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AMERICAN CHEMICAL SOCIETY

Council Agenda

**Wednesday, March 16, 2016
8:00 AM**

Sapphire Ballroom

Hilton San Diego Bayfront Hotel

San Diego, California

COUNCIL
 AMERICAN CHEMICAL SOCIETY
 8:00 AM, March 16, 2016
 Sapphire Ballroom
 Hilton San Diego Bayfront Hotel
 San Diego, California

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DRAFT
MINUTES
COUNCIL
AMERICAN CHEMICAL SOCIETY
August 19, 2015
Boston, Massachusetts

The Council of the American Chemical Society met in Boston, Massachusetts, on August 19, 2015, beginning at 8:00 a.m. Diane Grob Schmidt, President of the Society and of the Council, presided. The following Councilors, Alternate Councilors, and accredited representatives were present:

Ex-Officio: John E. Adams, Thomas J. Barton, George M. Bodner, William F. Carroll, Jr., Pat N. Confalone, Thomas M. Connelly, Jr., Thomas R. Gilbert, Ned D. Heindel, Rigoberto Hernandez, Catherine T. Hunt, Nancy B. Jackson, Paul W. Jagodzinski, Valerie J. Kuck, Thomas H. Lane, Flint H. Lewis, Ingrid Montes, E. Ann Nalley, Donna J. Nelson, Attila E. Pavlath, Dorothy J. Phillips, Elsa Reichmanis, Barbara A. Sawrey, Diane Grob Schmidt, Kathleen M. Schulz, Bassam Z. Shkhashiri, Edel Wasserman, Marinda Li Wu.

Bylaw: Judith N. Currano, Carol B. Libby.

Divisions: *Agricultural & Food Chemistry*, Michael Appell, John W. Finley, Michael J. Morello, Agnes M. Rimando. *Agrochemicals*, Rodney M. Bennett, Jeanette M. Van Emon. *Analytical Chemistry*, Kimberly Agnew-Heard, Michelle V. Buchanan, M. Bonner Denton, Roland F. Hirsch. *Biochemical Technology*, Cynthia H. Collins*, Sadettin Ozturk, Sharon P. Shoemaker. *Biological Chemistry*, Christine S. Chow, Wendy L. Kelly. *Business Development & Management*, Janet L. Bryant, Michael Hurrey. *Carbohydrate Chemistry*, Anthony S. Serianni. *Catalysis Science and Technology*, Charles Peden. *Cellulose and Renewable Materials*, Kevin J. Edgar. *Chemical Education*, Renée S. Cole, Resa M. Kelly, Cheryl B. Frech*, Sally B. Mitchell*. *Chemical Health & Safety*, Robert H. Hill, Jr., Frankie K. Wood-Black. *Chemical Information*, Bonnie Lawlor, Andrea B. Twiss-Brooks. *Chemical Toxicology*, Frederick A. Beland, Penny Beuning. *Chemistry & The Law*, James C. Carver, Alan M. Ehrlich. *Colloid & Surface Chemistry*, Eric M. Furst, John N. Russell, Jr.*, Maria M. Santore, Robert D. Tilton. *Computers in Chemistry*, Luke E.K. Achenie*, Emilio X. Esposito, Ralph A. Wheeler, Henry L. Woodcock, III*. *Energy & Fuels*, Joe D. Allison, Semih Eser, Elise B. Fox, Lisa Houston. *Environmental Chemistry*, V. Dean Adams, Alan W. Elzerman, Jurgen H. Exner, Martha J.M. Wells. *Fluorine Chemistry*, David A. Dixon. *Geochemistry*, R. Lee Penn. *History of Chemistry*, Roger A. Egolf, Mary Virginia Orna. *Industrial & Engineering Chemistry*, Spiro D. Alexandratos, Mary Engelman, Leigh R. Martin*, Melanie J. Moser. *Inorganic Chemistry*, Thomas R. Cundari, Paula Diaconescu*, Marina A. Petrukhina, Silvia Ronco. *Medicinal Chemistry*, Jane V. Aldrich, William J. Greenlee, Craig W. Lindsley, Amy S. Ripka. *Nuclear Chemistry & Technology*, Silvia S. Jurisson, Graham F. Peaslee. *Organic Chemistry*, Huw M.L. Davies, Scott R. Gilbertson, Katherine N. Maloney*. *Physical Chemistry*, Teresa L. Head-Gordon, Ellen B. Stechel, Angela K. Wilson, Theresa L. Windus. *Polymer Chemistry*, Frank D. Blum, Mary Ann Meador, Robert B. Moore, John Pochan. *Polymeric Materials: Science & Engineering*, Anthony J. Dias, Benny D. Freeman, Julie L.P. Jessop, Dean C. Webster. *Professional Relations*, Lynne P. Greenblatt, R. Daniel Libby. *Rubber*, John M. Long. *Small Chemical Businesses*, Sharon V. Vercellotti.

Local Sections: *Akron*, James E. Duddey, Daryl L. Stein. *Alabama*, Tracy P. Hamilton. *Ames*, Malika Jeffries-El. *Auburn*, Christian R. Goldsmith**. *Baton Rouge*, Bryan K. Franklin. *Binghamton*, Wayne E. Jones, Jr. *Brazosport*, Carolyn Ribes. *California*, G. Bryan Balazs, Mark D. Frishberg, Sheila Kanodia, Lee H. Latimer, Alex M. Madonik, Eileen M. Nottoli, Paul F. Vartanian, Elaine S. Yamaguchi. *California Los Padres*, Albert C. Censullo. *Carolina-Piedmont*, Matthew K. Chan, Daniel Rabinovich. *Central Arizona*, Douglas J. Sawyer. *Central Arkansas*, Martin D. Perry. *Central Massachusetts*, Christopher

*Alternate Councilor

**Temporary Substitute Councilor

Masi. *Central New Mexico*, Kristin M. Omberg, Donivan R. Porterfield. *Central New York*, Alyssa C. Thomas. *Central North Carolina*, Robert A. Yokley. *Central Ohio Valley*, Gary D. Anderson. *Central Pennsylvania*, Lori S. Van Der Sluys. *Central Texas*, Diane M. Kneeland, Barry J. Streusand. *Central Wisconsin*, C. Marvin Lang. *Chattanooga*, Verrill M. Norwood, III. *Chemical Society of Washington*, Joseph M. Antonucci, Christopher W. Avery, Regina J. Cody, Richard M. Goodman*, John M. Malin, N. Bhushan Mandava*, Kim M. Morehouse, Jason E. Schaff, Stefanie S. Wittenberg. *Chicago*, Charles E. Cannon, David S. Crumrine, Kenneth P. Fivizzani, Russell W. Johnson, Fran K. Kravitz, Margaret S. Levenberg, Milt Levenberg, Inessa Miller, Barbara E. Moriarty, Susan M. Shih. *Cincinnati*, Bruce S. Ault, Roger A. Parker. *Cleveland*, David W. Ball, Dwight W. Chasar. *Coastal Georgia*, Will E. Lynch. *Colorado*, Sandra J. Bonetti, Connie Gabel, Susan MacGregor Batenhorst*, Michael D. Mosher, Susan M. Schelble. *Columbus*, Edmund T. King, Donald C. Songstad, Virginia H. Songstad. *Connecticut Valley*, Ronald D. Archer, Kevin R. Kittilstved, Laura E. Pence, Julianne M.D. Smist, Frank J. Torre. *Cornell*, Thomas A. McCarrick. *Corning*, Roger F. Bartholomew. *Dallas-Fort Worth*, Mary E. Anderson, Linda D. Schultz, E. Thomas Strom. *Dayton*, Steven Trohalaki. *Decatur-Springfield*, Harry J. Elston. *Delaware*, John Gavenonis, Tiffany N. Hoerter, Martha G. Hollomon, Nora S. Radu*. *Detroit*, Mark A. Benvenuto, James M. Landis, Jr., Walter O. Siegl. *East Central Illinois*, Amy Nicely. *East Tennessee*, Alan A. Hazari. *East Texas*, Michael Sheets. *Eastern New York*, Mary K. Carroll, Warren D. Hull, Jr. *Eastern North Carolina*, Satinder Ahuja. *Erie*, Betty Jo Chitester. *Florida*, Béla S. Buslig, Carmen V. Gauthier. *Georgia*, Lissa Dulany, David S. Gottfried, Donald G. Hicks*, Terence E. Say. *Greater Houston*, Simon G. Bott, Carolyn A. Burnley, Amber S. Hinkle, Valerie Lafitte, Mamie W. Moy, David M. Singleton. *Green Mountain*, Willem R. Leenstra. *Hampton Roads*, Lisa S. Webb. *Hawaii*, T. Blake Vance, Jr. *Heart O'Texas*, Darrell G. Watson. *Huron Valley*, Ellene T. Contis, Harriet Lindsay. *Idaho*, Joshua J. Pak. *Illinois Heartland*, Gregory Ferrence. *Illinois-Iowa*, Richard G. Rogers. *Indiana*, Dawn A. Brooks, Brian M. Mathes, Robert A. Pribush. *Indiana-Kentucky Border*, Jeff Seyler. *Inland Northwest*, Jeffrey A. Rahn. *Iowa*, Jay Shanata**. *Kalamazoo*, Lydia E.M. Hines. *Kanawha Valley*, Madan M. Bhasin. *Kansas City*, William G. Gutheil, Eckhard Hellmuth. *Kansas State University*, Viktor Chikan*. *Kentucky Lake*, Charles M. Baldwin. *La Crosse-Winona*, Claude L. Mertzzenich. *Lake Superior*, Donald K. Harriss. *Lehigh Valley*, Jeanne R. Berk, Lorena Tribe. *Lexington*, Girish S. Patil**. *Louisiana*, Alvin F. Bopp. *Louisville*, James F. Tatera. *Maine*, Mitchell R.M. Bruce. *Mark Twain*, Dawood Afzal. *Maryland*, Merle I. Eiss, Dana Ferraris, Jan E. Kolakowski, Paul J. Smith, Stephanie Watson. *Memphis*, Laura M. Wolf. *Michigan State University*, Amy M. Pollock. *Middle Georgia*, Robert J. Hargrove. *Mid-Hudson*, George W. Ruger. *Midland*, Tina M. Leaym, Dale J. LeCaptain. *Milwaukee*, Kevin W. Glaeske. *Minnesota*, Marilyn Duerst, Ramesh C. Kumar*, Sarah M. Mullins, Danae R. Quirk Dorr, Wayne C. Wolsey. *Mobile*, William M. Reichert. *Mojave Desert*, Peter Zarras. *Mo-Kan-Ok, The Tri-State*, Khamis S. Siam. *Montana*, Janice E. Alexander. *Nashville*, Judith M. Iriarte-Gross, Ruth A. Woodall. *Nebraska*, James M. Takacs. *New Haven*, Stephen E. Cantor*, Gerald J. Putterman. *New York*, Ronald P. D'Amelia, Brian R. Gibney, Barbara R. Hillery, Neil D. Jespersen, Hiroko I. Karan, Joan A. Laredo-Liddell, Anne T. O'Brien, Patricia A. Redden, Frank Romano. *North Carolina*, James L. Chao, Alvin L. Crumbliss, Richard A. Palmer, Melissa A. Pasquinelli, Laura S. Sremaniak. *North Jersey*, Amy M. Balija, Jeannette E. Brown, Amber F. Charlebois, Alan B. Cooper, Jacqueline A. Erickson, Stan S. Hall, Elizabeth M. Howson, Diane Krone, Les W. McQuire, Monica R. Sekharan, William H. Suits. *Northeast Georgia*, Maurice E. Snook*. *Northeast Tennessee*, John Engelman, II. *Northeast Wisconsin*, Martin D. Rudd. *Northeastern*, Michaeline F. Chen, Catherine E. Costello, Michael P. Filosa, Morton Z. Hoffman, Christine H. Jaworek-Lopes, Leland L. Johnson, Jr.*, Doris I. Lewis, Robert L. Lichter, Kenneth C. Mattes, R. Christian Moreton*, Jackie J. O'Neil, Mary Jane Shultz, Michael Singer, Sophia R. Su*, Ruth E. Tanner, Mark J. Tebbe. *Northeastern Indiana*, Ruth E. Nalliah. *Northeastern Ohio*, Ann Abraham**. *Northern New York*, Martin A. Walker. *Northern Oklahoma*, Maziar Sardashti. *Northern West Virginia*, Edwin L. Kugler*. *Northwest Central Ohio*, Michael D. Edmiston. *Northwest Louisiana*, Brian A. Salvatore. *Oklahoma*, Allen W. Aplett. *Ole Miss*, Jason E. Ritchie. *Omaha*, Richard B. Lomneth. *Orange County*, Robert S. Cohen, Sanda P. Sun, Sandra P. Thompson*. *Oregon*, Kevin P. Gable*. *Orlando*, Darlene K. Slattery. *Ozark*, Eric Bosch. *Panhandle Plains*, Mary E. Graff. *Penn-Ohio Border*, Doris L. Zimmerman. *Pensacola*, Allan M. Ford. *Permian Basin*, Kathryn Louie. *Philadelphia*, Anthony W. Addison, Georgia

A. Arbuckle-Keil, Melissa B. Cichowicz, Deborah H. Cook, Ella L. Davis, Anne S. DeMasi, Rick Ewing, Mark A. Forman, Kathryn A. Lysko, James K. Murray, Jr., Kathleen T. Shaginaw, John Tierney. **Pittsburgh**, Richard S. Danchik, Robert Mathers, V. Michael Mautino, Michelle M. Ward. **Portland**, Warren T. Ford*, Elaine Nam*. **Princeton**, Allen N. Jones, Louise M. Lawter. **Puerto Rico**, Néstor M. Carballeira, Jorge L. Colón*. **Puget Sound**, Gary D. Christian, Craig B. Fryhle, Gregory L. Milligan, Mark Wicholas. **Purdue**, Suzanne C. Bart. **Red River Valley**, Harmon B. Abrahamson. **Rhode Island**, Peter J. Bonk. **Richland**, Anna G. Cavinato*. **Rio Grande Valley**, Keith H. Pannell. **Rochester**, D. Richard Cobb, James H. Reynolds*. **Rock River**, Dennis N. Kevill. **Sabine-Neches**, John A. Whittle. **Sacramento**, John R. Berg, Dena J. Chubbic. **Salt Lake**, Thomas G. Richmond, Peter J. Stang. **San Antonio**, Larry C. Grona. **San Diego**, Thomas R. Beattie, Hui Cai, Desiree Grubisha, John G. Palmer, J. Kenneth Poggenburg, Jr., David M. Wallace. **San Gorgonio**, Eileen M. DiMauro, J. Ernest Simpson. **San Joaquin Valley**, Melissa L. Golden. **Santa Clara Valley**, George J. Lechner, David R. Parker*, Howard M. Peters*, Sally B. Peters, Ashley M. Piekarski*, Herbert B. Silber, Ean Warren. **Savannah River**, Christopher J. Bannochie. **Sierra Nevada**, Ana de Bettencourt-Dias. **Sioux Valley**, Jetty L. Duffy-Matzner. **Snake River**, Don L. Warner. **South Carolina**, William H. Breazeale, Jr., Scott R. Goode. **South Central Missouri**, Jyoti K. Malhotra. **South Florida**, Milagros Delgado, George H. Fisher, Zaida C. Morales-Martinez. **South Jersey**, Jennifer L. McCulley. **South Plains**, Bill Poirier. **South Texas**, Thomas R. Hays. **Southeastern Pennsylvania**, Gregory P. Foy. **Southern Arizona**, Patricia A. Schumann**. **Southern California**, Brian B. Brady, Thomas R. LeBon, Virgil J. Lee, Eleanor D. Siebert, Barbara P. Sitzman. **Southern Illinois**, Rachel Morgan Theall. **Southern Indiana**, Kenneth G. Caulton. **Southern Nevada**, Kazumasa Lindley. **Southwest Louisiana**, Omar E. Christian. **St. Louis**, Lisa M. Balbes, Lawrence Barton, Donna G. Friedman, Alexa B. Serfis. **Susquehanna Valley**, Dee Ann Casteel. **Tampa Bay**, Marie Bourgeois, Thomas A. Jackman. **Texas A&M**, David E. Bergbreiter. **Toledo**, Andrew D. Jorgensen. **Trenton**, Benny C. Chan, Matthew C. Crowe. **University of Missouri**, Justin R. Walensky. **Upper Ohio Valley**, Kevin Pate. **Upper Peninsula**, David M. Myton*. **Virginia**, Kristine S. Smetana, Ann M. Sullivan, Linette M. Watkins. **Wabash Valley**, Edward A. Mottel. **Wakarusa Valley**, Joseph A. Heppert. **Washington Idaho Border**, Richard V. Williams. **Western Carolinas**, Lucy P. Eubanks, George L. Heard. **Western Connecticut**, Linda Fasber, Lawrence K. Steffen. **Western Maryland**, Don B. Weser. **Western New York**, David P. Nalewajek, Peter M. Schaber. **Wichita**, D. Paul Rillema. **Wichita Falls-Duncan**, Keith R. Vitense. **Wilson Dam**, Michael B. Moeller. **Wisconsin**, Martha L. Casey, Ieva L. Reich. **Wyoming**, Jane V. Thomas*.

