



# NESM News

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## **GORDON COLLEGE again hosts NESM's 38th Annual Fall Symposium on December 2nd!**

NESM is pleased to announce that the beautiful campus of Gordon College has once again offered to host our Annual Fall Symposium! This year marks the Society's 38th Annual Fall Symposium and will be held on Thursday, December 2nd.

For those members who are new and not familiar with Gordon College, it was named for the Rev. Dr. A.J. Gordon, a prominent clergyman of the late 1800s, and was originally founded in Boston in 1899 as a missionary training institute. In 1955, Gordon moved to its present location in Wenham, Mass. In 1970, the divinity school separated from the college, merging with the Conwell School of Theology in Philadelphia. In 1985, Gordon merged with Barrington College, retaining the name of Gordon College. At the merger, Barrington's distinguished history of Christian service and faithfulness became a part of Gordon's history. Today Gordon College stands as one of the top Christian liberal arts colleges in the country and the only nondenominational Christian college in New England.

The Symposium begins at 12:00 Noon with Registration followed by welcoming statements by NESM's President, Rick Rogers and Russ Camp of Gordon College. Session I will commence at 1:00 pm, followed by a coffee break at 3:00 pm. Session II will begin at 3:30 pm. As usual, we have an interesting mix of talks and speakers, including a "fish tale" from a member of the Biology Department of Gordon College. The Annual Business Meeting will convene at 5:00 pm. One of the main agenda items will be the election of new officers for the year 2005 and a vote on revisions to our Society's by-laws. Your attendance and vote at this business meeting is greatly encouraged. We have a wonderful slate of officers, but you can still add your name to the ballot—**please consider running for an office!** New faces are always welcome! Ballots are included in the newsletter. Please mark your ballots and mail it along with your registration form and registration fee.

Dinner will commence at 6:00 pm followed by an after-dinner talk "**The Horseshoe Crab: Lessons from a Living Legend**" by our own Dan Gibson. The meeting will adjourn at 8:00 pm with a message from our incoming President, Steve Stokowski.

We look forward to seeing you on **December 2nd** and encourage you to support our Society!

### **INSIDE:**

- Read over changes in By-Laws and mark your ballots
- Welcome to our 2 newest Corporate Sponsors: Princeton Gamma-Tech and Quantomix, Inc.
- **New Section:** Close-Ups of our Sustaining Members
- Proposal for Boston as site of 2011 M&M Meeting

# 38th Annual Fall Symposium and Business Meeting

Gordon College · 255 Grapevine Road · Wenham, MA 01984 · 978.927.2300  
(<http://www.gordon.edu>)

Thursday, December 2, 2004  
12 Noon to 8:30 pm

12:00 pm **Registration**—Presidential Dining Room (Lane Student Center)

12:45 pm **Welcome:** Rick Rogers, NESM President

## Session I

1:00 pm “Surface Plasmon Enhanced Microscopy” - Peter Stark (Harvard Medical School)

1:45 pm “Is This a Fluke, or is it Something Fishy” (an example in the freshwater catfish industry when microscopes and molecules may not agree) - Dr. Chuck Blend (Biology Dept.-Gordon College)

2:25 pm “Alkali Silica Reactivity and the Demise of the Fore River Bridge: - Steve Stokowski and Janet Sarson (Stone Products Consultants)

3:00 pm **Coffee Break**

## Session II

3:30 pm “Precipitation and Stability of Cu Silicide in Si Voids” - Cheng-Yen Wen (Harvard University)

4:10 pm “Vesicle Trafficking in Epithelial Cells” - Dr. Dennis Brown (MGH-Harvard Medical School)

5:00 pm **NESM Annual Business Meeting**

Election and Vote on Ammendments to By-Laws  
Reading of Minutes of 2003 Annual Business Meeting  
Report of President  
Report of Treasurer  
Introduction of New Officers

6:00 pm **Dinner**

7:00 pm **After-Dinner Speaker**

“**The Horseshoe Crab: Lessons from a Living Legend**”

Dan Gibson  
Worcester Polytechnic Institute

8:00 pm **Adjournment** - Steve Stokowski, Incoming NESM President

## Advance Registration Form

Registration after November 29th will **not** include dinner.

