

# THE NUCLEUS

October 2013

Vol. XCII, No. 2

## Monthly Meeting

*Ramesh Jasti to speak at Boston University Hillel House*

*Henry A. Hill Award Presentation, Outreach Volunteer Award, 50-year and 60-year Members Honored*

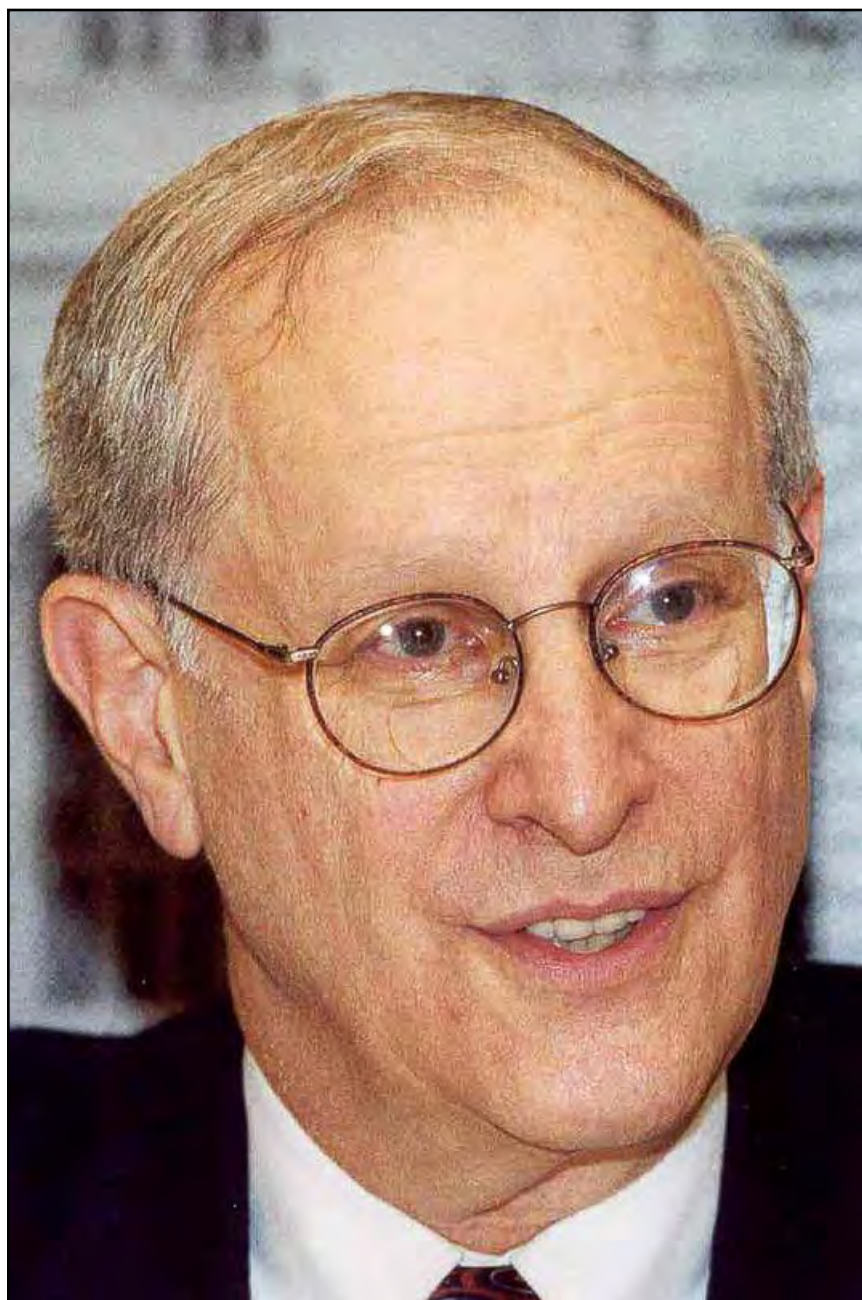
## Henry A. Hill Award to Arthur S. Obermayer

## Recollections of Henry A. Hill

*By Arnet L. Powell*

## 2013 BMM Conference

*By Jack Driscoll*



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**Cover:** 2013 Henry A. Hill Awardee, Dr. Arthur S. Obermayer (Photo courtesy of Dr. Obermayer).

**Editorial Deadlines:** December 2013 Issue: October 15, 2013  
January 2014 Issue: November 15, 2013

## THE NUCLEUS

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# Dr. Arthur S. Obermayer to Receive 2013 Henry A. Hill Award

Dr. Arthur S. Obermayer, president of Moleculon Research Corporation, is the recipient of the 2013 Henry A. Hill Award. The award will be presented to Dr. Obermayer at the October 10, 2013 meeting of the Northeastern Section of the American Chemical Society (NESACS). The Hill Award is presented annually to a member of NESACS for meritorious service to the Section and to the profession of chemistry.

Dr. Obermayer has been an active member of NESACS for more than 60 years. During the 1950s he chaired the Northeastern Section Television Committee, which had a monthly television program on Channel 4 describing the methods of professional chemists. The host on these programs was Dr. Isaac Asimov, the well-known science and science fiction writer. This also led to a continuing personal friendship

between the two individuals.

