

# THE NUCLEUS

November 2013

Vol. XCII, No. 3



## Monthly Meeting

*Norris Award to Melanie Cooper at Holiday Inn -  
Bunker Hill*

## NESACS Wins Chemluminary Award

## Summary of Governance Actions and Reports

*246th National ACS Meeting, Indianapolis, Indiana*

## James Flack Norris



# Northeastern University

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|      |   |
|------|---|
| 5610 | Polymer Chemistry                               |
| 5616 | Protein Mass Spectrometry                       |
| 5620 | Protein Chemistry                               |
| 5621 | Principles of Chemical Biology for Chemists     |
| 5625 | Chemistry and Design of Protein Pharmaceuticals |
| 5628 | Spectroscopy of Organic Compounds               |
| 5638 | Molecular Modeling                              |
| 5651 | Materials Chemistry of Renewable Energy         |
| 5652 | Fundamental Science of Photovoltaics            |
| 5660 | Analytical Biochemistry                         |
| 5672 | Organic Synthesis II                            |
| 5676 | Bioorganic Chemistry                            |
| 7247 | Advances in Nanomaterials                       |

Additional courses will be offered in the fall semester.

**New students to the program must complete an application for admission.**

For additional information contact:

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Department of Chemistry & Chemical Biology  
Northeastern University, Boston, MA 02115  
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[c.shockley@neu.edu](mailto:c.shockley@neu.edu)

<http://www.northeastern.edu/chemistry//>

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*Term Ends 12/31/2013*

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*Term Ends 12/31/2014*

|                   |                  |
|-------------------|------------------|
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*Term Ends 12/31/2015*

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*To be held at Holiday Inn - Bunker Hill.*

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*The Award and the Man*

**Cover:** NESACS and SCHB (Small Chemical Business Division) receiving their ChemLuminary Award at the Ceremony on September 10, 2013. L to R: Mike Morello, DAC; Sharon Vercellotti, SCHB Councilor; Jennifer Maclachlan\*, SCHB PR Chair; Joseph Sabol, SCHB Program Chair; Stan Seelig, SCHB Chair; Mukund Chorghade\*, SCHB Immediate Past Chair; Mitchell Bruce, LSAC Chair; Jack Driscoll\* NESACS PR Chair; Tom Barton, 20113 ACS President-elect. See article on page 6 for more detail. (Photo by Morton Z. Hoffman). \*NESACS Member

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

## THE NUCLEUS

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# Call for Abstracts!

*12<sup>th</sup> Annual Undergraduate Symposium on Sustainability and the Environment*

Saturday, December 7, 2013

9:00 AM – 3:00 PM

Bridgewater State University  
Conant Science and Math Center

Please join us at the only symposium dedicated to undergraduate environmental research, and projects that address sustainability issues from a campus, regional, national, or global perspective. Undergraduate research posters (including completed, in progress, and proposed research) in all environmental disciplines are welcome. Abstract submission is open to all undergraduate students at <http://www.bridgew.edu/Environmental>.

**Abstract submission deadline is Wednesday, November 20.** Please email questions to Ed Brush ([ebush@bridgew.edu](mailto:ebush@bridgew.edu)) ◇

# NESACS Members Named 2014 ACS Awardees

The following members of the Northeastern Section have been designated as recipients of awards administered by the American Chemical Society for 2014. Vignettes of all the award recipients will appear in *C&EN* in early 2014. Recipients will be honored at the Awards Ceremony on Tuesday, March 18, 2014, in conjunction with the 247<sup>th</sup> ACS National Meeting in Dallas.

*ACS Award for Creative Work in Synthetic Organic Chemistry* sponsored by Aldrich Chemical Co. LLC, **Amir H. Hoveyda**, Boston College.

*Arthur C. Cope Award* sponsored by the Arthur C. Cope Fund, **Stuart L. Schreiber**, Howard Hughes Medical

Institute, Harvard University, and the Broad Institute.

*Priestley Medal* sponsored by ACS, **Stephen J. Lippard**, Massachusetts Institute of Technology.

In addition, **Matthew S. Platz**, University of Hawaii, Hilo, will receive the *James Flack Norris Award in Physical Organic Chemistry* sponsored by the ACS Northeastern Section.

