

## From the ACS President

Diane G. Schmidt



I look forward to seeing you in Boston, a favorite location for our meetings.

There are five Presidential Symposia that I encourage you to attend as well as several others I am recommending. On Sunday, Aug. 16, "National Science Foundation's Centers for Chemical Innovation" highlights the research at those Centers and features the heads of all eight Centers for Chemical Innovation. A poster session with researchers' work from the various Centers follows the oral presentations. Starting in the afternoon on Sunday and running through Monday morning is the symposium titled "21st Century Education: Formal & Informal." On Monday, Aug. 17, ACS will celebrate the 20-year anniversary of the establishment of the ACS Scholars program with a special symposium of past scholars throughout industry and academia. On Tuesday, Aug. 18, during "Transforming University-Industry Partnerships for an Innovative Future," speakers from both academia and industry will highlight the role better university-corporate partnerships can play in driving more innovation. Finally, the ACS Divisions of HIST, POLY, PROF, and SCHB are all hosting various symposia in honor of the 100th birthday of chemistry pioneer Henry A. Hill.

Details of these presidential events and other recommended symposia can be found at [www.acs.org/boston2015](http://www.acs.org/boston2015).

Please join your colleagues on Sunday the 16th for a symposium honoring Edwin Land and Instant Photography sponsored by the HIST Division. This symposium is a follow on event to the National Historical Chemical Landmark event that precedes it on Thursday, August 13th at the MIT Museum. Also on Sunday, catch a special preview of the upcoming "Mystery of Matter" program exclusive to attendees at the National Meeting.

Twenty-nine technical divisions and nine committees are hosting original programming based on the meeting theme of **Innovation From Discovery To Application**. More than 9,000 papers will be presented, and nearly 3,000 poster presentations will take place at the meeting. Additionally, there are a number of special events planned throughout the meeting. The ACS Board of Directors Open Session will be an opportunity to hear chemistry icon Dr. George Whitesides talk about 'Reengineering Chemistry.' Please join your colleagues from noon to 1:00 p.m. in Ballroom West (Level 3) of the Boston Convention & Exhibition Center.

On Monday afternoon, William Dichtel, Associate

Professor of Chemistry and Chemical Biology at Cornell University, will deliver The Kavli Foundation Emerging Leader in Chemistry Lecture on 'The Spectacular Properties of Porous Polymers.' He is followed by George Whitesides, University Professor of Chemistry at Harvard University with The Fred Kavli Innovations in Chemistry Lecture (Boston Convention & Exhibition Center - Ballroom West, Level 3). Dr. Whitesides will speak on 'Problems, Puzzles, and Inevitabilities in Research.'

Safe travels, and I hope you all have a wonderful and productive time at the meeting.



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## Message from Thomas M. Connelly, Jr. Executive Director and Chief Executive Officer



At the Denver ACS National Meeting, I had my first opportunity to address the Council as Executive Director & CEO. It was a wonderful experience, and I thank you all for your supportive and helpful thoughts and comments throughout the Spring meeting. Since Denver, I have had many opportunities for interactions with Councilors at local

section events, committee meetings, and a regional meeting. These interactions have been rich sources of input on issues of importance to ACS. As this is my first opportunity to write to you in the Councilor News/Committee Alerts, I would like to update you on one important Society initiative.

Three years ago, we began the process to set up what is

*(Continued on page 2)*

## Message from the Executive Director and CEO

(Continued from page 1)

now known as the Society Program Portfolio Management process, or SPPM. SPPM is a joint effort shared by ACS governance and staff. Its goal is to assure that programs launched to accomplish the goals of the Society are achieving the desired outcome and providing the most value to our members. There have been similar processes in the past to achieve this goal – including the Program Review Advisory Group (PRAG) process; however, PRAG reviewed programs on a four year cycle – too slow for today's clock speed. As a former ACS Board Chair and a current member of the Society Committee on Budget & Finance, Bonnie Charpentier described SPPM well: "The (SPPM) process is a partnership between ACS volunteer members of governance and ACS staff that recognizes changing strategic environments and priorities and provides that no program is guaranteed funding in perpetuity." In practice, the SPPM process involves inde-

pendent assessments made for each major program grouping (13 in total) within the Membership & Scientific Advancement Division, Education Division and the Office of Public Affairs. The assessments will be conducted by both ACS staff and the Program Review Subcommittee (PRS) of the Committee on Budget & Finance (B&F). The process will evaluate programs in a number of dimensions. We will use quantitative measures to the greatest possible extent in this assessment. Differences in assessments between staff and PRS will be reconciled prior to Boston. At the national meeting, the status of the process will be reviewed with the B&F Committee, with the Board, and brief reports will be provided at the Councilor Caucuses.

SPPM will be a very helpful tool. By quantifying the impact of programs and accelerating decisions as programs are redirected, we assure that

the investments we make in our programs are done in an optimal fashion. Since this is our first year of implementation, we expect there will be some bumps in the road as we roll out SPPM. However, we are committed to SPPM as our process for making strategic choices within our program portfolio, for this year and beyond.

SPPM represents only one step in our overall effort to streamline and simplify the functioning of our Society. In parallel with the SPPM assessment of program performance, we are looking at our internal operations with an eye toward assessing efficiency and effectiveness. Some improvement areas have already been identified. The more efficient we are in our 'back office' operations, the more resources we will be able to deploy in programmatic areas.

I look forward to seeing you all in Boston, where we will have much to discuss.



### ACS FREQUENTLY REQUESTED NUMBERS

Unless otherwise noted, first dial (800) 227-5558. When prompted, dial the extension given below. To contact other offices, dial the 800 number and ask for operator assistance, or visit the ACS website, [www.acs.org](http://www.acs.org).

