitted from the availability of another complete range of TEM cameras.

Hi There!

The LHESA cameras from France have now arrived in North America. So, if higher specifications at a very competitive price add to your "joie de vivre", please call, fax or e-mail for further information.



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Microscopy Society of America

Undergraduate Research Scholarship Program

With this year's call for applications, the MSA Undergraduate Research Scholarship Program begins its 10th year providing funding for undergraduate research. To date over 50 projects covering a wide range of topics in the physical and biological sciences have received support through this program. Over the years nearly all the scholarship recipients have maintained a strong interest in imaging sciences and have gone on to graduate school, professional school, teaching, or industry positions.

The program, which is funded by MSA, is able to support approximately 25% to 30% of applicants. The maximal award from MSA is currently \$2500 and helps to provide student stipends, supply costs, and limited travel expenses associated with the research. Additional support in the form of instrument use time, equipment purchases, etc. is generally provided by the student's supervisor and/or through the sponsoring institution. Abstracts, reporting the research results, are prepared by scholarship awardees, and published annually in "Microscopy and Microanalysis."

The program is also actively seeking external sources of matching funds in order to maintain the favorable levels of support both in terms of the number of projects supported and the level of support for each.

The 1997 MSA Undergraduate Research Scholarship awardees as approved by the MSA Council are as follows:

1. **Patricia Eckholdt**; A junior at the University of Arizona. Title: Anti-fasciclin antibody a marker for olfactory axon ingrowth and specialization during the development of the moth *Manduca sexta*. Supervisor: Dr. Leslie P. Tolbert, Univ. Of Arizona.

2. **Donovan N. Leonard**; A junior at North Carolina State University. Title: Quantitative Analysis and Interpretation of AFM Phase Imaging. Supervisor, Dr. A.D. Batchelor, N.C. State University.

3. **Rafel Raban**; A senior at Lehigh University. Title: Characterization of Bulk Pd-Ni-P Metallic Glass. Supervisors, Drs. H. Jain and D.B. Williams, Lehigh University.

4. **Bonnie E. Compas**; A junior at California State Polytechnic University Pomona. Title: Visualization of A Recombinant Virus Antigen Expressed in Transgenic Plant Tissue by "Edible-Vaccine" Research. Supervisor, Dr. Robert Koch, Cal. State Univ. Fullerton.

5. **Jennifer Geoghegan**; A junior at the University of Arizona. Title: Actin and Intermediate Filaments in cAMP Treated Endothelial Cells: An EM Study Using Immunogold Labeling. Supervisor, Dr. Carrie Merkle, University of Arizona.

Abstracts of the completed research of the 1997 award winners will appear in a forthcoming issue of "Microscopy and Microanalysis"

The 1998 MSA Undergraduate Research Scholarship Program is currently soliciting applications from students interested in conducting a research project which involves the use of any microscopy technique. Students should be sponsored by a member of MSA. The maximal award is \$2500. **The application deadline is December 31, 1997.** Applications can be obtained from the MSA Business Office, 4 Barlows Landing Road, Suite 8, Pocasset, MA 02559; or call toll free at (800)-538-3672, or FAX (508)-563-1211.

If you have any questions or require additional information regarding the program please contact either:

Dr. Ralph Albrecht, University of Wisconsin
1655 Linden Drive, Madison, WI, 53706
(608)-263-3952 or 263-4162; (608)-262-7420 FAX;
albrecht@ahabs.wisc.edu

Dr. Richard Ornberg, Monsanto Company
Analytical Sciences Center, 800 N. Lindbergh Blvd., St. Louis, MO, 63167
(314)-694-1184; (314)-694-6727 FAX;
rlornb@ccmail.monsanto.com

COMING EVENTS

- ✓ Dec 13/17 '97: **37th Annual Cell Biology Annual Meeting**
Washington, DC: (301)530-7153, Fax: (301)530-7139
- ✓ Jan 7/10 '98: **In Situ Electron Microscopy** (Arizona State Univ.)
Scottsdale, AZ Eloise Kadri: (602)965-4424, Fax: (602)965-9004,
eMail: eloise.kadir@asu.edu, <http://www.asu.edu/clas/csss/workshops/>
- ✓ Jan. 7/10 '98: **Emerging Electron Microscopy Technologies Workshop** (Ted Pella, Inc.) U.C. Berkeley. Kathy Strangenberg:
(916)243-2200, Fax: (916)243-3761, tedpel@aol.com
- ✓ March 1/6 '98: **PITTCON '98** New Orleans, LA, (800)825-3221,
(412)825-3220, <http://www.pittcon.org>
- ✓ April 19/23 '98: **20th International Conference on Cement Microscopy** (ICMA) Guadalajara, Mexico. www.cemmicor.org
- ✓ April 19/24 '98: **7th Biennial Frontiers of Electron Microscopy in Materials Science** (FEMMS98) Irsee, Germany:
<http://femms98.llnl.gov>, email: weking@llnl.gov
- ✓ May 9/12 '98: **SCANNING '98: (FAMS)** Baltimore, MD. Mary K. Sullivan:(201)818-0086, Fax: (201)818-0086, email:
fams@holonet.net.Internet
- ✓ **Practical Aspects Series of Short Courses at Univ of Maryland**
May 18/22 '98 Scanning Electron Microscopy - Session I
May 19/22 '98 Image Analysis
May 25/29 '98 Scanning Electron Microscopy - Session II
May 26/29 '98 X-ray Microanalysis
Tim Maugel: (301)405-6898, eMail: maugel@zool.umd.edu
- ✓ **LEHIGH MICROSCOPY SHORT COURSES - 1998**
June 7 '98: Introduction to SEM and EDS for the new SEM Operator
June 15/18 '98: Advanced Scanning Electron Microscopy with Digital Image Processing.
June 15/19 '98: Quantitative X-ray Microanalysis of bulk Specimens and Particles
June 15/18 '98: Analytical Electron Microscopy: Analysis of TEM Specimens
June 16/19 '98: Atomic Force Microscopy and Other Scanned Probe Microscopies
For information, contact Sharon Coe at phone: (610)758-5133, Fax: (610)758-4244, eMail: slc6@lehigh.edu
- ✓ June 19/29 '98: **3D Microscopy of Living Cells** (Univ. of British Columbia) Vancouver, BC, Canada. Prof. James Pawley: (608)265-5315, email: JBPAWLEY@FACSTAFF.WISC.EDU
- ✓ June 30 - July 2 '98: **3D Image Processing** (Univ. of British Columbia) Vancouver, BC, Canada. Prof. James Pawley: (608)265-5315, email: JBPAWLEY@FACSTAFF.WISC.EDU
- ✓ July 7/9 '98: **MICRO98** (Royal Microscopical Society) London, UK, +44 (0) 1865 248768, Fax: +44 (0) 1865 791237, info@rms.org.uk
- ✓ July 12/16 '98: **Microscopy & Microanalysis '98.** (Microscopy Society of America) Atlanta, Ga. <http://www.msa.microscopy.com>
- ✓ July 26/29 '98: **31st Annual International Metallographic Society Convention** (ASM) Ottawa, Canada. <http://www.asm-intl.org>
- ✓ Aug 31 - Sept 4 '98: **ICEM XIV/International Congress on Electron Microscopy.** Cancun, Mexico. (525)553-4507, Fax: (525)553-4500, email: icem@icem.inin.mx WWW: <http://icem.inin.mx>



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