



NESM News

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May 2-3rd-New dates for the 20th Annual Woods Hole Symposium!

After an exceptionally long and hard winter, we will all welcome The **Annual Woods Hole Symposium** which will be held this year, and in subsequent years, a *week earlier* on **May 2-3rd!** This **Symposium** marks its **20th year anniversary**, and is still going strong: proving to be a favorite among society members, corporate sponsors, students and guests alike. NESM is most pleased to welcome its co-host, the Connecticut Microscopy Society (CMS), whose support and participation is greatly appreciated. This meeting, which is devoted to microscopy and its associated techniques, welcomes scientists from both the materials science and biological arenas. This forum allows for students, corporate members and fellow professionals to share ideas and renew old friendships.

Students, especially, are encouraged to participate. The weekend affords both a scientific and social meeting ground that allows for one-on-one communication with professionals in a wide variety of scientific and engineering endeavors.

This year, as always the Symposium has an exciting program planned with experts from around the country. And the after-dinner speaker will transport us 'south of the border' into the world of metallurgy and ancient Mexico! Plus, our Poster Session showcases the talent of both students and professionals alike.

Highlights of the meeting include:

- ? Scientific Presentations
- ? Cocktails & Banquet
- ? Commercial Exhibits
- ? Guest Speakers
- ? Scientific Poster Awards
- ? Door Prizes
- ? Photo-As-Art Contest

REGISTRATION

Advance registration is a must! Rooms are reserved on a first-come/first-serve basis: **Dinner reservations must be made by April 25th.** Payment must accompany all registrations. Please use the registration form inside this newsletter.

Accommodations

Swope Center at MBL

\$42.50/person/day, double occupancy

\$75/day, single occupancy

Rates include Saturday breakfast ONLY

To reserve a room at Swope, please use the registration form provided in this newsletter.

If you wish to stay at other area motels, (see partial listing below), please call the establishment to reserve your room and pay directly. Make mention that you will be attending the NESM Symposium at MBL.

Other area motels/inns:

‡ **Nautilus Motel, Woods Hole**
508-548-1525

‡ **Sleepy Hollow Motor Inn, Woods Hole**
508-548-1986

‡ **Inn on the Square by Ramada**
508-457-0606

‡ **Woods Hole Passage (B&B)**
508-540-2500

‡ **Sands of Time Motor Inn**
508-548-6300

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Student Discount

Full-time graduate and undergraduate students, accompanied by faculty advisor, will be able to pre-register for the meeting, enjoy dinner, and receive Friday night accommodations (**double occupancy only**) at Swope Center for \$42.50.

Twentieth Annual Spring Symposium

Marine Biological Laboratories ? Woods Hole, Massachusetts ? May 2 & 3, 2003

Friday, May 2nd

12:00 pm

Registration: Swope Center

1:00 pm

Welcome: Lillie Auditorium—Tony Garratt-Reed, NESM President

Session I Materials Science—Chairperson, Steve Stokowski

1:10 pm

Electron Microscopy

Anthony Pedraza, University of Tennessee

1:50 pm

Nanoindentation

Thomas Wyrobek, Hysitron

2:30 pm

Afternoon Break

Coffee served in Lillie 103

Session II Biological Sciences—Chairperson, Liz Cowles

2:50 pm

Evanescence Wave Microscopy/TIR and Its Application in the Study of Membrane Traffic in Living Cells

Derek Toomre, Yale

3:20 pm

Cryo EM

David Chester, Yale

4:00 pm

Spectral Analysis of Confocal Microscopic Images

Lee Peachy, University of Pennsylvania

(sponsored by Leica Microsystems, Confocal Group)

5:30 pm

Cocktails and Dinner: Swope Center

8:00 pm

After Dinner Talk Meigs Room, Swope Center

Metallurgy of Ancient Mexico

Dorothy Hosler, MIT

Saturday, May 3rd

Techniques: New X-Ray Detector Technologies—Chairperson Carl Miller

7:00 am

Breakfast: Swope Center

8:30 am

Microcalorimeter Detectors

Dale Newbury, NIST

9:15 am

Silicon Drift Detectors

Thomas Schulein, Rontec GmbH

10:00 am

Commercial Exhibits and Posters: Swope Center

Coffee and doughnuts will be served

12:00 pm

Presentation of Poster and Photos-As-Art Awards and Door Prizes

Poster Area, Swope Center

PLEASE NOTE: Lunch at the Swope Center is *optional* this year.

