

# Minnesota Microscopy Society Newsletter

Local affiliate of Microscopy Society of  
America  
Local affiliate of Microbeam Analysis  
Society



## MMS November NEWSLETTER

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Mark your calendars now for the following two interesting, educational and social events coming up this fall. Thanks go to Mark Cavaleri, MMS Program Chair, for making the arrangements. If you have any ideas for future program topics or tours, please contact Mark at (612)733-3247, or by e-mail at: [mecavaleri@mmm.com](mailto:mecavaleri@mmm.com)

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## GUIDED TOUR: UPPER MIDWEST CONSERVATION ASSOCIATION

**Thursday, November 14, 1996**  
**Minneapolis Institute of Arts**

MMS is sponsoring a tour of the Upper Midwest Conservation Association facilities at the Minneapolis Institute of Arts, 2400 3rd Ave. South. Free parking is available in the ramp located at south side of the MIA/Children's Theatre building. The tour will be on Thursday November 14th starting at 6:00 PM and we will meet up in the main lobby of MIA just prior to 6:00 PM. The tour will probably be led by Kristen Cheronis, an object conservator at MIA. The tour will last about two (2) hours.

Some people may want to tour the Art Institute Galleries before or after the tour (for exhibition information: 870-3200). The Institute is open until 9:00 PM on Thursday's and there is no charge but they do request donations.

We could try to find a nearby location for a post-tour social hour. The Black Forest Inn at 1 East 26th St (corner of Nicollet Ave. and 26th, park on streets or in lot south side of Inn off Nicollet Ave) just a few blocks south of the MIA, has been suggested. Its a fine German Restaurant! If interested in this social hour, contact Mark, we need to give a head count to the Inn for table set-up.

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# MMS & IS&T Joint Dinner Meeting

**December 12, 1996**

**TOPIC:** Microscopy of Imaging Materials

**SPEAKER:** Mary McCann

**LOCATION:** Cherrywood Room,  
St. Paul Campus, University of Minnesota

Minnesota Microscopy Society is having a joint meeting with the Imaging Science and Technology Society on Thursday, December 12, 1996 at the Cherrywood Room, St. Paul Campus Student Center, University of Minnesota. Our speaker, Mary McCann, is a traveling speaker for IS&T, she is one of their resident microscopists and was formerly with the Polaroid Corporation. For more information on IS&T check out their homepage at: [HTTP://www.imaging.org/index.html](http://www.imaging.org/index.html).

This will be a dinner meeting starting at 5:30 PM with a wine & cheese social, dinner buffet at 6:00 PM, Talk at 7:00 PM. We will hold a short business meeting just before the talk. The Buffet Dinner is \$10.00 per person payable at the door.

(non-member \$20.00, includes new membership), \$7.00 for current students(non-member student \$12.00, includes new membership). In order for us to provide an accurate head count to the Cherrywood Room, please make a phone reservation by contacting Gib Ahlstrand at (612)625-8249 or e-mail: [giba@puccini.crl.umn.edu](mailto:giba@puccini.crl.umn.edu).

## **Talk Abstract: Microscopy of Imaging Materials**

The current level of quality of imaging materials is due in part to information feedback from microscopy. Imaging scientists have used microscopy to gain understanding of basic mechanisms of their systems, to establish calibration of manufacturing processes of components, and to analyze defects in prototypes and products.

The aim of this talk is to acquaint imaging scientists with the range of microscopies available for characterization of their materials, and to acquaint microscopists with a variety of imaging systems. Specific microscopy examples will include light and interference microscopy of thermal dye diffusion sheets, and electron and ion microscopy of silver halides. Newly developed scanning probe microscopies will also be discussed. Imaging materials will include silver halides, an ablative transfer system, and holographic materials.

Mary McCann joined Polaroid Corporation after receiving her bachelors degree in chemical engineering from Tufts University. She has been engaged in the microscopy and analysis of imaging systems throughout her career. She has also been active in the development of photomicrography applications of Polaroid cameras and films. Since retiring from Polaroid in 1995, Ms. McCann has been consulting, organizing microscopy courses, and teaching light microscopy.

