A Long and Hectic Day
By Mindy Levine

2012 NESACS Election Results

Winning Entries-
Illustrated Poem Contest
By Joytika Bhargo and Audrey McCarthy

Summary of Governance Actions/Reports
243rd ACS National Meeting, San Diego, CA, March 2012
Evening Graduate Program in Chemistry

All courses meet for a 2.5-hour period one evening per week and carry 3 graduate semester-hours (30 required for a coursework M.S. degree).

May enroll in a single course as special status students.

**Fall Semester** Graduate Classes Start **September 5, 2012**

- 5500 Introduction to Regulatory Science
- 5550 Introduction to Glycobiology and Glycoprotein Analysis
- 5611 Analytical Separations
- 5612 Principles of Mass Spectrometry
- 5613 Optical Methods of Analysis
- 5621 Principles of Chemical Biology for Chemists
- 5626 Organic Synthesis 1
- 5627 Mechanistic and Physical Organic Chemistry
- 5628 Spectroscopy of Organic Compounds
- 5636 Statistical Thermodynamics
- 5637 Foundations of Spectroscopy
- 5645 Drug Discovery and Development
- 5668 Principles of Radiochemistry

More courses will be offered in the spring semester.

Students new to the program must have completed an application for admission.

For additional information contact: Jean Harris
Department of Chemistry & Chemical Biology
Northeastern University, Boston, MA 02115
Tel: 617-373-2824
h.harris@neu.edu

www.chem.neu.edu
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Photos by James Phillips

Cover: The cover photo is from the social hour for the March Meeting held at
the Harvard Faculty Club. Pictured (L-R) are Professor George Whitesides of
Harvard University, Professor Ruth Tanner; NESACS Chair, of the University of
Massachusetts-Lowell, and Richards Award Winner Professor Tobin Jay Marks
of Northwestern University. (Photo by James Phillips).

November 2012 Issue: September 15, 2012
A Long and Hectic Day

By Mindy Levine

9:30 pm on Sunday night: I leave my house to catch the overnight Amtrak train to Washington. I am going to meet with my program officer at the NSF to talk about my proposal for a CAREER grant. I thought about staying at a hotel overnight or flying the next morning, but I am a second-year assistant professor. Money is tight.

I have lined up 7 bottles filled with 42 ounces of pumped breast milk in the fridge so that my 3 month old child can eat while I’m gone. These are labeled in permanent marker with phrases like “Defrosted! Use first!” I wonder about the use of permanent marker a little, but not enough to try to find peel-off labels instead.

My toddler’s lunch box is packed as well. His clothing is laid out, together with several spare changes of big boy underwear with various cartoon characters that I can’t identify. We are in the middle of potty-training. We are potty training, and I am leaving.

10 pm Sunday night: I board the train and find a seat. I try to go to sleep right away, but my fellow passengers continue to talk on their cell phones. They may not be quite as sleep-deprived as I am. Besides which, I can’t seem to relax.

1 am Monday morning: I am freezing, freezing, freezing as I try to sleep on the train. We are somewhere between New Haven and New York City. My baby is waking up right about now, and I am 150 miles away.

SOMETHING BETWEEN PHILADELPHIA AND BALTIMORE, I TRY TO PUMP IN PUBLIC.
**NEACT 73rd Summer Conference**  
**Bridgewater State University, MA**  
“Advances in Green Chemistry”  
**August 6-9, 2012**

**A Sampler of Events, Topics, and Workshops**

- PBS film series, “The Mystery of Matter: Search for the Elements.” See the 1st one (Marie Curie) before it airs and offer feedback on its use in your class! Prizes to the first 15 to attend this.
- John Warner, Dr. Amy Cannon, Kate Anderson – Green Chemistry gurus with lab and outreach help
- College Credit available – Registration forms on the full conference program-3 credits!
- Harvard-Smithsonian Center for Astrophysics Science Education presents a free online course with videos and text for AP and 1st/2nd year college chemistry. Sign up early for the conference for a chance to be part of a select group to review the curriculum materials (stipend provided!) Contact agriswold@cfa.harvard.edu to be considered for the follow-up group on Thursday
- Workshops address a variety of interesting aspects of teaching chemistry: graphing calculators, teaching concepts through the lens of Green Chemistry; writing assignments to teach/learn chemistry; photography without a darkroom; student misconceptions; effective formative assessments; integrating problem solving; using a case study to teach chemistry; engaging students in primary research; building effective formative assessments and MUCH, MUCH MORE!!
- Mingle with participants at the evening socials – always a warm extension of the day – beverages!

**Questions:** Contact Mary Christian-Madden mcm1968@verizon.net or mchristian@qvcc.commnet.edu.

**Registration:** Kathy Siok, Registrar-Treasurer at kathys5@cox.net Participants may register for single days. $350 all-inclusive, 4-day conference, college credit available and financial aid. Apply online. http://www.neact.org/summer-conference

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**2012 James Flack Norris Award to Vicente Talanquer**

The Northeastern Section of the American Chemical Society is pleased to announce that Professor Vicente Talanquer is the recipient of the 2012 James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry. As part of the core faculty in an innovative science teacher preparation program within the College of Science at the University of Arizona, Dr. Talanquer has targeted research focused on trying to characterize the conceptual frameworks and the patterns of reasoning used by chemistry students to answer questions and solve problems that require qualitative reasoning (classification, prediction, comparison). He then explores how students’ ideas and reasoning strategies evolve as they develop more expertise in the discipline. As a chemical educator, Dr. Talanquer has published over 70 articles in peer-reviewed journals in English and Spanish and 10 textbooks, four of which are the elementary school science textbooks used from 1996 through 2008 by all elementary schools in Mexico. At the undergraduate level, he has created a knowledge-centered environment where students develop their understanding of concepts through specifically designed activities rather than being told what the concepts are, impacting how students learn. He has developed a new curriculum, CHEM XXI, funded by the National Science Foundation, that implements principles of how people learn centered on research-based, best teaching practices. At the graduate level, he guides students to become well-rounded and independent researchers by providing them with meaningful experiences such as in

Continued on page 18
Press Release

Acton-Boxborough Senior Ruifan Pei competes for a spot on US International Chemistry Olympiad team

BOSTON, May 14, 2012 — National chemistry champion Ruifan Pei has qualified to compete for one of four spots on the U.S. team bound for the 44th annual International Chemistry Olympiad (IChO). A senior at Acton-Boxborough Regional High School, he is one of only 20 students selected out of 12,000 nation-wide who took the exams. Ruifan is invited to a two-week intensive study camp at the U.S. Air Force Academy in Colorado in June 2012.

