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# Minnesota Microscopy Society

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



## Newsletter

January 2006

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### Minnesota Microscopy Society February Meeting

Thursday, February 2, 2006

#### Tour of Boston Scientific's New MTAC Laboratories (Materials Testing, Analysis and Characterization)

##### Location

Boston Scientific  
Three SCIMED Place (Weaver Lake Road)  
Maple Grove, MN 55311

Boston Scientific has just completed construction on new facilities in Maple Grove. The Minnesota Microscopy Society has been invited to tour their new MTAC laboratories. Tour will begin at 5:00 PM. An introduction and overview of the facility will be provided by lab manager Gary Campbell.

##### Schedule

Arrival time	4:45 PM
Tour	5:00 PM - 6:30 PM
Dinner	6:30 PM

##### Driving Instructions to Boston Scientific

To get to Boston Scientific go West on I-94 to the Weaver Lake Road exit. Turn left going West on Weaver Lake Road past 2 stoplights to SciMed Place. Turn right on SciMed Place. Three SciMed Place building is the building farthest north from entrance to Boston Scientific. Westbound traffic is heavy during rush hour on I-94/I-694. Please plan accordingly to allow adequate travel time (see location map on page 2).

##### Cost of the Meeting

There will be no cost for the tour.

##### Dinner

After the tour, those interested will get together at Biaggi's Ristorante Italiano at 12051 Elm Creek Blvd., Maple Grove ([www.biaggis.com/maplegrove.htm](http://www.biaggis.com/maplegrove.htm)). There will be a group rate cost of \$30/person charged by the restaurant. This will include dinner, dessert, soft drinks, tax and tip. A cash bar will be available.

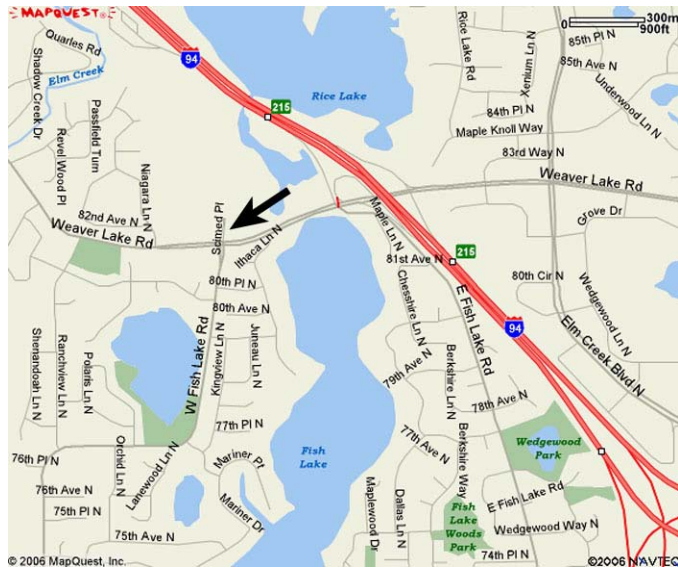
##### Driving Instructions to Biaggi's Ristorante

From Boston Scientific, travel east on Weaver Lake Road until Elm Creek Blvd. Turn right (south) on Elm Creek Blvd. Biaggi's is about 1.5 miles from that intersection. Alternatively, go east on I-94 to the Hemlock Lane exit. Go north on Hemlock Lane to first light which is Main Street. Turn left on Main Street. Biaggi's restaurant will be on right side of Main Street (see location map on page 2).

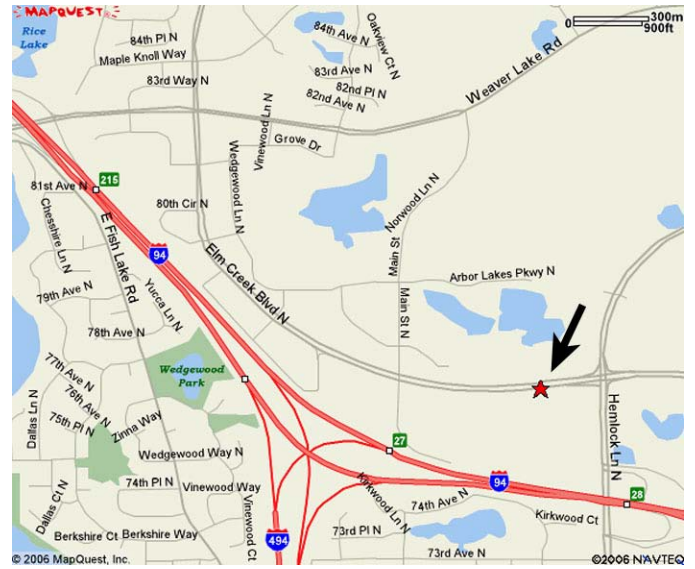
##### Reservations

Reservations for the meeting **MUST** be made no later than **Monday, January 30th**. Contact Robert Lundquist at (763) 494-7945, or by e-mail at [robltt@juno.com](mailto:robltt@juno.com). Include your name and affiliation, and whether you plan to attend the dinner.