**Melanie Cooper**, Michigan State University, the recipient of the 2013 James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry from NESACS, will receive the *ACS Award for Achievement in Research for the Teaching and Learning of Chemistry* sponsored by Pearson Education. ◇

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## 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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# Monthly Meeting

*The 935<sup>th</sup> Meeting of the Northeastern Section of the American Chemical Society*

**Presentation of the James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry**

**Thursday, November 14, 2013**

**Holiday Inn - Bunker Hill,**

30 Washington Street, Somerville, MA 02143 (800)-972-3381

**4:30 pm** Board Meeting

**5:30 pm** Social Hour

**6:15 pm** Dinner

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

*Presentation of Arno Heyn Memorial Book Prize*

Mary Mahaney, Chair, NESACS Board of Publications

*Reflections on James Flack Norris*

Ken Mattes, NESACS Archivist

*Introduction of Norris Award Recipient*

Marcy Towns, Purdue University

*Presentation of Norris Award*

Mary Jane Shultz, Chair, Norris Award Committee

*Norris Award Address:*

***Chemistry, Life, the Universe and Everything***

**Professor Melanie Cooper**, Department of Chemistry,  
Michigan State University, Lansing, MI

Dinner reservations should be made no later than noon, Wednesday, November 6. 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.

THE PUBLIC IS INVITED

**Directions to Holiday Inn-Bunker Hill:**

<http://www.ihg.com/holidayinn/hotels/us/en/somerville/bossv/hoteldetail>

**By Auto:** From I-93 North take exit 28, Charlestown/Somerville. Stay in left lane on ramp. Turn left onto Washington Street. Hotel is 3 blocks ahead.

**By Train:** From North Station, below the TD Garden Arena. Distance: 1.0 Mile EAST to Hotel. Complimentary Shuttle Available.

**By MBTA:** Sullivan Station-Orange Line. Distance: 0.2 Mile EAST to Hotel. Complimentary Shuttle Available

Turn left from hotel parking lot. Immediate right onto Washington Street. 2 blocks to Sullivan Square Subway Station on left.

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# Biography



Melanie Cooper received her B.S., M.S. and Ph.D. from the University of Manchester, England.

In January 2013 she moved to Michigan State University as the Lapan-Phillips Professor of Science Education and Professor of Chemistry, from her previous position as Alumni Distinguished Professor of Chemistry at Clemson University.

Her appointment at Clemson was ground-breaking, not only at Clemson but nationally, in that it was one of the first tenure track appointments in chemistry education in a chemistry department. Her Discipline-Based

*continued on page 12*

## Abstract:

*Chemistry, Life, the Universe and Everything*

Chemistry is a fascinating science, it plays a central role in scientific understanding, and yet it has something of an image problem. General Chemistry is the university course where many students begin – and end – their college level chemistry education. It is where many teachers of physical science and chemistry learn most of their relevant chemistry, and as such is the course with the greatest impact on the public perception, knowledge and understanding of chemical principles.

However, the structure of the traditional general chemistry course does not appear to be effective for promot-

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# NESACS Wins ChemLuminary Award

By Morton Z. Hoffman

The award for an Outstanding Collaboration Between a Local Section and a Division during 2012 was presented to NESACS and the Division of Small Chemical Businesses (SCHB) at the ChemLuminary Ceremony on September 10, 2013, at the ACS National Meeting in Indianapolis. The award, which is given by the Committee on Local Section Activities (LSAC) and the Committee on Divisional Activities (DAC), recognizes “outstanding collaboration between an ACS local section and a division.”

The specific event that was recognized was the small chemical business symposium held on October 11, 2012, at Nova Biomedical Corp. in Waltham prior to the NESACS Monthly Meeting. According to Jennifer Maclachlan (SCHB Public Relations Chair), “A number of startup stories were presented, including programs involving

SBA and conventional lending, the ACS Program for Entrepreneurs, opportunities from the Massachusetts Small Business Development Center, and dilutive and non-dilutive equity funding.” The symposium was described in detail in the December 2012 *Nucleus*.

Jack Driscoll (NESACS Public Relations Chair) and Mukund Chorghade (SCHB Immediate Past Chair) joined Maclachlan in accepting the award on behalf of NESACS and SCHB in the presence of Mike Morello (DAC), Sharon Vercellotti (SCHB Councilor), Joseph Sabol (SCHB Program Chair), Stan Seelig (SCHB Chair), Mitchell Bruce (LSAC Chair), and Tom Barton (2013 ACS Chair-Elect).

The Northeastern Section was also a finalist in four other award categories for its activities based on self-nomina-

tions in its annual report for 2012, which was generated by Ruth Tanner, NESACS Chair that year: Outstanding Continuing Public Relations Program of a Local Section (Committee on Public Relations and Communications), Outstanding High School Student Program (Society Committee on Education), Local Section Partnership Award (LSAC), and Outstanding Performance by a Local Section in the Very Large Category with more than 3,200 members (LSAC). The winners in those categories were the Georgia, New York, Indiana, and New York Local Sections, respectively.