Address changes	(800) 333-9511
Career Services	x 4432
Development	x 6210
Divisions	x 4401
Education K-12 programs	x 4382
Education, undergraduate	x 4480
Gifts and other products	x 4600
National Chemistry Week	x 6097
Public Affairs	x 4386
Local sections	x 4611
Meetings, national	x 4374
Meetings, regional	x 6129
Membership	(800) 333-9511
Records and accounts	(800) 333-9511
Secretary	x 4461

## TOWN HALL MEETING CANDIDATES for DIRECTOR-AT-LARGE, 2016-2018



Lee H. Latimer



Willem R. Leenstra



Ingrid Montes



Mary Jo Ondrechen



Thomas W. Smith

Sunday, August 16, 2015  
4:30 - 5:30 PM  
Grand Ballroom, Sheraton Boston Hotel

Questions may be submitted in advance to [nomelect@acs.org](mailto:nomelect@acs.org)

Sponsored by the  
**COMMITTEE ON NOMINATIONS AND ELECTIONS**

This newsletter is produced by the Office of the Secretary. For more information please contact:

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## Choosing the Electronic Agenda Book

### Alan Ehrlich, Vice-Chair, Council Policy Committee

Creation and distribution of the printed ACS Council agenda book is costly (each agenda book costs \$4.39 to produce, exclusive of mailing costs) and requires the use of a lot of paper. For some time, councilors have been offered the alternative of receiving an electronic agenda book in lieu of a printed book. For the Spring 2015 meeting in Denver, 229 of 915 Councilors and Alternate Councilors chose this option. With the continued rise in adoption of tablet computers and e-readers, as well as larger screen smartphones, the PDF of the electronic agenda book is now a feasible alternative for many Councilors. There are a number of free and low-cost PDF reader apps for mobile devices that allow offline use (no Wi-Fi or cellular network connection required), making an electronic agenda accessible. Most of these reading apps also provide value added functionality such as searching text and highlighting and annotation. Users of the electronic agenda book also have the

option of selectively printing pages from the file (e.g., only printing the pages marked "FOR ACTION" or those related to candidates to elected committees). And of course, the electronic agenda book does not require any additional packing space in Councilors' baggage.

The Council Policy Committee (CPC) is exploring ways to encourage more widespread adoption of the electronic version of the agenda book. One option under consideration is a shift from "opt-out" for the printed book to "opt-out" for the electronic book (i.e., the electronic version as the default option) for all Councilors. As to Alternate Councilors, they were sent the electronic agenda for the Boston meeting, with a print copy available only upon request. CPC is planning a clicker test vote at the 2015 Fall National Meeting in Boston to assess the receptiveness of Council to a change in the policy regarding print agenda books. We hope that you will all consider the possibility of trying out the electronic agenda book for Council meetings.

## Scheduling Change for 2016 Committee Appointment Process

Wayne E. Jones, Jr., Chair, Committee on Committees

The December meeting of the ACS Board of Directors will be held later than usual, December 12-15, just prior to the 2015 International Chemical Congress of Pacific Basin Societies (Pacifichem).

Due to this scheduling change, the ACS Board Chair will not be elected until this time. Since the appointments and reappointments for the Society and the Joint Board-Council Committees must be approved by both the ACS Board Chair and ACS President-Elect, the meeting to review and approve the committee recommendations will be held on Tuesday, December 15. Once the recommendations have been approved, the statutory limit, appointment and reappointment letters will be sent immediately thereafter.

The recommendations for the Standing and Other Committees of the Council are reviewed and approved by the ACS President-Elect and therefore, the statutory limit, and appointment and reappointment letters will begin going out in mid to late November. For those of you who are unaware of the category of committee yours

is under, please see the committee structure breakdown in the box below.

On behalf of ConC and the Office of the Secretary and General Counsel, we will do our best to ensure that notifications of committee appointments are made as quickly as possible after the appointments so that it does not affect the preparation of your committee meeting for March 2016. We will also ask the ConC liaisons assigned to your committee to mention this scheduling change during your committee meeting in Boston.

If you have any questions, please contact [secretary@acs.org](mailto:secretary@acs.org).

## Electronic Voting at Council Meeting



At the ACS Council Meeting in Boston, Councilors will again be using a hand-held audience response system for balloting for Elected Committees and for other votes when necessary. Early in the Council meeting, there will be a hands-on demonstration.

A numbered 'clicker' will be issued to each voting Councilor at the Council check in. These clickers will be collected after voting is completed.

**There is a \$100 fine for each clicker not returned!**

## ACS COUNCIL RELATED COMMITTEES

### Society Committees

Budget and Finance  
Education

### Council Committees

#### *Elected\**

Committees  
Council Policy  
Nominations and Elections

#### *Standing\**

Constitution and Bylaws  
Divisional Activities  
Economic and Professional Affairs  
Local Section Activities  
Meetings and Expositions  
Membership Affairs

#### *Other*

Analytical Reagents  
Ethics  
Nomenclature, Terminology  
and Symbols  
Project SEED  
Technician Affairs

### Joint Board-Council Committees

Chemical Abstracts Service  
Chemical Safety  
Chemistry and Public Affairs  
Chemists with Disabilities  
Community Activities  
Environmental Improvement  
International Activities  
Minority Affairs

Patents and Related Matters  
Professional Training  
Publications  
Public Relations and  
Communications  
Science  
Senior Chemists  
Women Chemists  
Younger Chemists

*\*must be a Councilor to serve on these committees*

**B&F Background****Net Contribution from Operations and Return on Revenue****Kristin Omberg, Chair, Committee on Budget and Finance**

In Boston, the Committee on Budget & Finance (B&F) will be briefing your Councilor Caucus on the financial status of ACS. We appreciate the time you give us, and know you have a tight schedule, so we try to keep our message concise. But we don't get a chance to say much about the financial planning at ACS, or explain why we present particular information. The Society is preparing to re-evaluate its financial targets, so I'd like to give you some background on two important financial concepts: net contribution from operations and return on revenue.

At each Councilor Caucus, B&F reports actual or projected net contributions from operations compared to the Board-approved budget. The net contribution is the difference between the Society's total revenues and expenses in a particular year. In 2014, ACS had total revenues of \$499.0M, and total expenses of \$481.1M. The net contribution from operations (the difference between the two) was \$17.9M. The net divided by total revenue is the return on revenue (ROR), or what ACS refers to as its "sustainability ratio". The 2014 ROR was 3.6%.

You may wonder why ACS—a 501(c)(3) nonprofit—generates a positive net contribution and a positive ROR. ACS is operated exclusively for tax-exempt purposes: "to promote scientific interests and inquiry, thereby fostering public welfare and education, aiding the development of our country's industries, and adding to the material prosperity and happiness of our people." That is

why the Society, founded in 1876, was chartered by the U.S. Congress in 1938, and it is why we still exist 139 years later. But organizations—even nonprofits—don't endure for 139 years without a solid financial base.