For many years thereafter Obermayer was a NESACS Councilor representing the Section at national meetings. In 1982 Obermayer was elected chairman of the Northeastern Section, and under his leadership, the Section developed a more formal committee structure and encouraged broader participation in its governance. From 1983 to 1986 he was a member of the NESACS Board of Trustees. Under his chairmanship an external investment advisory process, which is still in use, was set up.

Additionally, while chairman he convinced Gus Esselen III to provide an NESACS award in memory of his father, Dr. Gus Esselen Jr., for Chemistry in the Public Interest, and for six years (1988-91 and 2009-11) he served on the Esselen Award Committee and

*continued on page 12*

# Application Reminder

*NSYCC/NESACS-JCF/GDCh Exchange to Germany*

**March 22-30, 2014**

Applications are welcome from graduate and undergraduate students of chemistry, biochemistry, and chemical engineering (including materials science) at colleges and universities within the Northeastern Section for the 14th annual German Exchange between the NESACS Younger Chemists Committee and the Jungchemikerforum (Young Chemists Committee; JCF) of the Gesellschaft Deutscher Chemiker (German Chemical Society; GDCh). The next Exchange to Germany will take place on March 22-30, 2014, in Jena. Prospective applicants should note that the Spring ACS national meeting in Dallas will be held on March 16-20, 2014.

Application forms and more details are available on the NSYCC <<http://www.nsycc.org>> and NESACS <<http://www.nesacs.org>> websites.

The deadline for the submission of applications (electronic only) to <[mstrem@strem.com](mailto:mstrem@strem.com)> is Friday, November 1, 2013, at 5:00 p.m. ◊

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**WWW.NESACS.ORG**

# Monthly Meeting

*The 934<sup>th</sup> Meeting of the Northeastern Section of the American Chemical Society*

Henry Hill Award, and Recognition of 50 and 60-year members

Thursday, October 10, 2013

Boston University

Florence and Chafez Hillel House, 213 Bay State Road, Boston, MA 02215

4:00 pm Board Meeting

5:30 pm Social Hour

6:15 pm Dinner

7:15 pm Presentation of 50 and 60-Year Members

7:30 pm Award Meeting, Liming Shao, NESACS Chair, Presiding

2013 Outreach Volunteer Award to **Alfred Barney**

Henry A. Hill Award for Outstanding Service to the Northeastern Section presented to **Arthur Obermayer**

**Speaker:** Prof. Ramesh Jasti, Boston University Department of Chemistry, "The Bottom-Up Organic Synthesis of Carbon Nanotubes"

Dinner reservations should be made no later than noon, Thursday, October 3. Reservations are to be made using PayPal services: <http://acssymposium.com/paypal.html>. Select pay with credit or debit card option and follow the additional instructions on the page. Members, \$30; Non-members, \$35; Retirees, \$20; Students, \$10. Reservations for new members and for additional information, contact the secretary Anna Singer at (781)272-1966 between 9am and 6pm or e-mail at [secretary@nesacs.org](mailto:secretary@nesacs.org). Reservations not cancelled at least 24 hours in advance must be paid.

Parking is available on the street or for \$10 at the lot located at 665 Commonwealth Ave.

THE PUBLIC IS INVITED

# Biography



Professor Jasti received his Ph.D. at UC Irvine in 2006 with Prof. Scott Rychnovsky and conducted his post-doctoral studies with Prof. Carolyn Bertozzi at UC Berkeley. At UC Berkeley, Prof. Jasti was the first scientist to prepare the cycloparaphenylenes (i.e., carbon nanohoops), which represent the shortest possible armchair carbon nanotube. Prof. Jasti joined the faculty at Boston University in 2009 where his research focuses on the synthesis and properties of carbon-based nanomaterials. Recent Awards: Alfred P. Sloan Fellowship & NSF Career Award. ◇

# Abstract



The Jasti research group's approach to the organic synthesis of uniform carbon nanotubes will be described. In addition, recent discoveries in the synthesis, reactivity, and self-assembly of the cycloparaphenylenes (i.e. carbon nanohoops) will also be provided. ◇

on chemistry related themes.

On behalf of the ACS Committee on Community Activities, the NESACS celebrates Dr. Barney's extraordinary outreach volunteer service. ◇

# Outreach Volunteer Award to Alfred A. Barney

Congratulations to Dr. Alfred A. Barney as the 2013 Outreach Volunteer of the Year for the Northeastern Local Section. This recognition program was established by the ACS Committee on Community Activities (CCA) to acknowledge individuals who have

contributed many hours to outreach efforts and activities.

As an employee of Strem Chemicals, Alfred Barney has volunteered his time and expertise to designing and running novel experiments and demonstrations for students from K to 12 for over 13 years within the Merrimack Valley Region of Massachusetts. Since 2005, he has made presentations for hundreds of elementary, middle, and high school students. Popular topics include Properties of Matter and Molecular Structure, Thin Layer Chromatography, Electroplating, and Purification of Water. Additional volunteer activities include serving as an ACS Science Coach, judging science and math competitions, and assisting summer programs for 4th and 5th graders



# National Chemistry Week Events\*

## Celebrating

### Energy: Now and Forever!

\*National Chemistry Week is Officially held Oct.20 -26

## October 27, 2013 – 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 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 (2<sup>nd</sup> 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](mailto:secretary@nesacs.org) (preferred) or by phone 1-781-272-1966 before October 23, 2013. Tickets will be available for pick-up in the lobby of the museum at the ACS table.