At the camp’s conclusion, four students will be chosen to represent the U.S. at the International Chemistry Olympiad at the University of Maryland, College Park, MD on July 21-30, 2012 where they will compete with their peers from more than 70 nations for gold, silver and bronze medals. The American Chemical Society (ACS) is the official organizer and The Dow Chemical Company is the official sponsor of the overall international event.

“The students who compete in the IChO are the brightest minds in chemistry,” said ACS president Bassam Shakhashiri. “These young people are the ones who will make the discoveries that shape our future by curing disease, addressing climate change, feeding our rapidly expanding population, and much more.”


I attended the Sparkle training for Public Relations Chairs as Jack Driscoll, but quickly became introduced as Jen’s Dad since Jennifer had given such a wonderful training session on Social Media at Sparkle 2011.

This was a very helpful training course particularly with the role playing and video preparation with the media. There were PR Chairs from 24 sections at the training course.

We spent part of an afternoon with the ACS Network. This web site has been completely reworked and is very impressive (http://www.acs.org/network). NESACS PR is now connected to the ACS Local Section Public Relations (LSPR) group. We now have 24 new Chemistry Ambassadors (see photo).

You can start your own group on the ACS Network in Education-Events to communicate with chairs in other regions. You first have to login with your ACS ID #, then you can access the ACS Network and go from there.

Bonnie Carpentier and Kathleen Schultz, who are on the ACS Board of Directors, gave presentations to our group. The media reps were Ron Seely, Wisconsin State Journal (print), Mike Lawrence, Cone Communications (TV), and Paul Milton, Patuxent Publishing (print), and large media with 18 newspapers. The ACS Public Relations & Communications staff did a wonderful job keeping the program moving.

Kathleen Schultz described a number of professional development courses that are available on line or at the ACS National Meetings. This was a very beneficial experience.

NESACS, Public Relations Chair, Dr. Jack Driscoll

NESACS Election Results 2012

Chair-Elect

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<tr>
<td>Wilton Virgo</td>
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<td>Steve Lantos</td>
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Treasurer

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<td>Jim Piper</td>
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Trustee

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<td>Peter Meltzer</td>
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Councilor/Alternate Councilor - Vote for 10

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<tr>
<td>Ruth Tanner</td>
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<td>Dorothy Phillips</td>
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<td>Michaeline Chen</td>
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<td>Jackie O’Neil</td>
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<td>Marietta Schwartz</td>
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<td>Stuart Levy</td>
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<td>Raj Rajur</td>
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<td>Heidi Teng</td>
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<td>Randy Weintraub</td>
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<td>Mukund Chorghade</td>
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Director-at-Large - Vote for 2

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<td>James Phillips</td>
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Nominating Committee - Vote for 2

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<td>Michael Filosa</td>
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<tr>
<td>Jenny Li</td>
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Norris Award Committee - Vote for 2

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<tr>
<td>Jerry Jasinski</td>
<td>191</td>
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<tr>
<td>Patrick Gordon</td>
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Third from the left in the back row, Dr. Jack Driscoll joins Sparkle Training participants from 24 local sections.
NSYCC hosts event at Harpoon Brewery

By Emily Lewis, NSYCC Social Chair

If Feb 14th is for lovers, then this year, Feb 15th was for beer lovers. Following Valentine's Day, the NSYCC hosted an evening of beer chemistry at the Harpoon Brewery in Boston. Free food was provided by NESACS, and Harpoon provided us with complimentary samples of beer for the evening. We had a great turnout of young chemists who were able to mingle over food and at the bar throughout the evening. As social chair, I had the unprecedented opportunity to meet a number of new students, as well as several young chemists working in industry in the Boston area. It was great to share a beer with these new faces and chat about life in the field.

Harpoon was also kind enough to give us an exclusive peek into the brewing facility, where we were quickly acquainted with the many intricacies in the chemistry of beer. As we entered into the brew house guided by our beer expert Jamie, he regaled us with the minutiae of the craft of fermentation. From the origin of brewing by prehistoric man to the specific water chemistry involved in creating the perfect beer, our raconteur’s seemingly endless knowledge of the fermentation process held us young chemists rapt for over an hour.

With ample opportunity to network, plenty of time to unwind, and myriad beers to taste, I’d say the event was a success. I think a few of us may have even been swayed towards a career in brewing, to whom Jamie recommended checking out the American Society of Brewing Chemists. Thank you to everyone who came out and made this a great night, and I hope to meet many more young chemists at our next event.

Meeting Announce -ment –

Calling All Lab Managers!

September 21, 2012

Harvard University
11 Oxford Street,
Cambridge, MA 02138

The local chapter of the Association of Lab Managers (ALMA) will host a meeting on Friday, September 21 from 10 a.m. to 3 p.m. at Harvard University Center for Nanoscale Systems, 11 Oxford Street, LISE, Cambridge, MA 02138. The purpose of the meeting is to provide information to lab managers about various contract laboratories, capabilities, as well as provide an opportunity to network with fellow laboratory managers. Agilent is the meeting’s sponsor, and attendance, parking and meals are free. Membership in ALMA is not required.

The meeting will begin at 10 a.m. with a continental breakfast networking session, followed by a keynote address on laboratory management by Dr. Wayne Collins, World-Wide Industry Marketing Manager at Agilent Technologies. There will be opportunities during the meeting to hear about various contract labs, to network with other lab managers over lunch and to tour the Harvard University Center for Nanoscale Systems.

The meeting will end with a round-table session beginning at 2:30 p.m. and concluding at 3 p.m. Questions? Please contact Lynne Garone at lgarone@eink.com. To register, send an email with your contact information (Name, address, email and phone) to: alma@labmanagers.org.

