Monthly Meeting

Henry A. Hill Award to M. Hearn; Anne T. O’Brien, District I Director speaks

224th ACS Meeting

Reports, NESACS involvement

National Chemistry Week Programs

Brauner Memorial Lectures
Student Activities

Nucleus Buyers Guide

Listing of Suppliers, Products and Services
To be honored at the October 10, 2002 meeting
Dr. Malwina Allen
Dr. Sheldon A. Buckler
Dr. Chester Eliot Claff, Jr.
Mr. A. Robert Conant
Dr. Robert J. Cotter
Mr. John L. Gale
Ms. Eleanor Garvey
Mr. Leonard Grant Graf
Dr. Frederick D. Greene
Dr. Milton Lapkin
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Dr. Monis J. Manning
Dr. Kenneth A. Moon
Dr. Richard G. Nickerson
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Dr. Arthur S. Obermayer
Mr. Morris R. Ort
Dr. Clarence Eugene Pfugler
Dr. Jack Leon Pinkus
Mr. Donald O. Rickter
Dr. Ira E. Smiley
Dr. James N. Tilley
Mr. Malcolm L. Trayser
Our best wishes to these 50-year members

50-Year Members

Thanks, Volunteers

To the many local volunteers who contributed to the success of the National ACS Fall Meeting: THANKS. Student volunteers, the YCC blood donors and helpers, NESACS committee members.

But special thanks to the volunteers at the Hospitality Center: Mary Burgess who headed the group, Michaeline Chen, Doreen Frigo, Jean Fuller-Stanley, Barbara and Wally Gleekman, Patrick Gordon and sons Peter and Patrick, Arno Heyn, Sandy Hoffman, Carolyn Kendrow (from the Rhode Island Section), Arlene and Ted Light, Frances Shawcross, Rose and Myke Simon, and Valerie Wilcox. They were the visible representatives, welcoming and helping visitors.
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Cover: Anne T. O’Brien, October Meeting speaker (photo by ACS)

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THE NUCLEUS

The Nucleus is distributed to the members of the Northeastern Section of the American Chemical Society, to the secretaries of the Local Sections, and to editors of all local A.C.S. Section publications. Forms close for advertising on the 1st of the month of the preceding issue. Text must be received by the editor six weeks before the date of issue.

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Who was Henry A. Hill?

Henry Hill was Chairman of our Section in 1963. He was very active in the national ACS, and was a member of, and chairman of several of its committees. He is especially remembered for his service on the Professional Relations Committee, where he was on the subcommittee which developed *The Chemists’ Creed* (1965), a forerunner of the Professional Employment Guidelines. He was Director of the ACS in 1971-1975 and was elected President-Elect and became President in 1976. His strong interest in professional matters continued in these positions.

Born in St. Joseph, Missouri he obtained a bachelor’s degree from Johnson C. Smith University, then a segregated university for “colored” students, as they were then called. Because of his excellent record he was accepted at M.I.T., to study organic chemistry, and obtained the Ph.D. in 1942 working under Prof. Robert C. Hockett. While at M.I.T. he became acquainted with Prof. James Flack Norris of whom he said:

> He was the first big man I met who was more interested in my ability to learn chemistry than in the identity of my grandparents

Because of discrimination he was unable to find employment with the major chemical firms to which he had applied. With the help of a sympathetic professor and a fellow student he received three offers, and accepted employment at the National Atlantic Research Co. in Newtonville, MA.

In 1946 he joined Dewey & Almy Co. as Research Supervisor and in 1952 he became Vice President of National Polychemicals which was active in polymer chemistry. He obtained patents for blowing agents.

In 1961 he established his own research and consulting business, “Riverside Laboratories” to be able to pursue his research interests and to allow him to participate in ACS activities.

After his untimely death in 1979, friends and colleagues in the Northeastern Section established the Henry A. Hill Award for Outstanding Service to the Northeastern Section and to the Profession of Chemistry. The first award was made posthumously to Henry A. Hill in 1980, his son Anthony C. Hill, then a reporter for WGBH, accepting the award. Since then, 27 members of this section have been thus honored and thereby honored the memory of Henry A. Hill.

From an appreciation of Henry A. Hill delivered at the 1991 Hill Award meeting and based on notes of the late Larry Powell, subsequently revised on basis of comments of members of the Section who knew H.A.H. personally and professionally.
Monthly Meeting

The 836th Meeting of the Northeastern Section of the American Chemical Society
Thursday, October 10, 2002, Henderson House, 99 Westcliff Rd., Weston, MA

5:30 pm Social Hour; a table of Career Services Literature and Aids will be available
6:30 pm Dinner
7:45 pm Evening Meeting, Dr. Morton Z. Hoffman, Chair, presiding

Dinner reservations should be made no later than noon October 3. Please call or fax Mariolou Cashman at (800) 872-2054 or e-mail at MCash0953@aol.com. Reservations not cancelled at least 24 hours in advance must be paid. Please include choice; chicken, fish or vegetarian. Members, $25.00; Non-members, $28.00; Retirees, $15.00; Students, $ 8.00.

THE PUBLIC IS INVITED.
Anyone who needs special services or transportation, please call Mariolou Cashman a few days in advance so that suitable arrangements can be made.

Free Parking at Henderson House—do not park in the street or driveway
Next Meeting: November 7, 2002 (note, this is the FIRST Thursday) Norris Award Meeting at the Holiday Inn, 399 Grove St., Newton, MA 5:30 pm Reception and dinner, Riverside Room; 7:45 Award Meeting; Awardee: Prof. Zafra Lerman (Columbia College, Chicago, IL). She will speak on “Using the Arts to Make Chemistry Accessible to Everybody.”

Biography

Anne T. O’Brien

Anne T. O’Brien received a B.S. in Chemistry from Marymount College in 1957, and a Ph.D. in Organic Chemistry from Fordham University in 1964. She has been elected to Iota Sigma Pi and Sigma Xi.

Dr. O’Brien taught high school chemistry from 1957-59. From 1962-72 she was Instructor to Associate Professor of Chemistry at Marymount College, Tarrytown, N.Y. From 1973-76 she served as Undergraduate Officer, and was Associate Professor in Man-Environment Studies, at the University of Waterloo in Ontario. During the summers of 1969 and 1970, she taught at Navajo Community College in Many Farms, Arizona, and at a recreation center for migrant farmworkers in Grand Junction, Colorado, respectively.

