



NESM News

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21st Annual Woods Hole Symposium to be held April 30th-May 1st

As Woods Hole becomes increasingly popular for meetings and workshops, NESM's Annual Symposium has been moved back to the last weekend in April. The **meeting** this year will be **Friday, April 30th and Saturday, May 1st**. NESM is again pleased to welcome it's co-host, the Connecticut Microscopy Society (CMS), whose support and participation is greatly appreciated. NESM and CMS will present a **workshop on Thursday, April 29th: Image Processing** run by David S. Bright, (retired) from the National Institute of Standards and Technology in Gaithersburg, Maryland. (Please see details included in the newsletter). The Woods Hole meeting continues to be a favorite among society members, corporate sponsors, students and guests alike. This meeting, which is devoted to microscopy and its associated techniques, welcomes scientists from both the materials science and biological arenas. It's is an exciting forum with speakers from around the country who are experts in their respective fields.

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, as well as a Poster Session where research interests of both students and professionals can be presented and shared. Prizes are offered in various categories, so please consider submitting your work.

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 by made by April 23rd**. Payment must accom-
 * pany all registrations. Please use the registration form
 * inside this newsletter.

■ Accomodations

Swope Center at MBL

\$43.50/person/day, double occupancy

\$77/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

#####

■ 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 acomodations (**double occupancy only**) at Swope Center for \$50.00 (for members of NESM) and \$55.00 (which includes a one-year membership).

Twenty-First Annual Spring Symposium

Marine Biological Laboratories ▪ Woods Hole, Massachusetts ▪ April 30 –May 1, 2004

Friday, April 30th

12:00 pm **Registration:** Swope Center
1:00 pm **Welcome:** Lillie Auditorium—Rick Rogers, NESM President

Session I - Moderator, Jim Mancuso

1:10 pm **Laser Capture Microdissection of Bone and Cartilage; Gene Expression Studies
Complimenting Structural Analyses**
Prof. William J. Landis, Northeastern Ohio Universities College of Medicine

1:50 pm **Sensor and Camera Selection for Quantitative Imaging**
Robert Roche, Hamamatsu Photonic Corporation

2:30 pm **Imaging and the Mechanism of an Actin-Based Spring**
Prof. Paul Matsudaira, Whitehead Institute, Massachusetts Institute of Technology

3:10 pm Afternoon Break
Coffee served in Lillie 103

Session II - Moderator, Carl Miller

3:30 pm **High-Resolution (Cryo), Scanned-Electron Microscopies of Cells, Hydrogels, & Biomaterials**
Prof. Robert Apkarian, Emory University, Atlanta, GA

4:10 pm **Spectrum Imaging: The Next Step in Microanalysis**
Dr. Paul J. Kotula, Sandia National Laboratories

5:30 pm **Cocktails and Dinner: Swope Center**

7:30 pm After Dinner Talk Meigs Room, Swope Center
From Microscope to Telescope, Science Applications in Historical Archeology
Prof. Stephen A. Mrozowski, Dept. of Anthropology, University of Massachusetts-Boston

Saturday, May 1st

7:00 am Breakfast: Swope Center
8:20 am Welcome: Lillie Auditorium— Steve Stokowski, NESM President-elect

Session III - Moderator, Marc Pypaert

8:30 am **Meteorite Mayhem in Old Virginia**
Dr. C. Wylie Poag, U. S. Geological Survey, Woods Hole

9:15 am **Imaging RNA Trafficking in Neural Cells**
Dr. John Carson, Dept. of Molecular Microbial and Structural Biology, UCONN Health Center

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—Dan Gibson
Poster Area, Swope Center

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

1:15 pm Dan Gibson will lead a salt marsh tour. Maybe we will see horseshoe crabs mating.
1:15, 2:30 pm Ed Enos of Woods Hole MBL will lead one or two Marine Resources Center tours.

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 23, 2004**.

