Monthly Meeting
Norris Award Meeting at Simmons College School of Management
Thomas Holme to receive Norris Teaching Award

NESACS Members Receive Awards at NERM
Jack Driscoll receives E. Ann Nalley Award and Mindy Levine receives Stanley Israel Award

Summary of Governance Issues and Actions
252nd ACS National Meeting, Philadelphia, PA

Arno Heyn Memorial Book Prize
Awarded to Roy Hagen
Biotechnology is the nucleus of a rapidly growing multi-billion dollar biopharmaceutical industry in the US and throughout the world. Scientists and engineers must navigate the dynamics of a heavily regulated but highly innovative industry.

> Acquire the advanced scientific, business and communication skills essential to succeed in this dynamic, rapidly expanding industry

> Receive instruction from renowned Northeastern University professors and industry experts from Boston’s world-class biotech community

> Be prepared for the biotechnology careers of the future

The program is highlighted by Northeastern’s internationally recognized co-op experience. This is an essential component of the master’s program that provides the opportunity for hands-on experience at the area’s leading biopharmaceutical companies.

A graduate certificate in biopharmaceutical analytical sciences is also offered.

**NETWORKED FOR LIFE**

LEARN MORE AT northeastern.edu/biotech

Northeastern University
College of Science
Contents

Norris Award Recipients 1951-2016 ......................................................... 4
Monthly Meeting ................................................................................. 5
Norris Award Meeting at Simmons College School of Management. Norris Award to Thomas Holme of Iowa State University. Arno Heyn Memorial Book Prize to Roy Hagen.

NSYCC Fall Career Symposium ......................................................... 6

Green Chemistry Workshop at UMass-Boston ................................. 7
Presented by Pfizer, UMass-Boston Sustainable Scientists Group and the Northeastern Section Younger Chemists Committee.

NESACS Members Receive Awards at NERM ................................. 8
Jack Driscoll receives E. Ann Nalley Award, Mindy Levine receives the Stanley Israel Award and NESACS Organizations (Beyond Benign and partner universities and colleges) receive the Partners for Prosperity and Progress-Northeast Award.

Summary of Governance Issues and Actions .................................... 9

Esselen Award Photos ....................................................................... 12
Photos by Joel Laino

Business Directory ............................................................................ 14,15

Calendar .............................................................................................. 16

Cover: Professor Thomas Holme, Iowa State University, 2016 recipient of the James Flack Norris Award for Outstanding Performance in the Teaching of Chemistry. (Photo courtesy of Professor Holme).

Editorial Deadlines: January 2017 Issue: November 15, 2016
February 2017 Issue: December 15, 2016

The Nucleus is published monthly, except June and August, by the Northeastern Section of the American Chemical Society, Inc. Forms close for advertising on the 1st of the month of the preceding issue. Text must be received by the editor six weeks before the date of issue.

Editor: Michael P. Filosa, Ph.D., 18 Tamarack Road, Medfield, MA 02052 Email: filosam@verizon.net; Tel: 508-843-9070
Associate Editors: Myron S. Simon, 60 Seminary Ave. apt 272, Auburndale, MA 02466
Business Manager: Joshua Fine, Email: joshuafine@gmail.com
Advertising Manager: Vacant: contact Michael Filosa at admanager@nesacs.org
Calendar Coordinator: Xavier Herault, Email: xherault@outlook.com
Photographers: Morton Hoffman and James Phillips
Proofreaders: Donald O. Rickter, Morton Z. Hoffman, Carol Mulrooney
Webmaster: Roy Hagen, Email: webmaster@nesacs.org
Copyright 2016, Northeastern Section of the American Chemical Society, Inc.
Recipients of the James Flack Norris Award 1951–2016