The NESACS Continuing Public Relations Program nomination included new social media communications, press releases, Science Cafés, and public outreach events. The nomination for the High School Student Program cited the High School Science Series event at the Museum of Science Boston during National Chemistry Week, the annual “Connections to Chemistry” workshop event for high school teachers, and the Chemistry Olympiad activities. The LSAC/DAC

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## ACS ENTREPRENEURIAL RESOURCES CENTER SHOWCASE EAST

**THURSDAY, NOVEMBER 14, 2013**

**Nova Biomedical Corporation**

200 Prospect Street, Waltham MA, 02254-9141

**ENTREPRENEURS:** ACS is organizing this one-day event to help you introduce your chemistry-based technologies or product opportunities to potential investors or partners. During this event, twenty (20) slots will be available for 15-minute investment or partnering pitches. You can apply to present by completing this "Investor Readiness Questionnaire" at: [Showcase East Presenter Application](#). **Applications must be received by October 2, 2013.** Applications are competitively scored for investor or partner readiness.

**INTERESTED INVESTORS OR PARTNERS:** you can participate live or online. You will receive an ACS ERC Showcase East Presenter Book containing executive summaries and presenter information before the event. Presentations are likely to offer therapeutic, diagnostic, greentech, and renewable energy opportunities, to name a few. If interested, please contact Ken Polk directly at [k\\_polk@acs.org](mailto:k_polk@acs.org) and indicate your preference for live or online participation by **October 31, 2013**. Credentials to participate will be provided to you.

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### PRELIMINARY PROGRAM

#### Day (By Invitation Only)

8:00 a.m. - 5:00 p.m. Business Plan Presentations

#### Evening (Free & Open to the Public)

5:00 p.m. - 6:15 p.m. ACS/NESACS Reception & Networking (refreshments provided by ACS)

6:15 p.m. - 7:30 p.m. Announcement of ACS Best-Pitch Award & Presentation by Award Winner; Entrepreneur Panel Discussion

7:30 p.m. - 8:30 p.m. Networking Continued

Please register at: <http://acsercshowcaseeast.eventbrite.com/>

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*The American Chemical Society's Entrepreneurial Resources Center is part of the Society's Entrepreneurial Initiative – a 2-year pilot member program – with the mission of leveraging the Society's information resources, professional relationships, member technical expertise, and connections with sources of funding and larger chemical innovators toward the commercialization of promising chemical technologies and the growth of U.S.-based chemistry jobs.*

# SUMMARY OF GOVERNANCE ACTIONS and REPORTS

American Chemical Society

246<sup>th</sup> ACS National Meeting

Indianapolis, Indiana

September 8-12, 2013

## ACTIONS OF THE COUNCIL

### **Election Results:**

The Committee on Nominations and Elections presented to the Council the following slate of candidates for membership on the **Committee on Committees** beginning in 2014: Mitchell R. M. Bruce, Janet L. Bryant, Dee Ann Casteel, Amber S. Hinkle, Wayne E. Jones, Jr., V. Michael Mautino, Jason E. Ritchie, Sharon P. Shoemaker, Russell W. Johnson, and Ralph A. Wheeler. By electronic ballot, the Council elected Janet L. Bryant, Dee Ann Casteel, Amber S. Hinkle, Wayne E. Jones, Jr., and V. Michael Mautino for the 2014-2016 term.

The Committee on Nominations and Elections presented to the Council the following slate of candidates for membership on the **Council Policy Committee** beginning in 2014: Harmon B. Abrahamson, Arindam Bose, Judith H. Cohen, Alan M. Ehrlich, Martha G. Hollomon, Paul J. Smith, Ellen B. Stechel, and Angela K. Wilson. By electronic ballot, the Council elected Harmon B. Abrahamson, Judith H. Cohen, Alan M. Ehrlich, and Angela K. Wilson for the 2014-2016 term.

The Council Policy Committee presented to the Council the following slate of candidates for membership on the **Committee on Nominations and Elections** beginning in 2014: Lisa M. Balbes, Jeannette E. Brown, Martha L. Casey, Dwight W. Chasar, D. Richard Cobb, Catherine E. Costello, Lissa Dulany, Kevin J. Edgar, Paul W. Jagodzinski, and Robert A. Pribush. By electronic ballot, the Council elected Lisa M. Balbes, Jeannette E. Brown, Martha L. Casey, D. Richard

Cobb, and Lissa Dulany for the 2014-2016 term.