Dr. O’Brien’s post-doctoral synthetic organic research history includes summers at the University of Oklahoma (‘66), North Dakota State University (porphyrins, ‘67), and University of California, Berkeley (morphine analogs, ‘68).

On sabbatical during 1970-71, she synthesized psychotomimetics at the University of California San Francisco Medical Center. In the summers of ‘75 and ‘76, she isolated alkaloids from senecio jacobia at Oregon State University, Corvallis.

Since 1976, Dr. O’Brien has been employed in industry, in Chemical Information Science and Management. This past summer she retired from her position as Manager of Library Services for Wyeth (formerly Lederle/American Cyanamid) in Pearl River, NY.

Active in the New York Section, ACS, she has served as Chair-elect, Chair, Past Chair of the Section (1985-’87), and as Councilor and member of the Board of Directors of the New York Section from 1985 to date.

Abstract

Information: A World Transformed, and Now?

The submission, processing and communication of scientific information has metamorphosed over the past fifty years. How did authors in 1947 submit papers? How did students and scholars find them? Who made this possible? How are the same ends — submission and communication of scholarly scientific information — achieved today? What important new capabilities have arisen? Who now has access and how?

New technologies and capabilities have solved all the problems; there are no further issues. Or are there? What are the new goals? and the new challenges? the new issues? the new concerns? What alternative futures lie ahead?

What were the Northeastern Section fifty year honorees doing 40 or 50 years ago? What are they doing now? We hope the honorees will share something of their “information,” and other experiences with us. What suggestions do the honorees, and you, have for the future world of scientific information?

What will your world of scientific information be like when you are celebrating fifty years as an ACS member? We hope you will join in illustrating and discussing these and related topics.

Dr. O’Brien has served on several Council-related governance committees for the national ACS: Constitution and Bylaws, Economic Status (Chair), Professional Relations, Economic and Professional Affairs, Council Policy Committee (Vice Chair).

She is presently serving as District Director from District I (in which our Section is located) on the Board of Directors of the ACS, 2001-2003, where she is a member of several committees: Grants & Awards, Budget & Finance, Public Affairs & Public Relations and Task Forces: Meeting Finances, Strategic Expense Management System, Ethics.

Website for additional information: http://pws/prserv.net/annetobrien/
Michael J. Hearn

2002 Henry A. Hill Awardee

Michael Hearn received the B.A. at Rutgers College, New Brunswick, NJ with Highest Honors and Highest Distinction in 1971. He then attended graduate school at Yale University where he received an M.S. in 1973, an M.Phil. in 1975 and the Ph.D. in 1976.

He was elected to Phi Beta Kappa, Phi Lambda Upsilon, Delta Phi Alpha, and Sigma Xi.

He was appointed to the Chemistry Faculty at Wellesley College in 1977, where he is now a Professor of Chemistry. His research interests are in organic chemistry, specifically the synthesis of tuberculostatic drugs, and also in near infrared spectroscopy.

He has represented the Northeastern Section at National ACS meetings as a Councilor (1999-), and is serving on the Joint Board-Council Committee on Chemistry and Public Affairs.

In our Section he has served as its Secretary (1990-1996). He was elected to the Chair - Elect/Chair/Immediate Past Chair Sequence (1997-1999) and in 1999 as the Chair of the Nominating Committee. He has been a member of the Board of Directors of our Section from 1985 to the present, serving on the Education and Awards Committees and as Government Relations Liaison.

He is a member of a number of professional and technical organizations, including the American Chemical Society, American Society for Microbiology, and the Coblentz Society, among others. He is a Fellow of the American Institute of Chemists.

He has been a strong force in fostering government relations by interacting with legislators, both on the national and on the local level.

Our congratulations to Dr. Hearn for receiving this well-deserved award.

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**National Chemistry Week**

**Quest for Chemistry: Moles, Molecules and Mummies**

Phyllis A. Brauner Memorial Lecture by Dr. Bassam Shakhashiri

Sunday, October 20, 2002, 11:00am-12:30pm, repeated at 3:00pm to 4:30 pm

Museum of Science, Boston

The Sunday presentations are free and open to the public through the generous support of the Lowell Institute. Seats are on a first-come basis. Free tickets are available in the main lobby. Paid garage parking available.

For more information: 617-589-0419 or 617-589-0223

**Monday, October 21, 2002, 10:00am to 11:30 am**

The Monday presentation is an exclusive presentation for high school students and is free through the generous support of the Lowell Institute.

For more information call the Science Museum at 617-723-2500 or 617-589-0417

**Kicking off National Chemistry Week 2002 festivities.**

What do Ancient Egypt and chemistry have in common? Lots! Join us for a day of special chemistry programs and demonstrations throughout the Museum with an Egyptian twist. Taking place all day October 20th.

For more information call: 617-589-0419 or 617-589-0223. Also the National Chemistry Week website: http://ase.tufts.edu/chemistry/iacobucci/si_ncw.html

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Grants-in-Aid to Undergraduates

To attend the 225th ACS National Meeting in New Orleans, LA March 23-27, 2003

The Northeastern Section of the American Chemical Society will provide Grants-in-Aid of $250 to each of four undergraduates to enable them to attend the 225th ACS National Meeting, and present a paper at the Undergraduate Research Poster Session in the Division of Chemical Education. The institutions of the successful applicants are expected to match the award.

Eligibility: Applications will be accepted from students at colleges and universities within the Northeastern Section. The undergraduate student must be a chemistry, biochemistry, chemical engineering, or molecular biology major in good standing with at least junior status, and must be currently engaged in undergraduate research.

Application: Application forms are available: from departmental offices and the NESACS office. In addition, application forms may be obtained from the NESACS Web site at http://www.nesacs.org. The deadline for receipt of completed applications is November 1, 2002. Completed applications are to be sent to:

Professor Ruth Tanner
University of Massachusetts Lowell
Dept. of Chemistry, Olin Hall
265 Riverside Street-Room 520
Lowell, MA 01854-5047
Phone: (978) 934-3662
Fax: (978) 934-3013
e-mail: Ruth_Tanner@uml.edu

Notification: Applicants will be notified of the results by e-mail on November 7, 2002.

The deadline for electronic submission of abstracts to the American Chemical Society in Washington, D.C. is November 19, 2002.

