

Minnesota Microscopy Society Newsletter

Local affiliate of Microscopy Society of America

Local affiliate of Microbeam Analysis Society

SEPTEMBER 1995

Contents

- [MMS FALL BUFFET DINNER](#)
 - [MMS TOUR: NUCLEAR POWER PLANT](#)
 - [MMS 1995-1996 PROGRAM SUMMARY](#)
 - [MICROSCOPY & MICROANALYSIS 96](#)
 - [AMERICAN VACUUM SOCIETY SYMPOSIUM](#)
 - [MICROSCOPY TECHNICAL SEMINAR](#)
 - [1996 MSA UNDERGRADUATE SCHOLARSHIP PROGRAM](#)
 - [YOUR ARTICLE HERE??!!](#)
 - [SOCIETY INFORMATION](#)
-

MMS FALL BUFFET DINNER
THURSDAY, SEPTEMBER 28, 1995
5:00 - 8:30 PM

UNIVERSITY OF MINNESOTA
CAMPUS CLUB
MINNEAPOLIS CAMPUS

SPEAKER: Ernst Keller, Zeiss
TOPIC: The Ultimate Microscope

MMS will hold its seventh annual Fall Buffet Dinner on September 28, 1995, at the University of Minnesota's Campus Club, 401 Coffman Memorial Union, 300 Washington Avenue S.E., Minneapolis Campus(see map below). We hope to provide a pleasant evening during which microscopists will be moved to renew or begin memberships in MMS, MSA and/or MAS.

A wine, cider and cheese social from 5:00-6:00 will kick off the evening. The buffet dinner follows from 6:00-7:15. The Campus Club sets up one of the finest food lineups in the world. The dinner affords an excellent opportunity to meet microscopists from many disciplines, talk shop, and to have a pleasant time together. The program is from 7:15-8:00. Parking is available behind the Union in the East River Road Ramp (connected by walkway to Union) for \$2.50 (per day rate), and at other Minneapolis Campus locations(see map inside).

Our **featured speaker, Ernst Keller**, will take us on a fantasy tour of what the ultimate microscope that has it all would be like.

We will hold a short business meeting just before the talk. The Buffet Dinner is \$12.00 per person payable at the door. (non-member \$22.00, includes new membership), \$8.00 for current student members (non-member student \$13.00, includes new membership).

In order for us to provide an accurate head count to the Campus Club, please make a phone reservation by contacting Rod or Dwight. Deadline: Tuesday, September 26.

Buffet head counters:

Rod Rappe 612-733-0564 e-mail: RGRappe@mmm.com

Dwight Erickson 612-736-2830 e-mail: usmmm214@ibmmail.com

**MMS TOUR: NUCLEAR POWER PLANT
THURSDAY, OCTOBER 26, 1995
6:00 - 8:00 PM.**

**NSP'S MONTICELLO NUCLEAR POWER PLANT
MONTICELLO, MINNESOTA**

Join members and friends of the Minnesota Microscopy Society for a unique and very interesting tour of one of Minnesota's two operating nuclear power plants. We will spend two hours in the Simulation Training Room at NSP's Monticello Nuclear Power Plant. Our hosts will conduct a simulated start-up, operation, and shut-down of the nuclear power reactor. This is the facility where the operators of the plant are actually taught and practice all operational procedures. Although we will not have enough time to actually tour the power plant itself, we will gain an understanding of what goes into the successful, safe operation of the reactor and related systems from the standpoint of the control room.

NSP's Montecello Power Plant is located about two miles west of the city of Montecello - about a 30 minute drive from Minneapolis' western suburbs. Take I-94 westbound from Minneapolis to the second Montecello exit #196 at the south edge of town. Proceed into downtown Montecello to the main drag, Broadway, and turn left, westbound, on county road 75. Drive west about 2 miles to West River St. Turn left and go to the NSP Training Center, 2100 W. River St. See map included in this newsletter.

We need to let NSP know about how many visitors to expect, so please call Mike Coscio, co-ordinator of this event, with your reservation at (612)569-1331,

569-1284 FAX, e-mail: mike.coscio@medtronic.com

You are advised to grab a bite to eat before arriving at the plant. Those who are interested in going out after the event will do so.

MMS 1995-1996 PROGRAM SUMMARY

Over the summer the Executive Committee has been putting together the 1995/1996 program. It is readily apparent that we are a Society of very diverse interests so we would like to put together varied programs that would appeal to both the professional and the hobbyist. In order to accomplish this, we need input from the members. If you are aware of an interesting speaker, which you would like to have make a presentation to our society, please let me know.

Also in the spring of 1996 we are considering having a symposium on adding video and image processing systems to the microscope (electron or optical). We envision a program which starts with the basics. We would like to find people who have done this successfully and would be willing to share what they have learned. If you

are aware of someone, please let us know. **Rodney Rappe, MMS President**, (612)733-1547, 733-1547FAX
email RGRappe@mmm.com

(Some details available later. Notes in boldface are firm; plain type notices still in planning stage.)