**Registration Deadline  
November 29, 2004**

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

Paul Bain  
HMS-Countway 212  
10 Shattuck Street  
Boston, MA 02115  
617-432-3236 **If you have questions, please email Paul at: paul\_bain@hms.harvard.edu**

First Name \_\_\_\_\_ Last Name \_\_\_\_\_ Dr. Ms. Mr.

Company \_\_\_\_\_ Title \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_

### Advance Registration

- |   |          |
|---|----------|
| <input type="checkbox"/> NESM Member                | \$20.00  |
| <input type="checkbox"/> Non-member                 | \$35.00* |
| <input type="checkbox"/> Student/retired member     | \$5.00   |
| <input type="checkbox"/> Student/retired non-member | \$10.00* |
| <input type="checkbox"/> Dinner**                   | \$ 5.00  |

- |   |         |
|---|---------|
| <input type="checkbox"/> Guest Registration | \$10.00 |
|---|---------|

Guest Name \_\_\_\_\_

- |   |         |
|---|---------|
| <input type="checkbox"/> Guest Dinner** | \$15.00 |
|---|---------|

Gordon College staff and students register free of charge

\*All non-member registrations includes current-year-only NESM membership

\*\*Dinner not included in registration

Total Enclosed \_\_\_\_\_

### MENU CHOICES

Please select one of the following:

- |  |
|--|
| <input type="checkbox"/> Chicken Marsala |
| <input type="checkbox"/> Salmon          |

Note: All meals will include: fresh fruit cup, rolls and butter, rice, green beans and chocolate raspberry tort

*Note: Anyone desiring a vegetarian entree, please contact Paul Bain (paul\_bain@hms.harvard.edu) by November 29th. There is a limited number of these meals available.*

## REGISTER TODAY!

### ◆ Meeting Date

December 2, 2004  
12 Noon—8:30 pm

### ◆ Meeting Location

Gordon College

### ◆ Highlights

2 Scientific Sessions

### ◆ Dinner/After dinner talk

### ◆ Meeting Deadline

November 29, 2004



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
- Boekeler Instr. Corp.
- Denton Vacuum
- E.A. Fischione Instr. Inc.
- Eastman Kodak
- EDAX, Inc.
- Electro-Image, Inc.
- EMS/Diatome
- Energy Beam Sciences
- Ernest F. Fullam
- FEI Philips Electron Optics
- Gatan, Inc.
- Geller MicroAnalytical Lab
- Hitachi Scientific Instr.
- HKL Technology
- International Instr. Sales
- JEOL-USA, Inc.
- Kimball Physics
- Ladd Research Indust., Inc.
- Leica Microsystems, Inc.
- LEO Electron Microscopy
- MEDTEC
- Micro Star Technologies
- NanoTech Consulting
- Optechs, Inc.
- Oxford Instruments America
- Princeton Gamma-Tech
- Quality Images
- Quantomix, Inc.
- Rontec USA, Inc.
- SensIR Technologies
- Technotrade International
- Thermo Electron

# 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](http://www.msa.microscopy.com)) for further information on the society and for submitting application on-line.



## Directions to GORDON COLLEGE

Gordon College is easy to get to from the west, south or north. We are located just off exit 17 on Massachusetts State Route 128. Look on a map and we are located just about in the middle between Gloucester, Mass. and Salem, Mass.

### **From points West:**

**(New York State, Pennsylvania, Connecticut, Western Massachusetts)**

Take an east-bound highway (i.e. Mass Turnpike, Route 90) to Route 95 North. Stay on Route 95 until it separates from Route 128. Take Route 128 North toward Gloucester, passing through Peabody, Danvers and Beverly. Get off at Exit 17. Turn left at top of ramp, going one-quarter-mile to Gordon College, on Grapevine Road. \*At the AJ Gordon Chapel, take a right and park in the lot directly in front of it. There will be a sign **Event Parking-NESM**. Proceed to the Lane Student Center-Presidential Dining Room for the meeting. (*See enclosed map of campus for building/parking locations*)

\*(**Note:** If you miss this turn-off, you will come to the main entrance of the college, turn around at this point).