- *Hands-on Activities related to energy*

Taking place from 1:00 pm - 5:00 pm on October 27, 2013 throughout the Museum.

## November 9, 2013 – 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.

## September 1 – October 5, 2013

K-12 students participate in the **NCW poetry contest**. Visit [www.nesacs.org](http://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=58ef8ea1-4479-48ac-91dd-6d2467fe63bc](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=58ef8ea1-4479-48ac-91dd-6d2467fe63bc) for more information (after July 15, 2013).

## July 1 – September 20, 2013

K-12 students participate in the **Northeastern Local Section "design a t-shirt competition."** Visit [www.nesacs.org](http://www.nesacs.org) for more information.





# Meeting Announcement

## *Meeting of the Southeastern Massachusetts Area of the Northeastern Section of the American Chemical Society*

Thursday, October 3, 2013

University of Massachusetts Dartmouth  
Woodland Commons, Conference Room 1  
285 Old Westport Road  
North Dartmouth, MA 02747

5:00 pm Registration

5:30 pm Reception (light refreshments)

6:00 pm Welcome: Liming Shao, NESACS Chair, and Emmanuel Ojadi, Chair, Chemistry and Biochemistry Department, UMass Dartmouth

6:10 pm Southeastern Massachusetts Area Meeting: Jack Driscoll, PID Analyzers, LLC

6:25 pm Introduction of Speaker: Robert Lichter, Merrimack Consultants, LLC

6:30 pm Speaker: Madeleine Jacobs, Executive Director and CEO, American Chemical Society. "Everything You Always Wanted to Know about ACS, But Were Afraid to Ask"

7:30 pm Reception (heavy hors d'oeuvres)

**Advance registration is requested for planning purposes and follow up.** Please contact Anna Singer at 781-272-1966 or <secretary@nesacs.org> (e-mail is preferred) by Monday, September 23.

THE PUBLIC IS INVITED TO THIS EVENT WITHOUT CHARGE

## Biography

Madeleine Jacobs has been Executive Director and CEO of the American Chemical Society since 2004. Earlier, she served for 10 years as Managing Editor (1993-95) and Editor-in-Chief (1995-2003) of ACS's weekly news-magazine, Chemical and Engineering News (C&EN). She received a B.S. in chemistry with honors and distinction from George Washington University in 1968 and completed a year of graduate study in organic chemistry at the University of Maryland in 1969. She received an honorary Doctor of Science from GWU in 2003.

Jacobs is a member of the GWU Board of Trustees, a member of the Board of Directors of the ACS, the Rosalind Franklin Society (dedicated

to advancing careers of women in the sciences), the Société de Chimie Industrielle, and ASTRA (Alliance for Science and Technology Research in America). She is a Governing Member of the Baltimore Symphony Orchestra (BSO) and a member of the BSO Women's Leadership Forum, a member of the Board of Advisors of the Harpswell Foundation (dedicated to empowering women in developing nations), a general member of the Council on Competitiveness, and a member of the GWU National Council for the College of Arts and Sciences.

Jacobs has received a number of awards, including the New York Academy of Sciences Women's History Month Award (2002), the ACS Award for Encouraging Women into Careers in the Chemical Sciences (2003), the American Crystallographic Association

## Abstract

ACS is the world's largest scientific society, with more than 163,000 members and scores of programs for its members. How does a member figure out where to find information about ACS programs, and what's new and exciting at your professional home for life? Executive Director and Chief Executive Officer Madeleine Jacobs has spent nearly 23 years at ACS in various capacities as a young reporter at C&EN, the managing editor and editor-in-chief of C&EN, and as the CEO for more than the past nine years. She will give a brief, somewhat serious, and somewhat whimsical look at ACS, followed by your opportunity to ask what you've always wanted to know about ACS, but were afraid to ask. ◇

Public Service Award (2004), and the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE) President's Award (2010). She was elected a Fellow of the American Association for the Advancement of Science in 2004. In 2012, Jacobs was chosen as one of 100 Women in STEM (Science, Technology, Engineering, and Math) by STEMconnector™.

Throughout her career Jacobs has been focused on promoting science and technology careers to young women and girls and minorities at all educational levels to motivate them to achieve their greatest potential. Another theme in her career is the importance of communicating science to general audiences. As Editor-in-Chief of C&EN, she had significant impact on the public perception of chemistry and on the profession of chemistry itself. Jacobs lectures frequently in the U.S. and abroad on trends in the chemistry enterprise, gender equity, minority representation, and communicating science. ◇

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## Doris Lewis to be honored at NERM

Doris Lewis, Professor of Chemistry at Suffolk University and 2000 NESACS Chair, will be honored at the Northeast Regional Meeting (NERM) in New Haven with the 2013 E. Ann Nalley Northeast Region Award For Volunteer Service to the ACS as announced by Richard Cobb, Awards Chair and Vice Chair of the Northeast Region of the ACS, Inc.