### **Candidates for President-Elect and Board of Directors:**

The candidates for the fall 2013 ACS national election were announced as follows:

#### Candidates for President-Elect, 2014

- **Dr. G. Bryan Balazs**, Associate Program Leader, Lawrence Livermore National Lab, Livermore, CA
- **Dr. Charles E. Kolb, Jr.**, President and CEO, Aerodyne Research Inc., Billerica, MA
- **Dr. Diane Grob Schmidt**, Section Head R&D, The Procter & Gamble Company, Cincinnati, OH

#### Candidates for Directors-at-Large, 2014-2016 (two will be elected)

- **Dr. Susan B. Butts**, Independent Consultant, Susan Butts Consulting, Midland, MI
- **Dr. Thom H. Dunning, Jr.**, Director, National Center for Supercomputing Applications and Professor, Distinguished Chair for Research, University of Illinois at Urbana-Champaign, Urbana, IL
- **Dr. Dorothy J. Phillips**, Retired, Waters Corporation, Milford, MA
- **Dr. Kathleen M. Schulz**, President, Business Results, Inc., Albuquerque, NM

#### Candidates for District II Director, 2014-2016

- **Dr. George M. Bodner**, Arthur Kelly Distinguished Professor of Chemistry Education and Engineering, Purdue University, West Lafayette, IN

- **Dr. Alan A. Hazari**, Director of Chemistry Labs and Lecturer, University of Tennessee, Knoxville, TN

#### Candidates for District IV Director, 2014-2016

- **Dr. Rigoberto Hernandez**, Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA
- **Dr. Larry K. Krannich**, Professor Emeritus of Chemistry, University of Alabama, Birmingham, AL

### **Committee Reviews:**

As part of a regular committee performance review, the Council voted to continue the joint Board-Council Committee on International Activities and the Council Other Committee on Nomenclature, Terminology and Symbols. Continuation of the Committee on International Activities also requires Board of Directors concurrence.

### **Committee Charters Approved:**

The Council voted to approve amendments to the charters of the committees on International Activities and on Nomenclature, Terminology and Symbols.

### **Committee Reports (Highlights): Society Committee on Education**

SOCED recognized the achievement that is present in the Next Generation Science Standards, including their basis in research on teaching and learning, their formulation as performance standards, and their basis in the NRC framework and its dimensions of Science and Engineering Practices, Disciplinary Core Ideas, and Cross Cutting Concepts. SOCED supported the Standards as a document that is broadly applicable as a basis for K-12 science



instruction and called upon the Society to develop innovative programming to support the implementation of the Standards.

### Standing Committee on Economic and Professional Affairs (CEPA)

Committee on Economic and Professional Affairs reported that employment is up and unemployment is down for ACS chemists. The complete review of the Comprehensive Salary Survey will appear in the September 23 issue of *C&EN*.

### Project SEED

The Committee on Project SEED needs mentors in Alaska, Arkansas, Connecticut, Hawaii, Maine, Nebraska, Nevada, New Mexico, North Dakota, Rhode Island, South Dakota, Utah, Washington, and Wyoming. Contact Cecilia Hernandez ([c\\_hernandez@acs.org](mailto:c_hernandez@acs.org)) for more information.

### Realignment of Electoral Districts:

ACS Bylaws require that the six electoral districts – from which six directors are elected to the ACS Board of Directors – be balanced in their total member populations. The Council

voted to approve a proposal by the Committee on Nominations and Elections to realign these districts. The realignment meets the specified criteria for redistricting as required by Bylaw V, Section 4a and brings all six districts within permissible population range. This change takes place in 2014 and does not affect the 2013 national ACS elections. Councilors and others may visit the N&E website to look at the actual proposal and its impact.

### Meeting Registration Report:

As of the morning of September 11, 2013, the ACS fall national meeting had attracted 10,840 registrants, including 6,630 regular attendees and 2,584 students.

### Local Sections:

The Council voted, on the recommendation of the Committee on Local Section Activities (LSAC), to approve a request from the Syracuse Local Section to change its name to the Central New York Local Section. Council also approved a recommendation from LSAC that the Monmouth County Local Section (in New Jersey) be dissolved, effective January 1, 2014, due

to a decline in activity over the last several years. The North Jersey Local Section has contacted LSAC and will submit a petition in 2014 to annex the Monmouth County territory.

### Divisions:

After much debate, a proposed name change for the Division of Colloid and Surface Chemistry to the Division of Colloids, Surfaces, and Nanomaterials was defeated by the Council in a close vote.