### **From points North:**

**(Maine, Vermont, New Hampshire, Manchester Airport)**

Take Route 95 South to Route 128 North. Remain on Route 128 North, passing through Peabody, Danvers and Beverly. Get off at Exit 17. Turn left at top of ramp, going one-quarter-mile to Gordon College. (follow directions above)

### **From points South:**

**(Boston, Logan Airport, Rhode Island, TF Green Airport)**

*As you leave Boston/Logan Airport, look for signs for 93 North. Take 93 North to Route 95 North, and then follow the directions below.*

Stay on Route 95 until it separates from Route 128. Take Route 128 North toward Gloucester, passing through Peabody, Danvers and Beverly. Get off at Exit 17. Turn left at top of ramp, going one-quarter-mile to Gordon College. (follow directions above)

### **Please note:**

Routes 95 and 128 have similar exit numbers. Begin to pay attention to exit numbers once you get onto Route 128 North after it separates from Route 95.

**Please See Gordon College Website for map of campus: [www.gordon.edu](http://www.gordon.edu)**

## **Potential Proposal to Host 2011 Microscopy and Microanalysis Meeting in Boston**

The Microscopy Society of America Council is expected to discuss the selection of the site for the 2011 M&M meeting at the next board meeting in the winter of 2004-5. A small group of us at the meeting in Savannah (August 2004), specifically myself, together with Ann Lehman and Louie Kerr, felt that it would be interesting to explore the possibility of bringing the meeting back to Boston; the last meeting here was the 50th Anniversary meeting in 1992.

Accordingly, I circulated the NESM Board in early August, asking for initial reaction, which was strongly positive. I then arranged a meeting with Mary Beth Rebedeau, principal of the Rebedeau Group, the meeting manager retained by MSA, who by chance was visiting Boston on August 18th. Present at the meeting at her hotel were Mary Beth, myself, Ann Lehman, Steve Stokowski and Dan Gibson. The purpose of the meeting was to discuss what would be the responsibilities of NESM if we were to host the meeting, and what would be required by the MSA council in the form of a proposal. We also discussed the choice of venue—either the Hynes auditorium or the new convention center.

Boston would be an appropriate venue for 2011, as the 2010 meeting is scheduled for Portland, OR. The choice of Boston would thus maintain the East-West cycle. We might thus expect the MSA council to consider our proposal carefully. We would likely not be the only group inviting M&M that year, but we have strong enthusiasm, excellent facilities, enormous local involvement in microscopy, and an attractive city, so we might expect the MSA council to consider our carefully constructed proposal very positively.

The proposal should be 2-3 pages long, and should be in the hands of the MSA Business Office/President by mid-December 2004.

### Update-November 5, 2004:

I have heard nothing about the business of the convention availability. I have emailed Mary Beth Rebedeau asking where we stand. It is clear she will not support a booking at the Hynes; and we cannot move forward unless we can get a booking at the new BCEC. Given the closeness of the proposal deadline (mid-December), we need to move forward with presenting suitable locations for the various receptions, the attractions of Boston in early August (including pool of education/research establishments in our area), as well as the attractions of New England for families for pre-or post-conference vacations.

Low-cost housing options are always a problem—we need to research these possibilities, being careful about running afoul any potential agreement with hotels.

Some other people may have ideas—all would be helpful. The Board is actively involved and, if anyone else would like to volunteer, your participation would be welcome.

Anthony Garratt-Reed  
Past-President, NESM

# NESM Application for Membership

## New Members:

- |  |          |
|--|----------|
| <input type="checkbox"/> Regular Member    | \$15.00  |
| <input type="checkbox"/> Student Member    | \$5.00   |
| <input type="checkbox"/> Retired Member    | \$5.00   |
| <input type="checkbox"/> Corporate Member* | \$100.00 |

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

NESM  
c/o Paul Bain  
HMS-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 2004

*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 and send c/o:  
Paul Bain, Countway Library, 10 Shattuck St.  
Boston, MA 02115**