Looking for seminars in the Boston area?

Check out the NESACS Calendar

www.nesacs.org/seminars

For late breaking news, job postings and the latest meeting and event information please visit us at

WWW.NESACS.ORG
National Chemistry Week Events
Celebrating
Nanotechnology – The Smallest BIG Idea in Science!

October 27, 2012 – Boston Children’s Museum
From 11 am – 4 pm, NCW volunteers will be on-hand throughout the museum to perform demonstrations and assist in hands-on activities related to the yearly theme.

October 28, 2012 – Museum of Science Boston
* Phyllis A. Brauner Memorial Lecture by Dr. Bassam Shakhashiri
Dr. Bassam Shakhashiri is a Professor of Chemistry at the University of Wisconsin-Madison and is the William T. Evjue Distinguished Chair for the Wisconsin Idea. Professor Shakhashiri is the 2012 President of the American Chemical Society. Professor Shakhashiri has captivated audiences with his scientific demonstrations at a variety of locations including Boston’s Museum of Science, the National Academy of Sciences and the Smithsonian’s National Air and Space Museum in Washington.
Taking place in Cahners Theatre (2nd floor, Blue Wing) at 1:00 pm and 4:00 pm.
* Admission to the museum is required. Free tickets to Dr. Shakhashiri’s show will be available on a first come, first serve basis. Tickets are available via advance reservation. To reserve tickets, please contact the NESACS secretary either via email secretary@nesacs.org (preferred) or by phone 1-781-272-1966 before October 20, 2011. Tickets will be available for pick-up in the lobby of the museum at the ACS table.
* Hands-on Activities related to nanotechnology
Taking place from 1:00 pm - 5:00 pm on October 28, 2012 throughout the Museum.

September 1 – October 5, 2012
K-12 students participate in the NCW poetry contest. Visit www.nesacs.org and http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_MULTICOLUMN_T2_50&node_id=1033&use_sec=false&sec_url_var=region1&uuid=5b376657-e102-4ad6-88cb-4fe54b492b5d for more information (after July 15, 2012).

July 1 – September 20, 2012
K-12 students participate in the Local Section design a t-shirt competition. Visit www.nesacs.org for more information.
38th NORTHEAST REGIONAL MEETING 2012  
HOSTED BY THE ROCHESTER LOCAL SECTION  
September 30 – October 3, 2012  
Radisson Hotel Rochester Riverside, Rochester, NY  
Includes Maine, Vermont, Massachusetts, Rhode Island, Connecticut,  
and New York (except New York City)  
WWW.NERM2012.ORG (Register Now)  

EARLY REGISTRATION CLOSES SEPTEMBER 7  
REDUCED HOTEL RATES END AUGUST 29  

General Sessions  
• Analytical  
• Biological  
• Bioorganic / Medicinal  
• Environmental  
• Inorganic  
• Organic  
• Physical  
• Polymers  

Contact the Program Chair  
Terry Bluhm  
16 Pine Hill Drive  
Pittsford, NY 14534  
TBLUHM@GMAIL.COM  

Special Event Speakers  
• Harrison Howe Award Winner: Xiaoliang Sunney Xie, Helmholtz  
Professor of Chemistry and Chemical Biology, Harvard University  
• Awards Dinner, Science Teacher Workshop and Presidential Event:  
Dassam Z. Shahbazri, 2012 President of the ACS  
• Presidential Event: Cathleen Crudden, 2012-13 President of the  
Canadian Society of Chemistry  

Ticketed Events, Workshops and Course  
• Surface Modification Chemistry for Nanoparticles and  
Interfaces” Course  
• Science Teacher Workshop  
• Punch and Cookies  
• Welcome Reception  
• Chemical Entrepreneur Small Business Symposium and Workshop  
• ACS Career Services  
• Presidential Event (ACS & CSC)  
• Awards Dinner  
• Agilent Technologies Lunch Seminar  
• 100 Year Anniversary Ice Cream Social (Rochester, New Haven and  
Maine)  
• Harrison Howe Banquet and Reception  
• Meeting and Talk with the ACS Governance over Breakfast  
• Division of Public Relations Workshop  

Finger Lakes Region of New York with Award-Winning Wineries  

ABSTRACT SUBMISSION CLOSES AUGUST 10  
REDUCED VENDOR RATES END JULY 1  

Symposia  
• Advances in Energy & Fuel Chemistry: Biofuels  
• Advances in Energy & Fuel Chemistry: Fuel Cells  
• Advances in Energy & Fuel Chemistry: Photovoltaics  
• Analytical Separation (NERCO)  
• Biopolymers: Bio-inspired Polymers, their Production and  
Interaction with Biological Systems  
• Catalyzing the Future of Chemistry  
• Chemical Biology: Advancing Basic Science and Improving  
Human Health  
• Chemical Education: Training the Next Generation  
• Chemistry in Emerging Technologies  
• Environmental Chemistry: Climate Change  
• Harrison Howe Award: New Frontiers in Imaging  
• Nanomaterials and Nanotechnology: Applied Science  
• Nanomaterials and Nanotechnology: Basic Sciences  
• Nanomaterials and Nanotechnology: Spectroscopy  
• NSF-Catalyzed Innovation in Undergraduate Education  
• Polymers from Renewable Resources  
• Synthetic Organic Chemistry Methods across the Border  
• Undergraduate Research  

Accommodations  
• Radisson Rochester Riverside  
• $125/night, free WiFi and parking pending availability  

Exhibitors, Advertisers and Sponsors  
Get your company’s message out to the Northeast Region’s  
Academic, Government and Business Communities  

Contact Ken Schlicht  
(655) 395-5385 (voice)  
College at Brockport, Chemistry Department,  
350 New Campus Dr., Brockport, NY 14420  
kingslicht@brockport.edu  

The Nucleus Summer 2012  9
Winning Illustrated Poem Contest Winners for Chemists Celebrate Earth Day 2012 -

Rethinking Recycling - It's Easy to Be Green!