## Location Maps for February Meeting



Location map for Boston Scientific at Three SCIMED Place (Weaver Lake Road), Maple Grove.

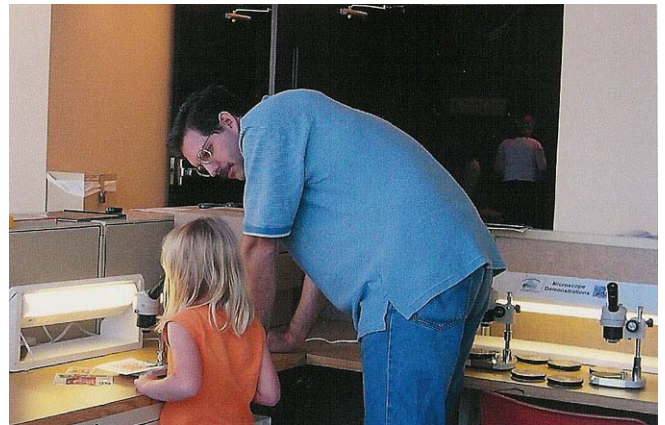


Location map for Biaggi's restaurant at 12051 Elm Creek Blvd., Maple Grove.

## Project MICRO

### November Meeting - Review 3M Tour

The last meeting of the Minnesota Microscopy Society was a tour of 3M's Coated Abrasives Methods Center on November 3rd. We had a big turnout and a great tour. 3M pulled out all the stops, and provided a large group of volunteers to shepherd MMS members around some of their various Abrasives' Labs. We saw some great demonstrations including one involving the use of robotics for automated abrasive finishing of manufactured items. A big thank you to 3M for putting on such a great show.



Project MICRO volunteer Jon Inglefield helps future microscopists (we hope!) at the 3M Visiting Wizards' Super Science Saturday held on 3M's main campus last October. This was the third straight year that Project MICRO has been invited to exhibit at this event, which included an Elementary/Middle School Teachers' Workshop the day before. Over 600 people attended the two events.

## Future MMS Meetings

### MinnTS

(Minnesota Technical Symposium)

Thursday March 16, 2006

MinnTS is an annual joint meeting of area technical and scientific organizations. This will be the fourth such symposium, and the number of sponsoring organization grows each year. MinnTS was started to provide a venue for local technical professionals to get together for networking, dining, and to provide an enriching evening of top quality speakers. Check the MinnTs web site at [www.MinnTS.org](http://www.MinnTS.org) for all the late breaking news on the meeting.

#### Location

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

#### Tentative Schedule

5:00 - 6:00	Registration, Tours and Social
6:00 - 7:00	Dinner
7:00 - 7:10	Welcome & Speaker 1 Introduction
7:10 - 7:55	Speaker 1 & Questions
7:55 - 8:05	Break
8:05 - 8:10	Speaker 2 Introduction
8:10 - 8:55	Speaker 2 & Questions

#### Menu

- ◆ Garden salad with assorted dressings
- ◆ Bakery fresh rolls and butter
- ◆ Herb crusted chicken with pan glaze, or Salmon with lemon and dill, or Wild mushroom strudel
- ◆ Rice or potatoes
- ◆ Steamed carrots
- ◆ Asst Desserts (mini tarts, chocolate dipped fruits, mini cakes and pies)
- ◆ Assorted soda and water
- ◆ Coffee service with hot tea

#### Tours

Tours of the Medtronic laboratories will be available again this year. If you are interested in going on one of the tours, please arrive at 5:00 to make sure you can complete the tour before dinner.

**Meeting Topic:** "Alternative Energy Sources"

Speaker 1: John Goodman, Entegris. John is an expert in Fuel Cell technology and has given many talks on the subject.

