



# NESM News

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## **BOSTON SCIENTIFIC TO HOST OCTOBER MEETING!**

NESM is pleased that Boston Scientific has agreed to host our October Meeting. Boston Scientific's history began in the late 1960s, when co-founder John Abele acquired an equity interest in Medi-tech, Inc., a research and development company focused on developing alternatives to traditional surgery. Medi-tech's first products, a family of steerable catheters, were introduced in 1969 and were used in some of the first less-invasive procedures. Versions of these steerable catheters are still used today. In 1979, Abele and Pete Nicholas partnered to buy Medi-tech and together formed Boston Scientific Corporation. Driven by the needs of the medical community for innovative products, the Company grew from revenues of approximately \$2 million in 1979 to more than \$2.67 billion in 2001.

Since its public offering in 1992, Boston Scientific has undertaken an aggressive acquisition strategy, assembling the lines of business that allow it to continue to be a leader in the medical industry. Outside of North America, the Company's development, manufacturing, marketing and sales are managed by the International division of Boston Scientific through its operations in Europe, Japan and Asia Pacific, and include sales representatives in 40 countries. Today, Boston Scientific employs approximately 14,000 people and operates 21 technology centers worldwide. Corporate headquarters are located in Natick, Massachusetts.

The meeting will begin at 5:30 pm with Registration in Building A. A catered buffet supper, featuring a choice of one of two delicious pasta dishes, will follow in the cafeteria at 6:00 pm. The technical presentations will start at 7:15 pm in the Auditorium. We are pleased to welcome Dr. Francesco Stellacci from MIT's Department of Materials Science & Engineering and NESM's Materials Science Director, Steve Stokowski, as our featured speakers of the evening. Because of corporate security, there will be no facility tour. You are **encouraged to pre-register** for this meeting; if you are joining us for dinner, you **must** select your entree: vegetarian or non-vegetarian pasta (see registration form on page 3). You may **mail your registration form** in—as long as it reaches Paul Bain **by October 10th**. Otherwise, email Paul with your dinner selection by October 10th.

NESM would like to thank Nancy Simons of Boston Scientific Corporation for all her help in planning this meeting and offering the site.

# NESM'S October Meeting

## Boston Scientific Corporation

One Boston Scientific Place  
Natick, Massachusetts 01760  
(508)-650-8603

**Tuesday October 14, 2003**

4:00-5:30 pm      **NESM Council Meeting**

5:30-6:00 pm      Registration

6:00-7:15 pm      Buffet Supper

7:15 pm            Technical Presentations

\* **Use of the Scanned Probe Microscope as a Lithographic Tool**

Francesco Stellacci, Dept. of Materials Science & Engineering  
Massachusetts Institute of Technology, Cambridge, MA 02139

\* **Black Granite from Hell**

Steve Stokowski, Building Products Microscopy  
Stone Products Consultants, Ashland, MA 01721-2145

9:00 pm            Adjournment—Tony Garratt-Reed, President NESM

\*\*\*\* *Please Note: Due to security reasons, there will be **no tour** of the Boston Scientific's facility*

**Advance Registration Form**  
**October Meeting, October 14, 2003**

**Registration Deadline**  
**October 10, 2003**

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 \_\_\_\_\_

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

Phone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_

**Advance Registration**

**Dinner :** Please select one

- |   |          |  |
|---|----------|--|
| <input type="checkbox"/> NESM member            | \$10.00  | <input type="checkbox"/> Pasta Sarafino (with chicken) |
| <input type="checkbox"/> Student/retired member | \$10.00  | <input type="checkbox"/> Pasta Palermo (vegetarian)    |
| <input type="checkbox"/> Non-member             | \$20.00* |  |

Total enclosed \_\_\_\_\_

\*Non-member registration includes current-year NESM membership.

**MARK YOUR CALENDARS!**

**Upcoming NESM Meetings**

\* Tuesday, December 9th-Fall Symposium at Gordon College

\* Monday, March 8th-Meeting at Worcester Polytechnic Institute



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



## **Directions to Boston Scientific-Natick Campus**

**BSC World Headquarters One Boston Scientific Place Natick Boston**

Scientific Corporation  
One Boston Scientific Place  
Natick, Massachusetts 01760  
(508) 650-8000 or (800) 272-3737

### **From Logan International Airport:**

Follow signs to the Sumner Tunnel

Go through tunnel

Upon exit, bear to the right and stay in the left lane

Look for signs for the Southeast Expressway (93 South) and the Massachusetts Turnpike\* (I-90)

