

Minnesota Microscopy Society

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



Newsletter

December 2004

Minnesota Microscopy Society January Meeting

Thursday, January 27, 2005

Tour of Minnesota's Bureau of Criminal Apprehension

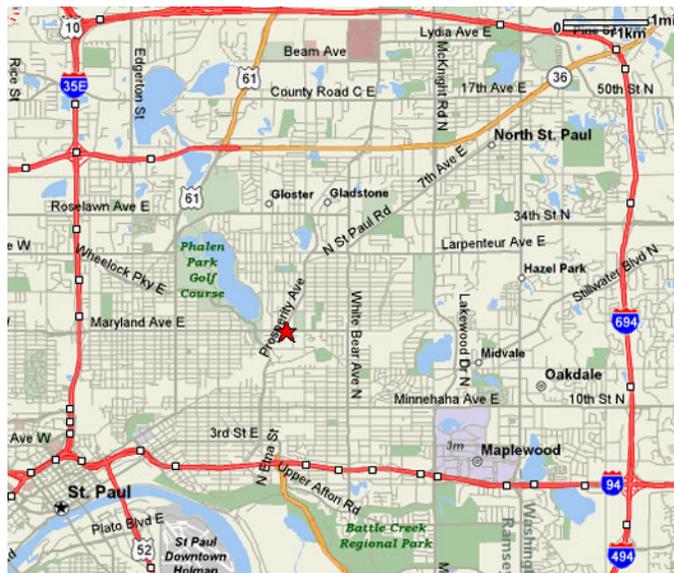
The Minnesota Microscopy Society has been invited to tour the new facilities of the Bureau of Criminal Apprehension (BCA). This will be an afternoon event which will be limited to only 50 people. Make your reservation soon. Also you must be over 18 years old to attend this meeting. After the tour, those interested will be getting together for dinner at a Chinese restaurant, the Great Moon Buffet.

Tour Location

BCA Lab at 1430 Maryland Ave. E. in St. Paul
(see map)

Schedule

Tour	2:00 PM - 4:00 PM
Dinner	5:00 PM



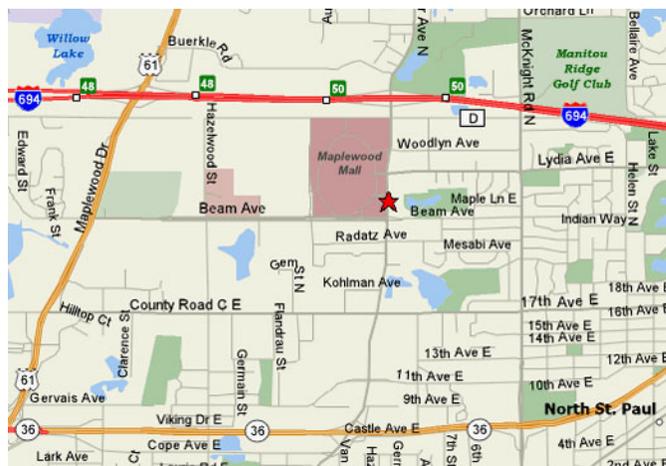
Location map for the BCA.

Dinner

Great Moon Buffet
2950 White Bear Ave. N., St. Paul

Reservations

Reservations for the meeting **MUST** be made no later than **Monday, January 24th**. Contact Dwight Erickson (651-736-2830 or dderickson3@mmm.com). Include your name and affiliation, and whether you plan to attend the dinner.



Location of Great Moon Buffet restaurant.

To get to the Great Moon Buffet from the BCA, go east on Maryland Ave to White Bear Ave. Turn north and go about 3 miles to the intersection of White Bear and Beam Avenues. A Red Lobster is on the NW corner of the intersection, and the Great Moon Buffet is on the north end of a strip mall at the NE corner of this intersection.

Minnesota Microscopy Society February Meeting

Thursday, February 17, 2005

The Visible Heart®

Speaker Dr. Paul Iaizzo

Professor of Surgery and Physiology
Distinguished University Teaching Professor
Medtronic Professor of Visible Heart Research
Director for Education of the Lillehei Heart Inst.
Director of the Malignant Hyperthermia Muscle
Biopsy Center
University of Minnesota

Tour Location

Earl Brown Continuing Education Center, Rm 83
University of Minnesota, 1890 Buford Ave.
St. Paul campus (see location map)

Schedule

Social Hour	5:00 PM - 6:00 PM
Dinner	6:00 PM - 7:30 PM
Talk	7:30 PM - 8:30 PM

Dinner

Dinner will be at the Earl Brown Center. The menu has not yet been finalized.