Nonvoting Councilors: Elizabeth P. Beckham, Brian A. Bernstein, Bibiana Campos-Seijo, Bonnie A. Charpentier, H.N. Cheng, Brian D. Crawford, Denise L. Creech, Katherine Glasgow, Alicia E. Harris, George E. Heinze, Douglas B. Hausner, Madeleine Jacobs, Mary M. Kirchoff, Susan S. Marine, Nina I. McClelland, Steven R. Meyers, Christi Pearson, Barbara F. Polansky, Sophie Rovner, Max B. Saffell, Sadiq Shah, David T. Smorodin, Simanco R. Staley, Frank E. Walworth, Marleen G. Weidner, Ganapati D. Yadav.

The preceding list of attendees at the Council meeting includes the following: 27 Ex- Officio Councilors; 2 Bylaw Councilors; 85 Division Councilors (76 elected, 9 alternate); 335 Local Section Councilors (305 elected, 25 alternate, 5 temporary); and 26 Nonvoting Councilors (staff and others). Approximately 55 observers were in attendance.

Resolutions

The Council ADOPTED the following resolutions as presented by Past President Attila E. Pavlath and Council Policy Committee (CPC) Vice-Chair Alan M. Ehrlich, respectively:

1. BE IT RESOLVED that the Board of Directors, Council, members, and staff of the American Chemical Society note with profound sorrow the passing of their colleague and friend, Eli M. Pearce, a longtime dedicated and active member of the Society, remembering with admiration and deep appreciation his service to the Society as its president in 2002, a member of the Board of Directors from 1999 – 2003, a Councilor for more than 27 years, a member or chair of numerous ACS bodies, and a member of the Society for 65 years.

As President of the Society, his steadfast commitment to strengthening the professional community of chemists and chemical engineers and his dedication to diversity raised the consciousness of many in the chemical enterprise of the need to make the profession truly inclusive. A passionate advocate for chemistry education reform, his challenge to examine the structure of chemical education in light of the interdisciplinary world resulted in cooperative exploration of alternatives both at home and abroad. His commitment to strong government support for science was evidenced by a significant increase in the Society's activities on Capitol Hill through its Legislative Action Network.

Eli Pearce worked tirelessly throughout his life for everyday chemists, and to ensure that women and minorities had equal opportunities for advancement in society and in their professions. He was a strong supporter of the ACS Scholars Program and was also instrumental in the establishment of the Senior Chemists Committee because he believed that retired ACS members could be meaningful ambassadors in K-12 education and in the larger public arena.

He will be remembered for his tenacious engagement in helping the Society achieve its goals in diversity, education, and outreach. The Society's members and leaders honor his memory and his contributions to chemistry and to the ACS, and extend sincere condolences to his family, colleagues, and friends.

2. BE IT RESOLVED That the Council of the American Chemical Society commemorates the passing of the following Councilors, remembering them with respect and affection, and extending sincerest condolences to their families in their bereavement:

- Dr. Richard N. Armstrong, a biochemistry and chemistry professor at Vanderbilt University, and Councilor for the Division of Biological Chemistry from 2002 to 2004.
- Dr. Ellington M. Beavers, a retired Rohm and Haas executive and entrepreneur, and Councilor for the Philadelphia Section from 1963 to 1971.
- Dr. Donald D. Bly, retired chemist from DuPont, and Councilor for the Delaware Section from 1989 to 2003.
- Dr. Grace B. Borowitz, professor of organic chemistry emerita at Ramapo College of New Jersey in Mahwah, and Councilor for the New York Section from 1975 to 2004.
- Dr. Newman M. Bortnick, retired Corporate Research Fellow for Rohm and Haas, and Councilor for the Philadelphia Section from 1968 to 1982 and 1990 to 1998, ExOfficio Councilor from 1983 to 1988 and Bylaw Councilor in 1999.
- Dr. Derek Horton, retired Isbell Chair of Carbohydrate and Natural Product Chemistry at American University, and Councilor for the Carbohydrate Chemistry Division from 1996 to 2015.
- Dr. Sandra I. Lamb, chemistry professor, and Councilor for the Southern California Section from 1989 to 1996 and the California Los Padres Section from 1997 to 2002.
- Dr. J. Ivan Legg, Executive Vice President and Provost at Northern Illinois University, and Councilor for the Auburn Section from 1991-1993 and for the Memphis Section from 1994 to 2001.
- Dr. David Straus, retired Associate Professor for the State University of New York at New Paltz, and Councilor for the Mid-Hudson Section from 1995 to 2010.

Councilors observed a moment of silence following the presentation of the preceding resolutions.

Approval of Minutes

3. VOTED to approve, as amended, the minutes of the meeting of March 25, 2015.

Election of Elected Committees

D. Richard Cobb, chair, Committee on Nominations and Elections (N&E), introduced the candidates for election to the Council Elected Committees:

4. In accordance with the provisions of Bylaw III, Sec. 3, c, (3), the Committee on Nominations and Elections presented the following nominees for election to membership on the Committee on Committees beginning in 2016: Christopher J. Bannochie, Michelle V. Buchanan, Alan B. Cooper, Jetty Duffy-Matzner, Donna G. Friedman, Lynn G. Hartshorn, Fran K. Kravitz, Patricia A. Redden, Carolyn Ribes, Sharon P. Shoemaker, Julianne M. D. Smist, and Stephanie J. Watson. By electronic ballot, the Council ELECTED Christopher J. Bannochie, Michelle V. Buchanan, Alan B. Cooper, Donna G. Friedman, and Carolyn Ribes for the 2016-2018 term and Jetty Duffy-Matzner for the 2016-2017 term.

5. In accordance with the provisions of Bylaw III, Sec. 3, a, (3), the Committee on Nominations and Elections presented the following nominees for election to membership on the Council Policy Committee beginning in 2016: John R. Berg, Frank D. Blum, Mary K. Carroll, Dwight W. Chasar, Lisa Houston, Lee H. Latimer, Doris I. Lewis, and Barbara P. Sitzman. By electronic ballot, the Council ELECTED Frank D. Blum, Mary K. Carroll, Lisa Houston, and Lee H. Latimer for the 2016-2018 term.

6. In accordance with the provisions of Bylaw III, Sec. 3, b, (3), the Council Policy Committee presented the following nominees for election to membership on the Committee on Nominations and Elections beginning in 2016: V. Dean Adams, Matthew K. Chan, David A. Dixon, Mary K. (Moore) Engelman, Joseph A. Heppert, Roland F. Hirsch, C. Marvin Lang, Les W. McQuire, Donivan R. Porterfield, and Ralph A. Wheeler. By electronic ballot, the Council ELECTED Mary K. (Moore) Engelman, Roland F. Hirsch, C. Marvin Lang, Les W. McQuire, and Donivan R. Porterfield for the 2016-2018 term.

Reports of Society Officers

President Diane Grob Schmidt updated Council on several initiatives under her presidential theme of “Inspiring and Innovating for Tomorrow.” She announced that the Anniversary Appeal in observance of the 20th anniversary of the ACS Scholars Program has achieved its \$1 million goal.

Working with ACS Executive Director & CEO Thomas M. Connelly, Jr., she developed a summit of Chief Technology Officers to be convened by ACS in late September. ACS will benefit by learning the current issues most critical to the success of the chemistry enterprise, and potentially by developing new programs to serve industry members.

As an outcome of two presidential symposia held in Denver last spring on developments in nanotechnology across industry, academia, and government, the White House Office of Science and Technology Policy (OSTP), through its National Nanotechnology Coordination Office, enlisted the help of ACS to publicize a Grand Challenge on Nanotechnology. OSTP now looks to collaborate with ACS on promotion of future grand challenges.

ACS and the American Chemistry Council have had a series of meetings to examine the workforce needs of the chemical industry and the capabilities of two-year colleges to meet those needs. With Immediate Past President Tom Barton, she created the Presidential Task Force on Addressing Workforce Needs through Industry/Two-Year College Partnerships. Members represent industry, academia, and ACS.

As this was her last Council meeting as ACS President, she concluded by stating it has been an honor to serve the members and represent this tremendous Society.

President-Elect Donna Nelson reported on the progress of her Task Force on Employment in the Chemical Sciences and introduced recent additional appointments. The task force continues to collect chemical community opinions and concerns via poster sessions at ACS meetings, and soon will report on activities and results via articles and symposia at ACS meetings. Councilors were invited to communicate opinions and concerns to this task force by sending email to or speaking with any task force member, including its chair, Attila Pavlath.

She announced that programming is being planned for the ACS National Meeting in San Diego on employment in chemical sciences, diversity in chemical sciences, and organic chemistry education.

Immediate Past President Tom J. Barton stated that he had promised to focus on three areas during his time in the presidential succession: education, internationalization, and industrial membership, and then offered a summary of progress on each.

In education he has spoken about the various obstacles facing attainment of uniform high-quality K-12 science education in the US, and has enjoyed funding and attending sessions designed for high-school chemistry teachers at our regional meetings. He informed Council that funds remaining in his budget will be turned over to existing ACS education projects such as ACS Scholars, ACS Science Coaches, Project Seed, and continuing the sponsorship of high-school chemistry programs at regional meetings.

In the arena of internationalization, he stated he was most proud of being a part of strengthening relationships with chemical societies south of our borders, in particular, the Mexican Society of Chemistry, and the incredibly successful jointly-produced webinars in Spanish resulting from those relationships.

In efforts to find better ways to serve our invaluable industrial members, he was pleased to have been a force in establishing a more meaningful relationship with the American Chemistry Council, which resulted in ACS establishing a joint task force to design community college programs to provide our chemical industries with workers ready to hit the ground running in the various aspects of manufacturing.

Board Chair Pat N. Confalone reported that at this national meeting, the Board of Directors considered a number of key strategic issues and responded with several actions. The Board voted to approve nominees from among ACS members for the National Science Board Public Service Award and the 2016 Alan T. Waterman Award; to reappoint an Editor-in-Chief for an ACS journal; to set the advance member registration fee to \$415 for national meetings held in 2016; to authorize a new program funding request for the ACS Festival Series program; and to reauthorize funding for the ACS Science Coaches program.

Dr. Connelly, the Executive Director & CEO, and his direct reports updated the Board on the activities of Chemical Abstracts Service (CAS), the ACS Publications Division, and the Society's Office of the Secretary and General Counsel. The Board heard reports from members of the presidential succession on their current and planned activities for 2016. As part of its ongoing commitment to consider the most important strategic issues facing the Society, the Board held a discussion evaluating the health and strength of Local Sections and Divisions.

Dr. Confalone concluded by calling attention to the flyers made available to Councilors at the meeting, highlighting a new Educators Legal Liability insurance plan for chemists in the academic field.

Executive Director & CEO Thomas M. Connelly, Jr. reported that the Society is strong, and is operating in line with the 2015 strategic plan, overall and in each of our units. Year-to-date, our membership is down by 1-2 percent but efforts are underway to reverse this trend by strengthening support of industrial members. A summit for CTOs from U.S. and European chemical science companies will convene in September to explore ways to increase further ACS value to chemists in industry.

CAS is enjoying its strongest revenue growth in several years. Its new offerings such as Patent Pak™ are generating significant revenue. The new SciFinder® 16 release is on track for launch in mid-2016. Through ACS International, CAS has significantly increased its global presence, with staff now in Mexico, Brazil, India, China, Japan, Korea, Russia, and the Ukraine.

ACS Publications continues to be the largest, most-cited, most-respected publisher of new science in chemistry-related fields, with a #1 impact factor or total citations in six core chemistry areas. At 2.8 million, citations were up eight percent in 2014. For that year, 16 ACS journals had their highest-ever impact factor, including JACS with an impact factor of 12.1 and Chemical Reviews with an impact factor of 46.6. C&EN is positioned for a vibrant future with updated graphics and more online and global content.

The Society Program Portfolio Management (SPPM) process is now approaching the end of its first full year of utilization. SPPM is a partnership between governance and staff. Through the first cycle, the partners worked on both the review of programs and also the refinement of the SPPM process. Program adjustments are being recommended for the 2016 budgets, and several improvements are being proposed for the next SPPM cycle.

The Society has received more than \$3.2M in new gifts and pledges, year-to-date. Dr. Connelly thanked ACS leaders, dedicated volunteers, and generous members who have contributed to the success of the ACS Scholars 20th Anniversary Appeal. He also recognized Teva Pharmaceuticals for its third pledge of \$1M to support research grants to early career faculty; and acknowledged the generosity of the *Journal of Chemical Education* for endowing the James Bryant Conant Award, and the Division of Chemical Education Examinations Institute for endowing the ACS Award for Achievement in Research for the Teaching and Learning of Chemistry.

Reports of Elected Committees

Council Policy Committee (CPC)

Alan M. Ehrlich, committee vice-chair, reported that of the two petitions and their respective procedures documents for action, CPC concurs with the Petition on Preferential Voting and its procedures (pages 80-85 of the Council agenda). With respect to the Petition on Member Expulsion and its procedures (pages 93-100 of the Council agenda), CPC has worked with the Committee on Economic and Professional Affairs (CEPA) to address CEPA's desire to have the Chemical Professional's Code of Conduct referred to by name. With an amendment to the procedures that CPC proposed to CEPA and was accepted by CEPA, CPC then concurred with this petition and the procedures. A proposed petition and procedures document for removal of Councilors and Alternate Councilors from office for failure to carry out their responsibilities as a Councilor or Alternate Councilor, as well as authorization for Local Sections and Divisions to remove elected officers from office for neglect of duties are expected to be submitted for consideration in San Diego.