September 28, 1995, Thursday, 5:00 - 8:30 PM. Fall Buffet Dinner Meeting at the University of Minnesota Campus Club, Coffman Memorial Student Union, Minneapolis. Speaker: Ernst Keller, Zeiss. See article above for details.

October 26, 1995, Thursday, 6:00 - 8:00 PM. Tour of NSP's Monticello Nuclear Power Plant. See article above for details.

November ??, 1995, Teaching Microscopy. Program details available later when they are known.

January ??, or February ?? 1996, . MSA Traveling Speaker, to be announced.

March 27, 1996, Joint meeting with American Society of Metallography (ASM).

April ??, 1996, Hobby night or tour.

May ??, 1996, MMS Spring Symposium. "Video Ala Carte". The basics of putting together a video system for microscopy. Date to be announced.

MMS TO HOST MICROSCOPY & MICROANALYSIS 96 **August 11-15, 1996**

The Minnesota Microscopy Society will host the meeting **MICROSCOPY & MICROANALYSIS 96** at the Minneapolis Convention Center. Participating in the 1996 meeting will be the Microscopy Society of America (MSA), the Microbeam Analysis Society (MAS) and the Microscopical Society of Canada/Societe de Microscopie du Canada (MSC/SMC). Whew! The combination of these three Societies will undoubtedly produce an exciting & extraordinary meeting of considerable size.

The program will include symposia in numerous areas related to life sciences, physical sciences, imaging sciences and analytical sciences. The exhibits will form the world's largest and most comprehensive display of equipment, supplies, services and publications related to imaging and analysis at the microscopical level. This is a meeting that you should not miss! Because of the location of the meeting it should be very convenient (commuting distance) for many of this Newsletter's readers, so if you have not been able to attend this kind of meeting in the past because you or your organization lacked the travel money, that may be less of a problem in 1996. If you can't attend the full meeting you should definitely consider a one-day registration to visit the exhibits, hear a few presentations and catch up a bit on what's new in microscopy and microanalysis. More complete details will be available in January.

If you need to contact someone before then, call the Meeting Manager/Business Office at 1-800-538-3672, or Ev Osten at 612-736-0104,
or by email: efosten@mmm.com

AMERICAN VACUUM SOCIETY SYMPOSIUM
MINNEAPOLIS CONVENTION CENTER
OCTOBER 16-20, 1995

The 42nd AVS Symposium will be held in Minneapolis on at the Minneapolis Convention Center. For further information about the symposium, contact Dr. Raul Carreta, Co-Chair (Special Events), UM, carreta@maroon.tc.umn.edu, 612-625-8066).

**INTEGRATED MICROSYSTEMS, INC. PRESENTS:
MICROSCOPY TECHNICAL SEMINAR
AND DEMONSTRATION
RADISSON METRODOME, U of MN CAMPUS
615 WASHINGTON AVE. SE, MPLS, MN
TUESDAY, NOV.7TH, 1995**

- 1)Unique, high speed X-ray mapping, using EDS with simultaneous recording of photon x,y location and element indentification.
- 2)New optical thin film measurement technique using R&D 100 award analyzer.
 - A) Thin film measurement on hard disk applications.
 - B) Thin film measurement in flat panel displays.
 - C) Thin film measurement in semiconductors.
- 3)New Advances in Atomic Force Microscopy.
- 4)Practical Aspects of Material Science Microtomy.
 - A) Overview of : Rotary Microtomy, Ultra-Microtomy, and Cryo-Microtomy in Material Science

For reservations call STEVE MILLER or MIKE DAMBACH of I.M.I. at 1-800-388-8801 or e-mail 72703.25@Compuserve.com . Lunch is provided with \$8 registration fee.

**ATTENTION UNDERGRADUATES:
1996 MSA UNDERGRADUATE SCHOLARSHIP PROGRAM**

This scholarship program is open to Junior and Senior college and university students interested in doing research using ANY microscopy technique as the principal investigative tool. Awards of up to \$2,500 per student/proposal are available. Students should be sponsored by a member of MSA. Submit an application and brief research proposal by December 30, 1995. Do you know of any undergrads in science to interest in electron microscopy? Act now. Applications can be obtained from the MSA Business Office at (800)538-3672 or FAX:(508)548-9053. Additional information and application forms are available from Dr. Ralph Albrecht, Dept. of Veterinary Science, University of Wisconsin, Madison, WI 53706. (608)263-3952 or -4162, FAX:(608)262-7420.

YOUR ARTICLE HERE??!!

Do you have something to say about EM, a new technique, a book you've read that you want to review, a report on an EM meeting or workshop you've attended, or...what? Write it up and send it in! If you can do it on a 3.25 inch disk in Word 5 or 6 for MacIntosh, or any other text format, so much the better. Disks will be returned. Send your stuff to newsletter editor Gib Ahlstrand at the address given under the Board Directory near the end of this newsletter.
