

# Minnesota Microscopy Society Newsletter



Local affiliate of Microscopy Society of  
America  
Local affiliate of Microbeam Analysis Society

## MMS March 1999 NEWSLETTER

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### March Meeting

#### 8th Annual Metallographic Event

MMS Joint meeting with the American Society of Metals

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**Speaker:** John Goings,  
SONIX

**Topic:** Scanning Acoustic Microscopes:  
An Overview of Ultrasonic Technology and Applications

**Date:** March 24, 1999

**Location:** St. Louis Park VFW  
5605 West 36th St.  
(Corner of Hwy. 100 and West 36th St.)

**Time:** 6:00 - 8:30 PM

**Program:** 6:00 - 6:45 Photo contest and Social Hour.  
6:45 - 7:30 Dinner.  
7:30 - 8:30 Speaker.

#### Overview:

The annual metallographic event is a fun and educational way for you to share your metallographic work and learn from others. The top 3 winners will receive prizes. All participants will receive a free dinner compliments of LECO Corp.

People who would like to participate in the microphotograph contest should complete the form at the bottom of the [Rules for the metallographic event posters](#) page and fax it to the ASM office at 612-522-7232. You will also need to call in a dinner reservation - see below.

If you have any questions, please call Tom Rivard at 612-931-5449 or leave a message at the ASM office at 612-522-4770.

**Abstract:**

Ultrasonic microscopes have been used for years in a variety of industries for basic non-destructive purposes like "flaw detection". Recent technological improvements of digital data acquisition capabilities and higher frequency transducers have expanded the possible applications of scanning acoustic microscopes. Field installed equipment can be found in the automotive, materials, industrial, and microelectronic industries. This paper will give a basic overview of the technology and provide a comprehensive study of the variety of applications.

**Speaker description:**

John is a native of Nashua, Iowa and received a Bachelor of Science degree in physics from Truman State University in Kirksville, Missouri. While attending Truman, his research concentration was acoustical holography and medical laser physics. John has been working in the field of acoustic microscopes for the past 3 years and has been invited to speak on the topic at a number of conferences and meeting. In addition, John has authored several papers on the application of acoustic microscopes in the field of microelectronics.

**Directions:**

Take 394 west to Hiway 100, go south to West 36th and take westbound exit. Its nearby there.

**Register:**

Cost: \$10.00 for members, \$5.00 for students and \$15.00 for guests

Make reservations for dinner - including your choice of dinners (steak, chicken Kiev or walleye) by **Friday, March 19**, by calling the ASM office at 612-522-4770.

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## Notices

**No Shows**

The last few meetings, there have been a number of "no-shows," people who fail to show up after informing the meeting organizer that they would be there for the dinner. This practice costs the Society money. For most meetings we have to give a "head count" in advance, and are charged for meals based on this estimated number. When people do not show up, the Society is left to pick up the tab for that meal. So please show up for meetings that you have made reservations for.

**Contacting Members**

There are many occasions when the Society needs to get in contact with its member on very short notice. Last minute announcements, updates, or reminders cannot always wait for the next newsletter. Therefore, it would be of great help if we had the e-mail addresses of as many members as possible. If you have an e-mail address please send it to Stuart McKernan at [stuartm@tc.umn.edu](mailto:stuartm@tc.umn.edu) or (612) 624-6009.

Also, make sure you have updated your area code in our membership database, since the Twin Cities area codes have now officially split into 612 and 651. Again, contact Stuart McKernan with this information.

## Announcements

### Zeiss Microscope Parts Liquidation

Newport Minnesota, Inc. is liquidating some unused Zeiss microscope parts. The items were part of a discontinued program and they hope to sell them at 25-30 cents on the dollar. The items are miscellaneous Zeiss accessories, including nosepieces (Axioplan/ Axiophot), objectives for reflected BF (5x, 10x, LD-50x), C-mount adapters with dovetail mounts (1.0x, 0.63x, 0.5x), 35mm camera adapters, and brightfield reflector sliders (Axioskop).

For more information contact Kevin Duffy at Newport Minnesota, Inc., 5840 Nathan Lane, Plymouth, MN 55442-3939 (612-519-9221; fax 612-593-0712). You can request a list of the parts by e-mail at [kduffy@mn.newport.com](mailto:kduffy@mn.newport.com).

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## Project Micro

Project Micro had a busy month. On February 20th a microscopy class was held at the Science Museum of Minnesota for children in grades 3 - 6. It was a three hour introduction to the world of microscopes. This was followed, on March 6th, with a second class at the Science Museum for children ages 8 - 12 and their parents. On the same day, Project Micro was involved in ScienceFest at the Bell Museum at the University of Minnesota.

Each was a great success thanks to the Minnesota Microscopy Society volunteers. The last Science Museum class of the season will be held on April 24th. Inquiries about Project Micro should be sent to Stuart McKernan at [stuartm@tc.umn.edu](mailto:stuartm@tc.umn.edu) or 612-624-6009.

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## Spring Symposium

**Topic:** Latest Trends in Microscopy

**Date:** Thursday, May 13, 1999

**Location:** Sheraton Midway  
I-94 at Hamline Avenue  
St. Paul, MN

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Tentative list of Invited Talks:

Microcalorimetry

by **David A. Wollman**

National Institute of Science and Technology

Application of SEM Diffraction to Phase Identification

by **Patrick Camus**

NORAN Instruments

Current Trends in EDX

by **John Friel**

Princeton Gamma Tech.

Advances in Scanned Probe Microscopy  
by **Greg Haugstad**  
University of Minnesota  
Microwave Processing for Biological Materials  
by TBA

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## Upcoming National Events

### SCANNING 99

**Sponsor:** FAMS, Inc. (Foundation for Advances in Medicine and Science) and  
*SCANNING, The Journal of Scanning Microscopy*

**Topic:** Acoustic Microscopy

**Date:** April 11-14, 1999

**Location:** Hyatt Regency O'Hare at  
O'Hare International Airport, Chicago, Illinois.

**Contact:** Mary K. Sullivan, SCANNING99  
Phone: 201-818-1010, [www.scanning.org](http://www.scanning.org)

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### Microscopy and Microanalysis '99

**Sponsor:** Microscopy Society of America  
Microbeam Analysis Society

**Date:** August 1-5, 1999

**Location:** Portland, OR

**Abstract Deadline:** August 15th

**Contact:** <http://www.msa.microscopy.com>

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