CPC also concurred with the recommendation from the Committee on International Activities (IAC) to charter the following five new International Chemical Sciences Chapters: United Arab Emirates, Peru, Nigeria, Brazil, and Australia, and agreed to vote on all five petitions at one time.

In April 2015, the CPC Long-Range Planning Subcommittee (LRP) was asked to review the way Local Sections and Divisions are currently represented on Council. LRP thus far has determined that the size of Council has not increased significantly relative to the size of ACS's membership, and has begun to look at other issues that affect the divisor formulae set out in the Bylaws, such as the ratio of Local Section and Division Councilors, an increase in Division representation, and the representation of international members. Councilors were invited to submit comments to president@acs.org.

Strategy Cafés continue to be scheduled and have grown in popularity to aid in strategic planning efforts; a working group consisting of members from LRP and the Board Committee on Planning has been formed to collaborate on the enhancing the content and the delivery model.

The *Guidelines for Special Discussion Items at Council Meetings* were approved by CPC in Denver. They can be found at www.acs.org/councilors.

Committee on Committees (ConC)

Wayne Jones, committee chair, reported that the Committee on Committees (ConC) is developing its recommendations for 2016 committee chairs, members, associates, and consultant appointments for consideration by the President-Elect and the Chair of the Board of Directors.

ConC has developed a presentation describing the committee member selection process to encourage broad and diverse participation in ACS governance and to help foster a greater understanding of the committee appointment process. The pilot presentations in Boston were well received and a revised version of the presentation will be made at all Councilor caucuses, the ACS Leadership Institute, and regional meetings in 2016.

ConC formed a review group to review the Bylaws of the Society Committees due to issues arising from the membership requirements for appointment to these two committees.

On the recommendation of its task force to improve and streamline the Bylaws-mandated review process for Joint Board-Council and Other Committees of Council, ConC agreed to shorten the format and utilize an online form, to be implemented in 2016.

ConC will conduct its annual New Chairs Training Session in Dallas, Texas, January 22-24, 2016, as part of the ACS Leadership Institute.

On behalf of Council, ConC recognized 28 Councilors who will have served the statutory limit or otherwise completed their service on ACS governance committees at the end of 2015; 13 committee chairs who will have served the statutory limit on the committee they chair; and 32 Councilors observing 15, 20, 25, 30, 35, or 40 years of service as members of the Council.

Nominations and Elections (N&E)

D. Richard Cobb, committee chair, reported the results of the morning's elections to the Council Elected Committees (see items 4-6).

N&E received positive feedback on the format of the Town Hall Meeting for Directors-at-Large conducted Sunday.

Ballots for the 2015 fall national election will be mailed on October 2, with a voting deadline four weeks later on October 30. Members will have the option to vote electronically or by paper ballot. Mr. Cobb then announced the names of candidates for President-Elect (2016), Directors-at-Large (2016-18), District I Director (2016-18), and District V Director (2016-18).

The committee developed slates of potential nominees for President-Elect for 2017 and Directors of Districts II and IV for 2017-2019, as well as a slate of potential candidates for Director-at-Large for 2017-2019.

N&E prepared the procedures document, *Balloting and Preferential Voting Procedures for Elections of President-Elect, District Directors, and Directors-at-Large*, at the request of the petitioners of the Petition on Preferential Voting. The intent of the procedures is to detail the provisions in Bylaw V of the ACS Governing Documents, reflecting the procedures currently used in ACS national elections, except to add preferential voting for Directors-at-Large, and for selecting candidates for District Directors and President-Elect.

7. VOTED to approve the *Balloting and Preferential Voting Procedures for Elections of President-Elect, District Directors, and Directors-at-Large*, contingent upon approval of the Petition on Preferential Voting.

8. VOTED to approve the Petition on Preferential Voting, contingent upon confirmation by the ACS Board of Directors.

Reports of Society Committees and the Committee on Science

Budget and Finance (B&F)

Kristen M. Omberg, committee chair, reported that B&F reviewed the Society's 2015 probable year-end financial projection which expects a Net Contribution from Operations of \$15.5 million, or \$2.1 million higher than the Approved Budget. Total revenues are projected at \$512.1 million, which at \$481,000 favorable is essentially on budget. Total expenses are projected at \$496.6 million, which is \$1.6 million or 0.3 percent favorable to the Approved. This variance is the result of lower-than-budgeted expenses across almost all major expense categories.

The committee considered two program funding requests, the ACS Science Coaches and the ACS Festival Series programs. The Board subsequently took action and approved funding, and these programs will be included in the 2016 Proposed Budget.

Education (SOCED)

Diane Krone, committee chair, reported that SOCED voted to approve revisions to the *ACS Guidelines for Chemistry in Two-Year Colleges*. The committee also voted to make the pilot program of ACS International Student Chapters a permanent feature of the Student Chapters program.

SOCED was informed of recent developments related to the new American Association of Chemistry Teachers (AACT), including \$50,000 grants from both the Camille and Henry Dreyfus Foundation and the Ford Motor Company.

SOCED received an update on federal science education policy from the Government Affairs staff in the Office of Public Affairs; and from Education Division staff on the 10th anniversary of ACS ChemClubs, Division strategic planning, and the launch of an Individual Development Plan (IDP) tool for graduate students.

Science (ComSci)

Katherine C. Glasgow, committee chair, reported that ComSci remains focused on increasing understanding of emerging frontiers in science, developing public policies to advance science in society, and recommending outstanding chemical scientists for prestigious external awards.

At this meeting, ComSci voted to recommend approval of the draft ACS policy statement on energy, a notably improved statement on this critical economic and environmental issue. The committee sponsored a roundtable discussion with leaders of Divisions, journals, and outside experts on moving advanced materials from discovery to application.

ComSci submitted an ACS nomination in April for the Presidential National Medal of Science, is coordinating efforts with the Committee on Patents and Related Matters on the companion National Medal of Technology, and will recommend nominees for the 2016 French Grand Prix Award and the 2017 Dreyfus Prize in chemistry.

Reports of Standing Committees

Divisional Activities (DAC)

Michael J. Morello, committee chair, reported that DAC recently completed a review of a white paper to help Divisions identify, evaluate, and pursue international engagement opportunities; received an update on several changes to the Meeting Abstracts Programming System (MAPS); was briefed on a recently-created task force that seeks to enhance the content and functionality of the acs.org web pages that help Division and Local Section volunteers execute their volunteer duties; and voted to fund 14 Innovative Project Grants (IPG) totaling \$77,050.

The Multidisciplinary Program Planning Group is proposing the following 2018 national meeting themes to the Divisions for their consideration: Nexus of Food, Energy and Water (Spring/New Orleans), and Nanotechnology (Fall/Boston).

Local Section Activities (LSAC)

Martin D. Rudd, committee chair, announced that LSAC presented the 2014 Awards for Outstanding Performance for Local Sections for six Sections at the 17th Annual ChemLuminary Awards celebration. Additionally, four other sections received ChemLuminary Awards.

LSAC will award 20 Innovative Project Grant (IPG) grants this year, totaling \$39,886. This brings the total for 2015 to 34 IPG awards totaling over \$75,000. Since the inception of the program, a total of 166 Local Sections have received at least one award.

The committee voted to keep the current Local Section allotment formula in place for the next three years, and developed a new process for managing the annexation of unassigned territories by multiple sections.

Membership Affairs (MAC)

James M. Landis, committee chair, reported as of July 31, the ACS membership was 156,561; 2,055 fewer than on the same date in 2014. The number of new members who have joined this year is 14,457; 147 fewer than this time last year. The Society's overall retention rate is 84 percent. The number of international members has increased to 25,989; 1,014 higher than in July, 2014. The international retention rate is 85 percent.

The committee intends to submit a petition for consideration in San Diego to extend permanently the Unemployed Member Dues Waiver Benefit period from two years to three years.

The committee prepared a procedures document, *Procedures for Expulsion of a Member*, at the request of petitioners of the Petition on Member Expulsion. The intent of the procedures is to detail the provisions in Bylaw I, Section 5 of the ACS Governing Documents, regarding member expulsion.

9. VOTED to approve, as amended, the *Procedure for Expulsion of a Member*, contingent upon approval of the Petition on Member Expulsion.

10. VOTED to approve the Petition on Member Expulsion, contingent upon confirmation by the ACS Board of Directors.

Economic and Professional Affairs (CEPA)

William R. Ewing, committee chair, reported that ACS ChemCensus data showed that domestic unemployment among ACS member chemists edged slightly upwards in the last year from 2.9 percent to 3.1 percent. Still, the current unemployment rate is lower than it was from 2009 to 2013. The ChemCensus also showed a modest salary increase from year to year. For the first year since 2004, the percentage of ACS members working in manufacturing increased. These trends are mirrored by a slight decline in the percentage of members in academia. Other workforce categories remained relatively flat.

The Subcommittee on Public Policy updated the Healthcare Policy Statement which was then approved by CEPA. It will now go to the Board of Directors for action at its next meeting.

The Standards and Ethics Subcommittee finalized revisions to the *Chemical Professional's Code of Conduct*, which should be ready for Council review in San Diego.

Meetings and Expositions (M&E)

Will E. Lynch, chair, reported that M&E accepted 9,271 papers for the Boston meeting. As of the Council meeting, total attendance for the meeting was 13,888. The Exposition had 475 booths with 325 exhibiting companies. There were nearly 5,500 downloads of the Boston Mobile App. The committee is reviewing site selection options for the fall meeting in 2024. Potential locations include Philadelphia, PA and Denver, CO.

M&E confirmed its conversion to electronic versions of the program book starting with the Spring 2016 meeting. The hardcopy program book will be available for attendees to purchase (at cost) when they register for the meeting and onsite. The PDF version of the national meeting program will be more prominently displayed on the ACS website for those who would like to print portions for themselves.

The committee established a new subcommittee titled "Operations," which is responsible for monitoring the financial success of the national meetings, compliance with the National Meeting Long-Range Financial Plan, and the recommendations of the 2015 Task Force on Implementing National Meeting Financial Targets.

Constitution and Bylaws (C&B)

James C. Carver, committee chair, reported that C&B certified 14 bylaws in 2015, and has reviewed bylaws for 9 Local Sections and 2 Divisions since the spring meeting in Denver. The use of C&B's new bylaw templates and expedited bylaw process enables faster bylaw reviews than in previous years.

New petitions to amend the Constitution or Bylaws must be received by the Executive Director no later than November 25 to be included in the Council agenda for consideration at the spring 2016 meeting in San Diego.

Reports of Other and Joint Board-Council Committees

Chemical Safety (CCS)

Elizabeth M. Howson, committee chair, reported that CCS had been requested by the Chemical Safety Board to assist in developing guidance with methods to recognize, assess, and control hazards in research laboratories. CCS released its final report, *Identifying and Evaluating Hazards in Research Laboratories*, in 2015. Councilors and their institutions who are engaged in research were urged to consider using this guide to help keep their laboratories safer. CCS has continued its strategy to help strengthen academic safety culture by providing authoritative resources for the ACS community through its Task Force for Safety Education Guidelines.

Chemists with Disabilities (CWD)

John J. Johnston, committee chair, reported that in June 2015, CWD held a strategic planning workshop. Accomplishments included developing and refining mission and vision statements, as well as four goals and strategies to achieve them.

CWD and the ACS Standard Exams Institute initiated conversations regarding collaboration to address issues such as the unavailability of ACS Standard Exams, Practice Tests, and Study Guides in Braille.

The committee has expressed concern regarding current ACS petitions on the formation of International Chemical Sciences Chapters, and of ACS affiliating with organizations that may exclude and/or segregate subpopulations based on gender, race, sexual orientation, or disabilities.

CWD worked with the ACS Office of Public Affairs (OPA) to draft a letter of support for the Ratification of the United Nations Convention on the Rights of Persons with Disabilities. The letter was accepted by ACS and adopted as a public policy statement of the Society. CWD is in ongoing discussions with OPA on continuing the pursuit of congressional support for the Ratification of this treaty.

Community Activities (CCA)

George Heard, committee chair, reported that one of CCA's most popular programs is the nation-wide Illustrated Poem Contest (IPC), where Local Sections submit outstanding entries based on the theme of National Chemistry Week or Chemists Celebrate Earth Day. In the spirit of the IPC, the chair used various styles of verse to report on CCA's public outreach event held at the Boston Museum of Science, and to announce the theme of National Chemistry Week 2016, "Solving Mysteries Through Chemistry".

Ethics (ETHX)

Keith Vitense, committee chair, requested that Councilors keep the committee informed of any ethics-related activity sponsored by ACS committees, Local Sections, and Divisions. ETHX will provide this information (with proper credit) to national meeting attendees.

International Activities (IAC)

H.N. Cheng, committee chair, reported that at this meeting in Boston, IAC welcomed dignitaries from sister societies in Canada, Cuba, India, Germany, Taiwan, the UK, as well as the leadership of the Organization for the Prohibition of Chemical Weapons (OPCW), the U.S. National Academies of Science, the Iraqi Chemical Society, ACS International Chapters, and ACS International Student Chapters.

The committee approved the ACS Global Innovation Initiatives (Gii) Singapore White Paper and chose South America and Mexico for the 2017 joint ACS-Pittcon program to foster exchange and research collaboration in analytical chemistry.

IAC received applications for the establishment of ACS International Chemical Sciences Chapters in Australia, Brazil, Nigeria, Peru, and the United Arab Emirates, by ACS members in good standing and residing in the respective countries. The applications meet all requirements of Bylaw IX of the Society and include statements that the applicants are familiar with and will abide by all governing documents of the Society. The applications have been reviewed and approved by IAC; they provide strong evidence of their respective national chemical society's support and cooperation, and show connections to ACS Technical Divisions and editorial communities.

11. VOTED to approve the establishment of the Australia, Brazil, Nigeria, Peru, and United Arab Emirates International Chemical Sciences Chapters, subject to confirmation by the Board of Directors.

Minority Affairs (CMA)

Madeleine Jacobs, committee chair, reported that CMA focused its activities at this meeting on the 20th anniversary celebration of the ACS Scholars Program. The program has awarded more than \$17 million in scholarship assistance since 1995 to enable 2,500 talented minority students to pursue their dreams of a degree in the chemical sciences. The new Scholars Endowment Fund now has commitments of more than \$2 million.

At the spring 2016 meeting San Diego, CMA will host a symposium “How to Foster Diversity in the Chemical Sciences: Lessons Learned and Taught from the Stories of Recipients of the Stanley C. Israel Award.” Dr. Israel was a well-known polymer chemist who supported diversity in many areas. He was serving on the ACS Board of Directors when he died in 2003.

CMA continues to focus on diversifying speakers at ACS National Meetings and is also working with the ACS Leadership Advisory Board to develop specific training modules on diversity and inclusion.

