

Minnesota Microscopy Society

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



Newsletter

March 2010

MinnTS (Minnesota Technical Symposium)

Thursday, March 18, 2010

Schedule:

- 5:00 – 6:00 Registration, social with refreshments
- 5:00 – 5:30 Medtronic Lab tours (departing every 5 minutes)
- 6:00 – 7:00 Dinner (followed by move into auditorium)
- 7:00 – 7:15 Welcome message, introductions (Gary Korba)
- 7:15 – 8:00 **Clean Energy Technology 2010 - Jim Turnure**
- 8:00 – 8:15 Break
- 8:15 – 9:00 **The Promise of Photovoltaic Technologies – Scott Stephens**

Reservations:

Cost for MinnTS is \$25. Reservations are being taken thru Friday, March 12, 11:59PM. Please make your reservation by either:

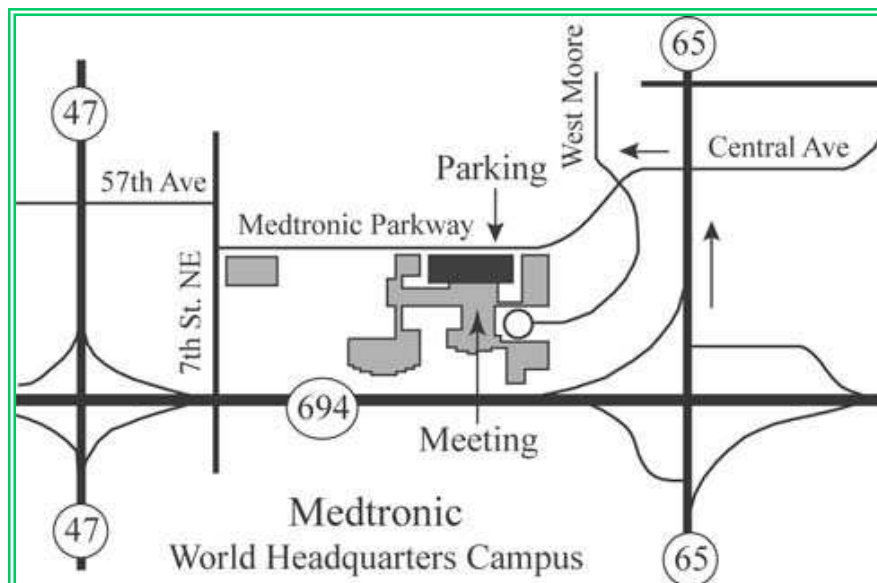
e-mail (preferred): reservations@minnts.org

or phone: Bede Willenbring, H.B. Fuller Company; 651-236-5470 (9AM - 5PM)

Please include your name, affiliation, the sponsoring society to which you belong, and a phone number at which you can be reached. **Cancellations must be received before March 13.**

Dinner Menu:

- Garden salad with assorted dressings
- Bakery fresh rolls with butter
- Herb crusted chicken with pan glaze
- or
- Wild mushroom strudel
- Potatoes
- Steamed carrots
- Assorted desserts (mini tarts, chocolate dipped fruits, mini cakes and pies)
- Assorted soda and water
- Coffee service with hot tea



Location

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

(Parking is in the ramp north of the building. Visitors enter on the third level.)

MinnTS (continued) Speakers



Jim Turnure, Xcel Energy
“Clean Energy Technology 2010”

Abstract

An overview and outlook covering major areas of energy technologies, with an emphasis on electric power in North America. Underlying drivers of technological change include R&D, governmental and regulatory policy, market conditions, and changes in social attitudes. Economies of scale, risk management and environmental constraints foster new breakthroughs in areas such as wind, biomass, distributed generation, storage and 'smart grid' applications. A portfolio of demand and supply technologies is called for, with support for new technology within an overall competitive framework. Examples of scale-up and commercialization will illustrate the limits of any single 'silver bullet' approach.

Bio

Jim Turnure is Environmental Policy Manager for the Xcel Energy service territories in Minnesota, Wisconsin and the Dakotas. He is responsible for developing environmental business opportunities and for coordinating aspects of corporate environmental policy including climate change, air emissions regulation and renewable energy. Mr. Turnure has spent 15 years in the electric power industry including positions with the US EPA, FERC and Pacific Gas & Electric, and holds degrees from the University of Chicago and Harvard University. Xcel Energy is the fifth-largest US electric and natural gas utility, serving 3.1 million electric and 1.2 million gas customers in portions of eight Western and Midwestern states, and is the #1 provider of wind power nationwide.

Conference information generously provided by: www.MinnTS.org
Please visit the website for additional information.

MinnTS (continued)

Speakers

Scott Stephens

“The Promise of Photovoltaic Technologies”



Abstract

Photovoltaic (PV) technologies have demonstrated remarkable progress and growth over the past 40 years yet remain a relatively insignificant fraction of our total energy consumption. The U.S. Department of Energy Solar Program is forecasting this progress to continue and that, over the next 5 years, close to 10GW of newly added capacity will be installed in the U.S. alone. This presentation will provide a discussion of the key advantages PV systems offer, an overview of research and development efforts that promise lower costs and improved performance, and a vision of how this technology may mature over the next 5-20 years.