ACS targets an annual ROR between 2.50 and 5.00% (between about \$12M and \$25M over the past few years). This range was set at the last financial planning conference in 2011, and will be periodically reevaluated in the future. The 2014 ROR of 3.6% was solidly in the middle of this range. According to the American Society of Association Executives (ASAE), this ROR is also solidly mid-range among similarly sized nonprofits. Enduring nonprofits consistently strive for positive RORs to ensure that expenses don't outpace income (leading, ultimately, to insolvency), and to build reserves, or unrestricted net assets, that can absorb irregular, unanticipated or new expenses in subsequent years.

One of the irregular expenses we've discussed at previous Caucuses is related to the Society's (now-closed) postretirement benefit plans (i.e., defined-benefit pension and retiree medical plans). Postretirement benefit liabilities fluctuate with changes in long-term interest rates. ACS has an obligation to ensure that the unfunded postretirement benefit plan obligations are appropriately recognized in the financial statements. In recent years, interest rates have declined causing plan liabilities to rise and increasing the plans' underfunding. As a result, ACS has incurred sizable accounting charges that have reduced its unrestricted net assets. This

type of irregular charge is an example of why organizations like ACS need to generate positive RORs.

Unanticipated and new expenses are also important considerations. Paul C. Light, an endowed Professor at New York University's Robert F. Wagner Graduate School of Public Service and Senior Fellow at the Brookings Institute, has studied nonprofit organizations for over twenty years. In various forums, he has estimated that between 25,000 and 100,000 nonprofits failed (i.e., became insolvent or irrelevant) over the last decade. Light asserts that nonprofits must possess four characteristics to endure future uncertainty: alignment with a well-defined mission, alertness, agility and adaptability. The ACS Strategic Plan and Society Program Portfolio Management Process guide our alignment with mission. The Board Committee on Planning's Environmental Scan provides alertness to emerging trends. Agility and adaptability—the ability to move quickly to respond to unexpected events, and realign as the environment evolves—are common activities across the Society; however, they require financial reserves. The Society's ability to expeditiously implement new programs such as the American Association of Chemistry Teachers, or technology platforms such as the ACS Network, relies on the availability of financial resources that can be rapidly invested in a new activity. These new activities, in turn, are critical to keeping the ACS relevant in today's world. In Boston, when B&F briefs your Councilor Caucus, I hope

**GREAT CHEMISTRY HAPPENS AT REGIONAL MEETINGS****2015****Midwest****Regional Meeting (MWRM)**

October 21-24  
St. Joseph, MO

**Southeast/Southwest  
Regional Meeting  
(SERMACS)/(SWRM)**

November 4-7  
Memphis, TN

**Western****Regional Meeting (WRM)**

November 6-8  
San Marcos, CA

**2016****Central****Regional Meeting (CERM)**

May 18-21  
Cincinnati, OH

**Mid-Atlantic****Regional Meeting (MARM)**

June 9-12  
Riverdale, NY

For more information,  
link to the individual  
meeting sites from  
[www.acs.org/meetings/  
regional](http://www.acs.org/meetings/regional)

you'll look at the net contribution slide with new eyes. A sustained positive net contribution is essential to ensuring ACS will be around for the next 139 years—or even longer. I also hope you'll be inspired to learn more about the finances of ACS! Information is on the ACS website at <http://www.acs.org/content/acs/en/about/aboutacs/financial.html>, or you can ask any representative of B&F.

## ACS Strategic Plan for 2015 and Beyond

The *ACS Strategic Plan for 2015 and Beyond* defines the Society's value proposition to our volunteer leaders, our members and the chemical enterprise. From our Core Values to our Goals to the opportunities for stakeholders to "Get Involved" the plan positions the Society to address the challenges that our members, the scientific community, and the world face.

We continue in the strategic direction that will enable us to achieve our Vision of "Improving people's lives through the transforming power of chemistry" and our Mission to "Advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people." Substantive changes to the plan are reflected in the Objectives that the Board and its Planning Committee have developed. As we make progress in these areas, we are advancing our Goals and our offerings to chemistry and chemists. Each goal presents Ongoing Activities, Recent Progress, and ways in which our members can "Get Involved" in the ACS programs that will make the plan a success. You can find detailed information about the plan at <http://strategy.acs.org>.

ACS will marshal our unique resources to:

- ◆ **Goal 1: Provide Information**  
Be the most authoritative, comprehensive, and indispensable

provider of chemistry-related information.

- ◆ **Goal 2: Advance Member Careers**  
Empower an inclusive community of members with networks, opportunities, resources, and skills to thrive in the global economy.
- ◆ **Goal 3: Improve Education**  
Foster the development of the most innovative, relevant, and effective chemistry education in the world.
- ◆ **Goal 4: Communicate Chemistry's Value**  
Communicate chemistry's vital role in addressing the world's challenges to the public and policymakers.

Governance input is vital in ensuring that the ACS Goals remain focused on achieving our Vision, and Mission. You are invited to share any ideas and suggestions for the Society's strategic direction at [strategy@acs.org](mailto:strategy@acs.org) or request additional plan cards. Councilors and Committee members are encouraged to review the strategic plan as strategic directions are developed for the coming year. Your continued partnership makes it possible for the Society to work that you do for the Society on behalf of chemists and the chemistry enterprise. Thank you!

## ACS International Activities in Thailand

Thailand is a country in South East Asia with a thriving chemistry enterprise. On June 18 – July 3, 2015 several members of the International Activities Committee (IAC) and ACS Office of International Activities (OIA) traveled to Thailand to conduct the ACS Building Opportunities Out of Science and Technology (BOOST) professional and scientific development workshops. This BOOST program is a continuation of a similar offering in 2013 in Malaysia and Indonesia and was funded by the U.S. Department of State. It was planned in collaboration with the Chemical Society of Thailand (CST) and the ACS International Chemical Sciences Chapter in Thailand. Topics covered included Communicating Science, Publishing Research, Grant Writing and Career Pathways. Six ACS facilitators (two OIA staff, three IAC members and the Chair of ACS Thailand International Chapter) held one-day workshops in five cities in Thailand, hosted respectively by Chulalongkorn University, Khon Kaen University, Chiang Mai University, Prince of Songkla University, and Thammasat University. Each workshop was attended by between 88 and 130 participants from all areas of physical and life sciences and engineering, with a total

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## 2016 Standing and Other Committee Chairs Announced

Acting on the recommendation of the Committee on Committees (ConC), ACS President-Elect Donna Nelson has appointed or reappointed chairs for the Council Standing and Other Committees, effective January 1, 2016. Congratulations!