Cost

Yet to be determined. For updates, check the MMS Web site at www.MNmicroscopy.org.

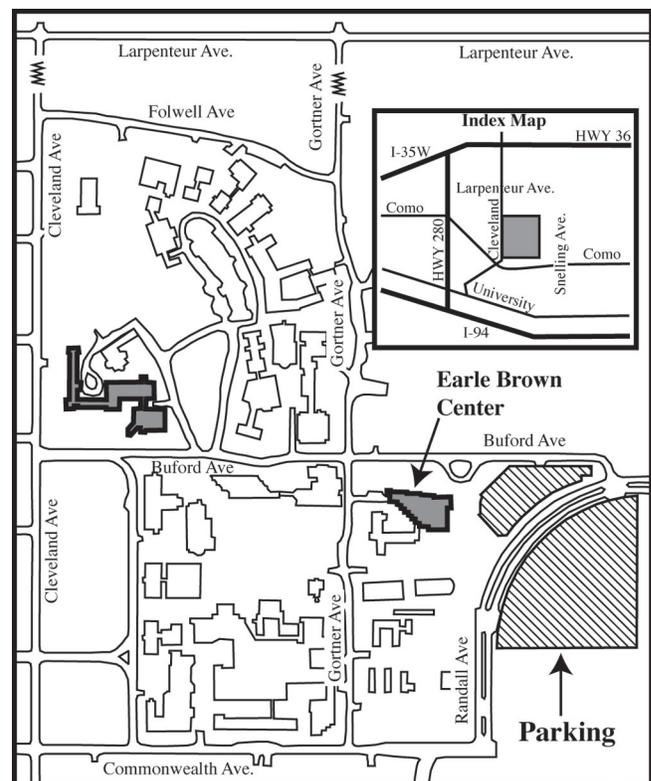
Reservations

Reservations for the meeting **MUST** be made no later than **Friday, February 11th**. Contact Paul Baker (763-514-4519, paul.baker@medtronic.com).

Location map for the Earl Brown Center
at the University of Minnesota.

Talk

Paul A. Iaizzo, Ph.D., Professor of Surgery Physiology, worked in partnership with biomedical engineers at Medtronic Inc., to produce a large mammalian isolated beating heart. This ongoing research collaboration has resulted in a working four chamber isolated cardiac model that can simulate in situ physiological cardiac function. This beating heart model has provided an opportunity to simultaneously capture internal images of a working heart on video while recording various physiological parameters, such as: electrical potentials, pressure volume changes, ejection fractions, flows, etc. The Visible Heart® model is considered an invaluable tool in understanding the relationship between the dynamics of a beating heart and existing and emerging biomedical therapies.



Future Meetings

Annual Minnesota Joint Technical Symposium (MinnTS 2005)

Thursday, March 17, 2005

Location

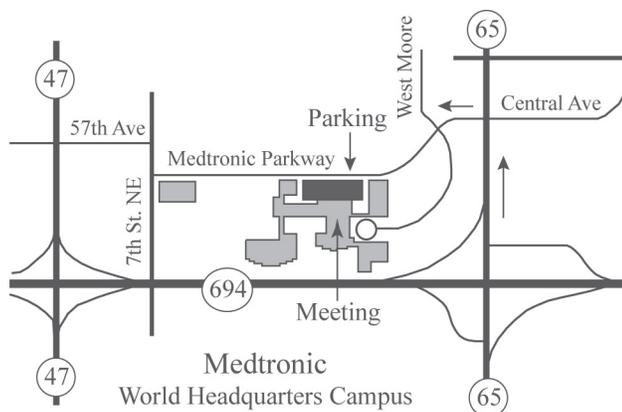
Medtronic Inc.
710 Medtronic Parkway (I-694 & Hwy 65)
Fridley, MN 55432

Cost of the Meeting Yet to be determined

Schedule

Registration & Social Hour	4:30 PM - 5:30 PM
Dinner	5:30 PM - 6:50 PM
Talks	6:50 PM

Come to Medtronic for MinnTS '05, the 3rd annual joint meeting of local technical societies. This year the topic is Biomaterials and Biotechnology. Featured speakers are Arthur J. Coury from Genzyme Corporation, speaking on Advanced Materials for Regenerative Medicine, and Vincent Chow from Optobionics speaking on Artificial Retina Technology. Watch for more details in upcoming newsletters. Mark your calendar now for this great opportunity to mingle with technical professionals from outside your micro-world!