Patents and Related Matters (CPRM)

Sadiq Shah, committee chair, reported that CPRM continues to monitor legislative and regulatory developments influencing intellectual property in ways that impact the chemical enterprise. The committee website is updated frequently and contains helpful information about intellectual property matters relevant to those in the chemical enterprise.

The committee has submitted detailed suggestions to the U.S. Patent and Trademark Office (PTO) in support of enhancing the quality of patents and the patenting process. CPRM recently partnered with the Chemical Society of Washington and the ACS Office of Public Affairs to participate in the PTO’s Technology Fair.

Project SEED (SEED)

Anna Cavinato, committee chair, announced another successful SEED program in 2015 with the participation of 411 high school students. These students are currently placed in over 100 laboratories across the nation, under the supervision of over 400 volunteer scientists and coordinators in 39 states, the District of Columbia, and Puerto Rico. The committee awarded 32 first-year non-renewable College Scholarships to SEED alumni in 17 states and Puerto Rico.

2018 will mark the 50th anniversary of Project SEED and the committee has set an ambitious goal to expand the program to all 50 states.

Public Relations and Communications (CPRC)

David S. Gottfried, committee chair, reported that CPRC co-sponsored a number of events in Boston to showcase ways to increase public appreciation for chemistry: the PBS preview of “Mystery of Matter: Search for the Elements”; a symposium on the public perception of chemistry co-sponsored with Chemical & Engineering News and the ACS Office of Public Affairs; ChemChamps; and the Wikipedia Edit-a-thon, cosponsored with the Division of Chemical Information.

Senior Chemists (SCC)

George E. Heinze, committee chair, announced that this meeting marked the third anniversary of the formation of the SCC at the Philadelphia National Meeting in 2012. SCC has been able to establish a number of initiatives through its provision of mini-grants to Local Sections to sponsor senior-related activities, several of which were recognized by the initial ChemLuminary awards at Boston. A committee retreat is being planned for this fall to identify priorities that will serve the SCC constituency as well as meeting the strategic goals of the committee.

Technician Affairs (CTA)

Susan Marine, committee chair, announced that CTA is now accepting nominations for the 2016 National Chemical Technician Award. This annual award is presented in recognition of outstanding technical and communication skills, reliability, leadership, teamwork, publications, and presentations.

Councilors were reminded that all Local Sections and Divisions who hold technician-related events are encouraged to submit them for consideration for the 2016 CTA ChemLuminary award. Interested Local Sections and Divisions may nominate themselves for the award through their annual reports.

Younger Chemists (YCC)

Douglas Hausner, committee chair, reported that the *Program in a Box* effort continues to grow rapidly with a 43 percent increase in the number of disseminated boxes between fall 2014 and February 2015. A total of 181 boxes were delivered to Local Sections and International Chemical Sciences Chapters during this period.

At this meeting YCC participated in the 5th Younger Chemists Crossing Borders, which is an exchange that brings younger chemists from parts of Europe to this meeting.

YCC is currently in discussions with N&E, ACS Webinars, ACS Office of Public Affairs, and the President-Elect candidates for 2016 about holding a roundtable webinar, "Catalyze the Vote," where the candidates can speak to the younger constituency about their future visions for the Society.

New Business

Resolution

The Council adopted the following resolutions:

12. BE IT RESOLVED That the Council of the American Chemical Society express to the officers and members of the Northeastern Local Section, host Section for the 250th National Meeting, the sincere appreciation of the Council and of the entire Society for the cordial hospitality extended to all registrants at this meeting, and that the Council convey special thanks to the divisional program chairs and symposium organizers responsible for the outstanding technical sessions, as well as headquarters staff, for the planning and execution that have assured the success of the 250th National Meeting.

13. BE IT RESOLVED That the Council of the American Chemical Society expresses to Diane Grob Schmidt, President of the Society in 2015, its sincere appreciation for her service as its presiding officer, and its gratitude for her 48 years of service to the Society.

The Council is appreciative of her efforts and devotion to promote a stronger dialogue with our members employed in industry through a multifaceted approach for greater engagement, her continued championing and fundraising for the ACS Scholars program, and her advocacy on behalf of the recently established American Association of Chemistry Teachers.

The Council also urges continued support for her advocacy to all members to engage with public officials, to express the fundamental importance of chemistry in our lives and our communities; to increase our efforts in diversity and inclusion – allowing all our members the opportunity to excel in their field; and to advance policies and outreach events that encourage the appreciation of chemistry both nationally and globally.

The Council extends to President Schmidt and her husband Warren its best wishes in their future endeavors, and for her continuing professional and personal achievements.

There being no further business, the meeting adjourned at 11:20 a.m.

Flint H. Lewis
Secretary

REPORT OF INTERIM ACTION, COUNCIL POLICY COMMITTEE

Since the meeting of the Council on August 19, 2015, the Council Policy Committee has taken the following action:

CPC 1-2016. VOTED to elect Dr. Alan M. Ehrlich as Vice-Chair of the Council Policy Committee for 2016.

NOMINATIONS FOR PRESIDENT-ELECT

Action Requested: The Committee on Nominations and Elections has selected the following nominees for 2017 President-Elect:

Peter K. Dorhout
Thomas R. Gilbert
C. Bradley Moore
Gregory H. Robinson

All have indicated their willingness to serve if elected. From these nominees, the Council must choose two as candidates for President-Elect. The biographies and position statements of the nominees are provided below.

DORHOUT, PETER K. *Kansas State University Section.* Kansas State University, Manhattan, Kansas.

Academic Record: University of Illinois, B.S., 1985; University of Wisconsin, Ph.D., 1989.

Honors: ACS Fellow, 2013; ACS Colorado Local Section Service Award, 2004; ACS Division of Inorganic Chemistry, Exxon Faculty Fellow Award in Solid State Chemistry, 1996; Oliver P. Pennock Service Award, Colorado State University, 2011; Distinguished Service Award, Colorado School of Public Health, 2008; Distinguished Service Award, Office of International Activities, Colorado State University, 2008; Undergraduate Research Mentor Award, Colorado State University, 2002; Camille Dreyfus Teacher-Scholar, 1997; Alfred P. Sloan Fellow, 1997; National Science Foundation Career Award, 1996; Research Corporation Cottrell Scholar, 1994; Sigma Xi, 1991.

Professional Positions (for past 10 years): Kansas State University, Professor of Chemistry, Interim Vice President for Research, 2016 to date; Dean of Arts & Sciences, 2012-16; Colorado State University-Pueblo, Interim Provost, 2011; Colorado State University, Vice Provost for Graduate Affairs and Assistant Vice President for Research, 2004-11; Interim Executive Director, Office of International Programs, 2005; Associate Dean, College of Natural Sciences, 2002-04; Professor of Chemistry, 2002-12.

Service in ACS National Offices: Board of Directors, Director, District V, 2010-12; Councilor ex officio, 2010-12; Executive Committee, 2011-12; Committee on Professional and Member Relations, Chair, 2011-12; Committee on Budget and Finance, 2015-17, Committee Associate, 2014; Communications, Chair, 2015; Presidential Task Force on U.S. Employment of Chemists, 2015-16; International Center Working Group, Chair, 2010; Member, S3G, 2011; Committee on Committees, 2002-08, Chair, 2008, Secretary, 2005-06; International Activities Committee, Chair, 2009; Graduate Education Advisory Board, Chair, 2009-11; Joint Board/ConC AET Chair, 2008; Committee on Divisional Activities, 2001, Committee Associate, 2000; Younger Chemists Committee, 1996-98, Committee Associate, 1995, Consultant, 2013-14; Board Oversight Group on Leadership Development, 2005-09; Presidential Task Force on Stop-Gap Funding, 2001-02.

Service in ACS Offices: Member ACS since 1985. *Colorado Section:* Councilor, 2001-09; Nominating Committee, 2000, 2008; Newsletter Editor, 1999-04; Chair and Program Chair, 1999; Chair-Elect, 1998. *Division of Inorganic Chemistry:* Councilor, 1999-01.

Member: American Association for the Advancement of Science; Life Member, Society for the Advancement of Chicanos and Native Americans in Science. *ACS Divisions:* Industrial and Engineering Chemistry; Inorganic Chemistry, and Nuclear Chemistry and Technology.

Related Activities: ACS Leadership Development System co-Facilitator, 2013-15; ACS Webinar Facilitator, 2013; Army ROTC Influencers Course, 2012; Research Corporation Board of Directors, 2003 to date, Advisory Committee, 1998-04; Consultant to DTRA, 2013; Consultant to Los Alamos National Laboratory, 1988-06; Organizer, NSF Workshop on Solid State and Materials Chemistry, 2004-08; Symposium Co-Organizer, 219th ACS Meeting Symposium on New Synthetic Methods in Solid State Chemistry; International Science and Technology Center, U.S. Project Advisor/Director, Russian Federal Nuclear Center, 1998-2006; Author of over 110 peer-reviewed manuscripts and book chapters.

STATEMENT

Peter K. Dorhout

One hundred forty years ago this year, 35 chemists met in New York to establish our Society – we are now more than 158,000-strong! What an honor to be asked to serve as your President.

Those first few ACS members set out to establish a Society that was chartered, for among other things, 1) “encourag(ing) ... the advancement of chemistry and all its branches,” 2) “the promotion of research in chemical science and industry...(and) aiding the development of our country’s industries,” and 3) “the improvement of the qualifications and usefulness of chemists through high standards of professional ethics, education, and attainments.”

As I worked my way through college in the early 1980s, I could only imagine what an opportunity to do undergraduate research, be a co-op student, or even go to graduate school might mean to my future. Chemistry and ACS gave me a chance to find my passions, and I intend to pay it forward through service leadership to ACS.

ACS gave me a chance on YCC to learn about leadership, teamwork, and selfless service. Local section and division service engaged me in leading change. ACS Committee and Board service broadened my perspectives on how a large volunteer organization can make a difference. I seek your support to serve YOU as the next President-Elect – to take my service and contributions to ACS to the next level and to act for chemistry and chemists during challenging times.

There is no question that the chemistry enterprise is being affected by challenging times. Industry continues to be threatened by global forces that are impacting jobs across America. Education is being impacted by cuts to both K-12 and higher education institutions, eroding the quality of our teachers and the classroom/laboratory experiences. We need to focus on our original Charter and be a leading Society for change.

Changing the Face of Chemistry. ACS is a society of volunteer professionals and emerging professionals regardless of their demography. The members’ perspectives on moving the Society forward are often a combination of external influences, professional and personal experiences, and talents. It is the very diversity of chemistry that requires diversity of membership to be successful. We require inclusive leadership perspectives to chart the course. As someone who has built relationships with people from many different backgrounds, I will continue to advance chemistry and the chemical enterprise for an inclusive Society.

Promoting Industrial Job Growth. We may have turned the corner on unemployment among chemists, but the recovery has been slow, wages have not advanced, and an employment gap remains for new chemists on the job market. Focusing on the future, I will build on the partnership with Corporation Associates and engage stakeholder groups of key ACS Committee representatives in discourse and action. An Industry Partners Advisory Board should be established and tasked with advising ACS about aiding our Nation’s industries, promoting the chemical enterprise to Congress, and preparing chemists for the future workforce.

Enhancing Education. Teaching chemistry should be a partnership. We need to build stronger alliances and prepare our workforce to be successful in a global economy. AACT is positioned to engage members in dialog around K-12 chemistry education; its members are valuable colleagues in helping prepare a citizenry who is science literate. ACS should continue to lead in promoting the highest standards and safest chemistry education programs and enhance educational opportunities for all students, including adult learners. Members from industry and the academy should be joined in regular dialog as part of the Industry Partners Advisory Board I mentioned above about the critical skill sets for new chemists as well as how we can keep our established chemists engaged in life-long learning to enhance their skills.

Sustaining and improving ACS isn't about providing more programming but refining and demonstrating that what we have invested in and built over the years has relevance, not just to our many long-term members but to the new generations of chemical professionals. For that to happen, we must listen to and act for all ACS members.

If elected, I will spend my President-Elect year listening to you across the country at local, regional, and national meetings and through webinars by hosting town hall style meetings – I want to act for YOU! The ideas I've shared above represent a platform for change, but you must be part of the conversation regarding change – we're in this together. I believe in shared ACS governance, and I will engage you in sharing leadership.

GILBERT, THOMAS R. *Northeastern Section.* Northeastern University, Boston, Massachusetts.

Academic Record: Clarkson College of Technology, B.S., 1968; Massachusetts Institute of Technology, Ph.D., 1971.

Honors: ACS Fellow, 2011; Henry A. Hill Memorial Award, 2010; Outstanding Teacher of First Year Students Award, College of Engineering, Northeastern University, 2010, 2013, 2015; Excellence in Teaching Award, Northeastern University, 1999; Sigma Xi; Gamma Sigma Epsilon.

Professional Positions (for past 10 years): Northeastern University, Acting Chair, Department of Chemistry and Chemical Biology, 2015–16; Acting Dean, School of Education, 2004-06; Academic Director, Professional Science Masters Programs in Biotechnology, 2009-11, Associate Professor of Chemistry and Education, 1999-2006.

Service in ACS National Offices: Board of Directors, Director, District I, 2013-15; Councilor ex officio, 2013-15; Committee on Public Affairs and Public Relations, 2014-15; Committee on Professional and Member Relations, 2013-15; Subcommittee on Web Strategy and Innovation, 2013-15; Council Policy Committee (Voting), 2007-12, Vice-Chair, 2008-10; Long-Range Planning Subcommittee, Chair, 2008-12; Committee on Nominations and Elections, 2001-06, Vice-Chair, 2004-06; Committee on Meetings and Expositions, 1995-2000, Chair, 2000; Board of Directors Planning Committee, 2008-10; Task Force on Web-Based Resources for Volunteers, Chair, 2015 to date; ACS Network Task Force, Chair, 2014; Task Force on Election Procedures, Chair, 2003-05.

Service in ACS Offices: Member ACS since 1968. *Northeastern Section:* Councilor, 1990-2013; Chair, 1988; Chair-Elect, 1987; Alternate Councilor, 1987-89; Centennial Celebration Program Chair, 1998; Analytical Group Chair, 1983-86; Nominations Committee Chair, 1989; Long-Range Planning Committee Chair, 1989. *Northeast Regional Meeting:* General Chair, 1993. *Division of Analytical Chemistry: 46th Annual Summer Symposium on Analytical Chemistry,* Co-Chair Organizing Committee, 1993.

Member: *ACS Divisions:* Analytical Chemistry and Chemical Education.

Related Activities: ACS, Education Division, Examinations Institute, 2000; Analytical Chemistry Examination Committee, 1998-2000; International Symposia on High Performance Capillary Electrophoresis, Vice-Chair Organizing Committees, 1993-96, 1998, and 1999; New England Aquarium, Associate Director, Research, 1977-81; Published 45 journal articles and two general chemistry textbooks (in their 4th and 1st editions), holds three patents.

STATEMENT

Thomas R. Gilbert

I welcome this opportunity to describe my priorities and what I would strive to accomplish if elected President of the American Chemical Society.