<b>President</b> 2004	Rick Rogers HSPH (617) 432-3472 rogers@bioimage.harvard.edu	<b>Physical Sciences Directors</b> 2004	N. Carl Miller-Raytheon (retired) (978) 369-3755; ncmiller@gowebway.com
<b>President-elect</b> 2005	Steve Stokowski Stone Prod. Cons. (508) 881-6364 CrushStone@aol.com	2005	James F. Mancuso-AMT (978) 774-5550; info@antimaging.com
<b>Past President</b> 2003	Tony Garratt-Reed MIT (617) 253-4622 tonygr@mit.edu	2006	Warren Moberlychan-Center for Imag/Mesoscal Strt. (617) 496-8832; moberlychan@cims.harvard.edu
<b>Treasurer</b> 2004	Paul Bain Countway Library (617) 432-3236 paul_bain@hms.harvard.edu	<b>Biological Sciences Directors</b> 2004	Daniel G. Gibson-WPI (508) 831-5543; dgibson@WPI.EDU
<b>Clerk</b> 2004	Mary McCann McCann Imaging (617) 484-7865 mccanns@tiac.net	2005	Russell R. Camp-Gordon College (978) 867-4385; camp@gordon.edu
<b>Corresponding Secretary</b> 2004	Peggy Sherwood MGH-Wellman Labs of Photomedicine (617)724-4839; mesnesm@rcn.com	2006	Renee Dickie-HSPH (617) 432-0123; rdickie@hsph.harvard.edu
		<b>Mailing Address:</b> NESM, P.O. Box 425794, Cambridge, MA 02142 <b>NESM Web site:</b> <a href="http://www.msa.microscopy.com/MSALAS/NESM/NESMHome.htm">http://www.msa.microscopy.com/MSALAS/NESM/NESMHome.htm</a>	



## Close-Ups of Sustaining members

A long list of the Sustaining Members appears in each issue of the Newsletter. The Sustaining Members contribute greatly to the vigor of our microscopy society. The Saturday exhibition at the Woods Hole Symposium each spring gives microscopists the opportunity to talk directly with the many Sustaining Members who take part in the annual exhibition. We'd like to use the Newsletter to better acquaint you with specific Sustaining Members. A drawing of business cards at the Spring meeting led to the first two sketches, International Instrument Sales and Gatan Inc.

**IIS, International Instrument Sales**, is the first Sustaining Member to be profiled. Its NESM Corporate Member is **Michael McCarthy**. He can be reached at 724-875-8482. The IIS web site **ii-sales.com** describes the variety of Laboratory and Electron Microscopy Products that International Instrument Sales represents. IIS is the Northeast Sales and Service contact for RMC Microtomes. The participants in the recent Workshop on Cryo-Ultramicrotomy have gotten acquainted with Michael who was instrumental in initiating the workshop and was on the faculty for the course. RMC makes microtomes, ultramicrotomes and Cryo-Ultramicrotomes, in addition to Freeze Substitution Systems, Tissue Processors, and Glass Knife Makers. IIS also carries GaLa Instruments for plasma cleaning, etching, ashing, plasma coating and surface modification. These systems are available with differing chamber sizes and capabilities for controlling gas flow, pressure and power.

IIS provides direct sales support for Ascend in the Northeast and Midwest regions. Ascend represents Kleindiek Nanotechnology, makers of Nanomanipulators with one nanometer resolution for a variety of applications in materials and life sciences. Ascend also carries Refurbished Electron Beam Instruments, Focused Ion Beam Systems, Scanning Electron Microscopes and Transmission Electron Microscopes. Finally, IIS also represents SAMx, developer of software products for the microanalysis market. These include WDX automation upgrades for older EPMA or Automated WDX systems. Mike is accessible by telephone or through the net at [mike@ii-sales.com](mailto:mike@ii-sales.com).

The **Gatan Inc.** business card was also drawn for a profile. **Paul Miller**, Technical Sales Manager, North America, is its corporate member. Gatan's web site is **www.gatan.com** Paul can be reached at 724-779-2501 and/or [pmiller@gatan.com](mailto:pmiller@gatan.com). Gatan Inc is known to many of our electron microscopists as the provider of instrumentation and software to enhance and extend the operation and performance of electron microscopes. Analysis tools, special purpose specimen holders, CCD cameras, specimen prep equipment and software are described on the Gatan web site. Gatan PEELS Spectrometers and GIF Gatan Imaging Filter systems provide the capability for Nanoscale elemental analysis. Coordinated Software packages are for display and analysis of the datasets are also available. Gatan specialized specimen holders include tomography, heating, cooling, cryogenic and liquid Helium stages. For special diffraction needs, double-tilt, and ultra-high tilt stages are available. Straining and in-situ probing holders satisfy other mechanical testing needs. SEM Products include SEM Cryotransfer devices, Cathodoluminescence, EBIC, Cold Stages, Tensile and Heating Stages, and Field Canceling devices. Specimen Prep Equipment provides Ion Milling, Coating and Etching capabilities. For In-Microscope imaging, Gatan provides a variety of cameras for use in the TEM. These provide capabilities for real-time imaging, high-resolution imaging, and digital image capture. A wide variety of training courses are available at Gatan. The course in EELS Imaging and Analysis serves as an introduction to the capabilities of analysis systems, and provides current users with the background to get the most out of their systems. Other course topics include TEM Digital Imaging, Cathodoluminescence, and SPM-TEM Nanocharacterization. Training and equipment demos are held in Pleasanton, CA.