9th-12th grade:
Joytika Bhargo (10th grade)
School: Somerville High School
Mentor: Susan Schmidt

3rd -5th grade:
Audrey McCarthy (3rd grade)
School: Hellenic American Academy
Mentor: Mrs. Fahey
Eric Schwartz is a long-time NESACS member who works at Celgene-Avilomics Research in Bedford, Massachusetts. Eric received his Ph.D. from U. Wisconsin-Madison with Professor Ed Vedejs and was a post-doctoral fellow with Professor Dennis Curran at U. of Pittsburgh. Eric then worked at a variety of local pharmaceutical companies including Eisai, UCB Research, Biogen-IDEC, Resolvyx Pharmaceuticals and Avila Therapeutics.

For fitness Eric initially was a regular participant in a spin class. This class subsequently catalyzed his participation in outdoor cycling. Through this spin/cycling group Eric became friends with a diabetic training for the Tour de Cure. The Tour de Cure is a series of 80 cycling fundraisers held in 44 states involving 55,000 participants, sponsored by the American Diabetes Association. In 2011 these Tour de Cure events raised $18 million. In 2010 the ADA funded $34 million in research at 125 different institutions.

Eric helped his friend train in 2011, but had a conflict preventing his own participation. This year Eric is riding the Tour de Cure New England Classic 150, which starts from Woburn, MA, across Connecticut to New York and finishes in Greenwich, CT after three days and 270 miles.

• The American Cancer Society has started a cycling fundraiser called Bicycles Battling Cancer http://community.acsevents.org/site/TR/fr_id=41596&pg=entry. Teams from Astra-Zeneca and Genzyme are leading fundraisers in this one-day ride which starts and finishes in Lancaster, MA.

• The Best Buddies Challenge http://www.bestbuddieschallenge.org/ is another prominent ride featuring the New England Patriots’ Tom Brady as a celebrity host/participant. This ride is held the first Saturday in June and runs 100 miles from the Kennedy Library in Dorchester to the Eunice Kennedy Shriver Center at Craigville Beach.

• The MS Society also sponsors a number of walks and rides. NESACS member Xavier Herault and his team, the X-Men, have participated in the Concord MS Walk for several years.

There are many rides and many great causes. If you can’t participate yourself, please support your NESACS colleagues and your friends and neighbors in their efforts to financially support and publicize these important causes while at the same time improving and enjoying their own health and fitness.

Eric Schwartz Rides in the Tour de Cure

By Michael Filosa

Eric Schwartz prior to a 30 mile training ride for the Tour de Cure (Photo by Marietta Schwartz)

Nucleus editor Michael Filosa (far right) with friends at the Webster, MA water stop during the 2010 Tri-State Trek first day ride from Newton, MA to Storrs, CT

Eric Schwartz is a long-time NESACS member who works at Celgene-Avilomics Research in Bedford, Massachusetts. Eric received his Ph.D. from U. Wisconsin-Madison with Professor Ed Vedejs and was a post-doctoral fellow with Professor Dennis Curran at U. of Pittsburgh. Eric then worked at a variety of local pharmaceutical companies including Eisai, UCB Research, Biogen-IDEC, Resolvyx Pharmaceuticals and Avila Therapeutics.

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Eric Schwartz prior to a 30 mile training ride for the Tour de Cure (Photo by Marietta Schwartz)
Historical Notes

by Myron S. Simon

It is with a deep sadness that I have to report the deaths of two old friends, Maurice Pechet and Norman Lichtin. Our friendships date back to Harvard undergraduate and graduate school days in the 1940's. Their careers were such that each of them was of major importance to the high quality of chemistry education in their respective institutions.

Maurice Pechet 1918-2012

I report the death of Dr. Maurice Pechet at his home in Cambridge on March 5, 2012 at the age of 94.

He was a part of my life as he was to so many other Harvard students studying chemistry, and the pre-meds, and especially students at Lowell House. At that time, the early 1940s, he was a graduate student and lab instructor for Louis Fieser’s introductory organic chemistry course, Chem 2. Prior to that, as a Canadian from Saskatchewan, he had taken his undergraduate work at the University of Alberta in Edmonton. He received his Ph.D. degree from Harvard in 1944 and his M.D. degree from Harvard Medical School in 1948. He stayed on at Lowell House as Senior Tutor for much of his life as adviser to chemistry and medicine bound undergraduates. He was associated with Harvard for about 70 years; while serving as a physician and endocrinologist at Mass. General Hospital. His research interest was principally in using his organic chemical knowledge to solve medical problems.

In order to satisfy his research needs he founded the Research Institute of Medicine and Chemistry. Among his discoveries were practical syntheses of 5-fluorouracil, aldosterone and prednisone.

Dr. Pechet was successful in so many ways in his ambition to link organic chemistry with patients’ illnesses, that it’s pretty trivial to say that I regret no longer seeing him leading the Lowell House contingent marching into the Yard at Commencement. Yet I do.

(To better appreciate the life of Maurice Pechet, was a sensitive obituary published in the Boston Sunday Globe by J. M. Lawrence shortly after Maurice’s death.)

Norman Lichtin 1923-2012

I report the death of Dr. Norman Lichtin, at his home in Dedham on April 30, 2012 at the age of 89.

My second loss of an old chemist friend was one of the brightest of people I have known, Norman N. Lichtin. We were in graduate school at the same time, both organic chemists, but there the similarity ended. My adviser, R.B. Woodward was interested in elucidating unsolved structures of complex natural products, their synthesis, and adopting new spectrographic instruments for organic chemistry. My milieu was the poisons of strychnine and curare. Norm’s adviser P.D.Bartlett was interested in theoretical physical organic chemistry and the uses of extreme solvents in ionization studies of complex organic structures.

Norm’s milieu was liquid sulfur dioxide. Bartlett students attended the Woodward seminars and the Woodward students attended Bartlett’s. RB?, PD?, for us it was a golden period for Harvard chemistry.

Norman Lichtin was born on August 10, 1922 in Newark, NJ, the son of James J. and Clara Lichtin. Norman married Phyllis Wasserman in 1947 and the couple have three children and six grandchildren.