The award, which will be presented at the NERM Awards Dinner on Friday night, October 25, at the Omni Hotel, recognizes the volunteer efforts of individuals who have served the ACS by contributing significantly to the goals and objectives of the Society through their activities on the local and regional, as well as national, levels. It was instituted in 2006 by ACS Presi-

*continued on page 13*

## Harvard Ph.D. Wins IUPAC Prize

The International Union of Pure and Applied Chemistry (IUPAC) has announced the winners of the 2013 IUPAC Prizes for Young Chemists, which are awarded for the best Ph.D. theses in the chemical sciences as described in 1000-word essays.

- Daishi Fujita, Japan - University of Tokyo
- Thomas Kempa, U.S.A. - Harvard University
- Huifeng Qian, China - Carnegie Mellon University
- Hailiang Wang, China - Stanford University
- Qiao Zhang, China - University of California, Riverside

Kempa, who did his undergraduate chemistry studies at Boston College, received his Ph.D. degree in chemistry from Harvard in 2012 with Prof.

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## National Historic Chemical Landmarks in Your Community

By Keith Lindblom, ACS National Historic Chemical Landmarks Program Manager

ACS established the National Historic Chemical Landmarks program in 1992 to enhance public appreciation for the contributions of the chemical sciences to modern life in the United States and to encourage a sense of pride in their practitioners. To date, the program has recognized 70 subjects in the United States and around the world, including one in the Northeastern Section—Charles James' Separation of Rare Earth Elements at the University of New Hampshire.

ACS local sections, divisions or committees can nominate subjects for the program. To qualify, subjects must clearly represent seminal achievements in the history of chemistry; they must evidence significant impact and benefit to the public and the chemistry profession; and they must be at least 25 years old.

Recent achievements recognized through this program have included: The development of fluorescent pigments; the legacy of Rachel Carson's *Silent Spring*; and the Mellon Institute of Industrial Research. For a complete list of National Historic Chemical Landmarks or more information about the nomination and selection process, visit [www.acs.org/landmarks](http://www.acs.org/landmarks) or contact the author at [landmarks@acs.org](mailto:landmarks@acs.org).

◇

What exactly goes on at NESACS' monthly Board meetings?  
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# Recollections of Henry A. Hill

*By Arnet L. Powell — From a talk given at the March 1982 meeting of the Northeastern Section on the occasion of the Third Henry A. Hill Award for Distinguished Service to the Northeastern Section.*

Dr. Henry A. Hill, the renowned chemist in whose memory this award was established, was a former Chairman of the Northeastern Section (1963) and President of the American Chemical Society in 1977. Henry's outstanding contributions to chemistry, particularly industrial chemistry, and to the professional welfare of chemists are legion, but unfortunately only a capsule review can be given here. Dr. Hill's first concern and interest was in his fellow humans and this was the driving force behind all that he did both in the chemical community and the world at large.

Henry Hill was a native of St. Joseph, Missouri. He was a graduate of Johnson C. Smith University in North Carolina and received the Ph.D. degree from M.I.T. in 1942, after getting the highest grades in his class. He began a professional career in industrial chemistry in that year, working largely with plastics, polymers, rubbers, adhesives and foams. In the early 1950's Henry became one of the founders of National Polychemicals, Inc., serving as Vice President of that firm for five years.

In 1961 Dr. Hill decided to start a company of his own, feeling strongly that this was the only way that he could justify his professional education and fulfill his personal ambitions in life. He told me in a private conversation at the time that he wanted to do more than just make a comfortable living in his chosen field; he wished to develop to the maximum extent possible his professional knowledge and expertise and do something worthwhile with it in the private sector. He founded Riverside Research Labora-

tory, Inc. in Cambridge, MA on a modest basis and in 1964 moved to larger quarters in the Haverhill, Massachusetts Industrial Park. I remember receiving a formal notice regarding this move in the form of a nicely printed card which exhibited the characteristic Henry Hill flair for originality. The card read "Riverside Research Laboratory is changing rivers: we are moving from the Charles in Cambridge to the Merrimack in Haverhill." The firm offered research, development and consulting services in resins, rubbers, textiles and plastics. Dr. Hill's clients included companies here and abroad.

In the latter category was the government of Trinidad, where Henry liked to combine business with a winter vacation in the sun. Riverside Research Laboratory introduced four successful commercial enterprises, including its own manufacturing affiliate. Dr. Hill, particularly after having been appointed by President Lyndon Johnson to the National Commission on Product Safety, became active in research and testing programs in the field of product flammability and product safety.

The American Chemical Society was always very close to Henry Hill's heart. His active career with the ACS began in the middle nineteen fifties in the Northeastern Section. He credited Edward R. Atkinson, the 1956 Chairman, as starting him on the road to the presidency of the American Chemical Society. Henry served on Northeastern Section committees, became a councilor in 1961 and was Chairman of the Section in 1963. He served the ACS in important National positions, including secretary and chairman of the Professional Relations Committee, the ACS Council; Policy Committee, the Board of Directors, and ultimately president in 1977. He made an especially significant impact in professionalism by pioneering establishment of a set of guidelines defining acceptable behavior for employers in their professional relations with chemists and chemical engineers. This effort resulted in the ACS landmark document entitled "Professional Employment Guidelines."