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See the Spring issue of the Newsletter for Close-Ups of:

JEOL USA, INC Steve Hamilton, New England Sales Manager

Micro Star Technologies, Inc Cathy Ryan 511 FM 3179 Huntsville, TX 77340

\*\*\*\*\*IMPORTANT NOTICE\*\*\*\*\*

Members of NESM:

There will be a vote at the Annual Meeting in December to approve the new and improved Bylaws of the New England Society for Microscopy. You may also vote by mail until 30 days after this Newsletter was mailed (by December 15th). These bylaws, included on following pages, have already been approved by the NESM Directors. The primary changes from the old bylaws allow the society to adhere to laws of the Commonwealth of Massachusetts with respect to the title of Clerk, to define a "quorum" as ten percent of the membership, to re-define the date of the Annual Meeting as early December to correspond with current practice, and to include the miscellaneous changes since the 1989 bylaws were amended in 1994, not the least of which were the change of the name of the society to the New England Society for Microscopy and the change of the title of the physical sciences class of directors to Physical Sciences Directors. In addition, there are a number of editorial changes to correct inconsistencies and misspellings. **Please vote for these changes on the enclosed ballot.** Thank you.

Mary McCann  
Clerk

# **BYLAWS OF THE NEW ENGLAND SOCIETY FOR MICROSCOPY**

## **Approved December, 2004**

### **Article I. – NAME**

This Corporation shall be the New England Society for Microscopy, Incorporated.

### **Article II. – PURPOSE**

The purpose of this Corporation is to increase, to disseminate, and to promote interchange of knowledge of microscopy and its applications in New England.

### **Article III. – USE OF FUNDS**

This Corporation shall use its funds only to accomplish the objects and purposes specified in Article II and no part of said funds shall inure, or be distributed, to the members of this Corporation. On dissolution, the funds of the Corporation shall be distributed to one or more regularly organized charitable organizations to be selected by the Board of Directors.

### **Article IV. – MEMBERSHIP**

Section 1. Eligibility. Any person or corporation interested microscopy shall be eligible for membership.

Section 2. Election. Membership shall be conferred by vote of the Board of Directors at its next Meeting after receipt of an application (including one year's dues); except in the case of Honorary Members, who shall be elected by the Society Membership after having been recommended by the Board of Directors.

Section 3. Classes of Members. All Members may vote, and shall be either:

- A. Regular Members, who may hold office;
- B. Student Members, defined as current, bona-fide students;
- C. Retired Members, defined as retired from full-time employment;
- D. Sustaining Members, who may designate two persons as Regular Members for the purposes holding of-  
fice;
- E. Honorary Members, recognized for outstanding service to NESM.

Section 4. Termination. Membership may be terminated for cause by a two-thirds vote of the Board of Directors, consistent with fair and reasonable investigation and proceedings. Failure by a Member to pay Dues by May 31 of the year in question shall automatically result in Termination, without additional proceedings.

Section 5. Dues. Dues shall be determined by vote of the Society Membership.

Section 6. Dues Payment. Dues shall be payable by May 31 of the current calendar year.

Section 7. Membership Term. Membership shall run for one calendar year.

### **Article V. – MEETINGS OF THE SOCIETY**

Section 1. The Annual Business Meeting will be held in early December at 5:00 P.M., in conjunction with a Technical Meeting. At least three other Technical Meetings shall be held each year. Other Special Meetings may be called by the Board of Directors or by the Clerk, upon written application of ten or more Members, who state the purpose of the Special Meeting.

