



NESM News

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WPI To Host NESM's March 8th Meeting!

NESM is pleased to welcome another prestigious academic institution as host of its meeting. Worcester Polytechnic Institute (WPI) will host NESM members and guests at their Worcester campus for a special **Forum on Nanotechnology** on Monday, March 8th. Three distinguished members of the WPI faculty will give technological presentations.

WPI was founded in 1865, just after the Civil War, at a time when America was on the verge of a great period of industrial growth and technological innovation. Its founders wanted to create a new kind of university to help prepare a new professional class of engineers, scientists and entrepreneurs to fuel this new era. WPI's Worcester campus was established in 1868, based on a plan by noted landscape designer Calvert Vaux. In recent years, WPI has established two branch campuses in eastern Massachusetts (in Waltham and Southborough) where it offers graduate and continuing education programs. Through its network of student project centers, WPI's reach extends around the globe. WPI, since its conception, has taken a different approach to technological education: believing that the best way to learn is by doing. Students get a firm grounding in science and technology: learning to apply their knowledge by tackling real problems. By working in teams at sites around the globe, the students develop solutions that truly make a difference.

Registration for this meeting will begin at 5:00 pm. The **registration fee** for this meeting, **\$25.00 for members and non-members**, will cover a reception and dinner. The reception will be held in the Campus Center Mid-Century and Lobby from 5:30-6:30 pm, followed by dinner from 6:30-7:30 pm in the Campus Center Odeum A. Technical presentations, chaired by NESM Biological Director Dan Gibson, will commence at 7:30pm.

Please **register by Friday, March 5th**. Use the registration form found inside this newsletter or contact Paul Bain at 617-432-3236 or by email: **Paul_Bain.hms.harvard.edu**.

NESM looks forward to your support and participation at this most interesting meeting!

NESM'S March Meeting

Worcester Polytechnic Institute

Worcester Campus ♦ 100 Institute Road ♦ Worcester, MA 01609-2280

Monday, March 8, 2004

4:00-5:00 pm **NESM Council Meeting**

5:00-6:00 pm **Registration**

5:30-7:00 pm **Reception/Dinner**

7:00-9:00 pm **Technical Presentations**

Chair Dan Gibson,

NESM Biological Sciences Director/ WPI Faculty Member

***Atomic Force Microscopy: Applications Beyond Conventional EM**

Nancy A. Burnham,

Associate Professor, Physics, WPI

***Focussed Ion Beam Milling for Metallic Sample Preparation and Analysis**

Yancy W. Riddle

Research Scientist, WPI

***Drug abuse studies in awake animals using fMRI with the 9.4T microimager**

Lauralea Colamussi

Research Associate, Psychiatry Dept., UMass Medical School

9:00 pm **Adjournment** - Rick Rogers, President NESM

Advance Registration Form

March Meeting, March 8, 2004

To register, please fill out this form below and send it with your check, payable to NESM,

Registration Deadline
March 5, 2004

to:

Note: Registration & money *must* be received by this date for accurate count on meals

Paul Bain
Countway Library of Medicine
10 Shattuck Street
Boston, MA 02115

If you have questions, please call Paul at (617) 423-3236

First Name _____ Last Name _____ Dr. Ms. Mr.

Company _____ Title _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

E-mail _____

Advance Registration - \$25 (which includes dinner)** (**Note:** Registration fee for **all** is the same amount)

- NESM member Student/retired member
 Non-member Total enclosed _____

****Dinner choices—please select one:**

- Roast Beef Chicken Vegetarian

The President's Message: Reflections on the Fall Symposium

Hi All!

NESM's Fall Symposium on December 9th was a repeat of the magical time we experienced last year at Gordon. I overheard a participant state that he felt as though he was having papers read to him in real time from the authors of manuscripts recently published in Science. A good reflection of the quality and high standard our Society enjoys on a regular basis. Thanks to Tony, Lynne and the Directors for another job well done! Special thanks to Russell Camp for his tireless enthusiasm and commitment to make the meeting possible on his wonderful campus. Everyone enjoyed the contact with his students and we look forward to their participation at future meetings. Thanks to Mary for sheparding our Corporate members and making them all feel welcome. Peggy's program and newsletter are just the best, and we could not make it without Paul's stewardship and diligent guidance of our long term financial health. He truly makes everyone's job on the board easier. Steve produced one of those rare after-dinner speakers who shared his knowledge and changed our understanding of the ancient time when man began to use fire. This point was of particular interest to our small group of NESM snowshoe trekkers who found themselves in the deep woods last night, up to our waists in snow sitting around a backpack stove anxiously awaiting the making of hot chocolate, but without functional matches! I doubt many of you have licked Swiss Miss directly from the package, but I admit to discovering some ancient anxieties about a possible fireless night and my impending demonstration of the hot chocolate mix-in-the-mouth technique I so deeply detest. Thanks to Russell's creative and skillful match handling abilities we got a match lit, water put to boil and 5 NESM members enjoyed peaceful solitude among the snow-covered canopy of trees with the pale moon light reflecting off the snow. Just when we thought it could not get better, we plopped into the snow to make snow angles before heading home. Life just does not get better than this! Thanks to you it happened for us all.

Later,
Rick Rogers, NESM President



Thank you for your support. Your sustained commitment to NESM allows us to continue to promote excellence in microscopy here in New England.