1951 George Shannon Forbes 1984 Henry A. Bent
1953 John Xan 1985 Derek A. Davenport
1955 Harry Nicholls Holmes 1986 Glenn A. Crosby
1956 Norris Watson Rakestraw 1987 Joseph B. Lambertz
1957 Emma Perry Carr & Mary Lura Sherrill 1988 Dana W. Mayo & Ronald M. Pike
1957 Farrington Daniels 1989 Jerry R. Mohrig
1959 Herman Irving Schlesinger 1990 Joseph A. Schwartz
1959 Louis Frederick Fieser 1991 John W. Moore
1960 Louis Plack Hammett 1992 Jerry A. Bell
1961 Joel Henry Hildebrand 1993 Arturr C. Brexer
1962 Ralph Lloyd Shriner 1994 Samuel P. Massie
1963 Avery Allen Ashdown 1995 Michael P. Doyle
1964 James Arthur Campbell & Lawrence Edward Strong 1996 Mary Virginia Orna
1965 Walter John Moore 1997 A. Truman Schwartz
1967 Edward Lauth Haenisch 1999 Joseph J. Lagowski
1968 Samuel Edward Kamerling & William Campbell Root 2000 Billy Joe Evans
1970 Hubert Newcomer Alyea 2002 Zafra Lerman
1971 Charles Lester Bickel 2003 David N. Harpp
1972 Saul Gerald Cohen 2004 Richard N. Zare
1974 Grant Hopkins Harnest 2006 Brian P. Coppola
1975 Leonard Kollender Nash 2007 Diane M. Bunce
1977 Anna Jane Harrison 2009 William F. Polik
1978 Paul Doughty Bartlett & Henry C. McBey 2010 George M. Bodner
1979 Harry Hall Sisler 2011 Peter Mahaffy
1980 Robert C. Brasted 2012 Vicente Talanquer
1981 Fred Basolo 2013 Melanie M. Cooper
1982 William Thomas Lippincott 2014 Thomas Greenbowe
2016 Thomas Holme

2015 NESACS Sponsors

<table>
<thead>
<tr>
<th>Institution</th>
<th>Contribution Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amgen</td>
<td>Platinum</td>
</tr>
<tr>
<td>Biogen, Idec</td>
<td>Platinum</td>
</tr>
<tr>
<td>Davos Pharma</td>
<td>Platinum</td>
</tr>
<tr>
<td>Johnson-Matthey</td>
<td>Platinum</td>
</tr>
<tr>
<td>SK Life Sciences</td>
<td>Platinum</td>
</tr>
<tr>
<td>Navin Fluorine International</td>
<td>Gold</td>
</tr>
<tr>
<td>Vertex</td>
<td>Gold</td>
</tr>
<tr>
<td>Esselen Fund of the Boston Foundation</td>
<td>Silver</td>
</tr>
<tr>
<td>Merck and Co.</td>
<td>Silver</td>
</tr>
<tr>
<td>National Institute of Standards (NIST)</td>
<td>Silver</td>
</tr>
<tr>
<td>Pharmacore</td>
<td>Silver</td>
</tr>
<tr>
<td>PLR Brand Services (Polaroid)</td>
<td>Silver</td>
</tr>
<tr>
<td>Sanofi</td>
<td>Silver</td>
</tr>
<tr>
<td>MilliporeSigma</td>
<td>Bronze</td>
</tr>
<tr>
<td>European Chemical Sciences (EuCheMS)</td>
<td>Bronze</td>
</tr>
<tr>
<td>The Royal Society of Chemistry</td>
<td>Bronze</td>
</tr>
<tr>
<td>German Chemical Society</td>
<td>Bronze</td>
</tr>
<tr>
<td>Novartis</td>
<td>Bronze</td>
</tr>
<tr>
<td>Strem Chemicals</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

Contribution Levels Donation

Platinum $5,000+
Gold $3,500-$4999
Silver $2,000-$3,499
Bronze $500-$1,999

Meeting Sponsors

Amgen
Cape Cod Community College
Genzyme-Sanofi
Nova Biomedical
Takeda
Vertex

What’s Yours?

Many local employers post positions on the NESACS job board.
Find yours at www.nesacs.org/jobs

Boscy Our Ratings

When you tell our advertisers that you saw their ads here they have more confidence in our newsletter’s viability as an advertising medium. They advertise more. This supports our many activities.
Monthly Meeting

The 964th 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

Presentation of the Arno Heyn Memorial Book Prize

Thursday, November 10, 2016

Simmons College
School of Management
300 The Fenway, Boston, MA 02115

Agenda:

4:30 pm Board Meeting
5:30 pm Reception
6:30 pm Dinner
7:30 pm Evening Program, Dr. Jerry Jasinski, NESACS Chair, Presiding
   Presentation of the Arno Heyn Memorial Book Prize to Roy Hagen
   Presentation of the James Flack Norris Award for Excellence in Teaching to: Thomas Holme, Iowa State University

For those who would like to join us for dinner, please register by noon, Thursday, November 3, using PayPal: http://acssymposium.com/paypal.html. Select the pay with credit or debit card option and follow the additional instructions on the page. Cost: Members, $30; Non-members, $35; Retirees, $20; Students, $10. Dinner reservations not cancelled at least 24 hour will not be refunded.

If you wish to join us for this meeting and not eat dinner, please register by noon, Thursday, November 3, using PayPal: http://acssymposium.com/paypal.html. Select “Seminar only”. The fee is $1.

New members or those seeking additional information, contact the NESACS administrative coordinator, Anna Singer, at secretary@nesacs.org or at (781) 272-1966. Please note, the office is open on a part-time basis.