At the first light take a left following signs onto the Expressway

Approximately one mile further, take exit for the Massachusetts Turnpike (I-90)

You will be heading west on the Massachusetts Turnpike (I-90)

### **From the Massachusetts Turnpike (I-90):**

Take exit 13 to Route 30 East

At the first set of lights, take a right onto Speen Street

Proceed through two set of lights; staying in the left hand lane

\*You will pass a Home Depot on your left

After the second set of lights, turn left onto Mall Road (Sam's Club is on the corner) and stay in the right hand lane

Proceed straight at the next light onto Prime Parkway to Boston Scientific Corporation

**Please stop at the visitor's center**

\* The Sumner Tunnel and Massachusetts Turnpike requires drivers to pay tolls. If traveling on the Pike, you should bring four dollars for the tolls.

For a map to Boston Scientific, go to MapQuest:

<http://www.mapquest.com/maps/map.adp?email=1&mapdat>

## NESM APPLICATION FOR MEMBERSHIP

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

### NESM Officers 2003

**President**  
2003

Anthony J. Garratt-Reed  
MIT (617) 253-4622  
tonygr@MIT.EDU

**President-elect**  
2004

Rick Rogers  
HSPH (617) 432-3472  
rogers@bioimage.harvard.edu

**Past President**  
2002

Lynne Garone  
E Ink Corp. (617) 499-6000 X6149

**Treasurer**  
2003

Paul Bain  
Countway Library (617) 432-3236  
Paul\_Bain@hms.harvard.edu

**Recording Secretary**  
2003

Mary McCann  
McCann Imaging (617) 484-7865  
mccanns@tiac.net

**Corresponding Secretary**  
2003

Peggy Sherwood  
MGH-Wellman Labs of Photomedicine  
(617)724-4839; MESnesm@rcn.com

**Materials Science Directors**  
2003

James F. Mancuso-AMT  
(978)774-5550; info@amtimaging.com

2004

N. Carl Miller-Raytheon  
(781) 860-3334; Norman\_C\_Miller@raytheon.com

2005

Steve Stokowski-Stone Products Consultants  
(508) 881-6364; CrushStone@aol.com

**Biological Sciences Directors**

2003

Ezequiel R. Rivera-UMASS Lowell  
(978) 934-2868; ezequiel\_rivera@uml.edu

2004

Daniel G. Gibson-WPI  
(508) 831-5543; dgibson@WPI.EDU

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 425794, Cambridge, MA 02142

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

## Project MICRO Update

Project MICRO is still going strong after NESM took it under its wing! I had a chance (finally!) to take part in a teaching session and enjoyed it thoroughly. I joined Mary McCann at the New Learning Prep School in Newton on Wednesday, June 18, 2003 for a morning of exploration with about 40 students. The students were delightful: very involved and interested in the various stations. I personally supervised the brine shrimp station. After preparing slides and looking under the microscope, the students engaged in discussion and wrote their observations in a notebook. As you would expect with kids, some were quick to understand what we were after, while others needed a little guidance to understand. It was actually quite exciting, as larvae hatched on slides on the microscope stage, right before our eyes! Many students were "astute" and realized it must have been because of the heat from the microscope lamp!

This session at New Learning Prep marked the third year that Project MICRO has been incorporated into their learning curriculum. Chris Mattson, the organizing teacher, does an excellent job of recruiting the rest of the staff: various teachers manned the various stations and rotated the students in an orderly fashion through all 10 learning centers. When the students completed a station, they wrote their observations on index cards and stapled them to a bulletin board in the main classroom for all to see. There were no right or wrong answers—just interesting insights into scientific observation!

I have already got an after-school program in Brookline interested in having a Project MICRO festival! I do hope other people will take the initiative and run a session: you will be rewarded many times over! If you have a youngster in middle school, and would be interested in bringing Project MICRO to their school, this is the time of year to bring our outreach program to their teachers' attention. NESM has three Project MICRO kits ready to provide all of the materials, including microscopes, necessary for "Microscopic Explorations" festival for middle schoolers. Jan Schwarz at the University of Vermont, has kept one kit very busy, with one presentation a month at Vermont middle schools.

If you have questions regarding Project MICRO, email Mary McCann ([mccanns@tiac.net](mailto:mccanns@tiac.net)) about availability of the kit or the booklet describing Microscopic Explorations activities. We'd like to keep all three kits as busy as the Vermont one!

Peggy Sherwood

Corresponding Secretary, NESM