- AMT
- Barry Scientific
- BEEM
- Boekeler Instr. Corp.
- CF Associates
- Denton Vacuum
- Eastman Kodak
- EDAX, Inc.
- Electro-Image, Inc.
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- Energy Beam Sciences
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- Ernest F. Fullam
- Gatan, Inc.
- Geller MicroAnalytical Lab
- Hacker Instru. & Industries
- Hitachi
- HKL Technology
- Hysitron, Inc.
- Int'l Instruments Sales
- JEOL-USA, Inc.
- Kimball Physics
- Ladd Research Indust., Inc.
- Leica Microsystems, Inc.
- LEO Electron Microscopy
- MEDTEC
- Microanalysis & Surface Sci.
- Micro Star Technologies
- NanoTech Consulting
- Noran Instruments, Inc.
- Optechs, Inc.
- Oxford Instruments America
- Quality Images
- Scanning/FAMS
- SSSC
- SensIR Technologies
- SPI Supplies Division
- Technotrade International
- Tietz Video & Image Proc. Syst.
- Tousimis Research Corp.

MSA Application for Membership

Mail directly to MSA!

Microscopy Society of America

230 East Ohio Street, Suite 400 ▪ Chicago, IL 60611-3265 ▪ 800-538-3672
 FAX: 312-644-8557 ▪ E-mail: BusinessOffice@MSA.Microscopy.Com

Name (print) _____ Dr. Ms. Mrs. Mr.

Mailing address (Home Office) _____

City _____ State _____ Zip _____ Country _____

Phone (days) _____ Fax _____ Major Interest: Physical Sciences

Biological Sciences

E-mail _____ Both

Institutional Affiliation: _____

Circle Major Interests: Light/Optical - Confocal - 2 Photon - Near Field - R/Raman - Acoustic

Scanning Probe - Scanning Ion - X-Ray Microscopy - SEM - TEM - STEM - IVEM/HVEM

LEEM - AEM - EELS - EDS - WDS - EMPA - AES - ESCA - SIMS - FIM/AtomProbe - MRI

XRF/XRD - Other _____

Nominating MSA member: Nestor J. Zaluzec

Signature of Advisor (for student applicants): _____

Signature of Applicant: _____ Date: _____

Enclose a check (**US funds drawn on a US bank**) for one year's dues, payable to MSA, or complete the credit card information below. Also enclose a brief statement of your qualifications, experience, and/or student status.

Regular Member: \$45 annually (North America-U.S./Canada/Mexico)

Regular Member: \$63 annually (outside of North America)

Student (fulltime): \$15 annually Student (part-time): \$33 annually (outside of No. America)

Corp. Member: \$375 annually Corp. Member: \$393 annually (outside of No. America)

Visa/Master Card Number (include all numbers) _____

Expires Month/Year: _____ Exact Name on Card: _____

For applicants outside of North America, please add \$18 to each membership to cover the cost of mailing.

Would you like to receive MSA related News by Email?: Yes No

Would you like someone from MSA to contact you to answer a membership question?

Yes No

Please see MSA website (www.msa.microscopy.com) for further information on the society and for submitting application on-line.

DIRECTIONS

Worcester Campus
100 Institute Road
Worcester, MA 01609-2280

From the East:

Take Mass. Turnpike (I-90) to **Exit 11A** (I-495). Proceed north to I-290, then west into Worcester. Take **Exit 18** (Lincoln Sq., Rte. 9), turn right at end of ramp, then an immediate right before next traffic light. At next light, proceed straight through, bearing to the right on Salisbury St.* At the WPI sign, turn left onto Boynton St., then right onto Institute Rd. Take your first right (Private Way); visitor parking is on the left after the footbridge.

From the North:

Take I-495 south to I-290. Follow directions from east.

From the South and West:

Take Mass. Turnpike (I-90) to Exit 10 (Auburn). Proceed east on I-290 into Worcester. Take Exit 17 (Lincoln Sq., Rte. 9), turn left at end of ramp, follow Rte. 9 west through Lincoln Sq., straight onto Highland St.,** then right at light onto West St. Travel one block and cross Institute Road (onto Private Way); visitor parking is on the left after the footbridge.

A Campus Police representative will be on hand to assist with parking, and to direct participants to the 3rd. Floor of the Campus Center, where the activities will take place.



Meetings, Conferences, & Courses 2004

March 8, 2004

NESM March Meeting

Worcester Polytechnic Inst.
Worcester, MA

Contact: Paul Bain

617-432-3236

Paul_Bain@hms.harvard.edu

March 7-12, 2004

PITTCON 2004

Chicago, IL

www.pittcon.org

March 14-18, 2004

TMS

Charlotte, NC

Contact: ckobert@tms.org

March 22-26, 2004

Advanced Course on LM

University of California-
Santa Barbara

www.lifesci.ucsb.edu/mcdb/
events/imaging_workshop/
index.php

April 4-7, 2004

Focus on Microscopy 2004

Philadelphia, PA

www.focusonmicroscopy.org

April 12-16, 2004

Materials Research Society

San Francisco, CA

info@mrs.org

April 27-29, 2004

SCANNING 2004

Washington, DC

www.scanning.org

Mark your Calendars!

Woods Hole '04

April 29—May 1, 2004

Thursday April 29: One-day symposium on Image Processing Techniques, illustrated using the public domain software LISPIX. Presenter Dr. David Bright (NIST, author of LISPIX)

Friday-Saturday April 30-May 1: XXI NESM/CMS Spring Symposium

Marine Biological Laboratory, Woods Hole, MA

More details to follow