### 2016 Standing Committee Chairs

#### **Constitution and Bylaws**

James C. Carver (reappointment)

#### **Divisional Activities**

Rodney Bennett (appointment)

#### **Economic and Professional Affairs**

Rick Ewing (reappointment)

#### **Local Section Activities**

Martin D. Rudd (reappointment)

#### **Meetings and Expositions**

John Pochan (appointment)

#### **Membership Affairs**

Jim Landis (reappointment)

### 2016 Other Committee Chairs

#### **Analytical Reagents**

Paul Bouis (reappointment)

#### **Ethics**

Keith E. Vitense (reappointment)

#### **Nomenclature, Terminology and Symbols**

TBD – after the N&E election in August

#### **Project SEED**

Anna G. Cavinato (reappointment)

#### **Technician Affairs**

Kara Allen (appointment)

## ACS President and Corporation Associates: Continuing to Improve ACS for Industry

Diane Grob Schmidt, ACS President and Dawn Mason, Chair, Committee on Corporation Associates

In the last issue of the Councilor Bulletin, we gave you an update on our progress to improve ACS for industry. Improvement is a continuous process, and we have more to tell you about our progress to date.

Early in the year, the Committee on Corporation Associates (CA) developed a strategic plan for the next two years to address the needs of industry scientists and the companies that employ them. The CA mission is **to influence ACS programs**, products and services to meet the needs of chemistry-based enterprises, while providing a business and corporate voice to the ACS membership and Board of Directors. Our aspiration is that these changes will catalyze innovation through a thriving partnership between industry and ACS. One of the CA focus items is to better communicate challenges facing chemistry-based companies. CA will analyze and share data collected on companies and their employees, identify unmet needs, and communicate findings to governance units throughout the Society. In addition to these drivers, CA committed to contribute to Society efforts in public policy, and to provide strategic funding to programs throughout the Society to aid industry members.

At the ACS National Meeting in Denver, both of us made presentations to the ACS Board of Directors detailing concerns raised by members working in industry. In addition to meeting with the Board, we advocated for industry members in committee meetings, Councilor caucuses, and with several divisions.

During the CA meeting in Denver, the outcomes of recent studies and surveys of industry members were discussed. Satisfaction of industry scientists was low in several areas due to gaps in ACS programming. The survey identified the items most important to industry members as topics that are relevant to their current job, topics and training that provide members with new information and increased productivity, networking/collaboration, and ways of improving company processes. The survey also indicated industry attendance is low at national meetings because industry members are unable to find what they need to take back to their companies and show that they connected to make business decisions.

To address these concerns, we are working with ACS staff to improve services to industry members. Examples of these improvements include the creation of a new website for industry at [www.acs.org/industry](http://www.acs.org/industry). The latest version, which was rolled out this summer, has sections devoted to networking, innovation, research reports, professional training, meetings & conferences, webinars, and a directory of service providers & consultants.

Staff was also asked to retune the *Industry Insights* newsletter (example issue: [May 13, 2015](#)), and to create an [Industry Voices blog](#) to meet industry member needs for timely information and stories related to life in industry. The newsletter now has over 33,000 subscribers and readership of the blog is growing steadily. An [online registration form](#) was created for the newsletter to facilitate subscriptions.

To help with networking, Corporation Associates hosted an Industry Networking Event Monday evening at the ACS National Meeting in Denver. Estimated attendance for the event was 130

people. In a survey of attendees, more than four in five respondents agreed or strongly agreed that there was a good diversity of industry professionals to meet (89%), that they had high quality conversations with industry professionals (89%), that they were satisfied with the Industry Networking Event (83%), and that the format was conducive to a good networking experience (82%). A similar event is planned for the ACS National Meeting in Boston on Monday, August 17, 2015 in the Boston Convention and Exhibition Center.

To facilitate industry scientists finding more company relevant content at our national meetings, we have asked staff to publish the names and abstracts of plenary and Kavli speakers earlier. Other prominent symposia and speakers are being identified through divisional efforts. For example, listings of symposia predicted to attract 250 or more audience members have been published as [Big Draws](#) for the Boston meeting.

CA is cosponsoring an industry-related ACS Presidential Symposium entitled “Transforming University-Industry Partnerships for an Innovative Future” that will be held on Tuesday, August 18 in Boston. This symposium will highlight the role of better university-industry partnerships in driving more innovation that will lead to a more competitive nation.

This symposium will also explore the current trends and improvements that have been made as well as options for further enhancing relationships that result in innovation. Speakers will challenge the existing framework for partnerships with perspectives on how to better enable, execute, and energize collaboration. In addition, the impact on individuals will be explored, including graduate student perspectives on benefits and challenges from industrial collaborations.

We will honor our [Heroes of Chemistry](#) from industry in Boston with a gala event on Sunday night. Since 1996, the ACS Heroes of Chemistry program has recognized chemical scientists whose work in various fields of chemistry and chemical engineering has led to the successful innovation and development of commercial products based on chemistry. This year we will honor 6 teams.

Innovative Product	Company
ELIQUIS® (apixaban)	Bristol-Myers-Squibb
POMALYST® (pomalidomide)	Celgene
Dow INSITE™	Dow Plastics
Eastman TRITAN™	Eastman Chemical Company
HARVONI®	Gilead Sciences, Inc.
XELJANZ®	Pfizer

In partnership with the divisions on Professional Relations, Small Chemical Business, and Business Management & Development, as well as the Committee on Chemical Health and Safety,

(Continued on page 7)

## Consultative Committee for Amount of Substance: Metrology in Chemistry and Biology (CCQM) in Boston

Albert C. Censullo Chair, Committee on Nomenclature, Terminology, and Symbols

As chemists, we are all intimately familiar with the workings of the system of measurements known commonly as “the Metric System”, but more formally as the International System of Units (Système International d’Unités, or SI). This system spans all aspects of chemical measurements, providing units for time, temperature, length, mass, amount of substance, current, and luminous intensity. With roots dating back to the time of the French Revolution, the SI has expanded and evolved, in response to the changing needs of the measurement community. The system is now poised for a major revision in its definitions of units, with changes affecting all areas of the worldwide chemical enterprise.