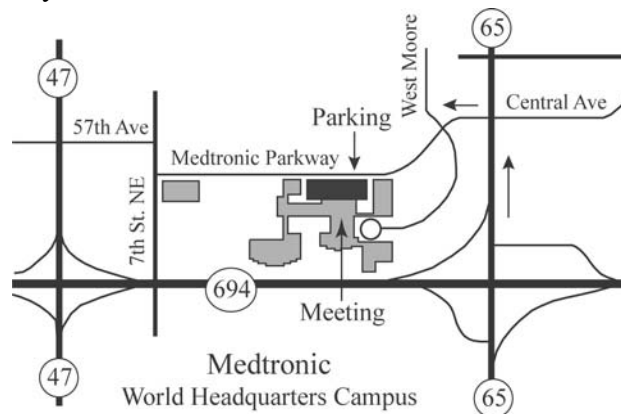
Speaker 2: To be announced

#### Sponsoring Organizations

American Chemical Society, MN Ch. (ACS)  
American Institute of Chemical Engineers,  
Upper Midwest Section (AIChE)  
American Society for Materials, MN Ch. (ASM)  
American Vacuum Society, MN Ch. (AVS)  
Electrochemical Society (ECS)  
Minnesota Microscopy Society (MMS)  
Society for Applied Spectroscopy, MN Ch. (SAS)  
SEMI-MN  
Society for Information Display, Midwest Ch. (SID)

#### Registration

Reservations for the meeting **MUST** be made no later than **Monday, March 13th**. Register by e-mail at [reservations@minnts.org](mailto:reservations@minnts.org), or by phone at 651-236-5470 (Bede Willenbring). Include your name and Society affiliation.



Location map for the MinnTS 2006 meeting at the Medtronic world headquarters.

## Future MMS Meetings (cont.)

### MMS Spring Symposium

Friday April 21, 2006

**Topic - "Microscopy of Failure Analysis"**

Once again the Minnesota Microscopy Society will be holding its Spring Symposium at the Science Museum of Minnesota. Members should note that the meeting will be held earlier than usual this year. In recent past it was held on the first Friday of May. This year the Symposium is in April to avoid conflicting schedules with school, and to attempt to attract more student members.

**Location:**

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

## Memorial

Stanley L. Erlandsen

Stan passed away peacefully on Dec. 5th. For many years, Stan was an active member of the Minnesota Microscopy Society. He was also a past President of the Microscopy Society of America. As many members know, Stan held the position of Professor in the Medical School at the University of Minnesota. He was internationally recognized for research on the intestinal parasite Giardia, and for his electron microscopy expertise. His collaborations triggered seminal contributions in microbiology, leukocyte and platelet biology. Stan will be greatly missed by the Society.

## Other Upcoming Meetings

### M&M 2006

(Microscopy and Microanalysis)

**Location:**

Navy Pier, Chicago, IL

**Dates:**

July 30 - August 3, 2006

**More Information:**

<http://MM2006.microscopy.org>

### Scanning 2006

**Location:**

Hotel Washington, Washington, D.C.

**Dates:**

April 25 - April 26, 2006

**More Information:**

FAMS, Inc.  
P.O. Box 485, Mahwah, NJ, 07430-0485  
201-818-1010; [www.scanning.org](http://www.scanning.org)

### Minnesota Academy of Science

**Location:**

Macalester College  
1600 Grand Avenue, St. Paul, MN

**Dates:**

April 28 and 29, 2006

## Minnesota Microscopy Society Travels to “M&M 2006”

This year Microscopy and Microanalysis 2006 will be held in our backyard - Chicago. As discussed briefly at last year's Spring Symposium, we thought there might be some interest in going to Chicago as a group. So, we are looking into the viability of a charter bus.

The charter bus would hold up to 47 passengers and would include rest room facilities on board. It would pick us up at a predetermined location in the Metro area on a specific day and deliver each to your individual hotel. The ride is nonstop and takes about seven hours. After the conference, the bus would pick us up in Chicago at a set time and return us to the Metro area launch site.

Costs: The total cost of the charter bus is about \$4000 round trip. If 20 people sign up, it would be about \$200 per person (less if there are more people). Remember, there would be no additional transportation costs, as there would be if going by air (e.g. taxi from airport to hotel).

If you are interested, please give us some feedback. Let us know:

- 1) If we have enough people sign-up, and MMS can arrange a group trip, would you be interested in going by bus? Y N
- 2) Which day would be better to leave for Chicago?
  - a. Friday July 28<sup>th</sup>
  - b. Saturday July 29<sup>th</sup>
- 3) Which day would you prefer to return on?
  - a. Thursday August 3<sup>rd</sup>
  - b. Friday August 4<sup>th</sup>
- 4) Would your company or institution allow you to travel this alternative way?

Please respond ASAP to Mike Coscio at 763-505-4561 or [mike.coscio@medtronic.com](mailto:mike.coscio@medtronic.com). We will try to put this together if there is enough interest.