Lichtin received his elementary education in Newark and graduated from South Side High School in 1939 as valedictorian of the college preparatory program. His chemistry training was furthered at Antioch College, from which he graduated in 1944 with a Bachelor of Science degree with distinction in chemistry. His M.S. degree in chemistry with a minor in chemical engineering was obtained at Purdue under Nathan Kornblum in 1945. He earned the Ph.D. degree at Harvard under Bartlett in 1948 with a thesis titled “Conductivity in Liquid Sulfur Dioxide of Some Derivatives of Triphenylchloromethane.”

Norm joined the faculty at Boston University as a Lecturer in 1947 and went through the ranks to Professor in 1961, University Professor in 1973, and Chairman of the Department of Chemistry from 1973 to 1984. In addition he was Director of the Boston University Center for Energy Studies 1978-79, Director of the Division of Engineering and Applied Science, Boston University Graduate School, 1983-87. He retired as Emeritus Professor of Chemistry.
On Sunday, April 22, 2012, the Northeastern Section of the American Chemical Society sponsored Chemists Celebrate Earth Day Event at Museum of Science-Boston (MoS). About 2000 visitors participated in a number of hands-on activities and demonstrations related to Green Chemistry. The main focus of this event was to create public awareness towards embracing environmentally benign methods. The visitors, especially students, were engaged in building greener devices and implementing cleaner day-to-day activities. Every volunteer engaged the audience in hands-on activities and made sure the audience left the booth with a flavor for greener environment.

The activities and demonstrations that were performed during this event included: biodiesel preparation, use of M&Ms to illustrate atom economy, building of dye-sensitized solar cell, water glass density/NaOH, PLA Demo, pH indicators using red cabbage, density of polymers as related to recycling, a biomimicry matching game station, homemade glue, and making hand sanitizer.

Special thanks to the Boston Museum of Science-Boston, Northeastern Section of the American Chemical Society, Beyond Benign, Kate Anderson, David Sittenfeld, and Julie Sable.

The event would not have been possible without the help of the volunteers listed below!

Thank you Chemists Celebrate Earth Day volunteers*:

Malden High School
Martin Berryman
Michael Lee
Jenny Ma
David Day
Eledia Avocado
Lavender Yu
Stephanie Su
Sunny Huang
Shix Su
Jingwen Chen

Northeastern University
Elise Miner
Victoria Ronga
Anthony Varca
Devan Wilkins
Peter Edwards
Kati Brogan
Sam Saggese
Anastasia Maydanov
Mark Naniang
Justin Roberts
Charlie Hoyt

Beyond Benign
Kate Anderson

MIT:
Patrick Conrad

Salem State University
Dr. Jayashree Ranga
Victoria Gillespie
Vinh Vo
Krystal Gmyrek

Kim Clapp
Brenda Gonzalez
Marie Sanon
Cassandre Propheté
Leslie Garcia
Joy Morrison
Mariana Georges
Ashley Hood
Mike Dullen
Mathew Fenn
Christine Vo
Shane Hurley
Ben Kirk
Kyle Leonard
Veronica Barrientos

Gordon College:
Owen Williams
Ean Mullins
Madeline Kong
Dr. Joel Boyd
Ruth Chadwick
Mollie Enright
Molly Guthrie
Andrew Swartzel
C.J. Daly
Lee Andrews
Jenna Gustavson
Stacy Strobel
Bria Pelletier
Ben Stewart
Sarah McCarron

Emmanuel College
Dr. Christine Jaworek-Lopes
Carina Paz
Elsie Helou
Kaitlyn Waters
Hillary Butts
Eliza Kosoy
Lauren Gagnon
Michael Lynch
Allison Harbottle

Simmons College:
Maureen Corrielus
Veronica Nowakowski
Emily Yasi
Natalie Lowell

* I apologize if your name is not on this list. ◊

Historical Notes continued from page 12

and Emeritus University Professor in 1993.

His research had involved many fields: Electrolyte chemistry in liquid sulfur dioxide, radiation chemistry of organic and bioorganic systems, chemistry of “active” nitrogen, physical photochemistry, photochemical conversion and storage of solar energy, photo-assisted heterogeneous catalysis, and the photocatalytic detoxification of air and water.

Lichtin had been a Visiting Professor or Visiting Chemist at Brookhaven National Laboratory, The Hebrew University in Jerusalem, Weizmann Institute of Science in Rehovoth, Israel, The Institute of Physical and Chemical Research, Wako, Saitama, Japan, Indian Association for the Cultivation of Science, Calcutta, India. He had consulting contracts with a wide variety of corporations and hospitals on topics of nuclear medicine, solar energy, water purification and photochemistry. ◊
The Committee on Nominations and Elections presented to the Council the following nominees for selection as candidates for President-Elect, 2013: Thomas J. Barton, Luis A. Echegoyen, William A. Lester, Jr., and Barry M. Trost. By electronic ballot, the Council selected Thomas J. Barton and Luis A. Echegoyen as candidates for 2013 President-Elect. These two candidates, along with any candidates selected via petitions, will stand for election in the Fall National Election.

Committee Review
• As part of a regular performance review, the Council VOTED to continue the Committee on Project SEED. The Committee on Project SEED sets policy for all Project SEED programs, including review of Project SEED I and II program applications for student research projects, funding decisions, and Project SEED college scholarship applications.

The Society’s Finances
• Despite the sluggish economy, ACS generated strong operating results in 2011. Total revenue was $472.0 million, up +1.8% over 2010. The Net from Operations was $20.9 million, or $7.7 million favorable to budget. This result was attributable to better-than-expected performance by the ACS Publications Division and careful expense management across the Society. While operating results were favorable, unrestricted net assets declined from $130.5 million to $102 million. The decline was primarily due to a sizable accounting charge related to the Society’s closed postretirement benefit plans. ACS ended the year in compliance with four of the five Board-established financial guidelines.

Candidates for Directors-at-Large
• The Committee on Nominations and Elections announced the selection of the following candidates for Directors-at-Large for a 2013-2015 term: Carol A. Duane, Valerie J. Kuck, Helen (Bonnie) A. Lawlor, and Ingrid Montes. The election of two Directors-at-Large will be conducted in the fall. Ballots will be mailed to the Council on or before October 10.

