

# Minnesota Microscopy Society

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



Newsletter

February 2009

## "Nano-probing Warm and Frozen Samples: TEM Capabilities at the University of Minnesota"

**Location:** University of Minnesota, Minneapolis, MN  
Shepherd Labs and Nils Hasselmo Hall  
100 Union St. SE 312 Church St. SE

**Date:** Thursday, February 19, 2009

### Schedule:

- 5:30 - 6:00 p.m. Registration, North Entrance of Shepherd Labs.
- 6:00 - 6:30 p.m. Comprehensive Tour of Shepherd Labs
- 6:30 - 7:00 p.m. Tour of Nils Hasselmo Hall Labs
- 7:00 - 9:00 p.m. Dinner and Presentations 4-101 Nils Hasselmo Hall

### Speakers:

- Dr. Ozan Ugurlu "High-End TEM Capabilities at Characterization Facility"
- Dr. Wei Zhang "Cryo-TEM in a nutshell"

Additional information about the speakers can be found at these links:

Ozan Ugurlu: <http://www.charfac.umn.edu/staff/ugurlu.html>

Wei Zhang: <http://www.charfac.umn.edu/staff/zhang.html>

### Registration:

The cost of the meeting will be \$10, which will cover dinner (Subway sandwich, chips, cookie, pop). The registration deadline is **Thursday, Feb. 12th, 5PM.**

Register by contacting Bede Willenbring via email at [reservations@mnmicroscopy.org](mailto:reservations@mnmicroscopy.org) (preferred), or phone at 651-236-5470. Please specify preference of turkey or ham sub, and include with your reservation your name, company and contact information.



**Minnesota Microscopy Society  
Treasurer's Report  
01/01/2008 Through 12/31/08**

INCOME

Dues	3,660.00
Interest Income	440.98
Meeting Registration	5,202.27
Other Income (MinnTS Fund, Proj. Micro)	200.00
Spring Symposium 2008 Income	4,740.00

TOTAL INCOME

14,243.25

EXPENSES

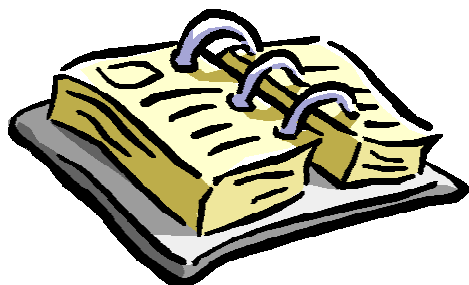
Credit Card Fees	399.98
Meeting Expenses	6,375.61
Miscellaneous	726.16
Newsletter	96.21
Project Micro	216.45
Spring Symposium 2008 Expense	4,574.59
Spring Symposium 2009 Expense	40.00

TOTAL EXPENSES

12,429.00

OVERALL TOTAL

1,814.25



**Upcoming Events**

**February 19**

Characterization Facility Tour, U of M

**March 19**

MinnTS (see below)

**May 8**

Spring Symposium: "Imaging in Medicine"

March Meeting:  
**MinnTS '09 "The Fall and Rise of the 35W Bridge"**  
Thursday, March 19th at Medtronic Headquarters  
See [www.MinnTS.org](http://www.MinnTS.org) for further details.

## 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.

Joel Ash	<b>Focus Precision Instruments</b>	952-380-3696
John Benson	<b>Thermo Electron</b>	608-826-9049
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Mike Coscio	<b>Medtronic Inc.</b>	763-505-4561
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Matt Dugas	<b>ARC</b>	651-789-9000
Lester Engel	<b>Engel Metallurgical Ltd.</b>	320-253-7968
Chris Frethem	<b>University of Minnesota</b>	612-624-4652
Jeff Gschwend	<b>Hitachi HTA</b>	847-816-6098
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Gary Hawkinson	<b>FEI Company</b>	608-291-0157
Brad Johnson	<b>North Central Instruments, Inc. / Leica</b>	
Tyler Kelley	<b>Keyence</b>	201-930-0100
Mark Kelsey	<b>Bruker AXS Microanalysis</b>	708-386-9684
Stacie Kirsch	<b>Electron Microscopy Sciences / Diatome</b>	
Laurie Krupa	<b>EDAX</b>	312-238-0260
Peter McSwiggen	<b>McSwiggen &amp; Associates</b>	612-781-2282
Robert Mierzwa	<b>JEOL USA, Inc.</b>	920-803-8945
Kara Noack	<b>Oxford Instruments USA</b>	248-563-2329
Eugene Rodek	<b>SPI Supplies</b>	610-436-5400
Jean Schlosser	<b>Crane Engineering</b>	763-557-9090
Steven Skorich	<b>Medtronic, Inc.</b>	763-514-1335
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Jack Vermeulen	<b>Ted Pella, Inc.</b>	530-243-2200
Ted Weldon	<b>Leeds Precision Instruments</b>	612-546-8575

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 Kathy Hough (651-353-8458, [katiu@frontiernet.net](mailto:katiu@frontiernet.net)).

### 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 additional 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.

Gib Ahlstrand	Imaging Center, U of M, St. Paul	Ev Osten	3M Company, St. Paul
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Eric Morrison	Ecolab Inc., Eagan	Jeff Thole	Macalester College, St. Paul
Richard Nay	Hysitron, Mpls	Bede Willenbring	H.B. Fulluer Co., St. Paul
Julia Nowak	Hysitron, Eden Prairie	Mark Windland	Honeywell, Plymouth
Susan Okerstrom	Medtronic Inc., Brooklyn Center	Klaus Wormuth	SurModics, Eden Prairie

### MMS BOARD and OFFICERS 2008-2009

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**Past-President:** Peter Yurek, Medtronic Inc.,  
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**Treasurer:** Bede Willenbring, H.B. Fuller Co.,  
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**Newsletter Editor:** Kathy Hough,  
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**Other Board Members**

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**Reminder: Membership in MMS runs from January through December. Dues are now due.**

*Please watch the MMS website for an upcoming fill-and-print pdf version of the membership form...*

**Minnesota Microscopy Society – Membership Form**

All microscopists are urged to support their Society at one of the membership levels offered below. 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 \_\_\_\_\_

**\*A legible e-mail address is critical for delivery of your newsletter.  
 Newsletters are sent via email only.**

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? \_\_\_\_\_  
 Student (\$5) \_\_\_\_\_ Basic (\$10-\$24) \_\_\_\_\_ Patron (\$25-\$99) \_\_\_\_\_ Corporate Sustaining (\$100- ) \_\_\_\_\_  
 Payment: \_\_\_\_\_ Check \_\_\_\_\_ Visa \_\_\_\_\_ Mastercard \_\_\_\_\_ American Express  
 Credit Card Number: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Exp. Date: \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

**Signature (for credit card payment):** \_\_\_\_\_  
 Make checks payable to MMS and mail to our Treasurer:  
 Bede Willenbring, MMS Treasurer, 4763 Decatur Ave. North, New Hope, MN 55428-4402