### Special Discussion Item:

A special discussion item was put on the Council agenda for this meeting. ACS President Marinda Wu presented and moderated a discussion on “What can we – as the Society and as individual citizens – do to help create jobs or demand for chemists?” She shared five recommendations from the presidential task force “Vision 2025: Helping ACS Members to Thrive in the Global Chemistry Enterprise” and what they might imply for our efforts to help create jobs: discover and share information about the skills and competencies that a wide range of employ-

*continued on page 10*

## Evaluate, Educate, Explore



**PITTCON**  
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- Lifelong Teaching and Learning in Separation Science

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## Governance

*Continued from page 9*

ers will need; continue to expand resources which help our members to position themselves for successful careers in the global chemistry enterprise; enable entrepreneurs to create and strengthen their startups that hire chemistry professionals; advocate for policies that improve the business climate and promote the creation of chemistry jobs; and work with other stakeholders to understand and influence the supply and demand of chemists and jobs. Following the presentation, numerous Councilors engaged in a discussion of this focused topic on possibilities to encourage jobs creation and offered several suggestions.

### **ACTIONS OF THE BOARD OF 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 and Working Groups:**

The Board of Directors received re-

## 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.

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) ◇

ports from its committees on Planning, Executive Compensation, Grants and Awards (G&A), Budget and Finance (B&F) and the working group on Society Program Portfolio Management.

The Board held a lengthy strategic issue discussion on the topic "Connecting Chemists with Each Other." It considered what the role of ACS should be in helping chemists develop relationships with other chemists and the strategies that enable those relationships; how these strategies encourage and support younger and international members; and how these strategies develop relationships to leverage the

world renowned chemists/innovators that comprise our membership.

On the recommendation of the Committee on Grants and Awards, the Board voted to approve Society nominations for the National Science Board's Public Service Award and the National Science Foundation's (NSF) Alan T. Waterman Award. The National Science Board's Public Service Award honors individuals and groups that have made substantial contributions toward increasing public understanding of science and engineering in the US. The Alan T. Waterman Award recognizes an outstanding young researcher in any field of science or engineering supported by the NSF.


The working group on Society Program Portfolio Management briefed the Board on its activities. The working group is charged with delivering a process for portfolio management of Society programs in the divisions of Membership and Scientific Advancement, Education, and the Office of the Secretary and General Counsel (Office of Public Affairs) and pilot programs.

The Board received a briefing and approved a recommendation from its Committee on Executive Compensation. The compensation of the Society's executive staff receives regular review from the Board.

On the recommendation of the Committee on Budget and Finance (B&F), the Board voted to approve an advance member registration fee of \$380 for national meetings held in 2014. The Board also voted to reauthorize funding in next year's proposed budget for the ACS International Center, and the ACS Entrepreneurial Initiative, and to authorize funding for a new initiative, the National Association of Chemistry Teachers (NACT). This association will be an ACS program to provide teachers a professional home. Through NACT they will have access to specialized resources and the broader ACS community.

The Board confirmed the recommendation of the ACS Executive Director/CEO of the new President of Chemical Abstracts Service (CAS).

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# James Flack Norris: The Man and The Award

The James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry pays tribute to outstanding contributions to the field of chemical education and in so doing honors the memory of a distinguished teacher of chemistry: James Flack Norris.

**The Award:** The Norris Award is one of the oldest national awards of the American Chemical Society and is presented annually by the Northeastern Section. The recipient is selected from an international list of nominees who have served with special distinction as teachers of chemistry at any level and whose efforts have had a wide-ranging effect on chemical education. The award has been given for a wide variety of achievements: for outstandingly effective textbooks, lecture demonstrations, or laboratory experiments, for editing the Journal of Chemical Education, for developing the Chemical Educational Material Study Project, or for new ways to teach laboratory courses in chemistry. Always, and this is of the utmost importance, the specific achievement must be coupled with dedicated teaching of chemistry at the graduate, undergraduate, or high school level. The award consists of a citation and an honorarium.

**The Man:** James Norris was born in 1871 in Baltimore. He was the fifth of nine children and attended schools in that city and in Washington, D.C. His collegiate career started at Johns Hopkins University, from which he graduated with an A.B. degree, Phi Beta Kappa, in 1892. He was strongly attracted by the great Ira Remsen and consequently decided to carry out his graduate studies at Johns Hopkins where he investigated complex compounds of selenium and tellurium. In 1895 he obtained his Ph.D. After graduation, Professor Norris served in the Chemistry Department of M.I.T. In 1904 he then moved to the newly founded Simmons College to become its first Professor of Chemistry and to

head its School of Science. He remained at Simmons until 1915 except for 1910-11 when, feeling the need for more physical chemistry, he spent a sabbatical with Fritz Haber at Karlsruhe. After one year at Vanderbilt University, Norris returned to M.I.T. where he remained for the next 24 years as an enthusiastic and successful teacher of chemistry. On February 4, 1902 he was married in Washington, D.C. to Anne Bent Chamberlin, daughter of an Army Captain. They had no children. Professor Norris died in Cambridge, Massachusetts on August 4, 1940.