I now conclude my "Recollections of Dr. Henry A. Hill" with a few per-

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Technologies

# BMM Conference July 5-9, 2013

By Jack Driscoll, NESACS Public Relations Chair

BMM is an Indian cultural conference that is held in the US on a biannual basis.



The event was held at the Dunkin' Donuts Conference Center in Providence, RI on July 4-6, 2013.

This year several new elements were added to the agenda: an Indo-US Educators Summit at Northeastern University and a Business Conference on Entrepreneurship. The first BMM Indo-US Educators Summit was held from 5-9 July, 2013 at the Rhode Island Convention Centre, Providence, RI and Northeastern University, Boston, MA.

World-renowned speakers and distinguished educators from the US and India participated in this very important summit (<http://www.bmm2013.org/college.html>). Dr. Miranda Wu, President of the American Chemical Society (ACS) (<http://www.acs.org>), world's largest scientific society with 164,000 members, was a keynote speaker.

The goal of this summit was to support dialogue among academic institutions in India and the US to develop an understanding of educational cultures, approaches, and market needs in both countries; and to foster collaboration. This summit focused on the following areas to facilitate collaboration between the US & Indian educational institutions:

- Best Practices in Education (Philosophy, Quality, Collaboration)
- Nurturing Academic Success (through Consulting, Research, Industry Liaison)

- Indo-US Collaboration in Education – Potential, Opportunities & Challenges
- New Approaches to Education

The conference was kicked off by Bai Mahale:



## Business Conference on Entrepreneurship July 5, 2013

(<http://www.bmm2013.org/business.html>)

The Business Conference Chair was Dr. Mukund Chorghade, a serial entrepreneur, President and founder of Chorghade Enterprises and a member of the Northeastern Section of the American Chemical Society (NESACS <http://www.nesacs.org>).



*Mukund Chorghade + Jack Driscoll*

New products or services originate from ideas, but entrepreneurs take these ideas to higher levels. They not only build successful companies, but also create new markets, hire new employees, and provide valuable new products and services for the world markets. The panelists shared their experiences on what it took to build their products and companies from an idea, what mistakes many aspiring entrepreneurs may make and what business opportunities there are for aspiring entrepreneurs in the fields of Technology, Pharmaceuticals, Chemical Sciences and Electrical/Electronics Engineering.

There were five panelists from small and large companies who discussed various entrepreneurial experiences. The

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## BMM Conference

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moderator for the entrepreneurial panel was Santosh Salvi, an entrepreneur from NH with strong connections to India. Some additional background on the panelists can be found at: <http://www.bmm2013.org/panel-descriptions.html>



Jack Driscoll + Santosh Salvi

Makarand Gore, President and principal scientist at YewSavin, USA and AJ Organica India, Pvt. Ltd., talked about the differences between his experiences as a manager at Hewlett-Packard and the startup of his companies that specialize in advanced materials & pharmaceuticals. The audience was reasonably large (80 people) and very receptive even for these late afternoon talks.

Ranjeet Pawar, founder and CEO Sugee Developers, was trained in electrical engineering, but turned his talents into a real estate empire in India.

Mr. Ajay Bhagwat, another electrical engineer, started by licensing his first products, but quickly realized it was better to manufacture the products in his own company (Ranu Electronics) in India, which now employs 200 people.

Jack Driscoll, President of PID Analyzers and Public Relations Chair of NESACS, discussed Pioneering New Technologies. Photoionization was used as an example of developing a new technology and finding new environmental applications to market that product. A new Arsenic Analyzer for detecting ppt levels in food and water was described, and it was noted

# NESACS and Boy Scouts Bringing National Chemistry Week to Cape Cod

NESACS is working with The Cape Cod Council of the Boy Scouts of America to bring National Chemistry Week to Cape Cod.

**On Saturday, Oct. 26, 2013**, NESACS will be holding a Cape Cod Science Café at the Cape Cod and Islands Council Cub Scout-Boy Scout, *Wicked Cool Autumn Festival*. The location is at Camp Greenough Scout Reservation in Yarmouth Port for a full day of fun family activities.

<https://www.familyid.com/cape-cod-islands-council-boy-scouts-of-america/wicked-cool-autumn-welcome>

Event goes from 1:00 pm-5:00 pm and is held rain or shine. ♦

that PID Analyzers received an R&D 100 award (one of the 100 most significant technological developments in 2012) last week.