Annual MMS Spring Symposium

“Cutting Edge Technologies in Microscopy”

Friday, May 6, 2005

Location

Science Museum of Minnesota
120 W. Kellogg Blvd., St. Paul
Discovery Hall
(www.sci.mus.mn.us)

Cost of the Meeting Yet to be determined

Schedule To be announced

As always the Minnesota Microscopy Society's big event is our day-long Spring Symposium. This year we already have an impressive program lined-up. The speakers will include:

- Tom Isabell, JEOL USA
Topic: Aberration corrected electron microscopes
- Paul Voyles, University of Wisconsin
Topic: STEM imaging of single atoms
- Darrel Krueger, University of St. Thomas
Topic: Confocal laser scanning microscopes and the ESEM
- Scott and Amy Chumbley, Iowa State University
Topic: The WebSEM (*Description follows*)

The WebSEM is a scanning electron microscope (SEM) connected to the Internet allowing educators from around the world to log-in and use the microscope live in the classroom. The students can control the magnification, move and focus the specimen, and collect elemental data to determine the composition of the specimen. When desired, images can be saved to the classroom computer for further viewing. This is a free service to all educators and available worldwide. The Chumbley's talk will include a demonstration that will be open to the public at the Science Museum.

Sustaining Corporate Members

Sustaining members are the backbone of financial support for the Society. These members make it possible for the Society to support Project Micro and to cover many expenses of the regular meetings and the Spring Symposium. We greatly appreciate the continued support of these individuals and corporations. To become a Sustaining Member, complete and return the MMS membership form at the end of the newsletter.

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If any Sustaining Members are missing from this list, *please* contact either: Jason Heffelfinger (763-514-1021, jason.r.heffelfinger@medtronic.com) or Peter McSwiggen (612-781-2282, PMcS@McSwiggenAssoc.com).

MMS Patron Members

The Minnesota Microscopy Society would like to express sincere thanks to our Patron Members. These members provide financial support to the organization above the standard membership fee. This type of added support makes it possible for MMS to maintain its financial well being. To become a Patron Member, complete and return the MMS membership form at the end of the newsletter.

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Minnesota Microscopy Society – Membership Form

All microscopists are urged to support their Society at one of the membership levels offered below. The more dues-paying members we have, the more likely we are to attract sustaining corporate memberships which form the financial backbone of our Society. Often, supervisors will support MMS memberships out of their project budget because they recognize that it is a very inexpensive way to maintain and increase the skills of their microscopists. If you have been a member over the years and recognize the value of MMS to the community of microscopists it serves, consider upgrading your membership this year to the patron or sustaining level. Thank you.

Name _____ Dr _____ Mr _____ Ms _____ Phone (____) _____

Affiliation _____ Position _____

Address _____ ZIP _____

E-mail address _____

Indicate the method by which you would like to receive the Newsletter: mail _____ e-mail/web _____ both _____

Student (\$5) _____ Basic (\$10-\$24) _____ Patron (\$25-\$99) _____ Corporate Sustaining (\$100-) _____

Make checks payable to MMS and mail to our Treasurer:

Bede Willenbring, MMS Treasurer, 4763 Decatur Ave. North, New Hope, MN 55428-4402

Check here _____ if you do NOT want your name and address to appear in the Society directory.

Are you an MSA member? _____ MAS Member? _____ Other Professional groups? _____

Area of interest: Bioscience _____ Materials Science _____ Light _____ SEM _____ TEM _____ X-ray _____

Per MMS bylaws, article VIII: "For purposes of membership The Society's year shall run from October 1 to September 30.
Dues shall be payable between October 1 and December 31st of each year."

Minnesota Microscopy Society
Peter McSwiggen, MMS Editor
McSwiggen & Associates
2855 Anthony Lane South, Ste B1
St. Anthony, MN 55418

Forwarding and Address
Correction Requested

January 27, 2005

Tour of the BCA