Strength in Numbers

Many ACS communications start with “The American Chemical Society, the world’s largest scientific society,.....” Yes, we are the largest, and that fact is important when ACS representatives meet with colleagues from sister societies or when we lobby members of Congress. Unfortunately, our membership

has been decreasing in recent years, and our many efforts to increase the number of new members and to retain more of our current members have not reversed this trend. Declining membership may be the most significant challenge facing ACS today because our strength as a professional society is in our membership: in how many members we have and in how engaged they are in ACS programs and activities.

Those of us who are involved in ACS at the local and national levels, as I have been for 3 decades, take pride in being ACS members. We find value in being members of our Society and in the work we do for it, and we value the many relationships that evolve from that work. The challenge we face is in finding ways for more of our members to experience the rewards of service to the Society and to our profession.

If I am elected President, I will promote initiatives that address membership recruitment and retention, starting with a program whose goal will be to recruit a majority of the students in ACS-approved baccalaureate chemistry programs and in chemistry graduate programs across the country. I will host focus groups of students presenting posters at national and regional ACS meetings to assess their level of interest in a cross-section of activities student chapters frequently organize. I am particularly interested in how many of them attend colleges or universities that have service learning requirements for graduation and, if so, whether they intend to satisfy those requirements through outreach activities sponsored by their ACS chapter – or would have if they could. What better way for prospective young members to feel the emotional rewards that come from helping others than as ACS volunteers?

I will also organize recruitment and retention initiatives that address the rapidly changing and expanding scope of chemistry R&D. The nature of this work and the skills it requires continue to evolve as the boundaries fade away that once separated chemistry from biology, physics, the health sciences and other fields. It is essential that ACS, through its expanding list of journals and programming at national and regional ACS meetings, be seen as a principal source of information and ideas in these evolving research areas. Only then will scientists working in those areas (and their supervisors) recognize the value of ACS membership. Therefore, if elected, I will organize presidential symposia for the 2018 national meetings featuring advances in science “at the boundaries” of traditional chemistry. Presentations in these symposia will be arranged in sessions by the industrial sectors the research supports.

Education

The interdisciplinary nature of many of the new jobs in the chemical sciences needs to be reflected in how chemists are educated. This education has to start early – in K-12 classrooms. The ACS Board of Directors took a major step in support of pre-college teachers in 2013 when it launched the American Association of Chemistry Teachers (AACT). I supported the AACT proposal and, if elected, look forward to expanding my work with elementary and middle school science teachers and high school chemistry teachers to include teachers from across the country as they create learning activities that are both content-rich and that share the sense of investigation and discovery that we chemists find so rewarding.

I will also support efforts to address the concerns and implement the recommendation contained in the 2012 report of ACS Presidential Commission, *Advancing Graduate Education in the Chemical Sciences*. We cannot afford to have colleges and universities preparing graduate students for jobs that no longer exist, forcing them to continue their preparation for the job market through years and years of postdoctoral research. These perpetual postdocs are victims of a system that is inefficient and unfair to them. I believe ACS should, in collaboration with sister scientific societies and federal funding agencies, take the lead in developing guidelines for PhD programs in chemistry that align students’ graduate experiences with the knowledge and skills they need to fill the R&D positions that exist today and that are likely to emerge tomorrow.

MOORE, C. Bradley *California Section*. University of California, Berkeley, California.

Academic Record: Harvard University, A.B. Chemistry, 1960; University of California, Berkeley, Ph.D. Chemistry, 1963.

Honors: ACS Fellow, 2010; California Section Award, ACS, 1977; Pimentel Lecturer, U.C. Berkeley, 2001; American Academy of Arts and Sciences, 1996; Royal Society of Chemistry, 26th Spiers Memorial Lectureship, 1995; The Alexander Von Humboldt Foundation, Senior U.S. Scientist Award, 1994-98; Earle K. Plyler Prize, American Physical Society, 1994; Excellence in Management Award, U.C. Berkeley Staff Assembly, 1991; Inter-American Photochemical Society Award in Photochemistry, 1988; Lippincott Award, Optical Society of America, 1987; E. O. Lawrence Memorial Award, US Department of Energy, 1986; National Academy of Sciences, 1986; American Association for the Advancement of Science, Fellow, 1981; American Physical Society, Fellow, 1976; Coblenz Award, Coblenz Society, 1973; John Simon Guggenheim Memorial Fellow, 1969-70; Alfred P. Sloan Foundation Fellow, 1968-72; National Science Foundation, Predoctoral Fellow, 1960-63.

Professional Positions (for past ten years): Howard University, Consultant on Strategic Planning for Research, 2015 to date; University of California, Berkeley, College of Chemistry, Professor Emeritus 2000 to date., Energy Biosciences Institute, Strategy and Planning Manager, Executive Committee, 2008-09; Northwestern University, Professor Emeritus, 2008 to date; Vice President for Research and Professor of Chemistry, 2003-07.

Service in ACS National Offices: Committee on Professional Training, 1996-98; Chemical and Engineering News, Advisory Board, 1989-91; PACIFICHEM Presidential Session on Public Understanding of Chemistry, Organizing Committee Chair and Discussant, 1989; International Activities Committee, 1987-90; Editorial Advisory Board, 2nd Edition, "*Chemistry in the Community*", Textbook, 1991-93; Editorial Board, *Journal of Physical Chemistry*, 1981-87.

Service in ACS Offices: Member ACS since 1971. Canvassing Committee for the Debye Award, 1991-92. *Division of Physical Chemistry*: Nominating Committee, Chair, 1988.

Member: American Association for the Advancement of Science (Council Executive Committee, 2007-10); Board of Governors, Argonne National Lab, 2005-07; Board of Directors, Fermi National Accelerator Lab, 2006-07; Chicago Council for Science and Technology, founding board, 2006-10; American Physical Society; Science Service, Inc., Board of Directors 1995-2007. *ACS Division*: Physical Chemistry.

Related Activities: The Ohio State University, Vice President for Research and Professor of Chemistry, 2000-03; University of California, Berkeley: College of Chemistry, all ranks Professor of Chemistry, 1963-2000, Chair 1982-86; Dean, 1988-94; Lawrence Berkeley National Laboratory: Faculty Senior Scientist, Chemical Sciences Division, 1974-2005, Division Director, 1998-2000; *Industry*: Industrial Research Institute, Academic Advisory Council 1992-95; Council for Chemical Research, 1988-94, Governing Board, 1991-94, Public Relations Committee, Co-chair, 1988-92; Consultant to: Exxon Corporate Labs and Exxon Nuclear, 1982-88; Mallinckrodt Chemical, Inc.; Melles Griot, Inc.; Avco Everett Research Labs, 1972-84; summer research assistant: GE Research labs, Schenectady, NY, 1960; Arthur D. Little, Inc. Cambridge, MA., 1959. *Science Education*: National Academy of Sciences programs including: Committee on Assuring a Future US-Based Nuclear Chemistry Expertise, chair, 2011-12; Committee on Undergraduate Science Education, founding chair, 1993-97; ACS: Workshop on Student Affiliates, 1991. *International*: National Academy of Sciences, Board on International Scientific Organizations, 2012 to date; U.S. delegation to the 2014 General Assembly of the International Council for Science. Research in France, China and Germany and lecture visits in more than 20 additional nations. *Research*: Laser studies of chemical reaction rates and energy transfers with 50 Ph.D. students and 70 undergraduates, postdocs and visiting professors are reported in 248 papers, and 6 patents.

STATEMENT
C. Bradley Moore

Colleagues, I am honored to be considered for the presidential succession of the American Chemical Society and excited to work with you to advance the Society's goals toward "improving people's lives through the transforming power of chemistry". Given just three years in the succession, I appreciate the chance to implement ACS's cogent strategic plan, without needing to design the process for creating a plan.

Goal 1. Provide the best chemically related information:

ACS is solidly established as "the most authoritative, comprehensive, and indispensable provider of chemistry-related information" worldwide. During my time at Ohio State, I was very much impressed by the productivity and leadership of the ACS office in Columbus. As author, referee and reader, I feel that ACS professional journals are setting the international standard.

Goal 2. Advance member careers:

During this past century our powers of observation and prediction have grown to the extent that knowledge of chemistry is used broadly to understand and solve problems in most fields of science and engineering and their applications in human society. We think of chemistry as the central science, the atomic- and molecular-level understanding of the substances of interest in every field of science. Thus, it is important to work seamlessly with our colleagues in multidisciplinary and multinational collaborations attacking the major problems that we face on Earth and seizing the new opportunities that chemistry enables. Industries have long used multidisciplinary research teams to develop new products. Recently, universities have broken down the administrative stovepipes that separate their disciplinary departments to build multidisciplinary programs that draw on the intellectual power of the entire university and its partnering institutions. This brings chemists together with all types of scientists, engineers, humanists and professional school scholars to develop approaches to problems such as global warming, energy systems, and novel therapies for healthcare that can work in the real world. The 21st century promises to be one of particularly exciting and productive opportunities for expanding research in chemistry and improving the quality of life both nationally and globally through applications of chemistry. Working with scientific and political leaders globally to make this progress possible will make an exciting future for ACS Presidents, create attractive jobs for chemists and bring new members to ACS.

Fortunately, ACS has initiatives underway to build some of the collaborations needed. But much remains to be done to enable chemists to help meet global needs for water, food, energy, healthcare, personal security and Earth's environment. Many organizations, nationally and internationally, are focusing on these issues; if their independent efforts can be combined, the resulting programs will be much better designed, win support more rapidly and ultimately be much more effective. ACS members have many connections and channels through which we can work to help build the major collaborative programs required.

Goal 3. Improve Education:

ACS has a strong focus on education, through key Committees (SOCED and CPT), a Division (CHED) and the recent creation of the American Association of Chemistry Teachers (AACT). Since 1992, my service work has focused on improving education, K-16. As science and technology progress, we must continually update what and how we teach. The content must prepare the student for the following stage of education or career and foster a lifetime of learning and helping others to learn. The increasing emphasis on multidisciplinary work and on sustainable, green chemistry may suggest broadening of the requirements for an ACS-certified Bachelor's Degree. The shortage of qualified, diverse high school chemistry teachers might be alleviated by offering a certified, professional chemistry degree that includes a teaching credential.

Goal 4. Communication:

Too often 'chemistry' conjures up waste dumps, contaminated rivers downstream from refineries, paper mills or over-fertilized agriculture, and insecticides on food. We have a long way to go with respect to public perception of chemistry. Can we get back to Dupont's "Better Living Through Chemistry"? How do we help policy makers and citizen's deal with, rather than deny, the "inconvenient truths" from science?

The *multinational* adoption, this past December, of the Paris agreement from the Framework Convention on Climate Change demonstrates great progress on the political front. To follow up, we need to collaborate with professional, industrial, political and civic organizations both nationally and globally to develop programs that can actually achieve the climate goals, and to provide clear, credible information to the citizens and leaders of the world. This opportunity to engage U.S. Senators and Congressional Representatives cannot be missed.

ROBINSON, GREGORY H. *Northeast Georgia Section.* The University of Georgia, Athens, Georgia.

Academic Record: Jacksonville State University, B.S., 1980; The University of Alabama, Ph.D., 1984.

Honors: **Honors:** Chemist of the Year Research Award, Northeastern Georgia Section, ACS, 2013; F. Albert Cotton Award in Synthetic Inorganic Chemistry, ACS, 2013; Charles H. Herty Medal, Atlanta Section, ACS, 2008; Charles H. Stone Award, Carolina-Piedmont Section, ACS, 2002; Henry A. Hill Award, ACS Northeast Section, 1998; Southern Chemist Award, Memphis Section, ACS, 1998; Chemist of the Year Research Award, Northeastern Georgia Section, ACS, 1998; Southeastern Conference (SEC) Faculty Achievement Award, 2014; Alexander von Humboldt Research Prize, 2012; Lamar Dodd Creative Research Award, The University of Georgia, 2010; The Percy L. Julian Award, NOBCChE, 2004; NSF Award for Special Creativity, 1999; Henry A. Hill Award, NOBCChE, 1998; Alumnus of the Year Award, Jacksonville State University, 1994; Alexander von Humboldt Research Fellow, 1994; Outstanding Achievement Award, Clemson University, 1992; NSF Award for Special Creativity, 1989.

Professional Positions (for past 10 years): The University of Georgia, Foundation Distinguished Professor, 2013 to date; Franklin Professor of Chemistry, 2005-13.

Service in ACS National Offices: Editorial Advisory Board, *Inorganic Chemistry*, 2012-15; Advisory Board, *Chemical & Engineering News*, 2001-06; Editorial Advisory Board, *Organometallics*, 2003-06.

Service in ACS Offices: Member ACS since 1981. *Northeast Georgia Section:* Chair, 2015.

Member: National Organization of Black Chemists and Chemical Engineers (NOBCChE). *ACS Division:* Inorganic Chemistry.

Related Activities: Editorial Boards: *Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry*; *Journal of Coordination Chemistry*; *Main Group Chemistry*; Board of Visitors, National Science Foundation, 2001; Clemson University, Professor of Chemistry, 1995; published 150 research articles on various aspects of inorganic chemistry; edited one book on organoaluminum coordination chemistry.

STATEMENT

Gregory H. Robinson

The American Chemical Society (ACS) is a professional organization of chemists, chemical engineers, teachers, scientists, group leaders, and journalists engaged in the study, commerce, practice, craft, and promotion of the enterprise of chemistry. ACS membership is, correspondingly, diverse. As a nominee for President-Elect 2017, I would particularly stress two areas: (1) Promotion of Chemistry and (2) Education. Efforts in these areas would directly impact the ever-important area of employment.

Promotion of Chemistry

We are witnessing amazing technological and medical advances. As many of these discoveries could not have been predicted as recently as a decade ago, this rapid pace of discovery may well be unprecedented. Advances at the atomic and molecular interface of matter have been central to these discoveries. More accurately stated: “Advances in *chemistry* have been critical to these discoveries.” While this assessment may seem superfluous to an ACS member, this is certainly not the case for the general public. To a significant degree, *chemistry* and *chemicals* have long been socially perceived as pejorative. Consistent with the ACS 2015 Strategic Plan, we must publicly, unabashedly and “passionately” embrace who we are and

what we do. From the synthesis of miracle drugs (*i.e.*, chemical compounds) to advanced electronic materials, we—the ACS—have a fantastic story to tell. Indeed, consistent with our mission statement, we use the transformative power of chemistry to improve people’s lives. We must do a better job of communicating this to the general public. Indeed, we have to clearly communicate that chemistry will be indispensable as we seek solutions to global problems like climate change. Correspondingly, the positive promotion and implementation of chemistry will have a positive impact on employment and possibly research funding. I would propose the ACS spearhead a new public service campaign wherein we extol the positive aspects of our profession. I welcome the opportunity to be a visible and strong advocate for ACS and positively promote chemistry.

Education

On a recent visit to a high-risk high school in a neighboring state I was tasked with presenting chemistry as a viable career option. I conveyed to these students the excitement of scientific discovery. Finding “excitement” in science was a novel concept to this audience. Furthermore, these students had absolutely no concept of the myriad career opportunities in chemistry. We have to strive to be ever inclusive and augment the existing programs of ACS in this regard. I believe that we can do a better job of presenting chemistry to low-income students.

