

# Minnesota Microscopy Society

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



## Newsletter

January 2004

### Minnesota Microscopy Society - February Meeting

Thursday, February 19, 2004

#### Imation and the Columbia Space Shuttle's "Blackbox"

The next MMS meeting will be held at Imation Corporation on February 19th. We have been lucky enough to line up two Imation speakers who will give us an introduction to some of Imation's newest digital storage systems, a tour of the Imation facility, and a look at Imation's involvement in the data recovery from the "blackbox" of the Columbia Space Shuttle.

#### Location:

Imation Corp., Discovery Building  
1 Imation Place, Oakdale, MN 55128  
(see location map on page 2)

Imation is a leading developer and manufacturer of removable data storage products sold in over 60 countries worldwide. Imation's offerings include magnetic and optical products that are key ingredients in much of the world's technology infrastructure.

#### Schedule of Events:

<b>Registration</b>	5:00 PM - 5:30 PM
<b>Talk:</b> "Introduction to Imation and the Multi-Terabyte Storage System" by Rich Jewett	5:30 PM - 6:00 PM
The multi-terabyte tape storage system is a development program sponsored by NIST and involves 5 partner companies. Its goal is to store 25-33 terabytes on a standard data cartridge used in the Enterprise Storage system environment.	
<b>Talk:</b> "Roll Coating of Magnetic Media at Imation" by Joe Skorjanec	6:00 PM - 6:30 PM
The Imation Roll Coater is designed to coat the sputtered metal film on flexible substrate. Sputtered metal film is the next giant step in tape storage media for the future.	
<b>Imation Tour</b>	6:30 PM - 7:30 PM
<b>Talk:</b> "Cleaning of Recovered Space Shuttle Columbia Data Tapes" by Rich Jewett	7:30 PM - 8:30 PM
In March of 2003, following the Columbia disaster, Imation was asked to assist NASA in the recovery of data from the OEX recorder. This presentation will provide an overview of the forensic activity surrounding the data recovery.	

**Dinner:** Pizza and soft drinks will be provided, starting at around 5:15 PM.

*(MMS February Meeting cont.)*

### Cost of the Meeting

The cost for the meeting and dinner is \$10.

### Reservations

Reservations for the meeting **MUST** be made no later than **Monday, February 16**. Contact Bede Willenbring at Bede.Willenbring@HBFuller.com or by phone at (651) 236-5470 to make your reservation.

**Due to space limitations we can only handle a maximum of 50 people at this meeting. If you want to attend, get your reservations in early.**

### Imation Location

Imation corporate headquarters are located just east of Interstate 694 and north of Highway 5, in Oakdale. The meeting will be held in their Discovery Building. The atrium can be recognized by a distinctive funnel on its outside (enter here).

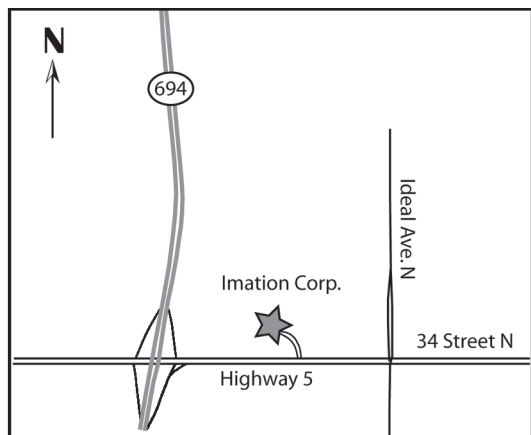
Parking is out front and is no cost.

## Microscopy and Microanalysis 2004

### Upcoming MSA and MAS Meeting

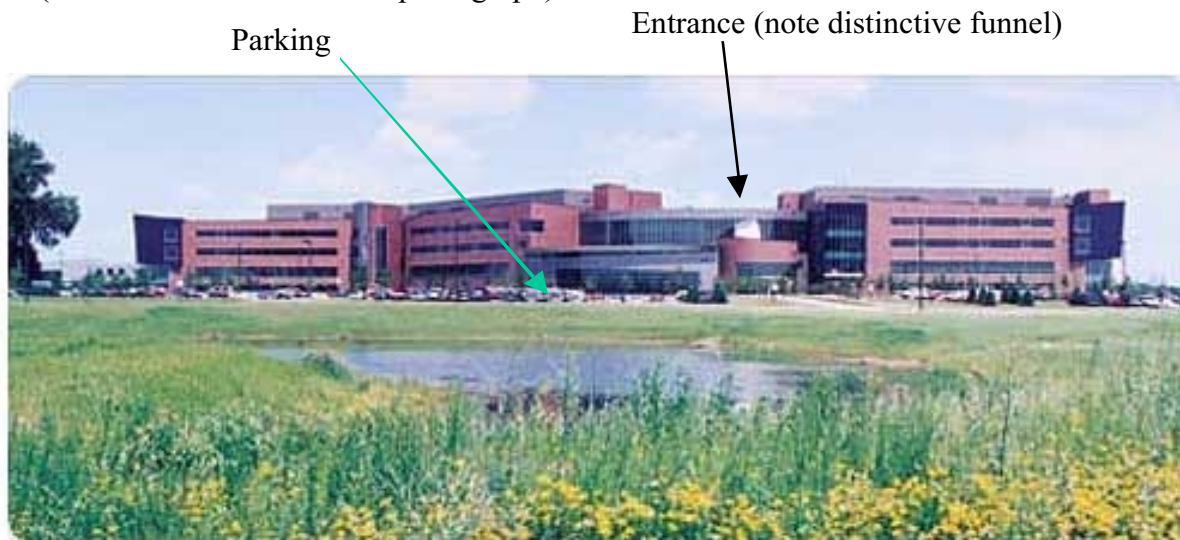
This year the Microscopy and Microanalysis Conference will be held August 1st - 5th in Savannah, GA. Savannah is a charming old southern town with lots of history and things to do. It is a beautiful city with elegant antebellum mansions and restored houses, lovely city squares with stately old trees draped in Spanish moss, and fabulous restaurants with gracious service.