► **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) through CT to Providence, RI. Take the SE Expressway (Rte 3) In Providence, exit to Rte 195. to the Sagamore Bridge Rotary Follow 195 through New Bedford to its end, and exit right (53 mi). Do not go over the Sagamore Bridge. Take the first onto Rte 25 towards Cape Cod. rotary exit towards the Bourne Follow Rte 25 to the Bourne Bridge along the Bourne Scenic Bridge and continue over the Hwy (Rte 6E). At the Bourne Bourne Bridge. At the base of the 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) 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.

Judging Criteria For Posters:

The posters are not judged on their scientific merit!

The Point Scale ranges from 1-5 for each Judging Category. If the presenter does not wish to be included in the competition, indicate "d".

Microscope Adjustment: Do the photomicrographs or images illustrate that the microscope was properly adjusted? Is the specimen in focus? For SEM images, did the sample charge up? Was the proper accelerating voltage used? For light microscopes, is there a uniform field of illumination? For AFM, DIC, Confocal, or other techniques, are the images free of distortions or artifacts?

Quality of Images: Is the subject properly in the field of view? Are the images relatively free of lines or dust specks? Was the film or digital image correctly printed? Is there a scale?

Clarity of Graphics: Are the graphics well-drawn? Are the axes of any graphs labeled? Is color or black & white used effectively? Do the graphics stand alone, or must one refer to the text?

Clarity of Text: Does the text tell the story clearly and concisely? Is any necessary jargon clearly explained? Are complete sentences used?

Layout of Poster: Is the poster easy to follow? Are arrows or numbers used to guide the reader from one part of the poster to the other? Is the title and subject of the poster obvious?

Interaction with Judges: Is the presenter enthusiastic and personable? Is the presenter professionally attired and groomed? Does the presenter answer simple questions in a clear, concise and knowledgeable manner? (Suggestions: What microscopes did you use for this work? When and how were they calibrated?)

Meetings, Conferences, & Courses 2004

April 30-May 1, 2004
NESM/CMS 21st Ann.

Woods Hole Meeting
Woods Hole, MA
Contact: Paul Bain
(617)432-3236
paul_bain@hms.harvard.edu

May 6-14, 2004
Analytic & Quantitative LM Course—MBL
Woods Hole, MA
Contact: Carol Hamel
admissions@mbl.edu
www.mbl.edu/education

May 17-21, 2004 **Workshop: Adv. Tech. In SEM & Microanalysis for Materials Characterization**
McGill University
Montreal, Quebec
Contact: Raynald Gavin
raynald.gauvin@mcgill.ca

June 6-19, 2004
Lehigh Microscopy School Courses: 6 Intro to SEM and EDS
Lehigh University
Bethlehem, PA
Contact: Sharon Coe
sharon.coe@lehigh.edu

June 7-11, 2004
Training Workshop on Polymer Microscopy
University of Michigan
Ann Arbor, MI
Contact: David Martin
mility@umich.edu



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.
Denton Vacuum
E.A. Fischione Instr. Inc.
Eastman Kodak
EDAX, Inc.
Electro-Image, Inc.
Emispec Systems, Inc.
EMS/Diatome
Energy Beam Sciences
Ernest F. Fullam
FEI Philips Electron Optics
Gatan, Inc.
Geller MicroAnalytical Lab
Hacker Instru. & Industries
HKL Technology
Hysitron, Inc.
International Instr. Sales
JEOL-USA, Inc.
Ladd Research Indust., Inc.
Leica Microsystems, Inc.
LEO Electron Microscopy
MEDTEC
Micro Star Technologies
NanoTech Consulting
Optechs, Inc.
Oxford Instruments America
Quality Images
SSSC
SensIR Technologies
Technotrade International
Thermo Electron
Tietz Video & Image
Processing Systems
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: Business Office@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.

Advance Registration Form

Registration after April 23rd 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*)

Registration Deadline

April 23, 2004

Note: All 2003 members of NESM were invoiced for 2004 dues in March. NESM dues must be paid prior to reserving. Please check here if you are including your dues with this reservation.