Northeast Regional Undergraduate Day

Preliminary Announcement

Saturday, November 2, 2002

The Eleventh Annual ACS Northeast Regional Undergraduate Day will be held in celebration of National Chemistry Week (October 20-26) on Saturday, November 2, in the Metcalf Science Center at Boston University (590 Commonwealth Avenue). The keynote speaker will be Professor Amir H. Hoveyda (Boston College), who will talk about his research on the total synthesis of complex organic molecules of medicinal interest. The program will also feature technical talks by eminent researchers; a workshop on hands-on chemistry with children; seminars on graduate school preparation, industrial careers, and alternative careers, a graduate and industry fair, resume review, information about ACS career services; and a workshop on student affiliates chapter activities. There will be a $5 registration fee to cover partially the cost of lunch and workshop materials.

The event is sponsored by NESACS and is hosted by the Department of Chemistry and Chemia, the ACS Student Affiliates Chapter, at B.U.

For more information, contact Kevin Burgoyne at 617-353-2503; fax: 617-353-6466; burgoyne@chem.bu.edu

Have you looked at the NESACS website?
WWW.NESACS.org

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Come and see us at:

- 27th European Peptide Symposium in Sorrento, Italy, Aug 31st - September 6th, 2002
- The Society for Biomolecular Screening 8th Annual Conference in The Hague, Netherlands, September 22-26, 2002
- CPhI Conference in Paris, France, October 1-3 (Booth #USP13)
- AAPS Annual Meeting in Toronto, Ontario, November 10-14, 2003 (Booth #272)

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Http://www.amino-acids.com

The Nucleus October 2002 7
ACS SHORT COURSE

Designed to improve the skills and marketability of practicing B.S., M.S., and Ph.D. chemists.

The NESACS Committee on Continuing Education is pleased to sponsor this National ACS Two-Day Short Course, at a registration fee considerably less than that charged at National Meetings.

ORGANIC CHEMISTRY OF DRUG DESIGN AND DRUG ACTION

This Short Course is designed for research scientists who want to improve their knowledge of medicinal chemistry by learning how to take a rational physical organic chemical approach to drug design and drug development. Participants should have at least a BA/BS degree in chemistry, medicinal chemistry, pharmacy, or biochemistry. A working knowledge of organic chemistry is essential.

The price of a copy of Prof. Silverman’s textbook is included in the course fee.

DATES and TIME:  
Wednesday, Nov. 20, 2002;  8:00 a.m. – 5:00 p.m.

and  
Thursday, Nov. 21, 2002;  8:30 a.m. – 5:00 p.m.

PLACE:  Snell Library, Room 88, Northeastern University, 360 Huntington Ave., Boston, MA

PROGRAM AGENDA:

Drug Discovery, Design, and Development – Drug discovery without a lead; Lead discovery

Drug Development: Lead Modification – Identification of the active part, the pharmacophore; Functional group modifications; Structure-activity relationships; Structure modification to increase potency and therapeutic index; Quantitative structure-activity relationships; Molecular graphics based drug design

Receptors – Receptor structure; Drug-receptor interactions; Forces involved in the drug-receptor complex; Ionization; Determination of drug-receptor interactions; Drug-receptor theories; Topographic and stereochemical considerations; Ion channel blockers

Enzymes (Catalytic Receptors) – Enzymes as catalysts; Mechanisms of enzyme catalysis; coenzyme catalysis; Enzyme therapy

Enzyme Inhibition and Inactivation – Why inhibit an enzyme?; Drug resistance; Drug synergism (drug combination); Reversible enzyme inhibitors; Irreversible enzyme inhibitors

DNA – DNA structure and properties; Classes of drugs that interact with DNA.

Drug Metabolism – Synthesis of radioactive compounds; Analytical methods in drug metabolism; Pathways for drug deactivation and elimination

Prodrugs and Drug Delivery Systems – Enzyme activation of drugs; Utility of prodrugs; Types of pro-

PRE-REGISTRATION REQUIRED – Registration Fees:

ACS Members if received before Nov. 6………… $500.00; after Nov. 6 ……$575.00

Non-ACS Members if received before Nov. 6……$600.00; after Nov. 6 ……$675.00

There will be a limited number of scholarships for unemployed ACS Members on a space-available basis.

Parking Fee: about $14.00/day

University cafeterias will be available for lunches.

For further information contact: Prof. Alfred Viola at (617) 373 2809


Name: _________________________________________ Business Affiliation:__________________________________

Mailing Address ________________________________________ Telephone:__________________________________

Mail with remittance to: Prof. Alfred Viola, Chair

(Please make checks payable to NESACS.
(Sorry, we cannot accept credit cards or purchase orders.)

NESACS Committee on Cont. Ed.
Department of Chemistry
Northeastern University
Boston, MA 02115
Thanks from the NESACS Chair

I want to take this opportunity to thank publicly the members of the National Meeting Committee and the many volunteers from NESACS and beyond our borders who helped make the ACS meeting run smoothly for the more than 17,000 participants, and who gave a happy face to Boston. More than once over the course of the week I received compliments about our efforts, and comments about the wonderful impression our Section made on everyone we encountered.

My special thanks go to:
Mary Burgess for organizing her merry band of volunteers for the Hospitality Center;
Marietta Schwartz for rounding up the bright and eager students to assist the ACS staff;
Howard Mayne and Patrick Gordon for working through the details of the tours;
Arno Heyn, Myke Simon, and the Board of Publications for putting out a great issue of The NUCLEUS, which was seen by many thousands;
Amy Tapper for squeezing blood out of the young chemists;
Ruth Tanner for providing the support and leads that made the High School Program, which was organized by Steve Lantos for the Division of Chemical Education, such a great success.

And then there were the ChemLuminary Awards.... Please excuse me if I kvell (Yiddish: to feel unabashed and unlimited pride) about our success. NESACS was a finalist for five awards for our Younger Chemists Committee, National Chemistry Week, education, and overall programming, and won two of them! Amy Tapper accepted the Outstanding Local Section Younger Chemists Committee Event Award for our exchange program with the Jungchemikerforum of the Gesellschaft Deutscher Chemiker (prevailing over the Indiana, North Jersey, and Western New York Sections), and Tim Frigo accepted the Outstanding Performance by Local Section Very Large Size Category Award (besting the California and New York Sections). This latter award, which has eluded us for far too long, is the ACS equivalent of an Oscar for Best Picture, a Super Bowl ring, and a World Series banner.