THE PUBLIC IS INVITED. RESERVATIONS ARE REQUIRED BY NOON, November 4. THOSE WITHOUT RESERVATIONS WILL NOT BE ADMITTED TO THIS EVENT.

Directions to Simmons College:
By MBTA: Take MBTA green line E train (Heath Street) to Museum stop. Turn right onto Louis Prang Street. From here you can see Simmons’s green cupola. Walk past Isabella Stewart Gardner Museum on left. Simmons College, 300 The Fenway, will be on left.

For Driving Directions: http://www.simmons.edu/about-simmons/contact-us/directions

---

Biography:

Professor Thomas Holme joined the faculty of Iowa State University in August 2008. Dr. Holme received his B. S. in Chemistry and Physics from Loras College in Dubuque, Iowa graduating Magna Cum Laude in 1983 and his Ph. D. in Chemistry from Rice University in Houston, Texas in 1987. He was a Postdoctoral Associate at Hebrew University and the University of Pennsylvania from 1987 to 1989. He began his academic career at the University of South Dakota and the University of Wisconsin — Milwaukee. He maintains two research groups, one in Chemical Education Research and the other in Computational Chemistry.

Abstract:

While the advancement of chemistry as a science has long been associated with ever increasing capabilities of measurement, it is difficult to argue the same can be said for chemistry education. There are many ways to look at the manner in which we measure student learning, and the key question that emerges is whether or not our measurements actually tell us what we hope to know about that learning.

Perhaps as importantly, by looking at our habits when constructing tests, either in our own classes or as part of larger efforts such as those carried out by the ACS Exams Institute, we can begin to devise ways to analyze the testing choices we make and how those choices affect what is taught and what is learned.

This talk will describe several ways that measures of student learning can be...
NSYCC Fall Career Symposium

Presented by
the Northeastern Section Younger Chemists and
the MGH Graduate Student Division

Saturday November 19th 12-5 PM
Massachusetts General Hospital

Join us for a half-day event at one of the best
research hospitals in the country.
Featuring hands-on workshops, resume reviews,
and career advice from experts in the
biomedical field.

For more information visit nsycc.org
For questions email careers@nsycc.org
Green Chemistry Workshop for Drug Development and Education
Presented by Pfizer, the UMass-Boston Sustainable Scientists Group, and the Northeastern Section Younger Chemists
Saturday November 5th 8 AM - 2PM
UMass-Boston’s Integrated Science Complex

A half-day workshop focusing on green chemistry tools, techniques, and lesson plans for educators at all levels.

Breakfast and lunch provided by Pfizer
Keynote Address: Dr. John Warner, Co-Founder of Beyond Benign

For more information visit nsycc.org
To register email raymondwardborg@gmail.com
The Nucleus November 2016

NESACS Members and Organizations Receive Awards at NERM

John (Jack) Driscoll Receives E. Ann Nalley Award at NERM

NESACS Public Relations Chair, Jack Driscoll received the 2016 E. Ann Nalley Award at NERM, held in Binghamton, NY from October 5-8. Dr. Driscoll was recognized for his many community outreach events promoting STEM education to the community and especially students.

The purpose of the Nalley Awards is to recognize the volunteer efforts of individuals who have served the American Chemical Society, contributing significantly to the goals and objectives of the Society through their Regional Activities. This award was instituted in 2006 by ACS President E. Ann Nalley as part of her presidential initiative to recognize ACS volunteerism. It was Dr. Nalley’s wish that the award continue in perpetuity at each regional meeting. The award consists of a plaque honoring the recipient with an imbedded medallion commemorating Dr. Nalley.

A nominee must be a member of the American Chemical Society residing in a local section within the region, and will have made significant contributions to their Region of the American Chemical Society. The volunteerism to be recognized may include a variety of activities, including but not limited to the initiation or sponsorship of a singular endeavor or exemplary leadership in the region. Past and present members of the ACS Board of Directors and staff are ineligible for this award.

Past recipients of the award for the Northeast region have been: 2006, D. Richard Cobb (Rochester); 2007, Deborah L. Janes and Timothy E. Wilson (Rochester); 2008, Christine Jaworek-Lopes (NESACS); 2010, Richard Partch, (Northern NY); 2013, Doris I. Lewis (NESACS); 2015, Wayne E. Jones, Jr. (Binghamton); 2016, John Driscoll (NESACS).

Mindy Levine receives Stanley C. Israel Award at NERM

Mindy Levine, NESACS Chair-Elect for 2017 and Professor at the University of Rhode Island was presented with the Stanley C. Israel Award for the Northeast Region at NERM held October 6-8 in Binghamton, NY.

