

Minnesota Microscopy Society Newsletter



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

MMS November 1998 NEWSLETTER

November Meeting

Date: Thursday November 19, 1998

Location: Science Museum of Minnesota.

Time: 5:45 - 7:15 PM

Behind-The-Scenes Tour Of The Science Museum of Minnesota

The Science Museum of Minnesota is offering a behind the scene tour of their labs and shops for MMS members. This is the last season that the Museum will be occupying these facilities. After this they will be moving to a new river front location.

We will tour three lab areas (~20-25 minutes in each lab).

1. Conservation Lab [**Gretchen Anderson**] in the anthropology hall showing conservation techniques and tools, some recent problems solved, future plans, etc.
2. (2) Paleontology Lab [**Andy Redline**] in the paleo hall--current work, new exhibits, tools, volunteer program, etc.
3. (3) Prototype Shop [**Richard Gagnon**], originally was a "lab" or "kitchen" for Experiment Gallery exhibits.

Topics will include prototyping philosophy, current projects, new museum features, tools, etc.

All tours to finish by 7:15 PM. Those MMS members who wish to continue conversations will have dinner after the tour at a yet-to-be-determined nearby bistro.

Street parking (meters) is free after 4:30. There is a pay ramp below the Museum with access from Exchange street. Note: The 19th is the closing night for the film Everest and the museum may be crowded so give yourself plenty of time to find parking and get to the box office area.

MMS members should arrive at the Science Museum of Minnesota, Wabasha and Exchange, downtown St. Paul, by 5:45 PM. Meet at the Box Office in the West Building (building with the metal iguana guarding the entrance).

We need a headcount for the tours so if you plan on attending, contact Ev Osten, 651-736-0104, efosten@mmm.com by Friday November 13th.

October Meeting Report

Date: October 1, 1998 7:00 - 8:00 PM

Location: University of Minnesota, St. Paul Campus

Following an informal dinner gathering at *Ciattis* and a car-pool-snake to the Classroom Office Building, the October meeting began with a short business meeting for the audience of about 25 members.

Professor **C. Barry Carter**, Past President of MSA and 3M Harry Heltzer Multidisciplinary Chair in the Dept. of Chemical Engineering and Materials Science at the University of Minnesota, then entertained the meeting with his talk on "*TEM: Its History and the State of the Art*".

The talk covered a very brief review of the development of the transmission electron microscope from the earliest days (when the pioneers were breaking new ground and even designing machines that are only now capable of being constructed) to the instruments of tomorrow. On this personal slice through history he mentioned some of the pioneers both well-known and some less well-known individuals, as well as some of the machines which have led to the instruments of today.

After a few select examples of present-day applications where the transmission electron microscope has proved invaluable for imaging materials, he concluded with some illustrations of the present state-of-the-art machines; the high-voltage, high resolution instruments as well as the aberration enhanced ones. On the way through this evolutionary journey of the TEM, Prof. Carter answered a number of questions from the audience which enabled him to provide a much broader understanding of TEM for those present.

The talk finished up with Prof. Carter's speculations on the future directions of TEM, and I don't think he once suggested that we "read about it in his book".

We hope to see you all at the next meeting.

Stuart McKernan

1998 / 1999 Season Meetings

September 17,1998	Marc Porter
October, 15 1998	C. Barry Carter
November, 19 1998	MMS Field Trip Science Museum of Minnesota
February, 20 1999	Project MICRO Class Science Museum of Minnesota
March, 6 1999	Project MICRO Class Science Museum of Minnesota
March, 24 1999 Note: Traditional Location: St. Louis Park VFW	Annual joint meeting with ASM. Acoustic Microscopy Speaker: Joseph Sigmund, SONIX
April, 24 1999	Project MICRO Class Science Museum of Minnesota
May 1998 The Midway Sheraton.	Spring Symposium. Topic: Latest Trends in Microscopy.

October "Project Micro" Report

A disappointing four members showed up for the recent Project Micro meeting, so I cannot relay very much information about the success of the program last year. I would like those of you who have been working with schools (either through the Project Micro program or on a more informal basis) during the last year to please let me know which schools, and how the program went. It does not need to be an extremely detailed report, but having made contact with particular schools I would like to stay in touch with them.

This year we are slightly expanding out goals again, for which we need some more volunteers. Firstly, we are working this year with the Science Museum of Minnesota to put on a microscopy class for kids and families. The classes will follow the newly published "Microscopic Exploration" manual, which is very similar to the version we have used before. The classes will run on Saturdays from 1-4 PM at the Science Museum. You will need to have had training to use the festival guide, but if you have not had it already we will run a training session prior to the first class. We will need 4-6 volunteers for each of the following dates:

- February 20th - Kids only class; grades 3-6
- March 6th - Kids 8-12 with parents
- April 24th - Kids only class; grades 3-6

Please respond to Stuart McKernan (stuartm@tc.umn.edu or (612) 624-6009) if you can help with any of these sessions.