Denise Creech, Director, Div. of Management & Scientific Advancement, of the ACS talked about the entrepreneurial initiatives started in 2010 (<http://www.acs.org/content/acs/en/careers/profdev/entrepreneurialinitiative.html>). These include an entrepreneurial training courses, help with patents, and the ACS developed entrepreneurial initiative overview, which is a two year pilot program. She noted that the unemployment rate among chemists is 3.5% compared to the current unemployment number for the US of 7.7%. ♦

## Connections 2013

October 16, 2013

Burlington HS, Burlington, MA

The Northeastern Section of the American Chemical Society (NESACS) and the Education Committee of the Northeastern Section invite high school chemistry teachers to a program at Burlington High School (Burlington, MA) on Wednesday, October 16th, 3:30-8:00 PM. This program will help connect high school teachers with the numerous education resources that are available from the American Chemical Society. Four simultaneous hands-on workshops will illustrate these resources:

- Artificial Photosynthesis: A Workshop on Solar Cell Design (Dr. Jonathan Rochford, UMass Boston)
- Hands-on Climate Change Science for Your Classroom (Dr. Jerry A. Bell, ACS)
- Inquiring Minds Want to Know: Recent Lab Practicals from the US National Chemistry Olympiad (Mr. Steven Lantos, Brookline High School)
- TBD (Dr. Deyang Qu, UMass Boston)

**3:30** Registration and Refreshments

**4:00** Welcome and Overview

**4:30** Workshops

**6:15** Dinner and Keynote Address

**The deadline for registration is Friday, October 4, 2013.** The registration fee is \$20 and is non-refundable after October 7th. Workshop and program-related materials, dinner, a one-year subscription to ChemMatters, and a certificate for three hours of Professional Development will be provided to all workshop participants.

The detailed program and registration form can be obtained on the NESACS website ([www.nesacs.org](http://www.nesacs.org)) under Connections to Chemistry 2013.

For additional information, contact Dr. Marietta Schwartz, Chair, Education Committee, NESACS: marietta.schwartz@umb.edu. ♦



## Henry Hill Award

Continued from page 4

was twice its chair. His focus on the Committee was to emphasize public interest aspect as compared to other ACS awards which are for research excellence.

In 1996 through Obermayer's leadership NESACS was among the first local sections to set up its own website. This was shortly after the worldwide web had been introduced, and before most NESACS members had personal computers. He organized an Internet Task Force of experienced Section members working with the Board of Publications to insure that *The Nucleus* content also appeared on the web and that email announcements would be sent out. Obermayer received the 2009 Arno Heyn Book Prize recognizing his work with *The Nucleus* and the website.

Obermayer's related business, legislative, and other activities were described in his lecture given at NESACS Small Chemical Business Symposium, October 11, 2012 and reported in *The Nucleus*, December 2012, Volume XCI, No. 4, pp 8,9,12.

Dr. Obermayer founded Molecu- lon Research Corp., a chemical R & D company, in January 1961. A few weeks later at a monthly NESACS meeting, he met Dr. Henry A. Hill, who was also planning to start his own company, Riverside Research Laboratories. Dr. Hill joined Molecu- lon but continued to operate Riverside independently. For a number of years they ran a cooperative and mutually benefi- cial organization in Cambridge until Henry Hill moved Riverside from the Charles River to the Merrimac River in Haverhill. ◇

### What's Yours?

Many local employers post positions on the NESACS job board.

Find yours at  
[www.nesacs.org/jobs](http://www.nesacs.org/jobs)

## About Henry A. Hill

Continued from page 9

sonal reminiscences. At the Boston National ACS Meeting in April 1973, I attended on invitation a meeting of the Board Committee on Professional, Public and Member Relations chaired by Dr. Hill.

A discussion on Project Catalyst, a summer educational program for dis- advantaged high school students, took place. Henry was trying to set up a medium to raise more funds for this program. Former ACS President Alan Nixon responded with a twinkle in his eyes that he believed the project to be important enough to get out a white paper on it. Not to be outdone Henry Hill came right back with: "Yes, but it is my observation that every white paper must have a lot of black ink imprinted on it."

While studying at M.I.T., Dr. Hill came in contact with Prof. James Flack Norris who had an enduring influence on his career. Norris, besides being a great teacher, was noted for his decency and humanity. Henry later 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."

Years later, while Chairman of the Northeastern Section, Dr. Hill was instrumental in establishing the James Flack Norris Award in Physical Organic Chemistry. I am happy that I was able to assist Henry in this endeavor, presenting the first such award to Sir Christopher Ingold at the Atlantic City ACS meeting in 1965, during my tenure as Chairman of the Northeastern Section.

Finally, in the realm of hobbies and outside interests, I know that Henry Hill liked hot jazz and similar types of music. I remember one evening back in 1967, sitting with him and Dave Roethel in the night club just off the lobby of the Montmartre Hotel in Miami Beach, discussing ACS pro- fessional relations, or trying to, to the background of a very loud jazz band. After some time my aching ears prompted me to suggest moving to a quieter location. My suggestion was

met with surprisingly stiff reprimand by Henry, and there was nothing else to do but stay in the deafening environ- ment.