But, being the best Very Large Local Section for our programming in 2001 will now be a challenge for us in the remainder of this year and into the next if we are to repeat our success. I hope you will take the opportunity to be part of the NESACS program; we need you, so welcome aboard. Please come out to our monthly meetings to see the awards we have won, to kvell with the other members of the Section, and to be part of our community of chemists.

I look forward to seeing you.

Mort ☞

Chemo Dynamics

1/3 page Ad Appears here

Ad # 681N

Strip Repro Supplied
Since 1999 the ACS has recognized outstanding programs of Local Sections and Divisions by awarding prizes at the ChemLuminary Awards celebration at National ACS Fall Meetings. New categories have been added, until at the recent Boston National Meeting there were 49 categories in all.

The purpose of the awards is to motivate and reward innovative approaches by Local Sections and Divisions.

In addition, since 1995 the Committee on Public Relations and Communications has administered the Helen M. Free Award for Public Outreach as part of the ChemLuminary Awards. This year’s awardee was George B. Kauffman of California State University at Fresno, CA for his prolific output of articles “which introduced the public to such scientific breakthroughs as superconductors, fuel cells, pesticides, and genetic engineering” and for his many public presentations, radio and TV appearances.

Dr. Kauffman is no stranger to us: we have reprinted a number of his articles, most recently the one on Arthur B. Lamb (“New England Chemists”) in the 2002 Summer issue. I had the pleasure of having dinner with Dr. and Mrs. Kauffman prior to the ChemLuminary event (ed).

Many of the ACS Committees, Divisions and Task Forces sponsored Awards. Each of these had solicited nominations in one, to as many as twelve categories.

As reported earlier, the Northeastern Section was nominated in five categories: Outstanding Local Section Younger Chemists Committee Event, Outstanding Creative and/or Unique Event, Best Event Using the Yearly (NCW) Theme, Activity or Program in a Local Section that Best Addresses the ACS Strategic Thrust, Outstanding Performance By Local Section – Very Large Category.

The Northeastern Section was chosen for the ChemLuminary Award in two of these categories:

1. Outstanding Local Section Younger Chemists Committee Event Award. Others nominated were the Indiana, North Jersey and Western New York Local Sections. The award to our Section was for the exchange program in May 2001 with the Jungchemikerforum of the Gesellschaft Deutscher Chemiker in which we hosted nine younger chemists from Germany and their mentors. The program included participation in the Northeast Student Chemistry Research Conference, a symposium on chemical education in the United States and Germany, visits to universities and industry and also a Red Sox game.

2. Outstanding Performance by Local Section Very Large Category Award. Also nominated were the California and New York Sections. The “Very Large Category” includes Sections with 3200 or more members. The award to the Northeastern Section was given for activities of its Education Committee, the six National Chemistry Week events which reached an audience of about 6,000, the graduate and undergraduate student chemistry research conference, sponsored by the Younger Chemists Committee and the Education Committee, and also the joint meeting with the Rhode Island Section in celebration of its 110th Anniversary.

The Awards were for 2001 while Timothy B. Frigo chaired the Section. He accepted the Local Section Award on the stage. The YCC sponsored award was accepted by the 2001 NESACS Younger Chemists Committee Chair, Amy Tapper on stage.

A mixer and dancing followed the award ceremonies.
Thursday noon, August 22: The banners are being taken down, the last inquirer who wonders how to get to the Exposition has been told that it closed on Wednesday, the last over NUCLEUS meeting issues are being carted away and stored for later use, the Hospitality Desk is closing down, the volunteers have all left to rest their tired bones and vocal cords, the teamsters are hauling off everything that isn’t nailed down, and, I guess, I’ve done about all the damage I can for this meeting!

When did all this start? Early in the year Mort Hoff- man, our 2002 Chair, appointed a National Meeting Committee to plan the local Section’s involvement in the fall 2002 National ACS Meeting which would take place in Boston, August 18-22. Of course, this had happened before: We had a 1990 and 1998 meeting in Boston – same location, same confusion, and many of the same problems. But this meeting would be bigger (there would be over 17,000 regis- trants), the exposition would overflow the Hynes second level exhibition area, so that some 30 exhibitors had to have their booths in the corridor, and, of course, we promised ourselves that the local arrangements would be even better organized.

Our chief responsibilities were to staff the Hospitality Center, find student help to support ACS staff in registration and assist with the tour program, and to put out a National Meeting Issue of The NUCLEUS.

A National Meeting Committee was appointed which met with ACS National Office staff, led by Susanne Beckley, on March 4, 2002 in Boston.

Responsibilities were clarified and we were given a time schedule.

Mort Hoffman appointed subcommittees for the several responsibilities: Hospitality Center (Mary Burgess), Tour Program (Patrick Gordon and Howard Mayne), Red Sox Ballgame (Wallace Gleekman), Education Activities (Ruth Tanner), Publications (Arno Heyn and the Board of Publica- tions members), Social Events (Esther Hopkins), Student Volunteers (Marietta Schwartz), and Younger Chemists (Amy Tapper).

During the ensuing months we received lists of tour offerings by different companies who were bidding for the ACS meeting tours. We were assured of a prominent spot in the Hynes for the Hospitality Center, not stuck away in a corner of the 3rd level, as in 1998, but. As it turned out, we were right at the top of the escalator to the second level, the Exposition level.

Four hundred tickets for the most prominent “event”, the Red Sox game with the Texas Rangers on Wednesday, August 21, were obtained by Wally Gleekman: Those who
had ordered tickets were sent coupons which were to be exchanged for actual tickets at the Hospitality Center.

I was concerned how and where the 10,000 extra copies of *The NUCLEUS* which we had ordered were to be delivered, where piles of them would be placed, and who would do all this. And, of course, as Editor of our Local Section Publication, I had to worry about what to have in this issue, which turned out to be a 48-page issue. I was assisted by Myron Simon, the Associate Editor, and members of the Board of Publications, and last, but by no means least, by Vincent Gale, our Advertising Manager who had obtained contracts for about 17 pages of ads for this issue.