In 1916 Norris was a member of the Naval Consulting Board and during World War I he served as a Lt. Colonel in the Chemical Warfare Service. After the war, he served for ten years as vice chairman and chairman of the Division of Chemistry and Chemical Technology of the National Research Council.

Although serious when the occasion called for it, the debonair Norris was known as "Sunny Jim" to a host of friends who found him a jovial companion.

His activities in the ACS were many: Chairman of the Northeastern Section in 1904 and President of the National Society in 1925 and 1926. As President of the Society, he did much to improve and clarify the finances of the society. He was also active in the National Research Council and in IUPAC, serving as vice president of the latter from 1925-28. He was an honorary member of the Rumanian Chemical Society and of the Royal Institute of Chemistry in Great Britain. In 1937, he received the gold medal of the American Institute of Chemists for "outstanding service as a teacher and as an investigator." Norris was one of the first chemists to study the structure-reactivity relationship of organic compounds on a systematic basis. Between 1912 and 1922 he authored four influential textbooks in

inorganic and organic chemistry. The income from those texts, at least in part, formed the foundation of the bequest from Mrs. Norris to the Northeastern Section in 1948. The purpose of this bequest, to quote the will of Mrs. Norris, is "to keep green the memory of James Flack Norris."

The Norris Fund has grown over the years with judicious management by the Trustees of the Northeastern Section. From its income the Section sponsors two James Flack Norris Awards: the James Flack Norris Award in Physical Organic Chemistry, administered by the National ACS, and the James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry. Tonight's recipient joins a distinguished group of predecessors.

*\*Taken from the biographical memoir of James Flack Norris by John D. Roberts and from the biography of James Flack Norris given by Joseph Bornstein at the presentation of the James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry. ◇*

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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)

## Biography

*Continued from page 5*

Education Research has focused on improving teaching and learning in large enrollment, introductory chemistry courses, including general and organic chemistry.

She has investigated how students learn to construct and use representations, problem solving, conceptual understanding, and development of practices such as argumentation and meta-cognition, and has collaborated with researchers in chemistry education research and other fields - from molecular biology, to the cognitive sciences and computer science. She was a member of the inaugural class of American Chemical Society Fellows and is a Fellow of the AAAS. She is a past chair of the ACS Division of Chemical Education, and the Western Carolinas Local Section. She is a member of the Leadership team for the Next Generation Science Standards (NGSS), and the NRC Board on Science Education (BOSE). She has received a number of teaching awards, including the 2010-2011 the Society for College Science Teachers (SCST) Outstanding Undergraduate Science Teacher Award (OUSTA). ◇

## Abstract

*Continued from page 5*

ing deep conceptual understanding or an interest and pleasure in learning chemistry. There have been numerous calls for reform of chemistry education: white papers have been issued, committees convened, curricula developed, and tests written, yet few are satisfied with the outcomes and little seems to have changed. Is there hope? We believe so. This presentation will focus on how and why an understanding of basic chemistry concepts is important for everyone, and how we might change our approach to chemistry education to achieve a deeper understanding and appreciation for chemistry. ◇

## Governance

*Continued from page 10*

He is Manuel (Manny) Guzman, most recently Executive Vice President of Learning and Research Solutions of Cengage Learning. Mr. Guzman succeeds Robert J. Massie, who is retiring after leading CAS with great distinction and success for 21 years and is retiring in March 2014. Mr. Guzman will begin September 30. Mr. Massie will assist in the transition when he returns from medical leave.

### **The Executive Director/CEO Report:**

The Executive Director/CEO and her direct reports updated the Board on the following: highlights and high-level recommendations on the ACS global presence; and the activities of CAS (Chemical Abstracts Service) and the ACS Publications Division. As a follow-up to the Publications report, the Board voted to approve one journal editor appointment and several editor re-appointments.

### **Other Society Business:**

The Board also voted to hold the December 2015 Board of Directors meeting in Honolulu, Hawaii, in conjunction with the 2015 International Chemical Congress of Pacific Basin Societies (Pacifichem). The ACS is the host society for the 2015 Pacifichem meeting, and co-location will allow Board members to participate in this very successful Pacifichem meeting.

Finally, the Board received reports from the Presidential Succession on their current and planned activities for the remainder of 2013 and 2014.

### **ADDITIONAL INFORMATION**

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.

[www.my.acs.org](http://www.my.acs.org)

Showcases stories and photos submitted by members describing what best defines their ACS membership experience. If your story is selected, you receive a T-shirt.