CALL FOR POSTERS

Win for
Best Poster,
Best Student Poster,
Or Best Photo-as-Art

One of the Symposium's most exciting events is the poster session. In an informal setting, members and students alike have an opportunity to present preliminary results or exhibit data that has been presented nationally to a friendly yet informed audience.

The **Photo-As-Art** session is intended for *the* photomicrograph that you feel has that special aesthetic quality.

► **Posters** should be submitted with a title and abstract (200 words or less).

► **Photomicrographs** will be displayed along with the posters and should be submitted with a title or caption and a short technical explanation.

► **Absolute Deadline** for receipt of Posters and Photos-As-Art registration is **April 21, 2003**.

► **Registration**— Please email (either as a word attachment or inside the body of the email your registration (see form inside) **along with your abstract** to:

Dan Gibson
dgibson@wpi.edu

AWARDS

- ◆ \$100 Best Poster
- ◆ \$50 Best Student Poster
- ◆ \$50 Best Photo-As-Art
- ◆ 2nd and 3rd Place
- ◆ Honorable Mentions

Directions to Woods Hole

From Boston (81 miles)
Take the SE Expressway (Rte 3) to the Sagamore Bridge Rotary (53 mi). Do not go over the Sagamore Bridge. Take the first rotary exit towards the Bourne Bridge along the Bourne Scenic Hwy (Rte 6E). At the Bourne Rotary, follow the signs for, and go over, the Bourne Bridge. At the base of the bridge, go around the rotary to the Rte 28 exit and continue on Rte 28. After 14 miles, Rte 28 becomes a 2-way road. Continue straight through the intersection after 1 mile. After 1/2 mi., the road forks at a stop sign. Turn right towards Woods Hole. Continue for 4 mi. (through one intersection) to Woods Hole.

From New York (252 miles)
Take Rte 95 (US1) North

through CT to Providence, RI. In Providence, exit to Rte 195. Follow 195 through New Bedford to its end, and exit right onto Rte 25 towards Cape Cod. Follow Rte 25 to the Bourne Bridge and continue over the Bourne Bridge. At the base of the bridge, go around the rotary to the Rte 28 exit and continue on Rte 28. (Pick up same directions as before from Boston).

Bus to Woods Hole:

The easiest mode of transportation to Woods Hole is via Bonanza Bus from the Boston Greyhound Terminal. The bus drops you a few minutes walk from the MBL as shown in the lower center of the map. For more information, visit their web page at:
<http://www.bonanzabus.com>

SPECIAL PARKING PERMIT REQUIRED

If you drive to the meeting, please be sure to register at the Swope Center as soon as possible to receive a *special parking permit*. The permit should then be placed on the dashboard of your car. The MBL has begun to enforce the Parking-by-Permit-Only policy in its lots on a year round basis. Once you have the permit, **you are to park in the Bar Neck Road Lot #E only during business hours**. If you are staying overnight, you can move your car to one of the lots behind the Swope Center, entering from Millfield St.

NESM Privacy Statement

The New England Society for Microscopy collects contact information for each member including a mailing address, phone numbers, electronic mail addresses, and URLs. As a service to its membership and sponsors, the Society may distribute this contact information to the membership as a member list. The Society also tracks payments of dues and meeting fees as a routine and necessary part of Society business. Such information is held in strict confidence and will not be disclosed to anyone except to members of the Society's Board of Directors as needed to conduct Society business.

NESM respects the privacy of its members. Anyone wishing to be excluded from the Society's membership list should contact the Treasurer and asked to be removed. The Society asks its sponsors to not send mass mailings to the membership, but to use the information for making individual contacts only.

All Corporate Members of NESM are invited to join our Commercial Exhibition on Saturday, May 3rd, at the Woods Hole Symposium. If you are interested in exhibiting, and didn't receive an application, contact Mary McCann at 617-484-7865 or by email: mccanns@tiac.net. Reserve your table today!