Section 2. The Board of Directors shall determine the time and place of Meetings, and shall notify the Membership thereof, by mail, at least ten days in advance of each Meeting.

Section 3. Society business shall be transacted at the Annual Business Meeting or other Meetings, in the presence of a quorum, by majority vote of Members present, unless otherwise provided in these Bylaws. Ten percent of the Members shall constitute a quorum. The Order of Business at the Annual Business Meeting shall be:

- A. Reading of the Minutes of the preceding Meeting.
- B. Report of the President.
- C. Report of the Treasurer.
- D. Reports of Committees.
- E. Other Business, including election of officers.

## **Article VI. – BOARD OF DIRECTORS**

- Section 1. Composition. The Board of Directors shall consist of the eleven elected Officers: The President, President-Elect, Treasurer, Clerk, Corresponding Secretary, three Biological Sciences Directors, and three Physical Sciences Directors.
- Section 2. Powers. All corporate powers, except as otherwise provided in these Bylaws, shall be vested in the Board of Directors.
- Section 3. Meetings. The Board of Directors shall meet at times and places determined by them; or by call of the President; or by call of the Clerk upon written application of six or more members of the Board, who shall state the purpose of the Meeting applied for. The Clerk shall notify the Board of Directors at least one week before each meeting.
- Section 4. Business shall be transacted at the Board meetings, in the presence of a quorum, by majority vote of Board Members present, unless otherwise provided in these Bylaws. Six Board Members shall constitute a quorum.
- Section 5. Terms of Office. The President-Elect, Treasurer, Clerk, and Corresponding Secretary shall be elected to terms of two years (the President-Elect shall serve as President during the second year of his/her term). The Directors shall be elected to terms of three years. No person may hold the same elected Office for more than two consecutive terms. Terms of Office shall begin at the conclusion of the Annual Business meeting.
- Section 6. Vacancy. In the event any Office becomes vacant, the Board of Directors shall, at its next Meeting, elect an Officer to fill the vacancy until the next Annual Business Meeting, at which the Society Membership shall elect an officer to serve the remaining part (if any) of the vacated term.
- Section 7. Nomination and Election. Nominations for Office shall be made by a nominating Committee, consisting of the I immediate past President as Chair and two other Regular Members, not Board Members, appointed by the President. These appointments shall fairly represent the various interests of the Society Membership. The Nominating Committee shall present a Slate of at least one candidate for each Office to be filled to the Clerk, no later than November 1. A Ballot, including the Slate of Nominees, as well as provision for write-in candidates, will be mailed to the Society Membership along with notice of the Annual Business meeting. Ballots will be collected by mail and at the Annual Business Meeting and counted at that Meeting. Candidates receiving a majority of votes shall be elected.
- Section 8. Duties of Officers. In addition to the duties commonly incident to office,
- A. The President shall serve, ex officio, on all Committees except the Nomination Committee, and shall provide primary liaison with the national affiliated societies.
  - B. The President-Elect shall serve as Chair of the Program Committee.
  - C. The Treasurer may write Society checks on his/her own recognizance up to an amount determined annually by the Board of Directors.
  - D. The Board of Directors shall arrange for the Society books to be audited annually.
- Section 9. President's Advisory Committee. Past Presidents of the Society, while not holding other Society Office, shall automatically become members of the President's Advisory Committee, so long as they maintain Membership in NESM. The Committee shall serve in an advisory capacity only, and only when requested by the President, or other Officers of the Society. Committee Members shall not be members of the Board of Directors.

## **Article VII. – FISCAL YEAR**

The Fiscal Year of the Corporation shall end on December 31.

## **Article VIII. – AMENDMENTS**

Proposed Amendments to these Bylaws may be made either by a majority of the Board of Directors or by application or fifteen or more Members to the Clerk, at which time the proposers will direct the Clerk as to the manner of Balloting to be used. If the proposals are to be acted on at the Annual Business Meeting, they will be mailed to the Society Membership along with the notice of that Meeting. If the proposals are to be acted on by mail ballot, the Clerk shall mail the proposals and ballots to the Society Membership no later than two weeks after he/she receives them, and shall close the balloting thirty days after they are mailed. In either case, a two-thirds majority of those voting is required for passage; providing, however, in the case of a mail ballot, that the number of ballots received is at least equal to a quorum (ten percent), else the proposals will have failed.