[www.acs.org/councilors](http://www.acs.org/councilors)

The ACS Councilors Handbook sets

## ChemLuminary Award

*Continued from page 6*

award that was received recognized the partnership of NESACS with SCHB. For the Outstanding Performance nomination, the wide array of NESACS programs, activities, and projects were presented as well as the numerous awards and recognitions received by its members, graduate students, and undergraduate student chapters. ◇

out reasonable lists of duties and expectations of Councilors, their role in governance, and information on governance organization and operations.

[www.acs.org/getinvolved](http://www.acs.org/getinvolved)

ACS offers many ways to get involved at the local, regional, and national levels. There are opportunities for everyone, whether you are a student, just starting your career, or a seasoned professional.

[www.acs.org/cta](http://www.acs.org/cta)

Information about the Committee on Technician Affairs and its fiftieth anniversary will be posted here.

[www.ACS.org/ChemistryAmbassadors](http://www.ACS.org/ChemistryAmbassadors)

Visit the Chemistry Ambassadors website for ideas and resources to engage your community with positive messages about chemistry.

[bylaws@acs.org](mailto:bylaws@acs.org)

If you are a Councilor who has not yet committed to service on an ACS committee and would like to try Constitution and Bylaws, to make an impact on the Society's governing documents and unit bylaws, please send an email.

[careers@acs.org](mailto:careers@acs.org)

A revision of the Professional Employment Guidelines is in the Council Agenda Book for consideration (page 95). Send revisions or comments by November 1, 2013. ◇



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## NESACS Archives Have Moved

The NESACS Archives were moved from their location of many years in the basement of the Regis College Library to a new temporary location at Sigma-Aldrich Corporation in Natick, MA. A more permanent long-term storage location is desired.

NESACS expresses great appreciation to Regis College for allowing NESACS to store its archives in its library. NESACS is further appreciative of Michael Singer and Sigma-Aldrich for making storage space available while a more permanent solution is sought. ◇

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- We have more activities than any other Section.
- The Nucleus has been voted at several ACS National meetings to be the best Section newsletter.
- We are expanding Nucleus and NESACS web site coverage of activities.

**The Following positions are open**

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5. Volunteer Coordinator

If you would like to be active in this vibrant organization, please contact Board of Publications member Vivian Walworth [vwalworth@comcast.net](mailto:vwalworth@comcast.net)

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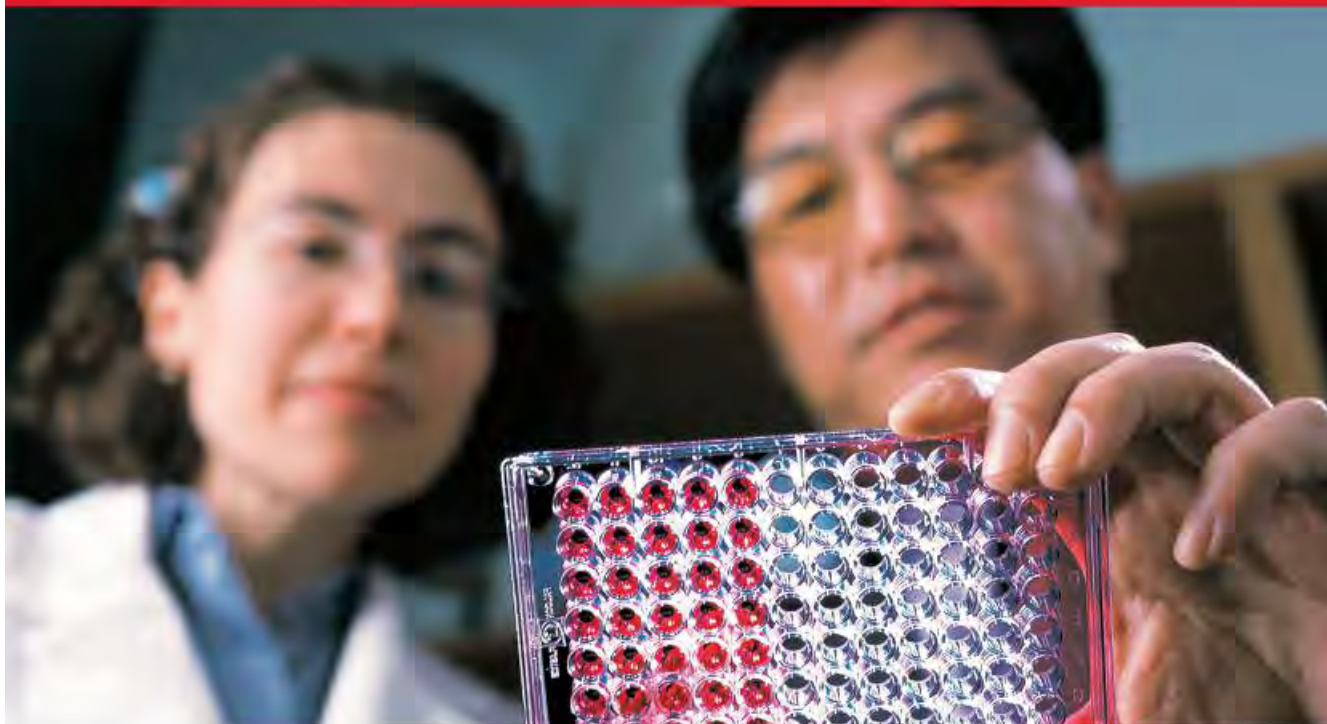
There are several web sites that may help you search for these open positions.