Abstracts for this meeting are due February 16th. All abstracts are to be submitted electronically. The submission web site can be reached from the Meeting home page at <http://mm2004.microscopy.org>.



## Imation complex as observed facing NW

(I-694 runs N-S behind this photograph)



## Minnesota Microscopy Society's

March Meeting

### MinnTS 2004

Annual Minnesota Joint Technical Symposium

March 18, 2004 (4:30 - 9:00 PM)

The MMS-ASM annual joint meeting has grown so much that it has become its own symposium. It is now known as the Annual Minnesota Joint Technical Symposium or MinnTS (pronounced "mints") for short. This year the participating Societies will include the Minnesota Microscopy Society (MMS), Materials Information Society (ASM), American Chemical Society (ACS), American Vacuum Society (AVS), Semiconductor Equipment and Materials International (SEMI), and the Society for Information Display (SID).

Join us for a great evening including dinner, cross-society networking, tours, and two outstanding technical talks at the corporate headquarters and research center of Medtronic, Inc.

#### "Web Coatings for Fun and Profit"

*A guided tour through the world of challenges in web coating.*

Dr. Donald McClure,

Sr. Research Specialist, 3M

#### Other - TBA

**Location:** Medtronic Corporate Headquarters  
Hwy 694 & Hwy 65, Fridley, MN

**Tours:** Medtronic's Microscopy Center

#### Reservations:

Reservations for the meeting **MUST** be made no later than **Friday, March 12**. Contact Mike Coscio at [mike.coscio@medtronic.com](mailto:mike.coscio@medtronic.com) or by phone at (763) 505-4561 to make your reservation. Cost will be \$30.

Please include with your reservation, your name, **society affiliation**, employer, phone number and e-mail address.

MMS

## Spring Symposium

Our Digital World

Friday, May 7, 2004

Again this year the MMS Spring Symposium will be held at the Science Museum of Minnesota. As in the past, it will be a full day symposium focused on a single topic. This year's topic is, "Our Digital World." The days of Polaroid pictures are gone. Today, digitally capturing images is the more cost effective and versatile approach. So what do we need to know about the various strategies for acquiring, storing, and displaying images?

The keynote speaker will be John MacKenzie from North Carolina State University. He frequently offers a short course on this subject through the Microscopy Society of America. Emphasis will be on basic principles of input, storage, output, and networking, with special attention paid to affordable solutions and components.

#### Digital Micrograph Contest

At the MMS Spring Symposium, there will be a contest for the best digital micrographs. There will be two categories for entries, unaltered and enhanced. Each MMS member may enter one image in just one of the two categories. First and second place prizes will be awarded in both categories. The best images will be used for next year's MMS poster. To enter, you must be a MMS member and agree to allow the Society to use your image in upcoming publications.

#### Upcoming Project Micro Event

Project Micro will be presenting at the Mathematics Family Fun Fair on Saturday, March 6, 2004 at the University of Minnesota - Earle Brown Education Center (St. Paul Campus).

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## 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](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 a 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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**Your MMS Annual Membership dues are payable in September/October!**

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 (\_\_\_\_) \_\_\_\_\_

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

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

Area of interest: Bioscience \_\_\_\_\_ Materials Science \_\_\_\_\_ SEM \_\_\_\_\_ TEM \_\_\_\_\_ X-ray \_\_\_\_\_

Basic \$10 \_\_\_\_\_ Patron ≥ \$25 \_\_\_\_\_ Corporate Sustaining \$100 \_\_\_\_\_ Student \$5 \_\_\_\_\_

**Make checks payable to MMS and mail to our treasurer:****Bede Willenbring, MMS Treasurer, 4763 Decatur Ave. North, New Hope, MN 55428-4402**

**Minnesota Microscopy Society**  
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Forwarding and Address  
Correction Requested

*Imation and  
Columbia "Blackbox"*  
February 19, 2004