We are surely witnessing more high profile allegations of scientific misconduct and significantly more retractions of chemistry research articles. For example, it has been estimated that there were approximately 30 retractions a year in the early 2000s. Incredibly, it was recently estimated that the Web of Science indexed more than 400 retractions in 2014 (Jill Neimark; <https://aeon.co>). Although ACS has always subscribed to a high ethical standard, we must acknowledge this unfortunate new reality and be much more proactive. Although the vast majority of scientists are absolutely honest in their daily work, temptations remain. As stressed in the ACS 2015 Strategic Plan, the well-trained chemist should also receive some training in ethics. However, we must increase our efforts in stressing ethics and honesty in science. ACS could mount a public service campaign highlighting topics such as plagiarism, scientific misconduct, and other dubious research practices. It is paramount that the public does not lose confidence in science.

I believe that many of our challenges can be effectively addressed through positive promotion of our discipline and educational initiatives. If elected, I would be honored to serve as your President and be your tireless advocate.

ANNOUNCEMENT OF NOMINEES, DISTRICT DIRECTORS

In accordance with the provisions of Bylaw V, Sec. 4, candidates for District Director are selected by the voting Councilors of the District to be served. The Committee on Nominations and Elections selected the following as nominees for a 2017-2019 term:

DISTRICT II	DISTRICT IV
George M. Bodner	Rigoberto Hernandez
Christina C. Bodurow	Larry K. Krannich
Isai T. Urasa	Jason E. Ritchie
Ruth Ann Woodall	Barry J. Streusand

Ballots as appropriate are now handled by VRES, our national election vendor using the procedures developed by the Committee on Nominations and Elections and approved by the Council, and have been emailed to voting Councilors residing in Districts II and IV with the results of the balloting to be announced in *Chemical & Engineering News*, and at the Council meeting in San Diego.

On or before October 10, ballots will be mailed to all members of District II and District IV for election of a Director from each District.

PERTINENT BYLAW PROVISIONS GOVERNING ELECTION
OF DISTRICT DIRECTORS

Bylaw V, Sec. 4.

(c) On or before January 15, the Committee on Nominations and Elections shall transmit to the Executive Director of the SOCIETY the names of not fewer than four MEMBERS of the SOCIETY as nominees for each position of District Director to be filled. Each nominee must be entitled to vote in the District electing the District Director for which the nominee would be a candidate. When elected, each District Director may serve a complete term despite changes in Local Section or address or in any District boundary. (1/1/01)

(d) On or before March 1, the Executive Director shall send a preferential ballot to each Councilor in the District electing a District Director; the ballot shall contain the names of the nominees for District Director of that District, as selected by the Committee on Nominations and Elections. This primary election shall be conducted using procedures developed by the Committee on Nominations and Elections and approved by the Council. Ballots shall be returned no later than four weeks after the ballots are distributed. (1/1/16)

(e) One percent of the members of the SOCIETY entitled to vote in the District electing a District Director, not more than one-third (1/3) of whom are assigned to any one Local Section, may nominate a candidate for District Director by filing a petition with the Executive Director by July 15. Each member may nominate no more than one candidate for District Director in a given election. A petition candidate must be entitled to vote in the District electing the District Director for which the MEMBER is a candidate. The names of any petition candidates shall be included on the ballot along with the names of those selected by the District's Councilors. (10/19/04)

ANNOUNCEMENT OF CANDIDATES, DIRECTORS-AT-LARGE

Bylaw V, Sec. 3, a, provides that "On or before January 15, the Committee on Nominations and Elections shall transmit to the Executive Director of the SOCIETY the names of the MEMBERS of the SOCIETY selected as candidates for the positions of Director-at-Large to be filled. The number of such candidates shall be at least twice the number of such positions to be filled. These names shall be announced to the Council at a meeting to be held no later than May 1."

The election of Directors-at-Large will be conducted in the fall, with ballots mailed to the Council on or before October 10. The incumbents are Dorothy J. Phillips and Kathleen M. Schulz and they are both eligible for reelection.

Other Directors-at-Large, whose terms continue, are as follows:

William F. Carroll, Jr.....2015-2017
Barbara A. Sawrey.....2015-2017
Lee H. Latimer2016-2018
Ingrid Montes.....2016-2018

The Committee on Nominations and Elections announces selection of the following candidates for Directors-at-Large for a 2017-2019 term:

Joseph A. Heppert
Kristin M. Omberg
Dorothy J. Phillips
Kathleen M. Schulz

Biographies of the candidates follow.

HEPPERT, JOSEPH A. *Wakarusa Valley Section.* University of Kansas, Lawrence, Kansas.

Academic Record: San José State University, B.S., 1978; University of Wisconsin, Ph.D., 1982; Indiana University, Post-Doctoral Fellow, 1985.

Honors: ACS Fellow 2012; University of Kansas Leading Light Award, 2012; Vice-Chancellor's Fellow, 2002; University of Kansas Center for Teaching Excellence Graduate Teaching Award, 1998; Keeler Intra-University, Professor, 1998.

Professional Positions (for past ten years): University of Kansas, Associate Vice Chancellor for Research, 2009 to date; Chemistry Chair, 2005 to date; Professor 2001 to date; Director, Center for Science Education, 2001-09.

Service in ACS National Offices: Committee on Budget and Finance, 2013-15, Vice Chair, 2014-15, Committee Associate, 2011-12; Committee on Education, 2002-10, Chair, 2004-06, Committee Associate, 2000-01; Council Policy Committee (Nonvoting), 2004-06; ACS Chemistry Teacher Education Coalition National Advisory Board, 2011-14; Governance Review Team A, 2007; ACS Program Review Advisory Group 2005-06; Task Forces on Program Valuation and Metrics, 2013-14; ACS Joint Board President's Task Force on Education, Spring 2009-10; ACS President's Task Force on Competitiveness, 2007-08.

Service in ACS Offices: Member ACS since 1979. *Wakarusa Valley Section (formerly University of Kansas Section):* Councilor, 1997-2017; Alternate Councilor, 1994-96; Chair, 2004, 1993; Chair-Elect, 2003, 1992; Treasurer, 1991. *Midwest Regional Meeting:* General Meeting Co-chair, 2017, Program Chair, 2002.

Member: Sigma Xi; American Association for the Advancement of Science; National Science Teachers Association; Association for the Education of Teachers in Science; National Association for Research on Science Teaching. *ACS Divisions:* Chemical Education; Inorganic Chemistry and Organic Chemistry.

Related Activities: Participant, ACS Legislative Summit, April 2008; Past Member, Senator Pat Roberts Advisory Committee on Science, Technology and the Future; Past Director, University of Kansas' Center for Science Education; Past Chair, University of Kansas Faculty and University Senate Executive Committees; Education Director of the Center for Environmentally Beneficial Catalysis (NSF-ERC); Past Member Board of Directors, the Advanced Academy of Georgia; University of Kansas Medical Center, Institute for Advancing Medical Innovation, Advisory Board Member, 2015.

OMBERG, KRISTIN M. *Central New Mexico Section.* Pacific Northwest National Laboratory, Richland, Washington.

Academic Record: Gonzaga University, B.S. in Chemistry, 1993, B.A. in Philosophy, 1993; University of North Carolina, Ph.D. in Chemistry, 1998, Doctoral Certificate in Public Policy Analysis, 1998; Los Alamos National Laboratory (LANL), Postdoctoral Fellow, 1999-2001.

Honors: ACS Fellow, 2012; ACS Congressional Fellowship, 1998-99; LANL Distinguished Performance Awards, 2015 & 2001; US Secret Service Certificates of Appreciation for Outstanding Support to the Democratic National Convention, 2008 and 2004; LANL Women's Career Development Outstanding Mentor Award, 2005; US Department of Homeland Security, Certificate of Appreciation for Service to National Security Special Events, 2004; R&D 100 Award, 2003; LANL Director's Postdoctoral Fellowship, 1999-2001; Sigma Xi; American Council of Teachers of Russian, Gold Medal, Northwest Spoken Russian Olympiada, 1989.

Professional Positions (for past ten years): Pacific Northwest National Laboratory, Group Leader, Chemical & Biological Signature Science, 2015 to date; Los Alamos National Laboratory, R&D Manager and Technical Staff Member, 2001-15.

Service in ACS National Offices: Council Policy Committee, (Nonvoting), 2015; Committee on Budget and Finance, 2014-16, Chair, 2015, Committee Associate, 2009-13; Board Committee on Planning, 2015; Board Committee on Executive Compensation, 2015; Committee on Chemistry and Public Affairs, 2004-12, Chair, 2008-10, Committee Associate, 2001-03; ACS Presidential Taskforce on Enhancing Innovation and Competitiveness, 2007-08; ACS Presidential Taskforce on the Department of Energy, 2002.

Service in ACS Offices: Member ACS since 1994. *Central New Mexico Section:* Councilor, 2014-16; Past Chair, 2015; Chair, 2014; Chair-Elect, 2013; National Chemistry Olympiad Coordinator, 2014-15; Executive Advisor, 2012-13.

Member: American Association for the Advancement of Science; Association for Women in Science; Sigma Xi.

Related Activities: Organizer/Presider, "Symposium on Congressional Science Fellows," American Chemical Society 230th National Meeting, 2005; Organizer/Presider, "Award Symposium for Thomas J. Meyer," American Chemical Society 223rd National Meeting, 2002; Invited Participant, "How to Fund Science: The Future of Medical Research," sponsored by the AAAS, 1999; Sigma Xi Annual Forum Steering Committee, 1997-98; 31 publications in peer-reviewed journals; two book chapters in the areas of inorganic chemistry and biology; one book chapter on career opportunities for chemists in government; author or co-author of more than 50 controlled publications and technical reports, and federal interagency guidance.

PHILLIPS, DOROTHY J. *Northeastern Section.* Retired, Waters Corporation, Milford, Massachusetts.

Academic Record: Vanderbilt University, B.A., 1967; University of Cincinnati, Ph.D., 1974.

Honors: ACS Fellow, 2010; Shirley B. Radding Award, Santa Clara Valley Section, ACS, 2008; ACS Northeastern Section Henry A. Hill Award, 2006; Nashville Section ACS, Salute to Excellence Award, 2004; Vanderbilt University Dr. Dorothy J. Phillips Endowed Chair, 2015; Distinguished Chemist Award, The New England Institute of Chemists, 2011; Waters Leadership Award for Outstanding Contributions to Waters and Waters' Community, 2008; Vanderbilt University, Dr. Dorothy Wingfield Phillips Award for Leadership, 2007; Unsung Heroine Award, Vanderbilt University, 2006; Honored by TTT Mentor Program of Cambridge, MA, "Minority Role Model in Science, Mathematics, Technology and Engineering" 2004; Distinguished Alumni, University of Cincinnati, McMickens College of Arts and Sciences, 1994 and Center for Women Studies, 1993.

Professional Positions (for past 10 years): Retired, Waters Corporation, 1984-13; Director, Strategic Marketing, 2006-13; Director, Clinical Marketing, 2004-06.

Service in ACS National Offices: Board of Directors, Director-at-Large, 2014-16; Councilor, ex officio, 2014-16; Board Committee on Public Affairs & Public Relations, 2015; Board Liaison to Corporate Associates, 2105; Board Committee on Grants and Awards, 2014; Board Committee on Professional & Member Relations, 2014-15; Board Liaison for ACS Science & Human Rights Initiatives, 2014-16; Council Policy Committee, 2008-13, Nominations Sub-Committee, Chair, 2012-13; Committee on Committees, 2001-06, Secretary, 2003-04, Industrial Pipeline Sub-Committee, Chair, 2005-06; Committee on Divisional Activities, 2007-08; Committee on International Activities, Committee Associate, 1998; Committee on Membership Affairs, 1997-2000, Committee Associate, 1996; Undergraduate Programs Advisory Board, 2013-15; Presidential Task Force, "Vision 2025: Helping ACS Members Thrive in the Global Chemistry Enterprise", 2012.

Service in ACS Offices: Member ACS since 1973. *Northeastern Section:* Councilor, 1995-15; Chair, 1993; Chair-Elect and Program Chair, 1992; Project SEED, Committee Chair, 1994-95; Nominating Committee, Chair, 1994; Centennial Celebration, Co-Chair, 1998; Fundraising Committee, Chair, 2004-08; Awards Committee, Chair, 2009-13; Trustee 2014-16. *Analytical Chemistry Division:* Chair, 2009-10; Program Chair, 2008-09, Chair-Elect, 2007-08, Immediate Past-Chair, 2008-09, Fundraising Committee Chair, 2012-13.

Member: National Organization for the Professional Advancement of Black Chemists and Chemical Engineers; Sigma Xi; Alpha Kappa Alpha Sorority, Inc. *ACS Divisions:* Agrochemicals; Analytical Chemistry; Biological Chemistry; and Business Development and Management.

Related Activities: 2015 ACS National Meetings presentations: Committee on Minority Affairs Luncheon, Spring, 2015; Legacy of Henry A. Hill Symposia, Fall 2015. Spearheaded Waters sponsorship of the Frank H. Field and Joe L. Franklin Award for Outstanding Achievements in Mass Spectrometry and the ACS Award in Separation Science and Technology; Keynote or invited speaker at the 15th International Conference of the Indian Society of Chemists & Biologists, Rajkot, India, 2011; The International Conference on Chemistry for Mankind, Innovative Ideas in Life Sciences, Nagpur, India, 2011; Third Annual PepCon Conference, Beijing, China, 2010; and The Sixth Annual Congress of International Drug Discovery Science and Technology, Beijing, China, 2008. Over 70 publications and presentations focused on separation sciences; contributed a chapter in the book on active learning in analytical chemistry, 2007.

SCHULZ, KATHLEEN M. *Central New Mexico Section.* Business Results, Inc., Albuquerque, New Mexico.

Academic Record: Eastern New Mexico University, B.S. *summa cum laude*, 1964; University of Missouri, Ph.D., 1973.

Honors: ACS Fellow, 2009; ACS Office of Public Outreach Appreciation Award, 1996; ACS Analytical Division Summer Fellowship/Carle Instruments, 1970; Sandia President's Quality Award, Advanced Sales Training Program, 2005; American Marketing Association Marketer of the Year Award of Achievement for New Mexico, Government Category, 2000; Sandia/Lockheed-Martin Employee Recognition Award-Robotic Industry Association Trade Show Team, 2000; Professionalism Award, Midwest Research Institute Council of Principal Scientists, 1989; Pioneer in Laboratory Robotics Award, International Symposium on Laboratory Robotics, 1988; Outstanding Young Women in America, 1974; Gulf Oil Fellowship, University of Missouri, 1971-72; NDEA Graduate Fellowship, University of Missouri, 1968-71.

Professional Positions (for past 10 years): Business Results Inc., President, 2009 to date; Lockheed-Martin Corporation/Sandia National Laboratories: Systems Engineer/Performance Improvement Consultant, Business Development Manager, Technology Marketing Consultant, 2000-08.