The purpose of this award is to recognize individuals and/or institutions that have advanced diversity in the chemical sciences and significantly stimulated or fostered activities that promote inclusiveness within the region. The award consists of a medal and a $1,000 grant to support and further the activities for which the award was made. The award also will include funding to cover the recipient’s travel expenses to the ACS regional meeting at which the award will be presented.

Nominees may come from academia, industry, government, or independent entities, and may also be organizations, including ACS Local Sections and Divisions. The nominee must have created and fostered ongoing programs or activities that result in increased numbers of persons from diverse and underrepresented minority groups, persons with disabilities, or women who participate in the chemical enterprise.

Recipients of this award have been: 2014 Recipients, Amanda Bryant-Friedrich, Carolyn Burnley, Vincent Ortiz, Javier Vela, University of Montana; 2015 Recipients, Mary Barkley, Thomas Higgins, Organization for Cultural Diversity, Mailika Jeffries-EL; 2016 Recipients, Judson Haynes, Thomas Lane, St. Johns University, Lawrence Duffy, Mindy Levine, Elizabeth Naley, Gina Macdonald.

The Green Chemistry Commitment: Beyond Benign, Inc. and Local Colleges and Universities receive the Partners for Progress and Prosperity (P3) Award - Northeast

The 2016 Partners for Progress and Prosperity (P3) Award for the Northeast Region of ACS was presented to The Green Chemistry Commitment: Beyond...
Summary of Governance Issues and Actions

American Chemical Society
252nd ACS National Meeting
Philadelphia, Pennsylvania
August 21-25, 2016

The following summary is provided to help Councilors report to their Local Sections and Divisions on key actions of the ACS Council meeting held August 24, and Board of Directors meetings held August 19-20, at the 2016 ACS fall national meeting in Philadelphia, Pennsylvania. Full reports will be posted on the ACS Website as they become available.

Actions of the Council

Elected Committees of Council


  *Harmon B. Abrahamson ............224
  *Karl S. Booksh ....................165
  Dwight W. Chasar ..................154
  *Ella L. Davis ......................158
  *Lissa A. Dulany ..................154
  *Ella L. Davis ......................202
  Gregory M. Ferrence ..............114
  John W. Finley .....................88
  Doris I. Lewis ......................155
  Kim M. Morehouse ..................95
  Barbara E. Moriarity ..............138
  *Sally B. Peters ..................184
  *Martin D. Rudd ...................181
  Julianne M.D. Smist ...............138
  *Andrea B. Twiss-Brooks ..........186


  Anthony W. Addison ...............164
  Spiro D. Alexandratos ............120
  *Lisa M. Balbes ...................289
  *Alan M. Ehrlich .................177
  Stan S. Hall .......................67
  *Alan A. Hazari ...................174
  *Amber S. Hinkle ..................244
  *Neil D. Jespersen ...............172
  James M. Landis, Jr .............166
  *Thomas H. Lane ..................246
  Will E. Lynch .....................171
  V. Michael Mautino ...............132

- By electronic ballot, the Council elected Wayne E. Jones, Jr., D. Richard Cobb, Stephanie J. Watson, Dee Ann Casteel, and Emilio X. Esposito for three year terms, 2017-2019, on the Committee on Committees.

  Gary D. Anderson ................111
  Sandra J. Bonetti ...............138
  *Dee Ann Casteel .................209
  *D. Richard Cobb ................232
  Jacqueline A. Erickson ..........172
  *Emilio X. Esposito ............192
  Robert J. Hargrove ..............80
  Martha G. Hollomon ..............191
  *Wayne E. Jones, Jr .............277
  *Stephanie J. Watson ..........212

continued on page 10
Other Council Actions
Continuation of Select Committees
On the recommendation of the Committee on Committees, the Council voted to approve the continuation of the Committee on Analytical Reagents, and the Committee on Chemical Abstracts Service, subject to confirmation by the Board of Directors.

Change in Local Section Territory
On the recommendation of the Committee on Local Section Activities, the Council approved a petition from the Permian Basin Local Section to annex the Texas counties of Pecos and Brewster, and the petition from the Upper Peninsula Local Section to annex unassigned and adjacent territory, and one Michigan county (Menominee) now currently assigned to the Northwest Wisconsin Local Section.

Unemployed Members’ Dues Waiver
On the recommendation of the Committee on Membership Affairs, the Council approved a petition to amend the ACS Bylaws to extend the Unemployed Members’ Dues Waiver, which will extend waivers for unemployed members’ dues from the current two years to three years, subject to confirmation by the Board of Directors.

Chemical Professional’s Code of Conduct
On the recommendation of the Committee on Economic and Professional Affairs, the Council approved the Chemical Professional’s Code of Conduct, subject to confirmation by the Board of Directors.