## **Project MICRO Update:**

This was my first Project MICRO foray. I took it to the Penobscot Community Elementary School in Penobscot, Maine. I had a 5th/6th combined grade. Mary Ann Cousins is their teacher and she had somehow heard about Microscopy demos and was routed to me after she called The Jackson Laboratory. We do a lot of outreach to the community because we're so rural up here and I do numerous tours here at TJL as well as Kids' Science Night during the summer. Mrs. Cousins has been teaching them a science module that included cells and microscopes so Project MICRO was a good hands-on addition to their curriculum. That day, there were about 14 kids. My shrimp eggs did not hatch (I need to figure that one out!) and it's pretty cold here now so we skipped the last two activities (also the space I had to work in was very tight) but we did the other 8 stations and it worked well. The kids really enjoyed doing their fingerprints, examining the textiles and the "dots and prints". I cut up a dollar bill (which flabbergasted them - how could anyone cut up real money???) as well as newsprint and magazine pictures for them to look at. I also collected some bugs (crickets, beetles and woolly bear caterpillars) while walking my dog so I had the "small critters" station set up and that really fascinated them. They had a good time looking at the different sands and powders. They also had fun examining the crystals that formed on their sun-catchers under a microscope too. It took them about an hour and a half to do the 8 stations and the sun-catchers and fill out their little booklets (I had more made). I think it took me an hour to set up as I was on my own! Next time I hope to bring someone with me.

What was nice was that they followed it up with a trip here and Jon Geiger, out Education coordinator, took them up to our teaching lab where they did cheek cell scrapes with a DAPI stain under a fluorescent microscope so they could see their own DNA. Then they came down to my area where I showed them higher power images of bugs (yes, we have a collection of those ready) on the SEM as well as a few samples of their own hair as hair is really quick to prepare for the SEM. I always send those stubs back with the teacher too.

Anyhow, I totally enjoyed it. Their teacher says they got a lot out of it. I could see that it interested all of them. It's really geared correctly to the age group. And I hope to do it again.

Lesley S. Bechtold  
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As you can see, Project MICRO is continuing to excite youngsters (and volunteers who run the Festival)! Mary McCann and myself hope to do another Festival at the Baker School Extended Day Program (Brookline, MA) in Spring 2005. Sharon Corliss, the Director, really loved having us, and her staff was very helpful.

Please consider running such a Festival in your town—contact your local schools and teachers. I'm sure most of them would be thrilled to have their students participate!  
If interested, please contact Mary McCann (mccanns@tiac.net) or 617-484-7865.

Peggy Sherwood

## Reflections on the Cryo-Ultramicrotomy Workshop (November 3rd-4th)

I wish to express my appreciation to Warren Moberlychan for doing a wonderful job in taking care of the local arrangements necessary to make the Cryo-Ultramicrotomy workshop at Harvard a great success. Warren was very supportive in making sure the participants had maximal use of the facilities available. He also worked tirelessly in helping us image our samples on the TEM after we managed to try our hands at cryo-sectioning. Warren is to be commended for his excellent tour of the facilities and I was very impressed with the enthusiasm he showed in trying to get the best digital images possible from our less than ideal samples considering we were just learning the ropes. Thanks Warren. You were a trooper on this one.

The instruction of Greg Becker from RMC and the encouragement of Michael McCarthy from IIS was wonderful. These guys had endless energy and made it fun for all of us with their relaxed style, humor, and wealth of knowledge. This was a workshop that we will remember in a very positive sense for years to come.

Thank you Greg, Michael, and our great board member Warren.

Let's do this again down the road on another hands-on topic that will give visibility to the society and provide an opportunity for members and friends of NESM to grow in their discipline.

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The New England Society for Microscopy needs your help. Our membership numbers have dropped in recent years: in 2002, we had 184 members; in 2004, we had 175 members. This trend must be reversed if we are to remain a viable society.

There is a relatively simple and effective way that you can help increase our membership. Ask two of your colleagues to attend meetings and possibly join NESM. The personal contact is important - a notice on the Bulletin Board may not be read in time. Go ahead, ask somebody to join for their own good - and the good of NESM.

Steve Stokowski  
President-elect  
New England Society for Microscopy