The ACS Committee on Nomenclature, Terminology, and Symbols (NTS) has as one of its stated duties: “(to act) on behalf of the ACS Council, in matters relating to the chemical usage of nomenclature, terminology, symbols, and units...” To address this charge, NTS has maintained a close watch on developments in the proposed redefinitions of SI units. Of particu-

lar interest to chemists are the definitions of the mole and kilogram. At the Fall 2014 ACS meeting in San Francisco, NTS sponsored a symposium “Redefining the Mole and Kilogram: Impact on Chemistry”. During that symposium, it was suggested that an opportunity existed for a joint meeting of the Consultative Committee for Amount of Substance: Metrology in Chemistry and Biology (CCQM) and the American Chemical Society at the Fall meeting in Boston. The CCQM is the body responsible for providing (among other things) recommendations on the definition of the mole to the International Bureau of Weights and Measures (BIPM).

NTS is pleased to announce that it will co-sponsor a symposium with CCQM at the Boston meeting. This is the first such joint project, allowing our Society’s members to have a first-hand look at the workings of CCQM, and the mechanism by which standards for units become developed. This symposium could not have occurred without the strong support of the current president of CCQM, Dr. Willie May. Dr. May also serves as Under Secretary of Commerce for Standards and Tech-

nology, as well as Director for the National Institute of Standards and Technology (NIST).

The full day symposium, held on August 19, in Room 109B - Boston Convention & Exhibition Center, will consist of two sessions. The morning session, “Session I: The Consultative Committee on Metrology in Chemistry and Biology: Who We are, What We Do, and Why You Should Care”, will focus on the role of CCQM. The afternoon session, “Session II: Redefinition of the International System of Units”, will outline the status of proposed new definitions for the mole and kilogram.

Additional information on the symposium may be found in the ACS program guide, or online at <https://ep70.eventpilotadmin.com/web/page.php?page=Session&project=ACS15fall&id=200926> for Session I and at <https://ep70.eventpilotadmin.com/web/page.php?page=Session&project=ACS15fall&id=200925> for Session II.

We hope that you will be able to take advantage of this rare opportunity to hear from CCQM on this important topic.

### ACS for Industry

(Continued from page 6)

we produced a new [ACS Program in a Box](#) webinar series for small chemical businesses. The first program in the series “[How to Create a Safety Culture while Growing Your Business](#)” was held on April 14<sup>th</sup> at 7:00 pm ET. A total of 13 groups from across the U.S. and Mexico attended the live event. A second event is planned for broadcast on November 10. In addition to the webinar content, attendees also appreciated the opportunity to network with other small business owners in their area.

And last, but not least, we worked with the ACS Webinars® team along with the Division of Medicinal Chemistry and the American Association of Pharmaceutical Scientists to produce the 2015 Drug Design and Delivery Symposium for industrial chemists. Attendance for these monthly sessions so far has ranged from 800 to 1,200 people. The last session in the series will broadcast in November. Special thanks to the program organizers, Dr. Nicholas Meanwell, and Dr. John Morrison of Bristol-Myers Squibb, and our program speakers.

It has been a busy year so far, but we’re not done yet. Stay tuned as we continue to improve ACS for industry!

### CPT Announces New Guidelines for Bachelor’s Degree Programs

The Committee on Professional Training is pleased to announce that the new 2015 *ACS Guidelines for Bachelor’s Degree Programs* were approved and published on the ACS website in March. The document can be found at [www.acs.org/cpt](http://www.acs.org/cpt). Most of the supplements that provide guidance on curriculum content and other aspects of the Guidelines are being updated and will be available on the CPT web pages following the Boston meeting. CPT has organized a symposium scheduled for Monday afternoon at the Boston meeting entitled, “Promoting Engaged Student Learning through the ACS Guidelines.” The talks will explore strategies for incorporating active student learning strategies into the curriculum and includes examples of classroom- and laboratory-based activities. The Committee cordially invites you to attend.

#### Council Policy Committee Open Forum

Sheraton Boston Hotel  
Back Bay C  
Tuesday, August 18, 11:00 –11:30 a.m.

## Project SEED Launches Its 50th Anniversary Goal

Anna Cavinato, Chair, Committee on Project SEED

Two thousand eighteen will mark the 50<sup>th</sup> anniversary of Project SEED and the committee has set an ambitious goal for this special celebration: to expand the program to all 50 states! Recently, the committee established a Geographic Expansion Subcommittee whose role is to promote the program across the nation and its territories and find connections in states where the program is not yet established. At the Denver meeting in spring 2015, the committee approved the Geographic Expansion vision statement “*By April 2018 a Project SEED program will be established in all fifty states and territories of the United States*”. Though ambitious, this goal is not impossible. In 2015 forty states along with the District of Columbia and Puerto Rico participated in

Project SEED. North Dakota, Hawaii, Connecticut, Alaska, Nevada and Utah were among new states to establish a new program.

Project Coordinator David Cunningham was instrumental in reestablishing a Project SEED program in Hawaii, which had not supported Project SEED since 1992. Currently two Summer I students, from the Kamehameha High School Hawaii Campus, are working at the University of Hawaii, Hilo. Marybeth De-Rego is working with Tara Hitzki, Analytical Lab Manager, conducting analysis of micro and macro nutrients and stable isotopes of carbon and nitrogen in soil, water, plant and animal tissue. And Jaynah Dias is working at the Core Genomics facility with mentor Anne Veillet learning chemical and biochemical processes and procedures utilized in a

state of the art genomics laboratory.

We need volunteers from ten states, Arizona, Arkansas, Kentucky, Maine, Montana, Oklahoma, Rhode Island, S. Dakota, Washington, and Wyoming to join in and help realize Project SEED 50<sup>th</sup> anniversary goal!

Of course, for Project SEED to continue to expand the educational opportunities for high school students across the nation more coordinators and mentors will be needed and more funding will be necessary to support the programs. How can you help? Here are some easy ways! As Councilor in your Section, support Project SEED by raising awareness about the program among Section members, asking the Section to establish a program if one is not already in place or expand existing programs, and providing

matching funds to help support student internships. Information on how to host a Project SEED program and recommendations for seeking funds are outlined on the ACS website. The committee also hopes to count on your generous support. Please donate to Project SEED when renewing your membership and support our fundraising efforts. Even small contribution will make a difference.

If you would like to learn more about Project SEED and how you can help with its geographic expansion goal, please plan to attend the Committee open meeting on Sunday morning. The committee members and ACS staff look forward to working with you to provide great educational opportunities to students across all fifty states.