Bio

Scott Stephens is a photovoltaic technology manager for the U.S. Department of Energy's (DOE) Solar Energy Technologies Program. At the DOE, he oversees the scoping, evaluation, and implementation of technology development grants. Currently the Solar program's PV portfolio includes over 100 industry and university-led PV projects with total funding of over \$100M per year. Prior to working with the DOE, Mr. Stephens worked for the U.S. Patent Office examining applications pertaining to optical systems including solar concentrating systems. He holds a M.S. in physics from the University of Delaware where he characterized the optical properties of PV thin films at the Institute of Energy Conversion and a B.A. in physics from Gustavus Adolphus College.

Conference information generously provided by: www.MinnTS.org
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Upcoming Events

March 3

MMS monthly Board meeting.

March 18

MinnTS, Medtronic

March 28-April 1

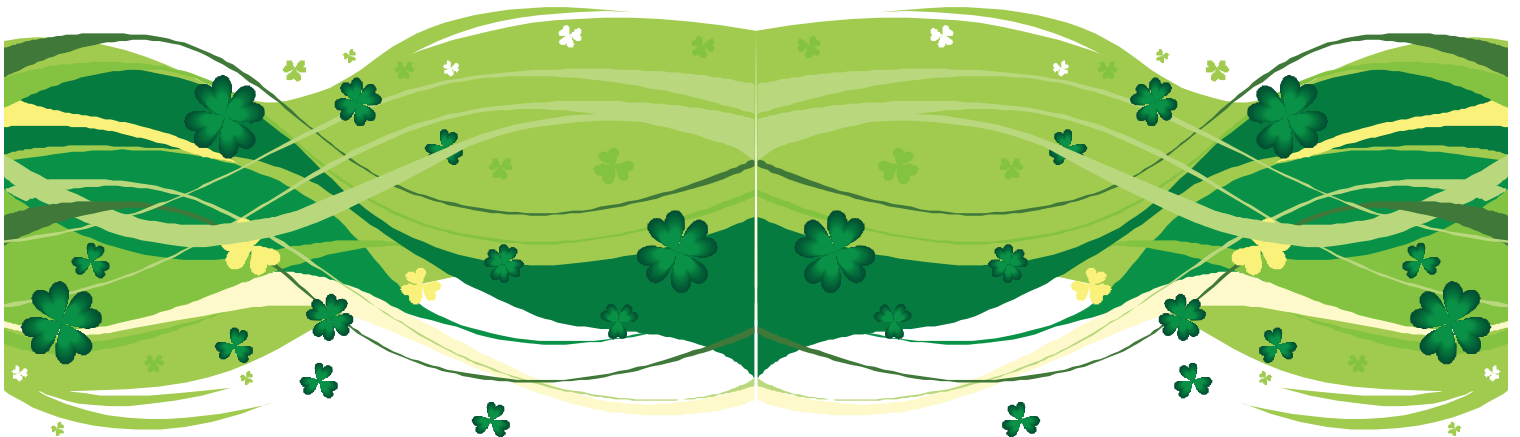
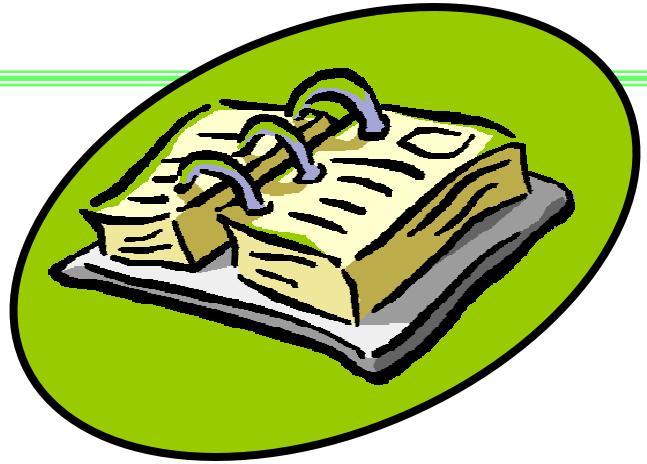
32nd Annual International Cement Microscopy Association (ICMA) Conference, New Orleans (www.cemmicro.org)

May 7th

MMS Spring Symposium, Science Museum

May 19

JEOL /Thermo Users meeting at Medtronic



Vendor Announcements:

If you are a local vendor with information to share, please contact either Jason Heffelfinger (jason.r.heffelfinger@medtronic.com) or Kathy Hough (katiu@frontiernet.net) for deadline and content guidelines.



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)

or Kathy Hough (651-353-8458, 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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Reminder: Membership in MMS runs from January through December.
Have you paid your 2010 dues?

Please visit the MMS website, www.MNmicroscopy.org, for a 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