Charter Bylaws
On the recommendation of the Committee on Constitution and Bylaws, the Council approved the Bylaws for Divisions in Probationary Status and the Charter Bylaws for New Local Sections.

International Chemical Sciences Chapters
On the recommendation of the Committee on International Activities, the Council approved the establishment of ACS International Chemical Sciences Chapters in Greater Beijing, Southwestern China, and Iraq, subject to confirmation by the Board of Directors.

Resolutions
The Council passed resolutions in memory of deceased Councilors; acknowledging President Donna Nelson’s service as presiding officer of the Council; and in gratitude for the officers and members of the Philadelphia Local Section, the host Section for the 252nd National Meeting, the divisional program chairs and symposium organizers, and ACS staff.

Special Discussion
The Council conducted a special discussion to gather input on proposed recommendations from the ACS Presidential Task Force on the U.S. Employment of Chemists. The task force has been examining and considering all known influences that can impact employment in the chemical sciences. Councilors were invited to share their thoughts, comments, and suggestions on the proposed suggestions to date, in preparation for the report’s expected release later this year.

Highlights from Committee Reports
Nominations and Elections
The Committee on Nominations and Elections solicits Councilors’ input of qualified individuals for President-Elect and/or Directors for future consideration. Suggestions may be sent to nomelect@acs.org. N&E has established the Vote 20/20 Task Force, charged with examining all aspects of nominations and elections for ACS national offices, and designing an enhanced process to be in place by the year 2020. The committee welcomes ideas from all members as to how nominations and elections should be handled. Send comments to vote2020@acs.org.

Budget and Finance
The Society’s 2016 Probable 1 Budget calls for a Net from Operations of $17.3 million. This is $3.9 million higher than the Approved Budget but only $723,000 higher than 2015. Total revenues are projected to be $528.8 million, essentially on budget, and 3.3% higher than the prior year. Total expenses are projected at $511.5 million, which is 0.6% favorable to budget, and 3.3% higher than 2015.

continued on page 11
The Committee considered several program funding requests for 2017, and on its recommendations, the Board subsequently approved funding for the Atlantic Basin Conference on Chemistry, the ChemIDP Program; and the International Student Chapter Program. Additional information can be found at www.acs.org; at the bottom of the page, click ‘About ACS’, then ‘Financial’. There you will find several years of the Society’s audited financial statements and IRS 990 filings.

Philadelphia Meeting Attendance
As of Tuesday evening, August 23:
- Attendees 7,437
- Students 3,249
- Exhibitors 1,181
- Expo only 613
- Guest 320
- Total 12,800

Petitions to Amend the Constitution and Bylaws
New petitions to amend the Constitution or Bylaws must be received by the Executive Director no later than December 14 to be included in the Council agenda for consideration at the spring 2017 meeting in San Francisco. Contact the Committee on Constitution and Bylaws with any questions or requests for information at bylaws@acs.org

Actions of the Board of Directors
The Board’s Executive Session
At this meeting, the ACS Board of Directors considered a number of key strategic issues and responded with several actions.

Board Actions
- On the recommendation of the Committee on Grants and Awards, the Board voted to approve the Society’s nominees for the 2017 Perkin Medal, the 2017 National Science Board Public Service Award, and the 2017 Alan T. Waterman Award; and to approve the revised rescission procedures for the national awards and ACS Fellows designation.
- On the recommendation of the Joint Board-Council Committee on Publications, the Board voted to approve the reappointment of editors-in-chief for two ACS journals.
- On the recommendation of the Committee on Budget and Finance, the Board voted to approve the advance member registration fee of $445 for national meetings held in 2017 and also authorized several program funding requests.

Board Discussions
The Board of Directors received and discussed reports from the Governance Agility Task Force, the Committee on Grants and Awards, the Committee on Planning, the Society Committee on Budget and Finance, and the ACS Governing Board for Publishing.

The Board is seeking ways to engage ACS stakeholders to identify opportunities and issues for governance improvement that will enable ACS to advance its mission in a streamlined and simplified manner. The Board and the Council Policy Committee are creating a new task force that will look at the Society’s future governance needs. Per the Board’s discussion, the chair’s report to Council provided additional details on a proposed Society-wide initiative to ensure an agile, efficient, and effective ACS. Additionally, the Board is considering proposed changes to certain Board committee duties and roles.

The Board discussed the history, role, and contributions of its Standing Committee on Corporation Associates, and the responsibility of ACS to effectively capture the needs of industrial members and their corporations.

The presidents of Chemical Abstracts Service and the ACS Publications Division shared details on their financial performance and editorial and new product development highlights. Executive Director and CEO Tom Connelly and his direct reports updated the Board on issues relating to Human Resources, ACS Finances, and Education.