Meetings, Conferences, & Courses 2003

May 2-3, 2003

NESM/CMS 20th Ann. Woods Hole Meeting
Woods Hole, MA
Contact: Paul Bain
(617) 432-3236
paul_bain@hms.harvard.edu

May 3-5, 2003 Scanning 2003

San Diego, CA
www.scanning.org

May 8, 2003

Digital Image Capture & Management in Microscopy Course
Montclair, NJ
Contact: Don O'Leary,
New York Microscopical Society
(201)797-8849

May 18-22

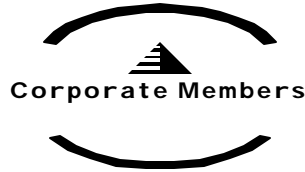
American Society for Microbiology
Washington, DC
www.asmta.org

June 8-20, 2003

Lehigh Microscopy Schools
Contact: Sharon Coe
sharon.coe@lehigh.edu

August 3-7, 2003

Microscopy and Microanalysis
San Antonio, TX
www.msa.microscopy.com



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

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
- CF Associates
- Denton Vacuum
- Eastman Kodak
- EDAX, Inc.
- Electro-Image, Inc.
- Emispec Systems, Inc.
- EMS/Diatome
- Energy Beam Sciences
- FEI Company
- E.A. Fischione Instru., Inc.
- Ernest F. Fullam
- Gatan, Inc.
- Geller MicroAnalytical Lab
- Hacker Instru. & Industries
- Hitachi
- HKL Technology
- JEOL-USA, Inc.
- Kimball Physics
- Ladd Research Indust., Inc.
- Leica Microsystems, Inc.
- MEDTEC
- Micro Star Technologies
- NanoTech Consulting
- Noran Instruments, Inc.
- Oxford Instruments America
- Quality Images
- Scanning/FAMS
- SSSC
- SensIR Technologies
- SPI Supplies Division
- Technotrade International
- Tousimis Research Corp.

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 - IVM/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.

Advance Registration Form

Registration after April 25th will **not** include dinner

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

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

If you have questions, please call Paul at (617) 432-3236.

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

Company _____ Title _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____ E-mail _____

Name of Guest _____

Name of Faculty Advisor (*for student discount only*) _____

(*A list of attendees will be published*)

Advance Registration including Dinner on 5/2/03

- | | | | | |
|---|----------|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> NESM Member | \$50.00 | Dinner (choose 1) | <input type="checkbox"/> Fish | <u>Please note:</u> Dinner reservations cannot be accepted after April 25th. |
| <input type="checkbox"/> Non-member | \$65.00* | | <input type="checkbox"/> Beef | |
| <input type="checkbox"/> Student/retired member | \$50.00 | | <input type="checkbox"/> Vegetarian | |
| <input type="checkbox"/> Student/retired non-member | \$55.00* | | | |
| <input type="checkbox"/> Guest Registration | \$50.00 | | | |

Accommodations

Swope Center at MBL (1st come, 1st served)

- Double Occupancy \$42.50/person**
 Single Occupancy \$75.00/person**
 Student Housing *included with Registration (double occupancy only)*

Please reserve _____ (#) room(s) for the following nights: Thurs Fri Sat Handicapped-access

(*For additional housing options, see Accommodations on front page of this newsletter*)

*Non-member and Student Non-member Registration includes 1-year NESM membership.

The fee for rooms at Swope includes Saturday breakfast **only.

CALL FOR POSTERS AND PHOTOMICROGRAPHS

To be presented at the Spring Symposium, Saturday, May 3, 2003 at 12:00 NOON

Name _____ Student

Entry Title _____

Address _____ City _____ State _____ Zip _____

Phone _____ Fax _____ *E-mail _____

- Poster:** Include title and abstract (200 words or less)
 Photomicrograph: Include title or caption and short technical explanation

Email this form and your abstract to:

Dan Gibson
dgibson.wpi.edu

You will be notified by email if your poster is accepted.