## Membership Notice

The Minnesota Microscopy Society's bylaws state that the bylaws can be changed at any regular meeting provided that members receive notice of the proposed change(s) by mail, at least 30 days prior to that meeting.

At the Spring Symposium the board would like to bring up two matters for consideration by members of the Society. First, the board would like to propose modifying the bylaws so that notification of upcoming bylaw discussions do not have to be done by “mail”. Given the changes in technology that have occurred since the bylaws were written, the board would like to modify them so that notice can be made by newsletter, regardless of whether it is sent out by mail, e-mail, or is posted on the Society's web site.

The second issue for discussion is the matter of the when dues are paid. Presently the bylaws state that the Society's year runs from October 1 to September 30. When it comes to paying dues, this can be confusing. Often people will pay their dues at the Spring Symposium and it is not clear as to whether those dues are for the past year or for the upcoming year. The Board would like to change the Society's year, in regards to dues, to the calendar year. Dues that are paid in a given calendar year would apply to that year.

Come to the Spring Symposium and put in your two cents' worth!!!

## Sustaining 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.

Tony Bourgholtzer	<b>Foundation for Advances in Medicine &amp; Sci.</b>	201-818-1010
Michael Boykin	<b>Mager Scientific, Inc.</b>	734-426-3885
Mike Coscio		
Matt Dugas	<b>ARCB</b>	651-789-9000
Charles Garber	<b>SPI Supplies</b>	215-436-5400
Larry Hanke	<b>Materials Evaluation &amp; Engineering Inc.</b>	763-449-8870
Mark Kelsey	<b>PGT</b>	708-386-9684
Ken Kilby	<b>Leeds Precision Instruments</b>	612-546-8575
Jim Liddle	<b>HITACHI High Technologies America, Inc</b>	847-273-4359
Peter McSwiggen	<b>McSwiggen &amp; Associates</b>	612-781-2282
Ruth Murray	<b>Oxford Instruments USA</b>	859-384-9861
Steven Neptun	<b>FEI</b>	847-277-9364
John Newman	<b>Evans Phi</b>	
Ted Pella	<b>Ted Pella, Inc.</b>	800-237-3526
Hugh Robinson	<b>Crane Engineering and Forensic Services</b>	763-557-9090
Gary Saxrud	<b>Fryer Company, Inc.</b>	952-942-6747
John Treadgold	<b>Carl Zeiss SMT</b>	630-497-8166
Bede Willenbring		
Ken Witherspoon	<b>IXRF Systems, Inc.</b>	281-286-6485

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

Erin Brown	Ecolab Inc., St. Louis Park	Susan Okerstrom	Medtronic Inc., Brooklyn Center
Mary Buckett	3M Company, St. Paul	<b>Ev Osten</b>	3M Company, St. Paul
Barry Carter	University of Minnesota, Mpls	<b>Ann Palmer</b>	University of Minnesota, Mpls
Ellery Frahm	University of Minnesota, Mpls	<b>Jeff Payne</b>	3M Company, St. Paul
Chris Frethem	University of Minnesota, Mpls	<b>Ky Pham</b>	Medtronic Inc., Mpls
John Humenansky	Guidant Technology, Arden Hills	<b>Patricia Sanft</b>	H.B. Fuller Co., St. Paul
Robert Lunquist	Boston Scientific, Mpls	<b>Ove Thompson</b>	FEI Company, Excelsior
Stuart McKernan	University of Minnesota, Mpls	<b>Mark Windland</b>	Honeywell, Plymouth
Eric Morrison	Ecolab Inc., Mendota Heights	<b>Klaus Wormuth</b>	SurModics, Eden Prairie

## MMS BOARD and OFFICERS 2005-2006

**President:** Jason Heffelfinger, Medtronic Inc.,  
6700 Shingle Creek Parkway, Brooklyn Center, MN 55350;  
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**Past-President:** Dwight Erickson, 3M Center, Bldg.  
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Copy Editing: Barbara Meier

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(763) 505-4561; mike.coscio@medtronic.com

**ProjectMicro Director:** Jeff Payne, 3M Center,  
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Peter Yurek, Medtronic Inc., Minneapolis, MN;  
peter.yurek@medtronic.com

## 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

or pay by credit card by going to the MMS web site at: [www.MNmicroscopy.org](http://www.MNmicroscopy.org)

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 \_\_\_\_\_

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

Forwarding and Address  
Service Requested

**February 2, 2006**

***Tour of Boston  
Scientific***