REGISTRATIONS WILL BE PROCESSED ONLY AFTER PAYMENT IS RECEIVED.

Advance Registration including Dinner on 4/30/04

- | | | | | |
|---|----------|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> NESM Member | \$50.00 | Dinner (choose 1) | <input type="checkbox"/> Fish | <u>Please note:</u> Dinner reservations cannot |
| <input type="checkbox"/> Non-member | \$65.00* | | <input type="checkbox"/> Beef | be accepted after April 23rd. |
| <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 \$43.50/person**
 Single Occupancy \$77.00/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 1, 2004 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

Absolute Deadline for Receipt of Entries: April 23, 2004

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.

*******Please see page 3 of newsletter for judging criteria & prizes*******

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

BEST POSTER BEST STUDENT POSTER BEST PHOTO-AS-ART

Email this form and your abstract to:

Dan Gibson
dgibson.wpi.edu

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

Please Post

21st Annual Spring Symposium

hosted by

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

April 30th & May 1st 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

Go to NESM's website—<http://prism.mit.edu.8083>

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 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. Send to Paul Bain, Countway 212, 10 Shattuck Street, Boston, MA 02115

NESM Officers 2004

President 2004	Rick Rogers HSPH (617) 432-3472 rogers@bioimage.harvard.edu	Materials Science Directors 2004	N. Carl Miller-Raytheon (978) 858-9019; Norman_C_Miller@raytheon.com
President-elect 2005	Steve Stokowski Stone Prod. Cons. (508) 881-6364 CrushStone@aol.com	2005	James F. Mancuso-AMT (978) 774-5550; info@amtimaging.com
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Treasurer 2005	Paul Bain Countway Library (617) 432-3236 paul_bain@hms.harvard.edu	Biological Sciences Director 2004	Daniel G. Gibson-WPI (508) 831-5543; dgibson@WPI.EDU
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Mailing Address: NESM, P.O. Box 425232, Cambridge, MA 02142		Supernumary Director 2003	Ken Orndorff-Dartmouth Medical School (603) 650-7661; keno@dartmouth.edu
		NESM Web site:	http://prism.mit.edu.8083

Thursday, April 29th Workshop

Image Processing

Presented by

David S. Bright

National Institute of Standards and Technology

Gaithersburg, Maryland (retired)

When you take a picture of anatase particles distributed on a carbon film, cells adhering to a substrate, or even crystals on Mars, the resulting image is just the first step toward better understanding of the world. It doesn't matter whether your "picture" is on photographic film, within a digital file, or even presented as some other record of light, electrons, x-rays, or other phenomena, it can and should be analyzed to extract quantitative scientific facts. The picture is the art; the analysis is the science.

The human eye and brain are remarkably adept at perceiving qualitative detail in visual images, but achieving quantitative detail, even with the assistance of a computer, is surprisingly challenging. Nevertheless, computer automation allows us to readily collect large datasets and then perform complicated statistical analyses to extract scientific facts. Once you start using computer-assisted image processing techniques, you won't want to go back to waving your arms!

This seminar will cover basic image processing concepts, give an introduction to some of the techniques available for more advance image processing problems, and address some of the difficulties encountered in real-world situations. Registrants are invited to send two of their images beforehand – if time allows, these will then be used as examples in the presentation. The presentation will be illustrated by the use of Lispix, a public-domain image processing and analysis package authored by Dr. Bright. A copy of Lispix, together with other course materials, will be provided on CD to each registrant.