The Board heard reports from members of the Presidential Succession on their key priorities and activities as they relate to those of the Board and for the purposes of coordinating their ongoing activities on behalf of the Society. The Board’s Regular Session
The Board held a well-attended regular session which featured a discussion on ACS National Meetings of the Future. Board Chair Pat Confalone opened the discussion by stating ACS continued on page 13
Members of the Esselen family Jack Esselen (2nd from left), Cathy Esselen, and Jane Blocker meet Karl Hansen (far left), Chair of the 2016 Esselen Committee at the social hour.

Seated at the head table (l to r) are Dr. David Walt of Tufts University; Dr. Jerry Jasinski, Chair of the Section; Dr. Tim Swager of MIT, the 2016 Awardee, with his wife Anne. Standing (l to r) are Michele May, Dr. Walt’s wife; Dr. Chad Mirkin of Northwestern University; Dr. Karl Hansen of Amgen, Chair of the 2016 Award Committee; Dr. Mukund Chorghade, past chair of the Award committee; Dr. Susan Haber, with her husband Dr. Stephen Buchwald of MIT.

The Esselen family is represented by (seated l to r) Mrs. Joanna Hanson Stengle, her nephew, Michael Hanson, Dr. Katharine Esselen, Mrs. Joan Foot, and Mr. Silas Foot. Standing (l to r) Mr. Alan Kurd, Dr. Esselen’s husband, Mrs. Catherine Esselen, Mr. Timothy Poole, Mrs. Jane Blocker, and Gustavas John Esselen, IV, the son of the award’s founder, who will present the award. Joan Foot and Jane Blocker are the daughters of the founder of the award and granddaughters of the person it honors.

Present and former Esselen Committee members, (seated l to r) Dr. Paulette Idelson; Dr. Myron Simon; Ms. Dahrika Guerette guest of Dr. Sromek; and Dr. Anna Sromek. Standing (l to r) Dr. Martin Idelson; Dr. Charles Kolb; Dr. Paul Vouros and his wife, Irene.

At the lecture, Dr. Timothy Jamison, Chair of the MIT Chemistry Department and the four current and past awardees: Dr. Steve Buchwald, MIT; Dr. Chad Mirkin, Northwestern University, Dr. Tim Swager, MIT and 2016 Awardee, and Dr. David Walt of Tufts University.

Mike Filosa, editor of The Nucleus, Michaeline Chen, Councilor and Chair of the membership committee, Bob Unans, and Doris Lewis, Councilor and Chair of the government relations committee share wine at the social hour.
NERM Awards
Continued from page 8

Benign, Inc of Wilmington, MA and Local Colleges/Universities.
The purpose of this award is to recognize and encourage successful and exemplary partnerships. This award was instituted in 2014 by a contribution from Marinda Li Wu out of her Immediate Past ACS President’s budget as part of her presidential initiatives to promote partnering for progress and prosperity.

Governance
Continued from page 11

National Meetings are a key way that ACS fulfills its obligation to deliver scientific information. These National Meetings are successful, but we are always looking for ways to improve and to anticipate what members’ future needs – as to these meetings and other subjects – will be. Almost two dozen audience members came forward to offer comments, observations, and suggestions, prompted by a list of questions designed to help focus the discussion.

Prior to the presentation, members of the presidential succession and the Executive Director and CEO offered brief reports on their activities. The officers provided more extensive reports on their activities and/or future plans as part of their written and oral reports to the Council.

ADDITIONAL INFORMATION FOR COUNCILORS
The following is a list of URLs or email addresses presented in reports or on slides at the Council meeting.
Donna J. Nelson, President djnelson@ou.edu
Allison A. Campbell, President-Elect a.campbell@acs.org
Diane Grob Schmidt, Immediate Past President d.schmidt@acs.org
Constitution and Bylaws bylaws@acs.org / www.acs.org/bulletin5
Local Section Activities www.acs.org/getinvolved

continued on page 14
Biography
Continued from page 5

At Iowa State University Holme and his students carry out computational modeling studies of physiological implications of molecules that include main group elements such as boron and silicon. He is currently the Director of the Examinations Institute of the ACS. Holme also has a significant interest in research that focuses on how to assess the learning of chemistry. The application of emerging information technologies in the assessment of student knowledge comprises one area of his research interests in chemistry education.

Dr. Holme was Exchange Professor at Ajou University, Suwon, South Korea in 2000 and Fulbright Lecturer, University of Zambia in 1989-1990. He received the Helen M. Free Award for Public Outreach in 1999 from the American Chemical Society.

Abstract
Continued from page 5

considered and suggest what learning goals that may be overlooked based on the current assessment practices that are common in chemistry teaching. Ideas about how new measures might be devised that might fill in the gaps will also be noted.