Absolute Deadline for Receipt of Entries: April 21, 2003

Please email application/abstract **only** (either as a Word attachment or directly in the body of the email); we will confirm contest entry by email. Posters and photomicrographs **must** be hand-carried to Symposium.

Enter and Win Money\$\$\$! Awards include:

BEST POSTER BEST STUDENT POSTER BEST PHOTO-AS-ART

NESM Application for Membership

New Members:

- Regular Member \$15.00
 Student Member \$5.00
 Retired Member \$5.00
 Corporate Member* \$100.00

Please make your check payable to NESM and send along with this application to:

NESM
 c/o Paul Bain
 Countway 212
 10 Shattuck Street
 Boston, MA 02115

Current Members:

- Change of Address Only

*Each Corporate Membership entitles two representatives to receive our newsletter. Please duplicate mailing information form as needed.

Mailing Information:

Date _____ Dr. Ms. Mr.

Name _____

Mailing Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Email _____

Company/University _____

(if not part of mailing address)

Major Interest: Biological Sciences Physical Sciences

Microscope Type: SEM TEM Light

Confocal STEM Other

NESM Membership News 2003

The New England Society for Microscopy (NESM), a local affiliate of the Microscopy Society of America (MSA), is a professional organization dedicated to the promotion and advancement of the science and practice of all microscopical imaging, analysis, and diffraction techniques.

Each year, NESM holds four local meetings which feature speakers from both biological and physical science backgrounds. Social hours and buffet dinners are enjoyed at each meeting.

New Members: NESM has a calendar-year membership; new members may join at anytime. To join, please check one of the member categories, and return the above application along with your check payable to NESM.

Membership Renewal: An invoice for annual membership dues will be sent with the first newsletter each year. Dues are payable at meeting registration, or by check no later than May 31st.

Please make check payable to NESM. Send to Paul Bain, Countway 212, 10 Shattuck Street, Boston, MA 02115

NESM Officers 2003

President 2003	Anthony J. Garratt-Reed MIT (617) 253-4622 tonygr@MIT.EDU	Materials Science Directors 2003	James F. Mancuso-AMT (978)774-5550; info@amtimaging.com
President-elect 2004	Rick Rogers HSPH (617) 432-3472 rogers@bioimage.harvard.edu	2004	N. Carl Miller-Raytheon (781) 860-3334; Norman_C_Miller@raytheon.com
Past President 2002	Lynne Garone E Ink Corp. (617) 499-6000 X6149	2005	Steve Stokowski-Stone Products Consultants (508) 881-6364; CrushStone@aol.com
Treasurer 2003	Paul Bain Countway Library (617) 432-3236 paul_bain@hms.harvard.edu	Biological Sciences Director 2003	Ezequiel R. Rivera-UMASS Lowell (978) 934-2868; ezequiel_rivera@uml.edu
Recording Secretary 2003	Mary McCann McCann Imaging (617) 484-7865 mccanns@tiac.net	2004	Daniel G. Gibson-WPI (508) 831-5543; dgibson@WPI.EDU
Corresponding Secretary 2003	Peggy Sherwood MGH-Wellman Labs of Photomedicine (617) 724-4839; MESnesm@aol.com	2005	Russell R. Camp-Gordon College (978) 867-4385; camp@gordon.edu
		Supernumary Director 2003	Ken Orndorff-Dartmouth Medical School (603) 650-7661; keno@dartmouth.edu

Mailing Address: NESM, P.O. Box 425232, Cambridge, MA 02142

NESM Web site: <http://prism.mit.edu.8083>

Please Post

20th Annual Spring Symposium

hosted by

The New England Society for Microscopy (NESM)
And
The Connecticut Microscopy Society (CMS)

May 2nd & 3rd at
The Marine Biological Laboratory
Woods Hole, MA

A Regional meeting devoted to microscopy and related techniques. It brings together investigators and students from a wide variety of disciplines ranging from biology to materials science.

Highlights

Invited Presentations • Commercial Exhibits
Banquet & Cocktail Get-Together • Inexpensive Accommodations
Poster and Photomicrograph Awards Contest

For more information, call Paul Bain (NESM) at 617-432-3236 or
e-mail: paul_bain@hms.harvard.edu