- [www.mboservices.net](http://www.mboservices.net)
- [www.nesacs.org](http://www.nesacs.org)

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# Calendar

Check the **NESACS** home page  
for late **Calendar** additions:  
<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>

## Nov 04

### Bristol-Myers Squibb Symposium

Prof. Brent Stockwell (Columbia Univ.)  
Harvard University, Pfizer Hall 4:15 pm

Prof. Xi Chen (UC Davis)

“Chemoenzymatic Synthesis and Applications of Carbohydrates”  
Brandeis, Gerstenzang 121 4:00 pm

## Nov 05

### The 2013 Max Tishler Lecture

Prof. Roderick MacKinnon (Rockefeller U.)  
“The Remarkable Diversity of K<sup>+</sup> Channels”  
Tufts U., Pearson P-106, 4:30 pm

Prof. Shawn Collins (Univ. de Montréal)  
“Advanced Strategies for Macrocyclization”  
Boston College, Merkert 130  
4:00 pm

## Nov 06

Prof. Gojko Lalic (University of Washington)  
Northeastern, 129 Hurtig Hall  
12 noon

Prof. William Kobertz (UMass Medical School)  
UMass Dartmouth, Dion Building-Rm 115  
4:00 pm

## Nov 11

Prof. Kate Pletneva (Dartmouth)  
Brandeis, Gerstenzang 121  
4:00 pm

## Nov 12

Prof. Zev Gartner (U. Cal. San Francisco)  
“Towards the Total Synthesis of the Human Mammary Gland”  
Tufts U., Pearson P-106, 4:30 pm

Prof. Jonathan Lai (Albert Einstein)  
Boston College, Merkert 130  
4:00 pm

## Nov 13

### Inorganic Harvard/MIT Seminar

Prof. Amy Prieto (Colorado State Univ.)  
Harvard University, Pfizer Hall  
4:15 pm

Prof. Sarbajit Banerjee (Univ. of Buffalo)  
UMass Dartmouth, Dion Building-Rm 115  
4:00 pm

## Nov 14

Dina Anchin, Nicole Ledoux, Harry Metcalf  
(Harvard Art Museums) “Technical Analysis in Art Conservation: Three Case Studies”  
U. of New Hampshire, Iddles N104  
11:10 am

Prof. Deyang Qu (U. Mass. Boston)  
Boston College, Merkert 130  
4:00 pm

Prof. Gunda Georg (Univ. of Minnesota)  
“Drug Discovery in Academia”  
Northeastern, 129 Hurtig Hall  
12 noon

Physical Chemistry Seminar

Prof. Jesse Kroll (M.I.T.)  
Harvard University, Pfizer Hall  
4:15pm

## Nov 18

Prof. Tom Markland (Stanford Univ.)  
“Quantum Fluctuations in Hydrogen Bond Networks: from Atmospheric Science to Enzyme Catalysis”  
Brandeis, Gerstenzang 121  
4:00 pm

## Nov 19

Prof. Gonghu Li (Univ. of New Hampshire)  
“Combining Molecular Catalysts and Nanostructured Surfaces for Solar CO<sub>2</sub> Reduction”  
Tufts U., Pearson P-106, 4:30 pm

Prof. Nathanael Gray (Harvard Univ.)  
Boston College, Merkert 130  
4:00 pm

## Nov 20

Prof. Catherine Drennan (MIT)  
“Shake, Rattle & Roll: Capturing Snapshots of Metalloenzymes in Action”  
Northeastern, 129 Hurtig Hall  
12 noon

## Nov 21

Prof. Alex Briseno (U. Mass. Amherst)  
Boston College, Merkert 130  
4:00 pm

## Nov 25

Prof. Hongkun Park (Harvard University)  
Harvard University, Pfizer Hall  
4:15 pm

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

Michael Filosa, email:  
[Michael.filosa\(at\)zink.com](mailto:Michael.filosa(at)zink.com) ◇