Governance
Continued from page 13

Nominations and Elections
 nomelect@acs.org
Vote2020@acs.org
Younger Chemists Catalyze the Vote
#CatalyzeTheVote
Chemistry Ambassadors
www.acs.org/chemistryambassadors
Committee on Chemical Safety
 safety@acs.org
www.acs.org/safety
Chemistry Committee on Chemical Abstracts
Service
wdcornell@yahoo.com
Budget and Finance
https://www.acs.org/content/acs/en/about/financial.html
Online Information for Councilors
http://www.acs.org/content/acs/en/about/governance/councilors.html
Councilor Talking Points is produced by the Office of Secretary & General Counsel. Permission is granted to distribute in whole or part.
Please direct all comments and questions to: secretary@acs.org
BUSINESS DIRECTORY

SERVICES

NMR Service 500 MHz
- Mass
- Elemental Analysis
NuMega Resonance Labs
numegalabs.com P: 858-793-6057

Custom Synthesis of Chemicals
Gram to Commercial Production
On-time Delivery, Quality & Competitive Price
Tyger Scientific Inc.
324 Stokes Ave. Ewing, NJ 08638
Phone: 888-329-8990
Email: sales@tygersci.com

TELL OUR ADVERTISERS
Membership surveys show that you want more articles in our newsletter. If you tell our advertisers that you saw their ad here, they will provide more financial support and this will allow us to add more articles.

Why Choose PCI Synthesis?
PCI provides process research and chemical manufacturing services from early development through commercialization.
- FDA Inspected Facilities
- Chemical Synthesis
- cGMP Synthesis
TRANSFORMING basic or proprietary CHEMISTRY TECHNOLOGY into precise REQUIREMENTS our CUSTOMERS seek.
PCI Synthesis
Together Moving Ideas Forward
9 Opportunity Way, Newburyport, MA 01950
978.462.5555
www.pcisynthesis.com

NMR Service 500 MHz
- Mass
- Elemental Analysis
NuMega Resonance Labs
numegalabs.com P: 858-793-6057

Custom Synthesis of Chemicals
Gram to Commercial Production
On-time Delivery, Quality & Competitive Price
Tyger Scientific Inc.
324 Stokes Ave. Ewing, NJ 08638
Phone: 888-329-8990
Email: sales@tygersci.com

TELL OUR ADVERTISERS
Membership surveys show that you want more articles in our newsletter. If you tell our advertisers that you saw their ad here, they will provide more financial support and this will allow us to add more articles.

Why Choose PCI Synthesis?
PCI provides process research and chemical manufacturing services from early development through commercialization.
- FDA Inspected Facilities
- Chemical Synthesis
- cGMP Synthesis
TRANSFORMING basic or proprietary CHEMISTRY TECHNOLOGY into precise REQUIREMENTS our CUSTOMERS seek.
PCI Synthesis
Together Moving Ideas Forward
9 Opportunity Way, Newburyport, MA 01950
978.462.5555
www.pcisynthesis.com

ORGANIX INC.
Your Partner in
Organic & Medicinal Chemistry
Providing Services Since 1986

Services:
- Custom Synthesis
- Hit-to-Lead Programs
- Structure Activity Programs
- 1H NMR and 13C NMR
- LC/MS Services
Strengths:
- Outstanding Communications
- Reliable Time Management
- Experienced Ph.D. Scientists

On Target – On Time – On Budget
Massachusetts, USA
Phone: (781) 932-4142
Fax: (781) 933-6695
Email: organix@organixinc.com
www.organixinc.com

TELL OUR ADVERTISERS
Membership surveys show that you want more articles in our newsletter. If you tell our advertisers that you saw their ad here, they will provide more financial support and this will allow us to add more articles.

Index of Advertisers
Eastern Scientific Co. ......11
Micron, Inc. .................14
Northeastern University ...2
NuMega Resonance Labs15
Organix, Inc. .................15
PCI Synthesis............15
Rilas Technologies, Inc. ...8
Robertson Microlit Labs..8
Tyger Scientific, Inc. ......14

WOULD YOU BELIEVE?
- Our Section (NESACS) is the largest in the ACS.
- We have more volunteers than any other Section.
- 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
1. Photo Journalists
2. Book Reviewers
3. Corporate and Local news reporters
4. Copy Editors
5. Volunteer Coordinator

If you would like to be active in this vibrant organization, please contact Board of Publications member Michael Filosa filosam@verizon.net

No experience needed
Just a willingness to participate and a sense of humor

SEARCHING FOR THAT SPECIAL JOB?
There are many companies and organizations searching for chemical and biochemical personnel to fill important jobs in their organizations.
- Companies for laboratory and management positions
- Universities & Colleges for teaching positions and laboratory personnel
- Hospitals for technical and research personnel