## International Activities, Thailand

*(Continued from page 5)*

of 539 participants among all five locations, exceeding the project's objective of 400 participants by 35%. The first review of evaluations was very positive, and a further analysis will be done in July. The event will culminate with a train-the-trainer institute in October through a competitive application process from among the workshop participants.

During the July trip, OIA staff and IAC leadership worked with the ACS Thailand International Chapter to develop an enhanced promotion and membership value and engagement plan in order to encourage more membership, involvement and activities for the ACS Thailand Chapter. Using the BOOST workshops as a natural audience, the ACS team worked to create and present a member-

ship value presentation to over 500 Thai chemists, engineers and related scientists, encouraging them to learn more about ACS and the ACS Thailand International Chapter.

In addition, the ACS team attended two conferences in Bangkok in June: the Food Innovation Asia Conference, hosted by the Food Science and Technology Association of Thailand (FoSTAT), and the International Polymer

Conference of Thailand (IPCT), hosted by the Polymer Society of Thailand. The ACS team also conducted networking meetings with leaders of each organization, and the ACS Thailand Chapter made connections that should produce future collaborations with both organizations.

## C&B Committee Needs Your Help

If you are a Councilor and if you have not yet made up your mind about which committee you might consider for your committee choice in 2016, please consider membership on the Committee on Constitution and Bylaws (C&B). This committee reviews petitions for proposed changes to the Society's Constitution and Bylaws, and updates guidelines documents and reviews bylaw changes proposed by local sections, divisions, and international chemical sciences chapters). C&B meets all day Sunday during ACS national meeting, we work throughout the year via email, and occasionally we hold conference calls. C&B is a good committee choice if you want to learn about Society governance and have an impact. Contact us at [bylaws@acs.org](mailto:bylaws@acs.org) if you might be interested.

## Complimentary SciFinder Access from CAS Keeps ACS Members In The Know!

As an ACS member, you are eligible for 25 complimentary activities using SciFinder®, the world's most complete source for references, substances and reactions in chemistry and related sciences. This special program is available to ACS members per each annual membership term and is provided for your personal, non-commercial use. Join more than 30,000 of your ACS member colleagues who are already enjoying this benefit!

The ACS Member SciFinder Benefit allows you to explore and analyze the breadth of CAS content and MEDLINE® (NLM) for your personal use so you can quickly find and analyze information to stay current in your field of interest or to help with your job search.

What sets SciFinder apart from other research tools? CONTENT! Did you know that SciFinder is the only research tool with access to the world's most reliable and largest collection of substances, reactions and references from both journals,

including the prestigious ACS Publications journals, and patents? A global network of scientists update content daily to ensure you have access to the most timely and accurate information available. Use SciFinder to:

**Get substances** – access the world's most trusted resource for substance information including chemical structures, chemical names, CAS Registry Numbers®, properties, commercial availability and regulatory information.

**Get reactions** – find dependable and current chemical reaction information from our extensive databases including reaction schemes, experimental procedures, conditions, yields, solvents, catalysts, as well as commercial availability of substances with direct links to leading producer and supplier sites.

**Get references** – get the information you need when you need it with our unrivaled collection of the world's most up-to-date chemistry and related science information found in journals, patents, dissertations

and more. SciFinder is the only source that brings you information from early discovery through clinical trials with the combined coverage of CAPLUS<sup>SM</sup> and MEDLINE®

SciFinder's easy-to-use search features offer fast and convenient access to information that can help ACS members quickly and efficiently perform investigative research on a prospective employer or stay up-to-date on the latest research trends. We encourage all ACS members to learn more about the ACS Member SciFinder Benefit and the plethora of other valuable benefits available only to you.

Not an ACS member? ACS members comprise the world's largest society for chemical professionals and are part of an elaborate network of colleagues across the globe who share a passion for chemistry and research. In addition to the ACS Member SciFinder Benefit, ACS members receive valuable professional and personal benefits, including access to

exclusive ACS Publications benefits, such as online access to 25 articles from ACS Journals, eBooks and C&EN; career development resources; continuing education and professional development; networking opportunities; insurance and medical discounts and much, much more. Visit the [ACS Membership site](#) to learn more or join today!

The ACS Member SciFinder Benefit is available to all ACS Members in good standing for personal research (see [Terms and Conditions](#)). Should you need SciFinder for commercial, institutional or consulting purposes, CAS representatives would be delighted to discuss your professional needs and help identify a SciFinder solution that will affordably support your commercial endeavors. Should you need SciFinder for commercial research, please visit the CAS website to [request more information](#) or to contact the [CAS Customer Center](#) to request additional information on pricing that will meet your requirements.

## Bulletin 5 Updated as of July 1

The Committee on Constitution and Bylaws (C&B) is happy to announce that the ACS Governing Documents (Bulletin 5) have been updated as of July 1, 2015, and are available only online: [www.acs.org/bulletin5](http://www.acs.org/bulletin5). You can search for terms (Control-f keys) or copy and paste into a Word document only those sections that you need. The Table of Contents is hyperlinked for your convenience, or you can use the bookmarks. You can also access this information from the main ACS web page ([www.acs.org](http://www.acs.org)): click on Governance at the bottom, under ACS, and then under "Related Information", click on ACS Governing Documents. We suggest that you save the PDF on your computer for easy access.

### Committee descriptions in Bulletin 5

Did you know that your Committee's duties are listed in Bulletin 5? Many of the descriptions can be found either in Bylaw III, Regulation III, or in the Supplementary Information. To search for your committee, try using the Control-f keys.

### Unit bylaws for Divisions, Local Sections, and International Chapters

The current official bylaws for your Division, Local Section, and/or International Chemical Sciences Chapter are posted at [www.acs.org/bulletin5](http://www.acs.org/bulletin5). Or if you go to ACS's main web page:

*(Continued on page 12)*

## ACS Fellows Program



**Thirty-four members, representing 25 ACS National Committees**, were selected to the 2015 class of ACS Fellows. They are being recognized for their outstanding achievements in and contributions to Science, the Profession, and the Society. A complete list of 2015 ACS Fellows and more information about the ACS Fellows Program can be found at [www.acs.org/fellows](http://www.acs.org/fellows).