About the presenter:

Dr. Bright recently retired from the National Institute of Standards and Technology, where he had been a research chemist since 1976. He started at NIST soon after he received his Ph.D. in Biophysics from Colorado State University in 1975. When he started at NIST he developed an interest in computer assisted analysis. In 1984, he joined the Microanalysis group of the Center for Analytical Chemistry to develop the image analysis system, Lispix, and to apply image analysis techniques to various research problems of the group. Researchers use Lispix to automate electron microscopes, identify arrays in electron diffraction patterns, enhance and correlate x-ray maps, find and measure areas of interest in images, and to archive images and exchange images and data with other image processing programs. Dr. Bright uses Lispix to develop algorithms that solve on various image-processing problems. He has authored ninety papers and has given sixty invited talks on image analysis since 1983.

About Lispix:

Lispix is a public domain image analysis program for Windows© . While including basic image processing functions found in NIH Image© , ImageJ© , Scion Image© , ImageTool© , and in some commercial programs, Lispix also has a collection of special purpose research tools for electron microscopy and spectral imaging at NIST. In spite of that, many of the features incorporated into Lispix have been useful for other researchers. Lispix is useful for processing and analyzing images, and stacks of images or data cubes. Image pixels can be bit, integer, real, complex and color.

While current versions of Lispix run only in the Windows© environment, there are earlier (unsupported) MAC versions available. This seminar will focus on the current Windows© version.

Image Processing Seminar

Registration Information

Date: Thursday April 29th. 2004, 1:00 p.m. - 9:00 p.m. (with break for dinner)

Location: Candle House, Marine Biological Laboratory, Woods Hole, Massachusetts (Full directions will be made available)

Cost: Registration: \$100.00 (plus \$15 membership dues for non-members of either society)

Computer rental (if required - see below): \$20

Accommodation (bed and breakfast, if required): \$77 single, \$43.50 double. (Note: dinner is not included for Thursday night)

Computers: A modern PC is required. Minimum configuration: 128MB ram, any Pentium, 1 GB hard drive, 640 x 480 screen, Windows 2000 (or maybe 98). The more your computer exceeds these specifications, the better the programs will run. If you do not have access to a suitable laptop, we have made arrangements to rent machines for \$20 for the day. If you bring your own machine, you will receive instructions on downloading and installing the software ahead of time.

Images: In order to make the presentation as relevant as possible, Dr. Bright asks participants to submit an example of an image of interest which, if time permits, he will discuss during the presentation. Please forward your images, with a brief description, to Tony Garratt-Reed at tonygr@mit.edu, for onward transmission to Dr. Bright. Images will be made available to all participants with an appropriate copyright notice forbidding any other copying. However, it is obviously necessary that your images not be confidential or secret in any other way, and that you have permission to use them for this purpose.

To reserve your place: Since space in the seminar is limited, advance reservation is essential. Send your name, along with contact information, to Paul Bain at Harvard Medical School, Countway 212, 10 Shattuck Street, Boston, MA 02115, Tel 617-432-3236, Fax 617-432-0693, e-mail Paul_bain@hms.harvard.edu. Indicate whether you will need a rental computer and/or room for Thursday night. If requesting double occupancy, indicate the name of the person with whom you will be sharing, or the gender if you wish a roommate to be assigned. If a non-member, please also indicate which of the sponsoring societies you would like to join. You will be invoiced for the applicable payment. **IMPORTANT:** to retain your space, it is necessary for payment in full to be received by Friday April 16th. 2004. (Note: non-members registering both for the Workshop and the following symposium will register at the symposium for the members' rate.)

Cancellations: If it is necessary for you to cancel your reservation, a full refund of all money paid will be made provided cancellation is received on or before Friday April 16th. Cancellations received after April 16th. but on or before Wednesday April 28th. will result in refund of half the money paid, unless another person is available to take the vacant place, in which case a full refund will be made. Refunds will not be made for "No shows".

Mark Your Calendars!

NESM's Fall Symposium

December 2, 2004

Gordon College

Wenham, MA

Future Dates for Woods Hole Symposium*

2005 4/28-4/30

2006 5/4-5/6

2007 5/3-5/5

2008 5/1-5/3

2009 4/30-5/2

***Note: These dates include a reservation for Thursday also in case we run more workshops**