### Henry A. Hill Awardees

Henry A. Hill . . . . .	1980
Edward R. Atkinson . . . . .	1981
Robert D. Eddy . . . . .	1982
Arnet L. Powell . . . . .	1983
G. Richard Handrick . . . . .	1984
Janet S. Perkins . . . . .	1984
Phyllis A. Brauner . . . . .	1985
Arno H. A. Heyn . . . . .	1986
Sr. Magdalen Julie Wallace . . . . .	1987
Esther A. H. Hopkins . . . . .	1988
Wallace J. Gleekman . . . . .	1989
James U. Piper . . . . .	1990
Valerie Wilcox . . . . .	1991
Ernest I. Becker . . . . .	1992
Arlene W. Light . . . . .	1993
Truman S. Light . . . . .	1993
William O. Foye . . . . .	1994
Michael E. Strem . . . . .	1995
Alfred Viola . . . . .	1996
Mary T. Burgess . . . . .	1997
Michaeline F. Chen . . . . .	1997
David M. Howell . . . . .	1997
John L. Neumeyer . . . . .	1998
Morton Z. Hoffman . . . . .	1999
Catherine E. Costello . . . . .	2000
Myron S. Simon . . . . .	2001
Michael J. Hearn . . . . .	2002
Doris I. Lewis . . . . .	2003
Donald O. Rickter . . . . .	2004
Charles E. Kolb . . . . .	2005
Dorothy J. Phillips . . . . .	2006
Ruth Tanner . . . . .	2007
Michael Singer . . . . .	2008
E. Joseph Billo . . . . .	2009
Thomas R. Gilbert . . . . .	2010
Stephen A. Lantos . . . . .	2011
Michael P. Filosa . . . . .	2012
Arthur S. Obermayer . . . . .	2013 ◇

Q. Exactly, how many awards and scholarships does NESACS sponsor?

A) One    b) Two    c) Many

[www.nesacs.org/awards](http://www.nesacs.org/awards)

## Doris Lewis

Continued from page 8

dent E. Ann Nalley as part of her presidential initiative to recognize ACS volunteerism with an award that will continue in perpetuity at each regional meeting. The award consists of a plaque honoring the recipient with an imbedded medallion commemorating Dr. Nalley.

Within NESACS, Doris currently serves as the Chair of both the Phyllis A. Brauner Memorial Lecture Committee and the Government Affairs Committee, and is a member of the National Chemistry Week Committee and the James Flack Norris Award Committee. She has been a member of the NESACS Board of Directors since 1991 and represents the Section on the ACS Council. She has been the faculty advisor of the multiple award-winning Suffolk University Student Chapter for more than 35 years, and was the driving force for the establishment of the annual "Connections to Chemistry" workshop event for high school teachers that will celebrate its fourteenth anniversary on October 16 at Burlington (MA) High School. For her many contributions, she was recognized with the 2003 Henry A. Hill Award for Outstanding Service to NESACS and to the Profession of Chemistry.

At the national ACS level, Doris has served on the Committee on Chemistry and Public Affairs and is currently a member of the Committee on Public Relations and Communications. She has been a long-time participant in the ACS Legislative Summit on Capitol Hill, and is a tireless advocate for scientific research, STEM education, and entrepreneurial innovation in the statehouses of Massachusetts, New Hampshire, and New York.

As one of her nomination letters stated, "Doris Lewis has been and continues to be the consummate volunteer to the ACS. She is creative, resourceful, and dependable to the maximum. She does not shy away from challenges; indeed, she is energized by them. She is the model of what all who volunteer their time for the ACS should be." ◇

## IUPAC Prize Winner

Continued from page 8

Charles Lieber as his advisor. His thesis was entitled, "Nanowire Architectures for Next-Generation Solar Cells and Photonic Devices."

There were 43 applications from 15 different countries. The Prize Selection Committee was made up of members of the IUPAC Bureau with a wide range of expertise in chemistry, and was chaired by Prof. Nicole Moreau, IUPAC Past President. The winners of the prizes received cash awards of \$1,000 and travel expenses to the 44<sup>th</sup> IUPAC World Chemistry Congress in Istanbul, August 8-15, 2013, where the awards were presented during the opening ceremonies. Each prizewinner was also invited to present a poster at the Congress that described the award-winning work, and to submit a short critical review on aspects of the research topic for publication in *Pure and Applied Chemistry*.

Details about Dr. Kempa's work can be found at <[www.iupac.org/news/cont/2013/thomas-kempa.html](http://www.iupac.org/news/cont/2013/thomas-kempa.html)>. ◇

### CAREER DEVELOPMENT

Being an active participant in NESACS activities will enable you to network with major institutions and corporations in our area and can open up new career opportunities.

The NESACS Board of Publications, which is responsible for both the *Nucleus* newsletter and the NESACS website, is looking to increase its activities in this arena.

We would like to expand our capabilities for keeping our membership informed on what is happening in our field and how to adapt to changing times and new technologies.

You can help us do that. All we ask of you is a few hours a month and a smile.

Call or email to see what opportunities are available.

contact -- Vivian Walworth  
NESACS Board of Publications  
Phone - 978-369-3735

Email [vwalworth@comcast.net](mailto:vwalworth@comcast.net)

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## Calendar

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<http://www.NESACS.org>

Note also the Chemistry Department web  
pages for travel directions and updates.