The Section’s Education Committee, with Ruth Tanner as its Chair, assisted the Division of Chemical Education in setting up a Workshop for High School Teachers. In addition, the local Education Committee publicized the Undergraduate Poster Session of the Division of Chemical Education on Monday afternoon. The Monday night SciMix event included posters by the Successful Student Affiliate Chapters as part of the CHED poster session.

The local Younger Chemists Committee, chaired by Amy Tapper coordinated a blood donation program with the ACS YCC.

By and by everything fell into place, and on Saturday, August 17 we took possession of the Hynes Convention Center and oriented ourselves. The 53 boxes filled with copies of the National Meeting Issue of *The NUCLEUS* had been delivered to the Operations Center and we carted them out to the several locations, mostly on the 1st level where meeting attendees would see them and, we hoped, pick them up. Since there were also lots of program booklets, hand-outs with lists of restaurants, sight-seeing offers, and what not scattered on all possible horizontal surfaces, we chose what we hoped were strategic locations for having piles of the *NUCLEUS* in plain sight. In addition, early in the meeting, Myke Simon began handing copies of the issue to those who were coming up on the escalators. Frances Shawcross joined in and the next day handed out copies as people came into the building. All told, we managed to distribute more than 8,000 copies, with the rest to be given to students and teachers at fall workshops and to the general public attending the Phyllis Brauner Memorial Lectures during National Chemistry Week in late October at the Boston Museum of Science.

The Hospitality Center was staffed by volunteers, members and/or spouses and even friends of the Section during meeting hours from Saturday afternoon, August 17, until Thursday noon, August 22, with 2-3 volunteers at a time and more during the busiest times. Patrick Gordon and his sons sold NESACS Centennial Year T-shirts at a table next to the Hospitality Center desk.

The location at the top of the escalator at the second level turned out to be a good choice, because almost everybody who wanted to see the Exposition came up this main escalator. Also, just behind our desk were the terminals for the meeting locator/message center, which were always busy, usually with lines waiting to use these terminals, which after 5 p.m. allowed connecting to the Internet.

The Northeastern Section had been nominated in five categories for receiving ChemLuminary Awards, and at the Tuesday night meeting, it was announced that we were chosen for the Awards in two of these: Outstanding Local Section Younger Chemists Committee Event, and Outstanding Performance by Local Section Very Large Size Category Award. (See the story elsewhere in this issue.)

The ChemLuminary event followed a poster session where the nominated Sections or Divisions presented posters on their doings. This was a lively event: the ACS Mole cavorted around and greeted those attending.

The ChemLuminary Award presentations were followed by a mixer with dancing.

Now the 224th National ACS Meeting is just a memory, and we can look forward to the next National ACS Meeting in Boston, the 234th meeting...
Call for Papers

Undergraduate Research Poster Session


The ACS invites undergraduate students to submit abstracts of their research papers for presentation at the Undergraduate Research Poster Session (URPS), which will be part of the extensive programming for undergraduates at this national meeting.

Submit your abstract electronically by November 19, 2002 to <www.acs.org/meetings>. Click on the CHED division and then select the URPS site that is appropriate to the subject of your paper. Please follow the directions carefully.

For further information, contact: LaTrease Garrison
ACS Student Affiliates Program
American Chemical Society
1155 Sixteenth Street, NW
Washington, DC 20036
Tel: 800-227-5558, ext. 6166
E-mail: SAprogram@acs.org

Connections To Chemistry 2002

Sponsored by the Education Committee of the Northeastern Section for High School Chemistry Teachers

Wednesday, October 9, 2002, 3:30-8:00 p.m.

Burlington High School (Burlington, MA)

Connect with ACS programs and must-have ACS resources for high school teachers to help students learn chemistry and to help them learn to find the answers to their questions. The workshops that will highlight and utilize these programs and resources are:

• Virtual Molecular Dynamics Laboratory with Dr. Paul Trunfio from the BU Center of Polymer Studies. Explore modeling software tools that enable your students to visualize atomic and molecular motion, manipulate atomic interactions, and investigate macroscopic properties of chemical and biological systems.

• Green Chemistry: Preventive Medicine for the Environment with Michael Tinnesand, Head of ACS K-12 Science Department. Try out introductory laboratory modules that integrate green chemistry into introductory chemistry courses. These modules have been developed to support traditional topics, with an added green chemistry ‘flavor’.

• Flaming Fingernails and Bottle Meltdown with George Lima, Jr., Laboratory Safety Specialist of the Office of Environmental Health and Safety at BU. Practice the correct use of laboratory safety equipment, learn about chemical hygiene, try out some safety demonstrations, and get involved with hazardous waste and chemical management.

• The Dirt on Cleaning with Carla Emmons, Applications Development Chemist at The Dow Chemical Company. Celebrate the theme of this year’s National Chemistry Week: Chemistry Keeps Us Clean. Formulate a shampoo and learn the science behind the marketing claims. Then discover how chemistry removes ensuing shampoo soap scum.

Program

3:30 – 4:00 Registration, Refreshments
4:00 – 4:25 Welcome and Overview
4:30 – 6:10 Four Workshops, Each Repeated in Two Sessions:
Session I: 4:30 – 5:15
Session II: 5:25 – 6:10
Workshop A: Virtual Molecular Dynamics Laboratory
Workshop B: Green Chemistry: Preventive Medicine for the Environment
Workshop C: Flaming Fingernails and Bottle Meltdown
Workshop D: The Dirt on Cleaning
6:15 – 8:00 Dinner and Address

Address: Dr. Carl M. Selavka, Massachusetts State Police Crime Laboratory: Don’t Get Your Genes in a Bunch: All about Forensic DNA Testing

• A certificate will be given for three hours of Professional Development.

• For additional information, contact Dr. Ruth Tanner, Chair, Education Committee, NESACS: 978/934-3662 or Ruth_Tanner@uml.edu

• The deadline for registration is Wednesday, October 2nd. The registration fee is $10.00, and includes dinner, workshop supplies, and a one-year subscription to ChemMatters for all workshop participants.

• The application for registration is at the NESACS Web site under Connections to Chemistry 2002: http://www.nesacs.org

224th ACS Meeting

Continued from page 12

on August 19-23, 2007, and if we are lucky, in a new and larger Convention Center.

One thing can be said for the smaller Hynes Convention Center: Things are close together, one doesn’t feel like one should have a scooter or bicycle to get from one meeting room to another, such as in the huge Convention Centers in Orlando, FL, New Orleans, LA, or others.