There are several web sites that may help you search for these open positions.
- www.mboservices.net
- www.nesacs.org

The Nucleus November 2016 15
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://chemistry.harvard.edu/calendar/upcoming
http://www.northeastern.edu/cos/chemistry/events-
http://chemistry.mit.edu/events/all
http://chemistry.tufts.edu/seminars.html
http://www.chem.umb.edu
http://www.umassd.edu/cas/chemistry/
http://www.unh.edu/chemistry/events

October 26
Prof. Michael Pollastri (Northeastern)
WPI, GP1002 12:00 pm

November 1
Prof. Mindy Levine (U. Rhode Island)
Univ. New Hampshire, Parsons N104 11:10 am
Prof. Paul Bohn (Notre Dame)
“Liquid-Phase Ion Traps: Bimodal Nanocarchitectures for Studies of Single Reaction Events.”
Tufts, Pearson, Rm. P106 4:30 pm

November 2
Prof. Stephen Lippard (MIT)
WPI, GP1002 12:00 Noon
Prof. Jose Almirall (Florida International University)
“Forensic Science, Development and application of analytical chemistry tools to enhance the value of scientific evidence in legal disputes.”
Northeastern, 129 Hurtig Hall 12:00 pm

November 3
Prof. Michael Janik (Penn State University)
“Development of electrocatalytic materials guided by computational chemistry: fuel cells and CO2 electroreduction.”
Boston College, Merkert 130 4:00 PM
Prof. Jeffrey Byers (Boston College)
Harvard, Pfizer Lecture Hall 4:15 pm

November 8
Prof. Renee Cole (University of Iowa)
Univ. New Hampshire, Parsons N104 11:10 am

November 9
Prof. Marianne Wessling-Resnick (Harvard)
WPI, GP1002 12:00 Noon
Prof. Seung Soon Jang (Georgia Institute of Technology)
“Computations and theories to characterize and design nanoscale systems based on the molecular architecture-property relationship.”
Northeastern, 129 Hurtig Hall 12:00 pm

November 10
Prof. Bryan McCloskey (University of California, Berkeley)
Boston College, Merkert 130 4:00 pm

November 11
Prof. Tom Holme (Iowa State University)
“Research on measurements in the classroom and what it tells us about teaching and learning of chemistry.”
Brandeis, Gerstenzang 122 2:00 pm

November 14
Prof. Zhong Yin Zhang (Purdue)
“Drugging the undruggable: therapeutic potential of targeting protein tyrosine phosphatases.”
Brandeis, Gerstenzang 121 4:00 pm
Prof. Ning Fang (Georgia State)
Boston College, Merkert 130 4:00 pm
Prof. Yigong Shi (Tsinghua University)
Harvard, Pfizer Lecture Hall 8:00 am

November 15
Prof. Jillian Dempsey (University of North Carolina at Chapel Hill)
TBA
Univ. New Hampshire, Parsons N104 11:10 am
Prof. Will Pomerantz (University of Minnesota)
“Choosing the Right Halogen: Fluorinated Bromodomains for Small Molecule Discovery.”
Tufts, Pearson, Rm. P106 4:30 PM

November 16
Prof. Daniel Kahn (Harvard)
WPI, GP1002 12:00 Noon
Prof. Ann Kimble-Hill (Indiana)
“The Goods, the bad, and the ugly: Charges and their role in lipid phase separation.”
Northeastern, 129 Hurtig Hall 12:00 pm

November 17
Prof. Huw Davies (Emory)
Boston College, Merkert 130 4:00 pm

November 21
Prof. J.D. Tovar (Johns Hopkins)
Harvard, Pfizer Lecture Hall 4:15 pm

November 22
Prof. Matthieu Sollolougb (Universite Paris-Sorbonne, Universite Pierre et Marie Curie)
Tufts, Pearson Rm. P106 4:30 pm

November 28
Prof. Vincent Meunier (RII)
Boston College, Merkert 130 4:00 PM

November 29
Prof. Phillip Christopher (UCal-Riverside)
Tufts, Pearson Rm. P106 4:30 pm

November 30
Prof. Filippo Mancia (Columbia)
WPI, GP1002 12:00 Noon
Dr. David Wittner (Merck Research Laboratories)
“ERK Inhibitors for Oncology.”
Northeastern, 129 Hurtig Hall 12:00 pm

 Notices for The Nucleus Calendar of Seminars should be sent to:
Xavier Herault, email: xherault(at)outlook.com

What’s Yours?
Many local employers post positions on the NESACS job board.
Find yours at www.nesacs.org/jobs