These include:

<http://www.bc.edu/schools/cas/chemistry/seminars.html>

<http://www.bu.edu/chemistry/seminars/>

<http://www.brandeis.edu/departments/chemistry/events/index.html>

<http://www.chem.harvard.edu/courses/seminars.php>

<http://chemcalendar.mit.edu/index.php>

<http://chem.tufts.edu/seminars.html>

<http://engineering.tufts.edu/chbe/newsEvents/seminarSeries/index.asp>

<http://www.chem.umb.edu>

<http://www.umassd.edu/cas/chemistry/>

<http://www.uml.edu/Sciences/chemistry/Seminars-and-Colloquia.aspx>

<http://www.unh.edu/chemistry/events>

### Oct 02

Prof. Amanda Bryant-Friedrich (Univ. of Toledo)  
“Chemical toxicology of endogenously  
generated oxygen species and their role in cancer  
etiology”  
Northeastern, 129 Hurtig Hall  
12 noon

### Oct 03

Prof. Sharon Hammes-Schiffer (Univ. of Illinois)  
Boston College, Merkert 130  
4:00 pm

Prof. Sarah Reisman (Caltech)  
M.I.T., 6-120  
4:15pm

### Harvard-MIT Physical Chemistry Seminar

Prof. Ralph Nuzzo (U. of Illinois)  
Harvard, Pfizer Lecture Hall  
5:00pm

Prof. Ellen Yeziarski (Miami U. of Ohio)  
U. New Hampshire, Rm N104 (L103)  
11:10am

### Oct 07

Prof. Paul Champion (Northeastern Univ.)  
Brandeis, Gerstenzang 122  
4:00 pm

Prof. Tarun Kapoor (Rockefeller U.)  
Harvard, Pfizer Lecture Hall  
4:15pm

Prof. Harald Schwalbe (U. of Frankfurt)  
M.I.T., 56-114  
4:00 pm

### Oct 08

Prof. Geoffrey W. Coates (Cornell Univ.)  
Boston College, Merkert 130  
4:00 pm

Prof. Christine Thomas (Brandeis U.)  
“Characterization and Applications of Metal-  
Metal Interactions in Heterobimetallic  
Complexes”  
U. New Hampshire, Rm N104 (L103)  
11:10am

### Oct 09

Prof. Wayne Curtis (Penn State)  
“Green (and Red) Chemistry for Biofuels”  
Northeastern, 129 Hurtig Hall  
12 noon

### Oct 10

Prof. Xiaoyang Zhu (Columbia Univ.)  
Harvard, Pfizer Lecture Hall  
4:15pm

Dr. Xiaoxuan Shen (Celgene)  
U. New Hampshire, Rm N104 (L103)  
11:10am

### Oct 14

Prof. Clay Bennett (Tufts Univ.)  
“Reagent-Controlled Approaches to  
Stereoselective Glycosylation Reactions”  
Brandeis, Gerstenzang 122  
4:00 pm

### Oct 17

Prof. Sara E. Skrabalek (Indiana Univ.)  
Boston College, Merkert 130  
4:00 pm

### Oct 21

Prof. John Pojman (Louisiana State Univ.)  
“Cure-On-Demand Polymerizations”  
Brandeis, Gerstenzang 122  
4:00 pm

### Oct 22

Prof. Scott Rychnovsky (UC – Irvine)  
Boston College, Merkert 130  
4:00 pm

Prof. Haifeng Gao (Univ. of  
Notre Dame)  
Northeastern  
time and location TBA

### 23 Oct

Prof. Flora Meilleur (NC State and  
Oak Ridge National Laboratory) “Locating  
Hydrogen Atoms in Enzymes Using Neutron  
Protein Crystallography”  
Northeastern, 129 Hurtig Hall 12 noon

### Oct 24

Prof. David Reichman (Columbia Univ.)  
Boston College, Merkert 130  
4:00 pm

### Merck-Banyu Lecture

Prof. Mamoru Tobisu (Osaka Univ.)  
M.I.T., 6-120  
4:15pm

Dr. Richard Newman (Boston MFA)  
U. New Hampshire, Rm N104 (L103)  
11:10am

### Oct 25

#### Merck-Banyu Lecture

Prof. Mamoru Tobisu (Osaka Univ.) “Catalytic  
Transformation of Strong sigma-bonds: from  
New Cross-Coupling to Heterocycle Synthesis.”  
Harvard, Pfizer Lecture Hall  
4:15pm

### Oct 28

Prof. Dennis Selkoe (Harvard Medical School)  
Brandeis, Gerstenzang 122  
4:00 pm

Prof. Katharina Ribbeck (M.I.T.)  
M.I.T., 56-114  
4:00 pm

### Oct 30

Dr. Ralph Scully (Beth Israel Deaconess Medical  
Center)  
“Mechanisms of homologous recombination and  
cancer: opportunities for therapy”  
Northeastern, 129 Hurtig Hall  
12 noon

### Oct 31

Prof. Zvonimir Dogic (Brandeis U.)  
Harvard, Pfizer Lecture Hall  
4:15pm

Prof. Ron White (Dartmouth College)  
U. New Hampshire, Rm N104 (L103)  
11:10am

## Notices for The Nucleus Calendar of Seminars should be sent to:

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