2013 Member Dues
• The Council VOTED to set the member dues for 2013 at the fully escalated rate of $151. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

Petitions to Amend the Constitution and Bylaws
(For Action)
• The Council took action on two amendments (petitions) to the ACS Constitution and Bylaws: The Petition to Amend Recorded Vote Request Procedure and the Petition on Market Data Collection. The Council VOTED overwhelmingly to approve both petitions. The Petition to Amend Recorded Vote Request Procedure provides that a call for a recorded vote after a clicker vote has commenced will be out of order, as would a call for a recorded vote after the initial clicker voting has taken place. The Petition on Market Data Collection seeks to add a provision to allow for controlled market testing to collect data before the Society changes benefits, dues, or membership categories. The Board of Directors will vote within 90 days on whether to ratify the approved petitions.

(For Consideration)
• The Council received two petitions for consideration: The Petition on Candidate Comment in C&EN and the Petition on International Chemical Sciences Chapters Funds. The Petition on Candidate Comment in C&EN seeks to restrict candidates
for election to the Board of Directors from publishing comments in C&EN for a six-month period prior to the mailing of the election ballot. The Petition on International Chemical Sciences Chapters Funds seeks to clarify that the Board of Directors may allocate funds to international chapters for specific purposes. The Council is expected to act on these two petitions at the fall Council meeting.

Member Statistics
• Membership recruitment and retention efforts were very successful last year. The Society ended 2011 with 164,215 members – the highest number in Society history. 24,249 new members were elected into the Society – 16,092 Regular Members and 8,157 Undergraduate Members.

Attendance Report
• As of March 28, 2012, the ACS spring national meeting had attracted 16,921 registrants including 8,974 regular attendees and 5,742 students.

Chemical Professional’s Code of Conduct
The Council VOTED to approve the Chemical Professional’s Code of Conduct as submitted by the Committee on Economic and Professional Affairs. This document offers guidance for Society members in various professional dealings, especially those involving conflicts of interest.

Special Discussion Item
• A special discussion item was put on the Council agenda for this meeting. ACS President Bassam Shakhashiri presented and moderated a discussion on “What is your reaction to the proposed topics for the ACS Climate Science Tookkit?” President Shakhashiri’s working group on ACS Climate Science has developed a preliminary web-based toolkit that ACS members can use as a resource for understanding and communicating basic climate science. Following the presentation, Councilors engaged in a robust discussion on the proposed toolkit, and offered numerous suggestions for consideration.

DIRECTORS
At this meeting, the ACS Board of Directors considered a number of key strategic issues and responded with several actions.

The Board’s Committees
• The Committee on Grants and Awards presented the Board with a screened list of nominees for the 2013 Priestley Medal, Charles Lathrop Parsons Award, and the Award for Volunteer Service to the ACS. The Board VOTED to approve the screened lists, and will now vote on, and announce, the winners of these three awards after its June meeting. The Board also VOTED to approve a Society nominee for the National Medal of Science.
• On the recommendation of the Committee on Executive Compensation, the Board VOTED to approve several actions relative to compensation for the Society’s executive staff. The compensation of the Society’s executive staff receives regular review from the Board of Directors.

The Executive Director/CEO Report
• The Executive Director/CEO and several of her direct reports updated the Board on the activities of CAS (Chemical Abstracts Service), the ACS Publications Division, and the Society’s General Counsel.

ACS vs. Leadscope Litigation
• The General Counsel report included a briefing on the ACS vs. Leadscope litigation.
• As previously reported, ACS has appealed to the Ohio Supreme Court, and the Court agreed to hear the case. Briefs have been filed in support of our position by several prestigious organizations, including the Ohio Attorney General, the Ohio Chamber of Commerce, the Ohio Manufacturers’ Association and the Ohio State Bar Association. On September 7, the Supreme Court heard oral arguments in the case, and a link to the arguments can be found on acs.org. A ruling has not been issued but could come at any time. A more detailed report appears in the most recent edition of the Councilor Bulletin. Please contact the Office of the Secretary if you would like a copy.

Other Society Business
The Board approved:
• the 2015 PacifiChem budget and authorized reimbursement, on a prorata basis, to the participating ACS Divisions for expenditures in support of the PacifiChem program and activities;
• changes to Board Regulations regarding the composition of the Planning Committee and the appointment of canvassing and award committees;
• a proposal to administer and present the AkzoNobel North American Science Award as recommended by the Committee on Grants and Awards; and
• proclamations recognizing the 100th Anniversary of the South African Chemical Institute and the 80th anniversary of the Chinese Chemical Society.

The Society’s International Activities and its Open Session
The Board welcomed and received reports from several international guests representing the following sci-
June, July & August Historical Events in Chemistry
by Leopold May, The Catholic University of America, Washington, DC 20064

June 2, 1787
Two hundred and twenty-five years ago, Nils G. Sefstrom was born on this date. He is one of the discoverers of vanadium (V, 23) in 1830.

June 3, 1960
Robert B. Woodwood announced his synthesis of chlorophyll on this date.

June 5, 1951
The first paper on gas chromatography (GC), Gas-liquid partition chromatography: the separation and micro-estimation of volatile fatty acids from formic acid to dodecanoic acid, by A. T. James and A. J. P. Martin was received on this date in 1951 and was published in Biochem. J. 1953, 50, 679-690.

June 8, 1862
Fifty years ago, Herbert B. Baker was born. He was a researcher on effect of water on chemical change and an authority on desiccating and poison gases.

June 9, 1862
Fifty years ago, Herbert B. Baker was born. He was a researcher on the double helix structure of the deoxyribonucleic acid (DNA) molecule.

June 10, 1906
Regina Schoental, who was born on this date, was a researcher on toxic pyrrolizidine alkaloids, fusarial mycotoxins, zearalenone, the trichotheccenes, and other carcinogenic metabolites of Fusarium and other microfungi, estrogenic mycotoxins on the development of cancers and behavioral disorders, nitroso compounds from action of the oral and anorectal microflora, and on the activation of human immuno deficiency virus.

June 14, 1862
One hundred and fifty years ago, Johann Ulrich Nef was born on this date. He discovered the valence of carbon and did research on free radicals and transition state in organic reactions. He is known as “Father of Physical Organic Chemistry.”