Most of all: The success of the local arrangements for the meeting was largely due to the hard work of the NESACS committee members and the many enthusiastic volunteers.
Nesacs News

AcS national award winners for 2003 announced; other awards

Peter H. Seeberger, MIT, Arthur C. Cope Young Scholar Award.

Dietmar Seyferth, MIT, Arthur C. Cope Senior Scholar Award.

The above two are sponsored by the Arthur C. Cope Fund.

Christopher T. Walsh, Harvard Medical School, Alfred Baker Award in Bioinorganic or Bioorganic Chemistry, sponsored by Alfred Bader.

In addition, Boyce Rensberger, Washington Post, is to receive the James T. Grady-James H. Stack Award for Interpreting Chemistry for the Public. He will be at MIT under the auspices of a Knight Science Journalism Fellowship.

Robert G. Bergman, University of California at Berkeley is to be awarded the James Flack Norris Award in Physical Organic Chemistry, sponsored by the Northeastern Section, ACS.

These awards will be made at the New Orleans National ACS Meetings in 2003, except that the Arthur C. Cope Scholar Awardees will be honored at the New York City National ACS Fall Meeting.

In addition:

Timothy Jamison, MIT, has received the 2001 New Investigator Award in Organic Chemistry from Boehringer Ingelheim for his work in synthetic organic chemistry, especially the total synthesis of oxygen-containing heterocycles by enantio-selective metal-catalyzed multi-component coupling reactions. The award includes funds for a post-doctoral fellowship in the recipient’s laboratory.

Congratulations to these worthy Award recipients. ♦

Councilors’ Report

AcS Fall Meeting, Boston, MA August 21, 2002

NESACS was represented by its 12 Councilors, however we were unable to receive information from two of the Councilors (Klemperer and Miwa), and Gilbert, being a member of the Nominations and Elections Committee, was occupied with the voting procedure.

Five items were before the Council “For Action”, all of which were passed by the required margins:

The continuation of three “Other” committees: The Committee on Nomenclature, the Women Chemists Committee and the Younger Chemists Committee. “Other” Committees are reviewed every five years and continuation has to be voted by the Council, and in the case of Other Joint Board Council Committees, also by the Board of Directors.

A petition to increase the size of Society Committees from the current 9-15 members to 12-20 members passed narrowly by the required 2/3 majority. Actually, there were 263 “yes” votes, 126 “No” votes and 5 abstentions, a 66.75% majority. A request for a recorded vote failed to receive the required 30%.

Six of your Councilors voted in favor of the main motion (Burgess, Costello, Hamm, Hear, Lewis, Light), three opposed (Chen, Phillips, Wood).

A petition for approval of non-US applicants as Society Affiliates passed, both the amendment to the Constitution and the Bylaws.

The other item was approval of a name change of the Boulder Dam Section to Southern Nevada Section was also approved.

Several of the Councilors reported on their committee activities:

M. Burgess was in charge of the Hospitality Center, coordinating volunteers during the meeting. M. Chen attended meetings of the Admissions Committee and the International Activities Committee where this committee sponsored a visit by 18 young analytical scientists from Asia to PittCon.

C. Costello attended the meetings of the International Activities Committee, including the Subcommittee I and the Reception for International Attendees. She also, as a co-author, presented several posters in the ANYL Division, gave a paper in the Professional Relations Division and hosted several laboratory tours at Boston University Medical School. M. Hearn attended meetings of the Committee on Chemistry and Public Affairs (CCPA) and chaired its Grassroots Subcommittee. D. Lewis, a Committee Associate, also attended meetings of CCPA and, jointly with the Chair of the Northeastern Section, M. Hoffman, presented the ACS Salute to Excellence and citation from the Commonwealth of Massachusetts to Carl Selavka (Mass. State Crime Laboratory). D. Phillips attended meetings of the Committee on Committees and reports that its Task Force on a Comprehensive Review of Council-Related Committees and Overall Committee Structure has issued a report which is available. ♦

Calendar

Continued from page 28

Oct 28
Prof. Dorothee Kern (Brandeis Univ.)
“tba” Biochemistry Seminar Series
MIT, Room 6-120, 4 pm
Prof. Richard R. Schrock (MIT)
“tba”
Brandeis Univ., Gerstenzang 122, 4:00 pm

Oct 29
Prof. Shahriar Mobashery (Wayne State Univ.)
“Antibacterials As Wonder Drugs and How Their Effectiveness Is Being Compromised”
Tufts Univ., Pearson Chemistry Building, 62 Talbot Ave., Medford, Room 106, 4:30 pm

Oct 31
Prof. Joseph S. Francisco (Purdue Univ.)
Title to be announced
Dartmouth College, Room 101 Fairchild Hall, 10:30 am

Notices for the Nucleus Calendar should be sent to:
Dr. Donald O. Rickter, 88 Hemlock St., Arlington, MA 02474-2157
e-mail: rickter@rcn.com
**Board of Directors**

**Notes of Meeting of May 9, 2002**

**NOTE:** Board Meetings are held on the monthly meeting day at 4:30 p.m. Section members are invited to attend.

**Officers’ Reports:**

**Chair:** M. Hoffman announced that Amy Tapper has received an ACS Leadership Development Award for her work with the YCC.

Two ACS Scholars: Lauren Goins (Harvard) and Christina Ann Fields (Harvard) will be attending the dinner and meeting this day as guests of NESACS.

At the Boston National ACS Meeting the Section will host a reception for friends and alumni on Monday, August 19 at 6-7:30 at a site to be announced.

**Chair-Elect:** J. Neumeyer stated that he had attended the ACS Leadership Conference for Local Section Officers.

**Treasurer:** J. Piper presented the monthly Treasurer’s report which was ACCEPTED. There was some discussion of high dinner expenses.

**Archivist:** M. Simon stated that, in addition to other archival materials, Board meeting minutes and Treasurers’ reports will be included in the archives. There was some discussion on scanning archives onto CD for permanent storage, but at this time no electronic storage is contemplated.

**Standing Committees:**

**Bd. Of Publications:**

**Editor:** The summer issue will be the National Meeting Issue with an extra 10,000 copies to be distributed to meeting registrants. Extra advertising is expected and would, in part, cover the extra costs.