Secondly, we have some donated, compound light microscopes, which we would like to place in schools. If you know of any school that would appreciate the loan of these (and especially if you can offer some time to help them) please let me know.

Finally, look for more opportunities to help in the next newsletter.

Stuart McKernan

Project Micro Contacts are:

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Caroline Schooley, MSA Educational Outreach Coordinator, Box 117, Caspar, CA 95420. e-mail: schooley@mcn.org. Phone/FAX(707)964-9460.

For more information, check Project MICRO web site at: <http://www.msa.microscopy.com/ProjectMicro/>

or the Lawrence Hall of Science (<http://www.lhs.berkeley.edu/GEMS/html>)

MMS Membership Notice

The various lists of MMS members have now been consolidated into a single database. One direct result of this is that we are now able to print the date of your last membership renewal on your mailing label (it is in the black outlined box). While it is possible that we have missed a few dues dates in the consolidation process, we would like you to check the date and ensure that your membership is current. If the date is earlier than 5/1/97 this will be the **LAST NEWSLETTER** you will receive, unless you renew your membership. You can do this using the form on the back of this newsletter.

This is also the last issue that will be sent out to all members. If you elected to receive E-mail notification of the web version rather than the hardcopy version you should have received the E-mail notification already. If you did not, and would like to please let me know, and provide a valid E-mail address. To reduce the Society's expenses, future newsletters will only be sent to current, paid-up members who have not elected to read the web version.

MMS Notices and Announcements

Attention Undergraduates:

1999 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 31, 1998. Do you know of any undergraduates in science to interest in

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.

The Microscope Historical Society:

is looking for new members

MHS is an international group of people with a common interest in the microscope as a scientific instrument, an object of beauty, and as a collectible. They welcome to their group any and all individuals interested in the history of the microscope and its applications. They foster the exchange of historical and technical information among its members, as well as the exchange of collectable microscopes, books, and related items.

Members receive three issues of the Journal each year and a membership roster. Dues are \$10.00 U.S (for those within the U.S.) and \$12.00 U.S. (for those outside the U.S.). For more information contact: Manuel del Cerro, M.D., Microscope Historical Society, 14 Tall Acres Drive, Pittsford, NY 14534

NEWSLETTER CONTRIBUTIONS WELCOMED

Do you have something to say about microscopy, a new technique, a book you've read that you want to review, a report on an microscopy meeting or workshop you've attended, or...whatever. Write it up and e-mail it to the newsletter editor: Peter McSwiggen at mcswi001@maroon.tc.umn.edu

Microscopy & Microanalysis '99

August 1-5, 1999

Portland, Oregon

Microscopy and Microanalysis '99 will be held in Portland from Sunday 1st August to Thursday 5th August. Expect to see the call for papers at the beginning of November. We have arranged a very strong scientific program, and the Local Arrangements Committee have some great ideas for the meeting. One is a competition to find the "best" micrograph of Mt. St. Helens volcanic dust, a competition they have tentatively titled "show us your ash". Samples of ash were available at the meeting in Atlanta, but I have a couple of extra samples if anyone would like one. The second event they have arranged is a post-conference cruise to Alaska. Again details were available at the Atlanta meeting, and will be provided in the call for papers, but if you are interested see me at the October Meeting. This should be another very good meeting, and I hope to see many of you there.

For information and registration materials, contact **MSA Meeting Manager**, The Rebedeau Group, 1-708-361-6000, MSA@tradeshownet.com, or the Web site at: <http://www.MSA.Microscopy.Com>.

Upcoming Meetings

SCANNING 99

Date: April 11-14, 1999

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

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

Contact: Mary K. Sullivan, SCANNING 99

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NOTE: To all of our readers: If you are interested in getting your quarterly newsletters and other announcements from MMS electronically, we strongly encourage those who are technologically enabled to begin accessing the MMS Newsletter via our web site (see top of this sheet) and to subscribe to other flyers and announcements via e-mail. As a reminder, an e-mail notice would be sent out to all web site viewers when each new newsletter is posted on our web site. Other short meeting announcements will be sent out by e-mail in addition to being posted on our web site. However, hard copy announcements via U.S. Postal Service will continue to be available for those who have no web access or prefer to get hard copy mailings. Finally, if you have no interest in remaining on our mailing list, please also indicate that choice.

Communicate your preferences to MMS Webmaster [Stuart McKernan](#)

phone: (612)624-6009