She has chaired sessions on Microscopy in Imaging Science at recent IS&T meetings, and is presently co-chair of the 50th Annual Meeting to be held in Boston in May of 1997. She was also editor of the IS&T books, Edwin H. Land's Essays, Vol. I, Polarized Light and Instant Photography, Vol. II, Science, Education and Industry, and Vol. III Color Vision.

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## **MMS March '97 Meeting**

. Possible joint meeting with American Society of Metals on Forensic Metallurgy

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## **Spring 1997 Symposium**

**Date: May 22 1997**

Our current plans are to have Investigative Microscopy as a topic. Individuals are contacting prospective speakers.

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### **In Memorium: Donald H. Fulton**

**September 3, 1930 - October 11, 1996**

Don Fulton, who often announced himself to customers as "an ol' microscope peddler" will be remembered as the father of light microscope sales in this area. He was a very caring person who took his customer's interests to heart, always trying to find the right product at the right price. He was known for creating unique solutions to unusual customer needs.

Don started selling B & L scopes for Jewelmont in the late 60's and retired from Leeds Precision Instruments on March 1, 1996. Many people will remember Don for his quick wit, easy smile and warm personality.

*"It's not a rainy day....it's a soft day." Don Fulton*

**Sally Cameron, Leeds Precision Instruments**

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## **ATTENTION UNDERGRADUATES: 1997 MSA UNDERGRADUATE SCHOLARSHIP PROGRAM**

This scholarship program is open to Junior and Senior college and university students interested in doing research using ANY microscopy technique as the principal investigative tool. Awards of up to \$2,500 per student/proposal are available. Students should be sponsored by a member of MSA. Submit an

application and brief research proposal by December 30, 1996. Do you know of any undergrads in science to interest in microscopy? Act now. Applications can be obtained from the MSA Business Office at (800)538-3672 or FAX:(508)548-9053.

Additional information and application forms are available from Dr. Ralph Albrecht, Dept. of Veterinary Science, University of Wisconsin, Madison, WI 53706.

(608)263-3952 or -4162, FAX:(608)262-7420.

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## NEWSLETTER CONTRIBUTIONS WELCOMED

Do you have something to say about EM, a new technique, a book you've read that you want to review, a report on an EM meeting or workshop you've attended, or...what? Write it up and send it in on a 3.25 inch disk in Word 5 or 6 for Macintosh. Other text formats are acceptable, or you can e-mail it to:

[giba@puccini.crl.umn.edu](mailto:giba@puccini.crl.umn.edu). Disks will be returned. Send your stuff to newsletter editor Gib Ahlstrand at the address given under the Board Directory near the end of this newsletter.

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## LIGHT REFLECTIONS

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Oh. Light! that poets oft do sing,  
And wise men write about,  
Thou art the darkest thing I've met,  
I cannot make thee out.

Thou art of luminosity  
Astonishingly chary,  
Thou hast no ordinary ray,  
Thou'rt all extraordinary.

Enough thou art to worry saints,  
When thou art once refracted;  
E'en then thy vibratory pranks,  
Do drive me clean distracted.

But when thou splittest thyself up  
Unto refraction double,  
Oh, then, thy waves do me o'erwhelm  
In roaring seas of trouble.

Thou and the mad polariscope,  
In evil league combined,  
Do play the most unhallowed tricks  
Upon my simple mind.

Thy interference figures do  
    With my sleep interfere;  
My appetite it faileth quite,  
    Thou dost behave so queer.

Broad smutty bars of darkness sweep  
    In dreams across my sight;  
And pleochroic demons hold  
    Mad carnivals at night.

Bisectrices and awes pierce  
    My brain in all directions,  
And oft I dream the class must be  
    Divided into sections!

And Oh, Inclined Dispersion is  
    Of all thy tricks the worst!  
My wits when toward it they incline,  
    Are hopelessly dispersed.

Oh, much applauded light! when first  
    On Chaos thou didst shine,  
Did not the Chaos nature get  
    Mixed up a bit with thine?

Oh, Light! Light! Light!  
    What mockery is here!  
The blackest depths of darkest night,  
    More luminous appear.

Depart then to the Polar lands,  
    Be polarized forever!  
We darkness choose; and let thy beams,  
    Disturb our slumbers never.

**Henrietta L. Graves**

Thanks to Rae Vigeant for submitting this poem.

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