### Analytical Reagents

Wayne C. Wolsey

### Board of Trustees, Group Insurance Plans for ACS Members

Bonnie A. Charpentier  
John A. Whittle

### Budget and Finance

Bonnie A. Charpentier  
Willem R. Leenstra  
Marinda Li Wu

### Chemical Abstracts Service

Frankie Kay Wood-Black

### Chemical Safety

Harry J. Elston

### Chemistry and Public Affairs

Inara Mencis Brubaker  
Anthony Jay Dias

### Chemists with Disabilities

Karl S. Booksh  
John J. Johnston

### Community Activities

Marilyn D. Duerst

### Constitution and Bylaws

John A. Whittle

### Corporation Associates

Dawn Mason

### Divisional Activities

Rodney Morris Bennett  
Mark D. Frishberg

### Environmental Improvement

George P. Cobb III  
Anthony M. Noce

### International Activities

Ellene Tratras Contis

### Meetings and Expositions

Mark Anthony Benvenuto  
R Daniel Libby  
Michael Singer

### Minority Affairs

Mary K. Boyd

### Nomenclature, Terminology, and Symbols

Mark Anthony Benvenuto  
Wayne C. Wolsey

### Patents and Related Matters

Ramesh C. Kumar  
Joseph M. Mabry

### Petroleum Research Fund

David C. Martin

### Professional Training

Steven A. Fleming

### Project SEED

Joshua Pak

### Public Relations and Communications

John M. Malin

### Publications

Michael Appell

### Science

Matthew A. Fisher

### Technician Affairs

Richard Partch

### Women Chemists

Amber Flynn Charlebois  
Christine S. Chow  
Renee S. Cole

**Thirty-one Councilors**, listed below, were selected to the 2015 class of ACS Fellows. They are being recognized for their outstanding achievements in and contributions to Science, the Profession, and the Society. A complete list of 2015 ACS Fellows and more information about the ACS Fellows Program can be found at [www.acs.org/fellows](http://www.acs.org/fellows).

Amjad Ali	Anthony Jay Dias	Willem R. Leenstra	Nora S. Radu
Michael Appell	Dionysios (Dion) Dionysiou	R. Daniel Libby	Michael Singer
Rodney Morris Bennett	Marilyn D. Duerst	John M. Malin	Ellene Tratras Contis
Mark Anthony Benvenuto	Harry J. Elston	David Nalewajek	John A. Whittle
Mary K. Boyd	Mark D. Frishberg	Gordon L. Nelson	Wayne C. Wolsey
Amber Flynn Charlebois	Raj P. Singh Gaur	Anthony M. Noce	Frankie Kay Wood-Black
Christine S. Chow	John J. Johnston	Joshua Pak	Marinda Li Wu
Renee S. Cole	Ramesh C. Kumar	R. Lee Penn	



## Guidelines for Special Discussions at ACS Council Meetings

Special Discussions may be considered by the Council Policy Committee (CPC) for either or both of the Council meetings per year if time permits on the proposed agenda. Any ACS component, group or Council member may make suggestions to CPC regarding topics.

If a follow-up to the discussion is appropriate, a mechanism for follow-up should be established. The follow up may occur in an existing committee, division, or task force. If there is no clear alignment with those organizations' charters, the President and Council Policy Committee (CPC) should determine the best mechanism

In considering topics for inclusion in an agenda, CPC should consider topics such as those that:

- are relevant to a broad range of ACS members/Councilors;
- align with presidential themes or initiatives (for example, Graduate Education);
- engage the scientific or intellectual abilities of the Council in addressing substantive issues (for example, Climate Science);
- impact the chemical enterprise (for example, safety in academic laboratories); or
- are specific to Council work processes and issues (for example, the previous Special Discussion on moving Council meetings to Tuesdays).

The person or group making the suggestion about a special discussion should state clearly the purpose of the discussion. For example, is it to inform a group that is addressing a particular issue, or is it to brainstorm solutions?

A short written introduction to the topic and discussion should be included in the Council agenda book. The group or person making the suggestion should provide the Office of the Secretary with their suggestion eight (8) weeks before the Council meeting to allow time for CPC review and placing the proposal in the Council agenda.

A five-minute verbal presentation on the topic should be delivered by the President (or designee) to the Council at the beginning of the discussion.

Discussion should be limited to thirty (30) minutes, with no Councilor being permitted to speak for more than one (1) minute, and with no Councilor speaking more than once. The President should announce that no additional Councilors will be recognized when it appears that the Councilors waiting to address the issue will take up all the time remaining.

No motions will be in order during consideration of the Special Discussion item.

The discussion topic and graphics need to be approved by CPC. A sample motion from a CPC Vice-Chair report follows: "I move that the ACS President be authorized to present to Council on dd/mm/yyyy, with projected graphics, on the subject, "x"; that the topic be introduced in a no more than five-minute presentation; that the discussion following the presentation be limited to thirty (30) minutes, with no Councilor speaking for more than one (1) minute, and with no Councilor speaking more than once; and that no motions be in order during consideration of this agenda item at the Council meeting."



The ACS Board of Directors  
Hosts



George M. Whitesides  
"Reengineering Chemistry"

SUNDAY, AUGUST 16, 2015  
Noon – 1:00 PM Ballroom West (Level 3)  
Boston Convention & Exhibition Center

Doors Open at 11:45 a.m.

*Sandwiches and soft drinks will be available to the first 200 attendees.*

Meet the  
Candidates for  
ACS President-Elect, 2016



G. BRYAN BALAZS



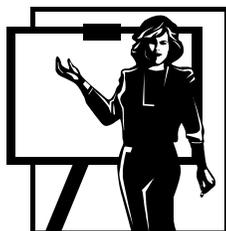
ALLISON A. CAMPBELL

at the ACS Exposition  
Monday, August 17, 2014 1 - 4 p.m.

BOSTON CONVENTION &  
EXHIBITION CENTER Halls A&B1

Located next to the ACS Booth

*Sponsored by the Committee on Nominations and Elections*



*Don't Miss It!*

## SCI-MIX

Monday, August 17, 2015  
8 - 10 p.m.

