

# Minnesota Microscopy Society

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

## Newsletter

MMS Newsletter goes "paperless" ...  
Final Print Edition!



September 2008

## Physical Electronics Tour Tuesday, September 23, 2008

The Minnesota Microscopy Society's September meeting will be a tour at Physical Electronics, USA.  
We will be observing demonstrations of XPS, AES, and TOF-Sims.

### Location

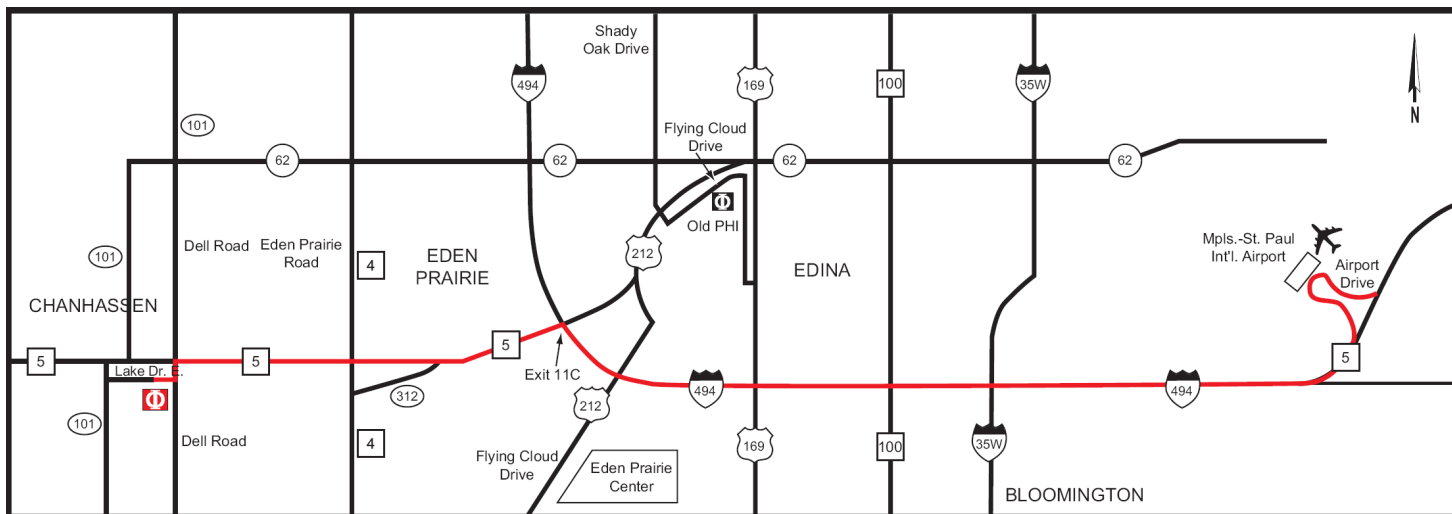
Physical Electronics, USA  
18725 Lake Drive East  
Chanhassen, MN 55317

### Schedule

- 5:00 - 6:00 PM  
Reception - Snacks, drinks served.
- 6:00 - 7:30 PM  
Demonstration of XPS, AES and TOF-Sims –  
Split into 3 groups, 30 minutes each technique.
- 7:30 - 8:00 PM  
Tour of PHI Facilities
- 8:00 - 9:30 PM  
Buffet style dinner served at PHI.  
During dinner, talks for 20-30 minutes each:
- "High Spatial Resolution Surface Analysis",  
John Moulder
  - "Surface and 3D Biomolecular Imaging  
with TOF-SIMS", Greg Fisher

### Registration

The cost of the meeting will be \$15. The registration deadline is **Wednesday, Sept 17th, 5PM**. Register by contacting Bede Willenbring via email (preferred) at [reservations@mnmicroscopy.org](mailto:reservations@mnmicroscopy.org), or phone at 651-236-5470. Please include with your reservation your name, company and contact information.



From the Minneapolis-St. Paul airport travel west on Highway 494 to exit 11C.  
Travel west on Highway 5 to Dell Road.  
Turn left onto Dell Road and travel a short distance to Lake Drive.  
Turn right onto Lake Drive and proceed to the second office park entrance on the left.  
PHI is located in the southern half of the building on the left.  
Reserved visitor parking spaces are located to the left of our main entrance door.



## Project Micro Invades Science Museum!

Text: Ann Palmer

Images: Stuart McKernan

A huge THANK YOU to Gib Ahlstrand, Stuart & Janet McKernan, Lee Penn, Burton & Muriel Gavin, and Ann Palmer for volunteering in Project MICRO at the Science Museum's Entomology Day on Saturday, June 28, 2008! Ann Palmer organized and coordinated Project MICRO that day. Everyone brought insect specimens to share. [There was no room or need for other Project MICRO demos.] The tiger swallowtail butterfly and the rose bush shiny green weevils were the chosen favorites by visitors to view with our stereoscope + photo printer. Kids chose a bug view and took a photo print home. We had a steady stream of family crowds for 3 hours straight. Visitors also enjoyed Muriel's model of an EM Lab. Some adult visitors shared some of their memorable college days spent in an EM Lab. Lee showed kids what the color purple (on MMS logo) looked at stereo high mag, which showed different colored dots from the inkjet printer, including yellow. What a great successful fun-filled day! The Museum has asked Project MICRO to return this Fall, either in September or October--during the CSI: The Exhibit, which opens Oct. 15.

☐



Even Darth Vader (from Star Wars: The Exhibit) couldn't stay away from our scopes! And Lord Vader was thankful for the photo print, showing himself using our stereoscope with Gib---complete with a MMS sticker on the back (quick work done by Stuart).

**Upcoming Events****September 9**

MMS Board Meeting, Roseville Olive Garden

**October/November (tentative)**

EELS Workshop hosted by U of M, sponsored by Gatan and FEI

**November 11**

Sand microscopist Gary Greenberg, hosted by Bethel College

**January/February (tentative)**

Confocal Microscopy Workshop

Characterization Facility Tour, U of M

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**PLEASE NOTE:**

**This edition of the MMS Newsletter (September 2008) is the final paper copy publication. All future editions will be emailed to members' email address on record. If you think MMS may not have your current email address, or you did *not* receive a copy of this edition via email, please contact Bede Willenbring at [Treasurer@mnmicroscopy.org](mailto:Treasurer@mnmicroscopy.org), to prevent a gap in your MMS Newsletter subscription!**

## 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.

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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](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.

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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. 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.  
After the September 2008 issue, newsletters will be 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

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#### Minnesota Microscopy Society

Kathy Hough, MMS Editor

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Farmington, MN 55024

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