**Chemistry Education:** R. Tanner reported that the Fourth Annual Northeast Student Chemistry Research Conference (NSCRC) was held at Boston University on April 27, 2002 and was sponsored by Chemistry Education Committee and the YCC. Poster and oral presentations were made by both undergraduate and graduate students, including a report of the NESACS visit to Germany. The keynote speaker was Dr. Matthew Shair (Harvard) on Bimimetic Synthesis. Susan Brauner made a presentation on her mother, Phyllis Brauner, and the book award named in her honor. In the presence of both Susan and Cathy Brauner, the first Phyllis A. Brauner Book Award was made to Anastasia Panos (Wheaton College) for her oral and poster presentation: Solvent Effects in Solution Dielectric Constant and the Dipole Moment of Pyridine. The conference was attended by 80 students.

The 2002 Norris/Richards Undergraduate Summer Research Scholarships have been awarded to students at Harvard College, Boston College, Tufts University, and the University of Massachusetts Dartmouth.

J. Neumeyer observed that 24% of NESACS members are in the YCC age group, as compared to 18% nationwide.

**Other Committees:**

**Continuing Education:** A. Viola indicated that the May Spectroscopy course had 18 registrants. The course generated about $1,500 for the Section.

**Speakers’ Bureau:** S. Buta has received information from the previous chair. The information covered 1991-1994 when the committee was last active. A questionnaire is being prepared to be sent to local high school officials, mayors and town selectmen in our area to gauge their interest in a speakers’ bureau.

**Summerthing:** Everything is in place for the three Summerthing events.

**Younger Chemists:** A. Tapper thanked the graduate student organizers of the 2002 NSCRS event for the excellent work done. Plans for the 5th NSCRS in 2003 are being developed.

**Medicinal Chemistry:** E. Groman reported that planning for the December joint meeting with the Section are being developed.

**NERM:** M. Hoffman stated that NERM 2003 will be in June at Sarasota Springs, NY.

**From the Minutes of Michael Singer**

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**Symposium**

**First Annual Undergraduate Environmental Research**

**Bridgewater State College**

**Saturday, November 16, 2002**

Sponsored by the Northeastern Section of the American Chemical Society, the Manomet Center for Conservation Sciences, the Bridgewater State College Adrian Tinsley Program for Undergraduate Research

Student research posters in all disciplines of environmental research from colleges and universities in the northeastern U.S. are welcome! Refer to the Symposium web page for registration and abstract submission information, or contact Tammy De Ramos-King or Ed Brush Symposium website: http://www.bridgew.edu/environmental

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**November Meeting**

**Understanding Chemistry via the Arts**

At the November 7th section meeting you will have the pleasure of experiencing a presentation by Professor Zafra Lerman as she accepts the James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry. Columbia College, Chicago, where Professor Lerman is Director of the Institute for Science Education and Science Communication, is a college devoted to the fine arts and journalism, so none of her students is majoring in science. She encourages them to express the chemical concepts they learn via projects in the languages of their major fields: music, dance, journalism, theater.

Join your colleagues on Thursday, 7 November (not the 14th), for a stimulating evening.
Annual Nucleus Buyers Guide

Your Buyers Guide Listing is free! If you are not listed in this year’s Guide, please contact Vince Gale at: Phone 781-837-0424, Fax 781-837-8792, e-mail: vingale@tiac.net

The purpose of the Guide is to provide a ready reference of companies providing products and services that are of interest to our American Chemical Society members. Our members will use this guide as a way of finding vendors who can service their needs when they are trying to solve a problem, need equipment, restock inventory, or require consultant services, and they will keep this reference until the next one is published.

This directory will be given to our 7,500 members for their use. This issue has excellent advertising value because it is kept and referenced for the full year.

For key numbers, see “Products and Services Directory” on page 22.

If you wish to be in next year’s Guide, please contact Vince Gale as noted above.

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<td>Marketing Manager, 155 Plant Avenue, Hauppauge, NY 11788, (631)231-3600, (631)231-3334, <a href="http://www.controlotron.com">www.controlotron.com</a>, <a href="mailto:sgeorge@controlotron.com">sgeorge@controlotron.com</a></td>
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<td>Dittmar Wulff</td>
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### Products & Services Directory

**ESCA Services**
- Micron Inc.

**Furniture, Lab**
- Kewaunee Scientific Corp.

**General Equipment**
- AA lamps: Bulbtronics, Inc., Hellma Cells
- Baths: Julabo USA, Inc., Hellma Cells
- Centrifuges: Patterson-Kelley, Waring Products Division
- Crushers & grinders: Glen Mills Inc., SPEX CertiPrep
- PC’s: Dell, Bio-Cellular Science Inc.
- Deuterium Lamps: Bulbtronics, Inc., Hellma Cells
- Dryers: Wyssmont Co., Inc.
- Ductless fume hoods: Captair, Inc., Erlab, Inc.
- Evaporators: Heidolph Instruments
- Filters: Avery Filter Co., ErtelAlsop
- Flow meters: Controltron Corp
- Freeze dryers: Eastern Scientific Co., VirTis, an SP Industries Co.
- General laboratory equipment: Allen Datagraph, Inc., American Instrument Exchange
- Glassware: Kimble/Kontes, Q-Glass Co. Inc., Quartz Plus Inc.
- Hg. Xenon short arc lamps: Bulbtronics, Inc.
- Labware: Bel-Art Products, Cargille Laboratories
- Light sources: Bulbtronics, Inc., Hellma Cells
- PID lamps: Bulbtronics, Inc., Hellma Cells
- Power supplies: Bulbtronics, Inc.
- Pressure vessels: Pressure Products Industries
- Process controls: United Electric Controls Co.
- Spectrophotometer cells: Hellma Cells
- Tungsten halogen lamps: Bulbtronics, Inc.
- Water system: Aqua Solutions, Inc.
- Phenomenex, Inc.
- Vacuum equipment: Eastern Scientific Co., Hiden Analytical
- Valves: Hiden Analytical, Valco Instruments Co., Inc.
- Vibration isolation equipment: Kinetic Systems

**Industrial Hygiene Services**

**Laser Systems**

**Microscopes & Services**

**Organic Microanalysis**
- Organic microanalysis: Complete Analysis Laboratories
- Organic synthesis: Chemic Laboratories, Frinton Laboratories, Inc., Organix Inc.
- Organometallics: Schwarzkopf Microanalytical

**Photoluminescence**
- Excitation sources: Hellma Cells, McPherson, Inc.
- Emission spectrometers: ISS, Spex Fluorescence (JY)

**Quality Control**
- Standards: SPEX CertiPrep

**Radiation Equipment**
- Radiation equipment: Nuclear Associates

**Radiation Processes**

**Safety**

**Documentation**
- Stock lab books: Scientific Bindery

**Spectrometers**
- Emission: Hellma Cells
- Fluorescence: ISS, McPherson, Inc.

**Supplies**
- Sealing film: SPEX CertiPrep
- Solvents & thinners: Coating Systems, Inc.

**Services, General**
- Waste disposal: Coating Systems, Inc.

---

**Buyers Guide**

Listings are free!