June 15, 1755
Antoine François de Fourcroy, who was born on this date, developed chemical nomenclature with Lavoisier and Berthollet. He described salts such as calcium chloride.

June 18, 1906
Maria Goeppert Mayer, who developed the shell model of the nucleus and did research in isotopes effect, was born on this day. She shared the Nobel Prize in Physics in 1963 with J. H. D. Jensen for discoveries concerning nuclear shell structure and Eugene Paul Wigner for his contributions to the theory of the atomic nucleus and the elementary particles, particularly through the discovery and application of fundamental symmetry principles.

June 20, 1931
Mary L. Good is a researcher in inorganic chemistry and industrial chemist. She served as President of ACS and was born on this day.

June 22, 1903
Harry Julius Emeléus, a researcher in inorganic chemistry and fluorine chemistry, was born on this date.

June 25, 1812
Two hundred years ago, Hermann von Fehling was born on this date. He discovered Fehling’s solution as an oxidizing agent and as an analytical reagent for aldehydes and sugars and prepared phenyl cyanide. The compositions of paraldehyde and metaldehyde were determined by him.

June 28, 1873
One hundred years ago, Alexis Carrel was awarded the Nobel Prize in Physiology or Medicine in recognition of his work on vascular suture and the transplantation of blood-vessels and organs. He was born on this date and did research on suturing blood vessels in organ transplants.

June 30, 1926
Paul Berg, researcher in recombinant deoxyribonucleic acid (DNA) was born on this date. He shared the Nobel Prize in Chemistry in 1980 for his fundamental studies of the biochemistry of nucleic acids, with particular regard to recombinant-DNA with Walter Gilbert and Frederick Sanger for their contributions concerning the determination of base sequences in nucleic acids.

July 1, 1901
The Office of Standard Weights and Measures became the National Bureau of Standards on this day. It was renamed the National Institute of Standards and Technology (NIST) in 1988.

July 2, 1862
One hundred years and fifty years ago, William H. Bragg was born on this date. He was a researcher in X-rays and crystal structure and received the Nobel Prize in Physics 1915 with his son, W. Lawrence Bragg, for their services in the analysis of crystal structure by means of X-rays.

July 4, 1906
Vincent Joseph Schaefer, who was born on this date, invented “cloud-seeding,” that artificially causes rain or snow using dry ice pellets. He investigated the physics of precipitation.

Continued on page 18
Photos from the Richards Award Meeting - March 2012  Photos by James Phillips.

(L-R) NESACS Directors-at-Large, John Burke and David Harris

(L-R) Myron Simon, Donald Rickter and Vivian Walworth

(L-R) NESACS Directors-at-Large, John Burke and David Harris

(L-R) Michael and Joanna Aizenberg with Robert Umans

(L-R) NESACS Councilor Morton Z. Hoffman, NESACS Immediate Past Chair Patrick Gordon, NESACS Councilor Robert Lichter, YCC Chair Heidi Teng and Shanaleem Begay

(L-R) NESACS Councilor Morton Z. Hoffman, NESACS Immediate Past Chair Patrick Gordon, NESACS Councilor Robert Lichter, YCC Chair Heidi Teng and Shanaleem Begay

(L-R) Professor Roy Gordon of the Richards Award Committee and Harvard University, Richards Award Winner, Tobin Jay Marks and Professor Timothy Swager of MIT

(L-R) NESACS Board of Publications Chair, Mary Mahaney, Kerra Fletcher and Jennifer MacLachlan

(L-R) NESACS Board of Publications Chair, Mary Mahaney, Kerra Fletcher and Jennifer MacLachlan

(L-R) Myron Simon, Donald Rickter and Vivian Walworth

Continued on page 20
Historical Events
continued from page 16

July 11, 1927

July 8, 1994
Jason Cardell reports in Science that interstellar abundances of the elements including thallium and lead are detected in interstellar gas.

July 12, 1854
George Eastman invented color film. He also invented Kodak and transparent film and in 1888, the Brownie camera, and in 1891, daylight loading film. He was born on this day.

July 15, 1887
One hundred and twenty-five years ago, Edward R. Weidlein was born. He invented hydro-metallurgical processes for treatment of low-grade copper ores

July 16, 1945
The explosion of the first atomic bomb occurred at the Trinity Site, Alamogordo Air Force Base, NM.

July 18, 1937
Seventy-five years ago, Roald Hoffmann was born on this date. He applied molecular orbital theory to organic chemical reactions with Robert B. Woodward (Woodward-Hoffmann Rules) and was awarded the Nobel Prize in Chemistry in 1981 with Kenichi Fukui for their theories, developed independently, concerning the course of chemical reactions. He is also a poet.

July 19, 1802
Eleuthère I. DuPont began construction on this day of a gunpowder factory that became E. I. DuPont de Nemours and Company.

July 21, 1694
Georg Brandt, who was born on this date, discovered cobalt (Co, 27) in 1735 and was one of the first chemists to abandon alchemy as a science.

July 23, 1880
Seventy-five years ago, Emma P. Carr was the first recipient of ACS’s Francis Garvan Medal. She did research on the ultraviolet spectra of hydrocarbons.

July 25, 1963
The communication, Vicinal Proton Coupling in Nuclear Magnetic Resonance by Martin Karplus (J. Am. Chem. Soc., 1963, 85, 2870) that related molecular geometry to coupling constants was received on this date.

July 31, 1918
Paul D. Boyer shared the Nobel Prize in 1997 with John E. Walker for elucidation of the enzymatic mechanism underlying the synthesis of adenosine triphosphate (ATP) and Jens C. Skou for the first discovery of an ion-transporting enzyme, Na+, K+-ATPase. He was born on this date.

August 13, 1912
Seventy-five years ago, Hans A. Krebs discovered the citric acid cycle or Krebs cycle. He also described the urea cycle in 1932 and the glyoxylate cycle in 1957. He shared the Nobel Prize in Physiology or Medicine in 1953 for his discovery of the citric acid cycle with Fritz Albert Lipmann for his discovery of co-enzyme A and its importance for intermediary metabolism. He was born on this date.

