
Minnesota Microscopy Society

Local affiliate of the *Microscopy Society of America*
and the *Microanalysis Society*



Newsletter

October 2012

Minnesota Microscopy Society – Sigma Zeta Joint Meeting

“3D Printing”

Jesse Roitenberg

Education Manager
Stratasys, Inc.



Date

Tuesday, November 6, 2012

Location

Bethel University
Community Life Center
3900 Bethel Drive
St. Paul, MN 55112
<http://www.bethel.edu/about/maps-directions/>

Nathan Thiesfeld

Sales Manager, Education/Industry
Haldeman-Homme, Inc.



Registration

Cost for the meeting is \$10. Registration deadline is **Tuesday, October 30**. Reservations may be made by going to the MMS website's Calendar of Events page at <http://www.mnmicroscopy.org/calendar.html>.



Desktop additive manufacturing from Stratasys.

Joint MMS / Sigma Zeta Meeting

continued

3D Printing

Additive manufacturing is changing the way people are manufacturing today and is playing a large part in the evolution of the way products are developed. This presentation will showcase companies using 3D printers and 3D production systems in their product design, product development and manufacturing processes. These companies are saving thousands of dollars and precious time with the help of their 3D printing systems.

Attendees will learn:

- 3D printing industry history
- Primary solution options
- Typical applications
- Customer success story

This presentation will bring to light how additive manufacturing is changing manufacturing by streamlining the processes and radically reducing costs. From concept models to functional prototypes to manufacturing fixtures and end-use parts, manufacturers have a distinct advantage when a 3D printing system is a part of their team.

Stratasys is the world leader in 3D printers and production Systems. Its proprietary technology, Fused Deposition Modeling (FDM), creates functional prototypes and manufactured goods directly from any 3D CAD program, using high-performance industrial thermoplastics. Stratasys 3D printers and production systems are used in the aerospace, defense, automotive, medical, business & industrial equipment, education, architecture and consumer-product industries.

Fall Meeting Memories – Dr. Roger Rusack, “Finding the Higgs”
at the Earle Brown Heritage Center, October 4, 2012





2012:

November 3 What: **Microscope Day**

Time: 1:00 – 4:00 pm

Location: Science Museum of Minnesota
St. Paul, MN



November 17 What: **Project MICRO – Math & Science Family Fun Fair**

Time: 10:00 am – 4:00 pm

Location: Coffman Union, University of Minnesota
Minneapolis, MN

Anyone interested in volunteering, please contact Jeff Payne:

jjpayne@mmm.com

2013:

January 17 What: **Student Poster Session**

Time: 4:00 – 8:00 pm

Location: Nils Hasselmo Hall, University of Minnesota
Minneapolis, MN

March 28 What: **Minnesota Technical Symposium (MinnTS)**

Time: 5:00 – 9:00 pm

Location: Medtronic World Headquarters
Fridley, MN

May 3 What: **Spring Symposium**

Location: Minnesota Science Museum
St. Paul, MN

Reminder: MMS Moved to **PayPal**™ This Year!



In 2012, MMS moved to PayPal for processing payments made via credit card. With the former system, MMS paid a fixed monthly fee to maintain the service, even if no transactions occurred, in addition to any per transaction fees. The majority of credit card transactions occur in September to November and February to May. Even though the per transaction fee is slightly higher with PayPal, eliminating the monthly fees results in a significant savings to MMS.

Moving to PayPal also provides a somewhat simplified process for making reservations for society meetings. Going forward, the "Calendar of MMS Events" link in the upper left corner of the MMS website home page will lead to a list of events for the year with a PayPal link to make your reservation and pay the registration fee. For those unable or unwilling to use PayPal, pay-at-the-door reservations will continue to be taken via telephone or e-mail. Pay-at-the-door will be cash or check only as we will no longer have a way to process credit card payments outside of PayPal.

Opportunities

Advanced Light Source beamline 10.3.2, a hard X-ray microprobe for environmental and materials sciences, needs a new Project Scientist. This is a 2-5 year position described in the job posting here: <http://go.lbl.gov/74734>. If you know an appropriate venue at which to post this announcement or know a qualified person who might be interested, we would appreciate it if you would spread the word.

MMS Corporate Sponsors

Corporate Sponsors 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. MMS gratefully acknowledges the Corporate sponsorships provided by the following companies in 2012-2013. To become a Corporate Sponsor, complete and return the MMS membership form at the end of the newsletter.

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If any Corporate Sponsors are missing from this list, please contact Jason Heffelfinger (763-514-1021, jason.r.heffelfinger@medtronic.com).

The Minnesota Microscopy Society would like to express sincere thanks to our Sustaining and 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 or Sustaining 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 _____

(Newsletter notifications will be e-mailed to the address above.)

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

Are you an MSA member? MAS Member?

Student (\$5-\$9) Basic (\$10-\$24) Patron (\$25-\$99) Sustaining (≥ \$100)

Payment: Check PayPal (Please go to <http://www.mnmicroscopy.org/MMSMembership.html> to make your payment via PayPal.)

Make checks payable to MMS and mail to our Treasurer:

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