**Boston Convention & Exhibition Center**

## ACS Councilor Caucuses

### Sunday, August 16, Sheraton Boston Hotel

6:00 p.m.	District I	Berkeley A/B
	District II	Fairfax A
	Middle Atlantic	Republic B
	District IV	Fairfax B
	District V	Hampton A/B
	District VI	Republic A

### Tuesday, August 18, Boston Convention & Exhibition Center

4:00 p.m.	Division Officers and Councilors	Room 107A
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## Bulletin 5

*(Continued from page 9)*

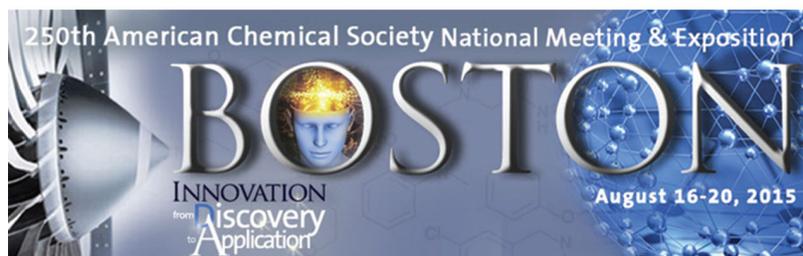
[www.acs.org](http://www.acs.org), click on Governance, then Bylaws & Petitions on the left side or the first link under Related Information; then click on Unit bylaws + guidelines, and follow the links to the official, certified bylaws. If your bylaws haven't been updated since 1970, 1980, or 1990, please click on the link UNIT BYLAWS + guidelines under [www.acs.org/bulletin5](http://www.acs.org/bulletin5). The Expedited bylaws option is the easiest and fastest, or see other options. You may also contact C&B at [bylaws@acs.org](mailto:bylaws@acs.org) or call 202-872-4071 and we'll be happy to walk you through the process.

## The Kavli Foundation Emerging Leader in Chemistry Lecture



**The Spectacular Properties of  
Porous Polymers**  
Dr. William Dichtel, Cornell University

Monday, August 17, 2015, 4:00 - 5:00 p.m.  
Boston Convention & Exhibition Center  
Ballroom West



## PRESIDENTIAL SYMPOSIA AND EVENTS

*Sponsored by the ACS President*

Photo: Peter Cutts Photography



**Diane Grob Schmidt, Ph.D.**  
ACS President

### Thursday, August 13, 2015

3:30 PM-4:30 PM  
**National Historical Chemical Landmark Designation: Edwin Land and Instant Photography**  
*(Reception will immediately follow)*  
MIT Museum  
265 Massachusetts Avenue  
Cambridge, MA 02139

### Saturday, August 15, 2015

10:00 AM-1:00 PM  
**Presidential Outreach Event: Exploring Our World Through Chemistry**  
(Cosponsored by CCA and ACS Member Communities)  
Boston Children's Museum  
308 Congress Street  
Boston, MA 02210

### Sunday, August 16, 2015

8:30 AM-2:30 PM  
**National Science Foundation's Centers for Chemical Innovation**  
(Cosponsored by AGRO, BMGT, CARB, COLL, ENFL, INOR, PROF, SCHB & WCC)  
Westin Boston Waterfront, Burroughs Room (Harborwing, Concourse Level)

1:30 PM-3:00 PM  
**"Mystery of Matter" hosted by PBS**  
(Cosponsored by CPRC and the ACS Office of Public Affairs)  
Boston Convention & Exhibition Center, Room 52A-B (Exhibition Level)

1:30 PM-5:00 PM  
**21st Century Chemistry Education: Formal and Informal**  
(Cosponsored by AGRO, CARB, CHAS, CHED, CINF, COLL, ENFL, PROF, SOCED & WCC)  
Boston Convention & Exhibition Center, Room 158 (Level One)

2:00 PM-6:00 PM  
**Edwin Land and Instant Photography: Massachusetts' First National Historic Chemical Landmark**  
(Sponsored by HIST and Cosponsored by PRES)  
Boston Convention & Exhibition Center, Room 50 (Exhibition Level)

3:00 PM-6:00 PM  
**National Science Foundation's Centers for Chemical Innovation Poster Session**  
(Cosponsored by AGRO, BMGT, CARB, COLL, ENFL, INOR, PROF, SCHB & WCC)  
Westin Boston Waterfront, Galleria (Harborwing, Concourse Level)

### Monday, August 17, 2015

8:30 AM-12:00 PM  
**21st Century Chemistry Education: Formal and Informal**  
(Cosponsored by AGRO, CARB, CHAS, CHED, CINF, COLL, ENFL, PROF, SOCED & WCC)  
Boston Convention & Exhibition Center, Room 158 (Level One)

8:30 AM-12:00 PM  
**Memories of Henry Hill: His Legacy in Science and in Professional Service**  
(Sponsored by HIST & Cosponsored by PRES, AGRO, CARB, COLL, ENFL, POLY, PROF & SCHB)  
Boston Convention & Exhibition Center, Room 50 (Exhibition Level)

8:30 AM-4:50 PM  
**ACS Scholars: Rising Stars in Academe and Industry**  
(Cosponsored by AGRO, CARB, CMA, COLL, ENFL, ENVR, PROF, SCHB & YCC)  
Sheraton Boston Hotel, Back Bay Ballroom A (2nd Floor, Main Building)

### Tuesday, August 18, 2015

8:00 AM-5:00 PM  
**Transforming University-Industry Partnerships for an Innovative Future**  
(Cosponsored by AGRO, BMGT, CARB, CHAS, COLL, ENFL, ENVR, MEDI, PROF & SCHB)  
Westin Boston Waterfront, Burroughs Room (Harborwing, Concourse Level)

5:00 PM-7:00 PM  
**Henry A. Hill Award and Reception**  
(Sponsored by PRES)  
Seaport Hotel, Plaza Ballroom A-B (Plaza Level)



## 2015 ACS National Election

### President-Elect, 2016 - Candidates



**G. Bryan Balazs**  
Lawrence Livermore  
National Laboratory  
Livermore, CA



**Allison A. Campbell**  
Pacific Northwest  
National Laboratory  
Richland, WA

### Directors-at-Large, 2016-2018 - Candidates



**Lee H. Latimer**  
NeurOp, Inc.  
Oakland, CA



**Willem R. Leenstra**  
University of  
Vermont  
Burlington, VT



**Ingrid Montes**  
University of  
Puerto Rico  
San Juan, PR



**Mary Jo Ondrechen**  
Northeastern  
University  
Boston, MA



**Thomas W. Smith**  
Rochester Institute  
of Technology  
Rochester, NY

### Director, District I, 2016-2018 - Candidates



**Thomas R. Gilbert**  
Northeastern University  
Boston, MA



**Laura E. Pence**  
University of Hartford  
West Hartford, CT

### Director, District V, 2016-2018 - Candidates



**John E. Adams**  
University of Missouri  
Columbia, MO



**Kenneth P. Fivizzani**  
Retired, Nalco Company  
Naperville, IL