If you are not listed in this year’s Guide, please contact Vince Gale:
Phone: 781-837-0424, Fax: 781-837-8792, e-mail: vinegale@tiac.net
The S.S. Portland Found

A follow-up to the story on page 21 of the Summer Issue

No, we weren’t tipped off ahead of time, and, no, Wally Gleekman is not psychic, but it is an interesting coincident that just shortly after the Summer Issue has come out with the story *The Loss of the S.S. Portland* (p.21), on August 29 and 30 papers carried the story about locating the wreck of the S.S. Portland on the bottom of the Stellwagen Bank National Maritime Sanctuary, about half-way between Cape Ann and Cape Cod. The wreck was identified as almost surely that of the Portland by its dual smoke-stacks and the remains of the side-wheel. The hull appears to be in one piece and is resting right-side up on the bottom, but the superstructure had been shorn off and has not been located, as yet, indicating that the ship must have been very severely mauled and buffeted by the seas and the storm before it sank.

The facts, as they were given in Wally Gleekman’s story, match the ones given in the stories, both in *The Boston Globe* of August 29 and 30, and in *The Christian Science Monitor* of August 30, 2002. The latter also has a postcard-like colored picture of the ship in its hay-day.

Keep going, Wally! With your luck, maybe you should play the Lottery!

---

NESACS News

Summerthing III

On June 9, 2002, six members and spouses and one young child gathered in Saugus at the reconstruction site of the colonial iron works.

A National Park Service guide gave us a private tour through the iron works, starting with the museum. He also demonstrated the working of the blast furnace, forge and rolling mill, where both bar stock (for making nails and spikes) and sheet steel could be produced. The Saugus works used bog ore which was dug out of nearby bogs as raw material containing about 30% iron oxide, together with calcium carbonate containing rock from nearby, and charcoal, burned from the ubiquitous wood.

The works were active from 1646-1668 and were the first iron works in America, supplying the needs of settlers in the area for nails and tools.

In addition, the Saugus Ironworks with its imported craftsmen served as a training ground for similar enterprises elsewhere in the colonies and thus became the birthplace of heavy industry in America.

It would have been nice to have had a better turnout for this event: the weather was great, and the Saugus Iron Works are really a vital reminder of America’s industrial past, or rather the roots of industrial America.

So, if you have never seen it, we urge you to see the works for yourself; it is particularly attractive to school-age children.
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Note also the Chemistry Department Web pages for driving directions and updates. For example:
http://web.mit.edu/chemistry/
http://www-chem.harvard.edu/events/
http://www.umassd.edu

Oct 1
Dr. Daniel Auerbach (IBM Almaden Research Center)
“Chemistry with Stretched Molecules: Using Vibrational Excitation to Probe Surface Chemical Dynamics”
Tufts Univ., Pearson Chemistry Building, 62 Talbot Ave., Medford, Room 106, 4:30 pm

Oct 2
Prof. Anna Lin (Duke University)
“tba”
Brandeis University, Gerstenzang 122, 4:00 pm
Prof. Albert Eschenmoser (Eidgenossische Technische Hochschule)

Oct 3
Prof. Albert Eschenmoser (Eidgenossische Technische Hochschule)
“Chemical Lessons from Studying Nucleic Acid Analogos” 2002-2003 Dreyfus Lectures
Dartmouth College, Hanover, N.H. 03066 Steele, 4:30 pm

Oct 7
Prof. Melissa Moore (Brandeis Univ.)
“tba”, Biochemistry Seminar Series
MIT, Room 6-120, 4 pm

Oct 8
Prof. Hai-Lung Dai (Univ of Pennsylvania)
“Highly excited molecules: collision energy transfer and reaction control”
MIT, room 2-105, 4:00 pm

Oct 9
Prof. Robert H. Grubbs (Calif. Institute of Technology)
“The Design and Synthesis of Catalysts for Olefin Metathesis”
University Lecture Series
Boston College, Merkert 127, 4:00 pm

Oct 10
Prof. Robert H. Grubbs (Calif. Institute of Technology)
“The Application of Olefin Metathesis in the Synthesis of Small Molecules”
University Lecture Series
Boston College, Merkert 127, 8:00 pm

Oct 11
Prof. Robert H. Grubbs (Calif. Institute of Technology)
“The Application of Olefin Metathesis in the Synthesis of Materials”
University Lecture Series
Boston College, Higgins 300, 4:00 pm

Oct 14
Prof. John MacDonald (Worcester Poly Tech.)
“tba”
Brandeis Univ., Gerstenzang 122, 4:00 pm

Oct 15
Prof. Geoffrey W. Coates (Cornell Univ.)
Title to be announced
Dartmouth College, Room 101 Fairchild Hall, 10:30 am

Oct 17
Dr. Henrik Clausen (Univ. of Copenhagen)
“Control of Mucin-type O-Glycosylation”
Boston Glycobiology Discussion Group, MIT Faculty Club, 50 Memorial Drive, Cambridge, 6:00 pm
For reservations, please contact: Kathryn Newburg, 781-642-0025, kathryn.newburg

Oct 21
Kathy Franz, MIT (Imperiali Group)
“tba”, Biochemistry Seminar Series
MIT, Room 6-120, 4 pm

Oct 22
Prof. Hongkun Park (Harvard Univ.)
Physical Chemistry Seminar
“Transport and Scanned Probe Investigations of Chemical Nanostructures”
MIT, room 2-105, 4:00 pm

Oct 24
Dr. Ron Magolda (Industrial Speaker)
Title to be announced
Dartmouth College, Room 101 Fairchild Hall, 10:30 am

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