Norris Award
continued from page 5
developing research questions for their dissertation without dictating to them what area to study, thereby giving them a sense of ownership of their research project. The Award will be formally presented to Professor Talanquer at the November 8 meeting of the Northeastern Section. ◇

A Greener Nucleus
Sign up for electronic delivery at www.nesacs.org
It is now possible to sign up for electronic delivery of the Nucleus at www.nesacs.org. You can choose an electronic-only option, a paper-only option, or receive both an electronic copy and a paper copy. The electronic copy, in general, will be available two to three weeks before paper copies delivered by third class mail. Improved timeliness should greatly enhance the value of the Nucleus for our readers.

If you have any questions, contact the editor by email at michael.filosa(at)zink.com. ◇
entific societies: the Canadian Society for Chemistry, the German Chemical Society, the Hungarian Chemical Society, the International Union of Pure and Applied Chemistry, the Mexican Chemical Society, and the Royal Society of Chemistry.

The Board held a lively, well-attended open session which featured a special forum on “The Future of Graduate Education and Research in the Chemical Sciences.” Members attending this standing-room-only session received an overview and update from the chair and executive director of the ACS Presidential Commission on Graduate Education in the Chemical Sciences. The commission is addressing two major questions: “What are the purposes of graduate education in the chemical sciences?” and “What steps should be taken to ensure that important societal issues, as well as the needs and aspirations of students, are addressed in graduate school?” Members discussed how the Society might offer greater assistance on this very important and timely topic.

ADDITIONAL INFORMATION FOR COUNCILORS

The Society Committee on Education supported the recommendations from a task force to create a stand-alone association housed within ACS, supported by professional staff and governed by a volunteer board of association members.

The following is a list of URLs and email addresses presented on slides at the Council meeting. You will find the information noted on these sites helpful.

Safety

safety@acs.org – email address for sharing ideas on “How can ACS best cultivate a culture of safety in US universities and colleges?”

www.acs.org/safety - information on the Committee on Chemical Safety including “Creating Safety Cultures in Academic Institutions”

Employment/Careers

www.acs.org/careers - information on ACS career resources

www.acs.org/iei - information on the ACS Entrepreneurial Initiative (Training and Resources)

Local Section Resources

www.acs.org/getinvolved: grant information, important deadlines, officer resources

www.acs.org/forms: submit annual reports, record meetings, activities and events year round

speakers@acs.org: nominate speakers for the Online Speaker Directory

Other

www.acs.org/strategicplan - information on the new ACS Strategic Plan for 2012 and Beyond

www.acs.org/bulletin5: location of the Society’s governing documents and unit bylaws, and information on the petition process to amend the Society’s governing documents

bylaws@acs.org: email address for questions to the Committee on Constitution and Bylaws

www.acs.org/climatescience: information on the Climate Science Toolkit

A Long Hectic Day

continued from page 4

4:30 pm: Yet another pumping session. I have a seatmate, a polite European (male) teenager who seems to pay no attention. I studiously ignore him and look out the window.

7:30 pm: I am home. I have spent 16 of the past 22 hours on the train. I have traveled 870 miles, met with 4 NSF program officers, pumped 45 ounces of breast milk, and graded 6 problem sets. I am home in time for bedtime with my toddler, who gleefully tells me, “Mommy always comes back.”

At that moment I can’t tell him the truth: In less than a month, I am going back for a 3 day panel. I am taking his baby brother with me so that I can nurse him at nights. I am sure he will be heartbroken when this happens. I already am.
Richards Awards Meeting

continued from page 17

(L-R) Professor Roy Gordon and Professor Tobin Jay Marks

(L-R) Tobin Marks with Tim Swager

Professor Mercouri G. Kanatzidis (L) with Professor Tobin Jay Marks
both of Northwestern University. Professor Kanatzidis introduced Professor Marks prior to Professor Ruth Tanner presenting the 2012 Richards Award Medal to Professor Marks. Professor Marks presented a stimulating address on solar energy conversion: "Plastic Solar Cells with Engineered Interfaces."
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Call for Nominations

The Gustavus John Esselen Award for Chemistry in the Public Interest

The Northeastern Section of the American Chemical Society (NESACS) is inviting nominations for its prestigious Gustavus John Esselen Award for Chemistry in the Public Interest. This award is given annually to a chemical scientist, whose scientific and technical work has contributed to the public well-being and has thereby communicated the positive values of the chemical profession. The significance of this work should have become apparent within the five years preceding nomination. The awardee shall be a living resident of the United States or Canada at the time of the nomination.

There is no limitation to the field of chemistry. The selection committee focuses on the general public recognition of the work, as well as its scientific/technical significance.

The Award consists of a bronze medal and the sum of $5,000. Travel expenses incidental to the conferring of the award will be reimbursed. The award will be presented at the April 2013 meeting of the Section. The Awardee is expected to deliver an address on the subject of the work for which the honor is conferred, or for work in progress which is also directed toward chemistry in the public interest.

Nominations should be submitted as a single pdf file including: 1) a letter signed by the primary sponsor with a description of the nominee’s work recognized as making a major contribution to the public welfare and as communicating positive values of the chemical profession, plus the names of two co-sponsors; 2) short supporting co-sponsor statements; 3) the nominee’s professional biography including a list of no more than ten of the nominee’s publications selected for their pertinence to the work nominated for recognition; and 4) copies of popular and technical press news or feature articles indicative of public benefit and interest. Further information is available at www.nesacs.org.

Nominations Are Due October 15, 2012 to asromek@mclean.harvard.edu with cc to piper281@verizon.net. Award recipients will be notified by February 1, 2013.

Inquiries may be directed to the above or to Dr. Anna Sromek, Tel. (617) 855-3591 or Karen Piper, Tel. (978) 456-8622. Address: 19 Mill Rd., Harvard, MA 01451. ☣

New Members

Invitation to attend a meeting

You are cordially invited to attend one of our upcoming Section meetings as a guest of the Section at the social hour and dinner preceding the meeting.

Please call Anna Singer at 781-272-1966, 508-653-6329 or email: secretary@nesacs.org by noon of the first Thursday of the month, letting her know that you are a new member. ☣