Service in ACS National Offices: Board of Directors, Director-at-Large, 2011-16; Councilor, ex officio, 2011-16; Board Executive Committee, 2015; Board Standing Committee on Planning, 2015, Chair, 2015; Committee on Professional and Member Relations, 2015; Committee on Grants and Awards, 2011-13; Committee on Public Affairs and Public Relations, 2011-15 Chair, 2012-14; Council Policy Committee, (Voting) 2008-10, (Nonvoting) 1999-01; Committee on Nominations and Elections, 2002-07; Committee on Committees, 1996-98; Committee on Local Section Activities, 1999-01, Chair, 1999-01; Committee on Public Relations, 1992-

98, Chair, 1997-98, Committee Associate, 1992-93; Board of Trustees, Group Insurance Plans for ACS Members, 1999-07; Member ACS Leadership Advisory Board, 2009 to date; Advisory Board for Industry Relations, 1999-01; Presidential Task Force on Climate Science, 2011-13; Presidential Task Force on Innovation in the Chemical Enterprise, 2010; Presidential Working Group on Leadership Development, 2002-03, Chair, 2002-03; Presidential Task Force on Bylaw Changes for Division and Local Section Support, 2001; Presidential Task Force on Leadership Development, 2000-01; Presidential Task Force on Society Support to Local Sections and Divisions, 2000; Board of Directors Task Force on Technical Programming, 1998; ConC Task Force on Governance, 2003; ConC Task Force on Committee Effectiveness, 2002-03; ConC Future Directions Task Force, 1998; ConC Industry Pipeline Task Force, Chair, 1997-98; Board Oversight Group on Leadership Development, 2004-05, Co-Chair, 2004-05.

Service in ACS Offices: Member ACS since 1965. Bylaw Councilor, 2010. *Division of Business Development and Management:* Councilor, 2004-09; Membership Committee Chair, 2003-08. *Division of Industrial and Engineering Chemistry:* Councilor, 1994-02; Alternate Councilor, 1988-93; Past-Chair, 1990; Chair, 1989; Chair-Elect, 1988; Program Committee, 1990-96; Program Secretary, 1990-94; Automation Program Chair, 1990-96; Executive Committee Member-at-Large, 1986-88. *California Section:* Executive Committee, 1974-77. *Fresno Subsection:* Chair, 1976-77; Chair-Elect, 1975; Secretary-Treasurer, 1979, 1974.

Member: The Association for Talent Development. *ACS Divisions:* Industrial and Engineering Chemistry, Small Chemical Business.

Related Activities: *Facilitator:* For ~20 ACS grassroots unit strategic planning retreats, 2012 to date; *Developer* of ACS training, programs, subdivisions, and symposia. *Trained/certified* in many consulting and organization development skills. *Professional experience:* 40 year career in every sector of the chemical enterprise; wide range of positions e.g., professor, principal investigator, program manager, business unit director, consultant. *Speaker/Presenter:* Many technical presentations, seminars and workshops delivered nationally and internationally in person, via live TV or videoconference. Due to space restrictions, see election website (after spring meeting) for full details.

REQUEST FOR SUGGESTIONS FOR 2018 DIRECTORS AND SOCIETY OFFICERS

A Reminder

The Committee on Nominations and Elections needs the aid of Councilors in discharging the following responsibilities specified in the Bylaws:

1. receiving from members suggestions of persons who should be considered when selecting proposed nominees for SOCIETY offices;
2. preparing a panel of nominees for District Directors and President-Elect, and of candidates for Directors-at-Large,

The Committee asks each Councilor to examine the following list of positions to be filled on January 1, 2018, and the list of those continuing in related posts. Names of individuals suggested for nominations should then be inserted in the appropriate blanks. These sheets can be left on the table near the door as you leave the Council meeting, or emailed to the Chair of the Committee: Mr. D. Richard Cobb - nomelect@acs.org

PRESIDENT-ELECT

Incumbents in the 2016 Presidential succession are: President, Donna J. Nelson; President-Elect, Allison A. Campbell; and Immediate Past President, Diane Grob Schmidt. Nominees for President-Elect in 2017 are Peter K. Dorhout, Thomas R. Gilbert, C. Bradley Moore, and Gregory H. Robinson. From this list, two will be selected at this Council meeting to run (along with any others nominated by petition) as candidates for election this fall (see Council agenda **Item IV, A, pages 19-25**).

DESCRIPTION OF DUTIES AND DESIRED CHARACTERISTICS FOR PRESIDENT-ELECT NOMINEES

The President is the Primary Spokesperson and Representative of the Society

Some Major Duties:

- Works with the Board of Directors to identify key themes and priorities; supports those themes with presidential programming at National Meetings
- Preside at Council meetings
- Works jointly with the Chair of the Board in the appointment of members to Committees
- Chair the Council Policy Committee
- Advocacy activities
- Spokesperson on ACS policies to the media around the world

Some Desired Characteristics:

- Ability to represent the Society on the world stage
- Ability to work collaboratively on and with the ACS Board of Directors
- Integrity and strong ethical character
- Strong commitment to advocate for chemistry
- Enthusiasm for the job
- Ability to communicate in writing and orally
- Business acumen
- Leadership Experience
- Visibility and credibility within the profession
- Vision and Ability to get things done
- Flexibility to travel
- Likes meeting and working with members

**DESCRIPTION OF DUTIES AND DESIRED CHARACTERISTICS
FOR DIRECTOR-AT-LARGE & DISTRICT DIRECTOR CANDIDATES**

The Board of Directors is the legal representative of the SOCIETY, and, as such, have, hold, and administer all the property, funds, and affairs of the SOCIETY.

Some Major Duties:

- Ensure the fiscal soundness and financial stability of the Society
- Review and approve the Society's annual operating budget
- Establish salary and compensation of ACS executives
- Review and approve new Society initiatives
- Establish and revisit Society policies
- Guide the ACS in accord with the mission and vision
- Ensure that the ACS meets the needs of its members, its constituents, and the profession
- Attend Board & Council meetings; execute assigned duties; represent the Board at other events
- Minimum time commitment: 30-45 days per year

Some Desired Characteristics:

- Integrity and strong ethical character
- Strong communication skills
- Ability to collaborate with others in the accomplishment of goals and creation of new programs
- Business and budget acumen
- Willingness to make tough decisions
- Demonstrated leadership and governance experience
- Commitment to the Society's goals and strategic plan
- Broad vision and strategic thinking
- Places welfare of the Society above personal ambitions
- Team Player
- Likes meeting and working with members

DIRECTORS-AT-LARGE

Incumbents whose terms expire at the end of 2017 are William F. Carroll and Barbara A. Sawrey. William F. Carroll is ineligible for reelection, and Barbara A. Sawrey is eligible for reelection.

Lee Latimer, Ingrid Montes, Dorothy Phillips and Kathleen Schulz, are other Directors-at-Large. From the following candidates (plus any nominated by petition), two will be elected this fall for a three-year term, 2017-2019: Joseph A. Heppert, Kristin M. Omberg, Dorothy J. Phillips, and Kathleen M. Schulz (see Council agenda **Item IV, C, pages 27-30**).

DIRECTOR, DISTRICT III

Elected by members of local sections having their headquarters in Delaware, New Jersey, Pennsylvania (except the Erie, Penn-York and Pittsburgh Sections), Maryland and the District of Columbia.

The incumbent, Pat N. Confalone, is ineligible for re-election.

DIRECTOR, DISTRICT VI

Elected by members of local sections having their headquarters in Alaska, Arizona, California, Hawaii, Nevada, Oregon, Washington; and those members with addresses in Arizona, Nevada, Oregon, Washington, in the provinces of Alberta, British Columbia, and Saskatchewan, and in the extra-provincial territories of Canada who are not assigned to local sections.

The incumbent, Paul W. Jagodzinski, is eligible for re-election.

OTHER DISTRICT DIRECTORS

The other District Directors who continue in office beyond 2017 are:

Laura E. Pence, District I
John E. Adams, District V

District Directors will be elected this fall for the 2017-2019 term to represent Districts II and IV. The slates of nominees are (see Item IV, B, page 26):

DISTRICT II
George M. Bodner
Christina C. Bodurow
Isai T. Urasa
Ruth Ann Woodall

DISTRICT IV
Rigoberto Hernandez
Larry K. Krannich
Jason E. Ritchie
Barry J. Streusand

REQUEST FOR SUGGESTIONS FOR 2018 SOCIETY DIRECTORS AND OFFICERS

Attention: Mr. D. Richard Cobb
nomelect@acs.org

Dear Mr. Cobb:

I propose the following MEMBERS for consideration by the Committee on Nominations and Elections:

PRESIDENT-ELECT

Name _____ Name _____

Affiliation _____ Affiliation _____

DIRECTOR-AT-LARGE

Name _____ Name _____

Affiliation _____ Affiliation _____

***DIRECTOR, DISTRICT III**

Name _____ Name _____

Affiliation _____ Affiliation _____

***DIRECTOR, DISTRICT VI**

Name _____ Name _____

Affiliation _____ Affiliation _____

Suggested by: (Name Optional)

(Local Section or Division Affiliation)

*See preceding pages for territory

(This form must be received no later than May 15, 2016.)

BALLOT COUNTS, PREVIOUS ELECTIONS

The Committee on Nominations and Elections regularly reports in the Council agenda the numerical results of balloting from nominations and elections at the previous meeting and of interim mail balloting. The following tabulations give the numerical results of the balloting at the August 19, 2015 meeting of the Council for election of members of the Council Policy Committee, Committee on Committees, and Committee on Nominations and Elections; and of mail ballots for election of President-Elect, Directors of District I and V, Directors-at-Large and Nominations and Elections Committee (November 2, 2015).

COUNCIL POLICY COMMITTEE

John R. Berg	97	*Lisa Houston	178
*Frank D. Blum	259	*Lee H. Latimer	285
*Mary K. Carroll	305	Doris I. Lewis	146
Dwight W. Chasar	133	Barbara P. Sitzman	144

COMMITTEE ON COMMITTEES

*Christopher J. Bannochie	265	Fran K. Kravitz	129
*Michelle V. Buchanan	199	Patricia A. Redden	96
*Alan B. Cooper	268	*Carolyn Ribes	260
**Jetty Duffy-Matzner	164	Sharon P. Shoemaker	106
*Donna G. Friedman	176	Julianne M. D. Smist	120
Lynn G. Hartshorn	132	Stephanie J. Watson	158

**Elected for a 2-year term (2016-17) to fill a vacancy

COMMITTEE ON NOMINATIONS AND ELECTIONS

V. Dean Adams	121	*Roland F. Hirsch	203
Matthew K. Chan	187	*C. Marvin Lang	191
David A. Dixon	94	*Les W. McQuire	302
*Mary K. Engelman	227	*Donivan R. Porterfield	220
Joseph A. Heppert	154	Ralph A. Wheeler	146

PRESIDENT-ELECT
(November 2, 2015)

G. Bryan Balazs	8,483
*Allison A. Campbell	9,776

DIRECTORS-AT-LARGE
(November 2, 2015)

*Lee H. Latimer	223
Willem R. Leenstra	123
*Ingrid Montes	234
Mary Jo Ondrechen	85
Thomas W. Smith	64

DIRECTOR, DISTRICT I
(November 2, 2015)

Thomas R. Gilbert	1,141
*Laura E. Pence	1,152

DIRECTOR, DISTRICT V
(November 2, 2015)

*John E. Adams	1,584
Kenneth P. Fivizzani	1,121

* Individual Elected

REPORT OF THE PRESIDENT

Fellow Councilors,

Community building within ACS is a major theme of my three-year term, so this report will focus on those activities. I view ACS as a giant community, with smaller communities inside. The programming which I have organized for ACS National Meetings responds to the concerns of additional communities of members within the society.

Three presidential symposia in San Diego will address ACS member concerns about employment in the chemical sciences, demographic data and their applications to diversity in chemistry, and changes in the use of organic chemistry as a prerequisite. Each symposium will include a panel discussion, in which speakers and members of the audience will pose questions to each other. I hope you will attend and participate in the lively dialogue with panelists and other audience members.

I. The San Diego Meeting symposia which will address members' concerns are:

A. "Discussions with the President's Task Force on Employment," will be held on Sunday, March 13 from 1:30 to 4 PM. Speakers will be members of the president's task force, representing academe, government, and industry. Task force members are examining (1) issues broadly related to employment of chemistry professionals in the U.S., (2) the plight of demographic subgroups and people at different education and experience levels, and (3) different sectors of employment reflecting the situation of all chemical professionals, not just ACS members. They will report the results so far on topics pertinent to unemployment in the chemical sciences, such as supply and demand in the chemical workforce, career opportunities for undergraduate professionals, professional certificates, preparing graduates for industrial jobs, challenges of unemployment, and global factors influencing employment.

B. "Is There a Crisis in Organic Chemistry?" will be on Monday, March 14, from 9 to 11:30 AM. Representatives from publishers of comprehensive undergraduate organic chemistry textbooks will speak. Cengage, Elsevier, McGraw-Hill, Macmillan, Pearson, and Wiley will discuss changes in organic chemistry as a prerequisite, current teaching methods, and responses of organic chemistry programs, professors, and requirements.

C. "Diversity—Quantification—Success" will be on Monday, March 14, from 1:30 to 4 PM. Madeleine Jacobs, Valerie Kuck, Sibrina Collins, Rigoberto Hernandez, and Dontarie Stallings will present their demographic data, disaggregated by race and gender, in the chemical sciences, which are used to drive activities diversifying the chemical sciences.

D. In another break with tradition, ACS members will contribute papers to presidential poster sessions corresponding to the above oral sessions and interact with authors and other attendees during poster sessions Sunday evening and Monday during Sci-Mix. Both panel discussions and poster sessions will help build community within our Society.

II. Additional Presidential programming which addresses the concerns of ACS members is being planned for the ACS National Meeting in Philadelphia. The format will be much the same as that above, consisting of oral panel discussions with a contributed Presidential poster session for each. The topics selected are:

- A. Safety and Ethics in Our Chemical Community: Controlling science, by and for all scientists
- B. Standing up for science: Difficult discussions about jobs
- C. Fracking: Economics vs environment

Please plan to attend these symposia based on topics which have been identified by ACS members. They are being created out of consideration and care for ACS members.

Donna J. Nelson

REPORT OF THE PRESIDENT-ELECT

It is an honor to begin 2016 as your President-Elect. Thank you for putting your trust in me. Though slowed a bit in December with hip surgery, I assure you I'm fit and eager to get started in 2016.

The implementation strategy that springs from my campaign platform is beginning to shape up as I write this report in January 2016. I'll provide further structure and details in my oral report to Council in March in San Diego. Currently, the message/topical areas are 3-fold:

- Advocacy: Influence on science/chemistry policy and advocacy for stability (and even growth) of funding for science
- Science Literacy: For the general public and for our members and future members
- Sharing international "best practices": Working with the international chemical community and societies on identifying best practices for safety, ethics and environmental stewardship – including diversity and inclusion, and international collaborations.

I also plan to continue the momentum my predecessors gained with the completion of their task forces, and maximize return on investment by continuing implementation of as many of the action plans identified as possible.

Initial thoughts about specific projects during my term include:

"Chemistry Day on the Hill" (target National Chemistry Week 2017)

- Expanded use of the successful ACS mechanisms/platforms (e.g., "Program-in-a-Box", "Grab the Mike" and LAB) to bring resources and training close to home for our members, especially regarding communication with the public and government representatives and for improving science literacy.
- International Chemistry Society Summit that brings together the international community to begin to map out best practices.

Recent safety events and corporate mergers are on the minds of chemists around the world. The safety of our members and chemists worldwide is very important to me. Additionally, I want to gain a deeper understanding of the impacts of recent corporate mergers on the chemical community and our members. These events will help shape my thinking as I work to focus my initiatives in the New Year.

Of course, the ACS Presidential Succession travels to represent YOU worldwide. I am working with our Board of Directors and ACS staff to focus my travel in 2016 as President-Elect to...

- Represent ACS in key venues, both domestically and internationally. For example, I plan on spending time each month in Washington, DC and at other international chemical society meetings to further chemistry agendas and collaborations.
- Travel to regional meetings and local sections as much as possible to hear from members first-hand.

It is important that I remain available to you. Feel free to contact me at any time at a.campbell@acs.org. I look forward to hearing from you with actionable ideas. Together we can make a difference on our collective future.

Allison A. Campbell

REPORT OF THE IMMEDIATE PAST PRESIDENT

This report summarizes progress from 2015 on some of my ACS Presidential initiatives in support of ACS and ACS members. The initiatives are under the umbrella of my overall Presidential theme "Inspiring and Innovating for Tomorrow."

In 2015 I seized the opportunity to help promote a **Grand Challenge** issued by the White House Office of Science Technology & Policy on nanotechnology. After collaborating on that challenge, I was approached to promote a Grand Challenge on energy here in San Diego. I hope many of you will be able to attend a symposium I am co-organizing through ENFL with Michelle Buchanan, "**Research Opportunities for Future Energy Technologies.**" Several high level speakers will be discussing the future of clean energy, carbon capture, advanced materials for energy materials, hydrogen fuel cells and the role of advanced manufacturing.

The **Chief Technology Officers [CTO] Summit** was held September 23-24, 2015 in Washington, DC. The vision for this Summit was to create a "game changing" event relevant to industry in today's global chemistry enterprise and trigger on-going ACS engagement with industry. The Summit leveraged the convening power of ACS and its Washington location to provide a neutral forum where CTOs could interact with peers and share perspectives on challenges and opportunities they view as critical to the chemical enterprise in today's realities. The Summit drew 18 executives from 17 different companies. We held in-depth, discussions following panels composed of the CTOs as well as presentations from four senior officials from federal agencies of high importance and relevance to industry. The benefit for ACS was identifying relevant ways of how ACS can better serve its industry members and industry. The exciting outcomes and key action steps from this Summit are summarized in my [C&EN Comment](#) of December 21, 2015. Based on CTO feedback after the Summit, the objectives were achieved. The multi-pronged approach to engage industry in addition to the CTO Summit is summarized in my [C&EN Comment](#) of July 20, 2015.

Tom Connelly and I held **CEO and CTO corporate visits** both together and separately during 2015. These visits have also provided another forum whereby we are able to learn more about the company's current operating environment, and bring these insights to bear through ACS programs and services. The impact of these meetings will be refined offerings more directly tailored to the needs of our industry members. Companies visited in 2015 included: Procter & Gamble (P&G), Chemtura, Arkema, NovaBiomedical, Merck and FMC. From my long career at P&G, I look to continue using my industry contacts in 2016 to meet with more executives to establish an even better understanding of today's market drivers, and learn how they affect our members. Better serving our industry members is the expected outcome.

The warming of relations between the U.S. and Cuba provided the opportunity for an historic meeting and in depth discussions between ACS and the Cuban Chemical Society [CCS] at **QUIMICUBA 2015** (October 13-16, 2015). This was very productive in terms of building the ACS relationship with CCS. Specific individual meetings held in conjunction with the Congress were with: President and key CCS Officers, Director of the Center of Molecular Immunology; Dean of the Chemical Faculty at the University of Havana, Head of the Cuban Academy of Sciences and the U.S. Embassy Science & Technology Officer plus the Public Affairs Officer of the recently opened U.S. Embassy in Havana. The week culminated with an ACS proposal for five possible engagements with CCS going forward. I look forward to reporting back on their progress as we continue our interactions with the Cuban Chemical Society.

The **ACS Presidential Task Force on Addressing Workforce Needs through Industry/Two-Year College Partnerships** is finalizing its report. The report articulates a series of recommendations focused on engagement with industry and program promotion, policy opportunities, and knowledge sharing. To advance the recommendations to better meet the workforce needs of the chemical industry, the Implementation Task Force began its work in February.

One of the highlights of my Presidential year was serving as the Co-Chair of the **ACS Scholars Program 20th Anniversary Appeal**. This tremendously successful fundraising effort exceeded its \$1 million goal with new gifts and pledge of nearly \$1.7 million. Clearly, there is a compelling case for attracting underrepresented minority undergraduates into the chemical enterprise as part of the workforce of the future. I am proud that Procter & Gamble made a major pledge to bring its cumulative contributions to \$1 million. ACS also received new commitments of \$100,000 or more from Genentech, Gilead, Merck and Pfizer. Several ACS members pledged \$100,000 in current or estate gifts to endow scholarships. I look forward to continuing to advocate for this program and to help build its new endowment fund.

Diane Grob Schmidt

REPORT OF THE CHAIR OF THE BOARD OF DIRECTORS

First and foremost, I wish to express my gratitude to my Board colleagues who entrusted me once again with the role of Chair of the Board at our December 2015 Board meeting. We indeed have a diverse and multi-talented Board of Directors that brings a vast array of experience, insights and knowledge for the benefit of the American Chemical Society. It is through their hard work and dedication to the responsibilities of the Board that the many important contributions to governance are realized- and for that I thank them very much.

In 2015 we united behind our initiative to engage scientific professionals around the world to address the many challenges facing our planet and its inhabitants – challenges that we know can be addressed by innovations stemming from the central science of chemistry. In addition, we strongly supported and enhanced the variety of offerings by ACS Publications, Chemical Abstracts Service, and our multitude of Society programs. A complete deployment of our Society Program and Portfolio Management review now ensures that we are “resourced to win” and budget and human resources are directed toward our most important programs. It has been an honor and a pleasure to work closely with my colleagues over the past year, and I look forward to the contributions of our newest directors – Allison Campbell, Laura Pence and Lee Latimer.

We realize that 2016 is going to be another year of challenges and opportunities. I am confident that the high performance team we have elected will work energetically to ensure the brightest future for our chemists, our science, and society.

An area of growth and promise for the ACS is our continued outreach to chemists across the globe. Our offerings among Publications [now numbering 50], Chemical Abstracts Service and Society programs are increasingly being utilized by scientists outside of the US. As a Board, we continue to establish and renew alliances with chemical societies around the world whose missions align with ACS, and we foster the establishment of international chapters seeking to be part of the ACS community. The global challenges we face can only be addressed by working in concert with scientists around the world and across disciplines. With this in mind, the Board voted to include revisions enhancing the Core Values statement “Passion for chemistry *and the global chemistry enterprise* in the broadest sense.”

As a Board, we recently initiated efforts designed to significantly increase Governance flexibility, by streamlining and simplifying processes and practices. This is a most important effort and will be a work in progress for some time to come. It is imperative that we have the tools and resources in place to allow ACS to move strategically and efficiently, with an appropriate structure and culture for 2016 and beyond. The Board seeks your input to identify opportunities to improve our agility and remove any obstacles that might impede our progress.

I look forward to briefing you throughout 2016 on our accomplishments, and working with Councilors to ensure ACS remains not only the largest, but the best scientific society worldwide.

Pat N. Confalone

MINUTES
REGULAR SESSION
BOARD OF DIRECTORS
AMERICAN CHEMICAL SOCIETY
BOSTON, MA
August 16, 2015

The Board of Directors of the American Chemical Society met in Boston, Massachusetts, on August 16, 2015, beginning at 12:00 p.m. Pat N. Confalone, Chair, presided. Other Directors present for all or part of the meeting were: John E. Adams, Tom J. Barton, George M. Bodner, William F. Carroll, Jr., Thomas M. Connelly, Thomas R. Gilbert, Rigoberto Hernandez, Paul W. Jagodzinski, Valerie J. Kuck, Ingrid Montes, Donna J. Nelson, Dorothy J. Phillips, Barbara A. Sawrey, Diane G. Schmidt, and Kathleen M. Schulz. Present by invitation for all or parts of the meeting were: Brian A. Bernstein, Denise L. Creech, Manuel Guzman, Mary Kirchhoff, Martha K. Lester, Flint H. Lewis, Glenn S. Ruskin, David T. Smorodin, Frank E. Walworth, Marleen G. Weidner, and George M. Whitesides. More than four hundred observers were present at various times during the meeting.

Call to Order and Report from Executive Session

Pat N. Confalone, Chair, opened the meeting by welcoming the attendees and introducing his Board colleagues. Next, he summarized the key actions and discussion points from the Board's executive session, August 14-15:

- The Board voted to approve Society nominees for the National Science Board Public Service Award and the 2016 Alan T. Waterman Award; reappoint an Editor-in-Chief for an ACS journal; set the advance member registration fee for national meetings held in 2016; authorize a new program funding request for the *ACS Festival Series* program; and to reauthorize funding for the *ACS Science Coaches* program.
- The Board heard reports on the activities of Chemical Abstracts Service (CAS) and the ACS Publications Division; received updates from the Executive Director and CEO and the Society's Secretary and General Counsel; and was briefed by members of the Presidential Succession on their current activities and those planned for 2016.
- As part of its ongoing commitment to consider the most important strategic issues facing the Society, the Board held a discussion on the health and strength of Local Sections and Divisions.

Reports of Officers

President

ACS President Diane G. Schmidt highlighted the presidential symposia and events scheduled for the Boston meeting: 21st Century Chemistry Education, ACS Scholars: Rising Stars in Academe and Industry, and Transforming University-Industry Partnerships. She also announced that there are four symposia at this meeting, each organized to celebrate the 100th anniversary of the birth of Henry Hill, an ACS past president, sponsored by the divisions of the History of Chemistry, Polymer Chemistry, Professional Relations, and Small Chemical Businesses.

President-Elect

ACS President-Elect Donna J. Nelson reported on the progress of the presidential task force on employment issues. The main goal of the task force is the implementation of solutions identified by the task force and others. The task force will report on its activities and results through articles and symposia at ACS meetings, and is currently collecting the opinions and concerns of the chemical community via poster sessions at ACS meetings. Comments can also be sent directly to the task force through its chair, Attila Pavlath (attilapavlath@yahoo.com). She also announced future national meeting programming in the areas of employment in chemical sciences, diversity in chemical sciences, and organic chemistry education.

Immediate Past President

ACS Immediate Past President Tom J. Barton, in his final report at an open meeting, briefly reviewed the 3 areas on which he focused during his years in the presidential succession. In the education arena, he spoke on many occasions against the various obstacles facing attainment of uniform high-quality K-12 science education in the U.S. In the arena of internationalization, he is most proud of strengthening ACS relationships with chemical societies south of the border, in particular, the Sociedad Química de México. Finally, in efforts to find better ways to serve invaluable industrial members, he is pleased to have been a force in establishing a more meaningful relationship with the American Chemistry Council, which currently has resulted in the establishment of a task force to design community college programs to provide chemical industries with workers ready to hit the ground running in the various aspects of manufacturing.

Executive Director and Chief Executive Officer

ACS Executive Director and Chief Executive Officer Thomas M. Connelly reported that ACS is strengthening its support to all members, and cited two examples of offerings to industrial members. First, the Heroes of Chemistry Awards, which recognize significant contributions of teams representing the full breadth of the chemistry industry. Second, he announced that ACS will host a Summit for Chemical Sciences Chief Technology Officers (CTOs) later this fall. CTOs from nearly 20 companies will explore ways to further increase the value of ACS to chemists and engineers in industry.

Dr. Connelly reported that the Society has received more than \$3.2 million in new gifts and pledges, year to date. He thanked ACS leaders, dedicated volunteers and generous members who have contributed to the success of the ACS Scholars 20th Anniversary Appeal, and recognized Teva Pharmaceuticals for its third pledge of \$1 million to support research grants to early career faculty.

Guest Presentation

Dr. Confalone introduced the guest speaker, Dr. George M. Whitesides, who spoke on the topic "Reengineering Chemistry."

Dr. Whitesides asserted that chemistry is ending a post WWII era of extraordinary intellectual growth and commercial contribution to society, which was characterized by a mutually beneficial expansion of academic and industrial chemistry. Although that era is over, the new opportunities that have appeared are greater in terms of intellectual challenge and impact on society: they are broader in scope and greater in complexity, requiring new structures and new methods. Chemistry is now a field with unique capabilities in manipulating molecules and matter; its future extends from living cells to megacities, and from harvesting sunlight to improving healthcare. In this new era, chemistry – academic and industrial, with cooperation from government – would benefit from abandoning distinctions between science and engineering, between curiosity-driven understanding and solving hard problems, and between chemistry and other fields – from materials science to sociology.

Following Dr. Whitesides' presentation, Dr. Confalone thanked him for sharing his thought-provoking views. Dr. Whitesides then answered questions posed by members of the audience. At the conclusion of the question and answer session, Dr. Confalone thanked all the participants for the success of another filled-to-capacity meeting.

There being no further business, the meeting was adjourned at 1:00 p.m.

Flint H. Lewis
Secretary

**BOARD CHAIR'S REPORT
OF EXECUTIVE SESSION
ACTIONS AND DISCUSSION ITEMS
DECEMBER 2015**

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

The Board's Elections

The Board of Directors held two elections: the first to select the chair of the Board for 2016 and the second to elect members for its Executive Committee. The Board re-elected Pat N. Confalone as chair for 2016; and also elected John Adams and Dorothy Phillips to fill terms on the Executive Committee. Dr. Adams will fill a two-year term and Dr. Phillips will fill a one-year term.

The Board's Committees, Advisory Boards, and Task Forces

The Board of Directors received reports from its Executive Committee, the Committees on Executive Compensation, Grants and Awards (G&A), Planning, and Professional & Member Relations (P&MR), the Society Committee on Budget & Finance (B&F), the Task Force on Governance Agility, and the Task Force on Committee Review.

The Board Chair reported that the Executive Committee met with the Chair of the Committee on Nominations and elections (N&E) to better understand what N&E needs from the Board to assist it in identifying candidates for the Board, and to better understand each other's procedures and challenges.

On the recommendation of the Committee on Executive Compensation, the Board VOTED to approve several actions relative to compensation for the Society's Executive staff. The compensation of the Society's executive staff receives regular review from the Board.

On the recommendation of the Committee on Grants and Awards, the Board VOTED to financially support a Society Award for the 2016 presentation, unless a sponsor is found to support the award; and approved the Society's nominees for the National Medal of Science and the Fondation de la Maison de la Chimie Prize.

On the recommendation of the Committee on Professional & Member Relations, the Board VOTED to approve the new strategic alliances with the Mexican Chemical Society (SQM) and the Brazil Chemical Society (SBQ), for 2016 - 2018; and the renewal of the ACS / South African Chemical Institute (SACI) Alliance, for 2016 - 2020. P&MR reported that it expressed support for a number of requests made by the Diversity and Inclusion Advisory Board, notably to adopt an ACS strategic imperative for increasing the diversity of ACS membership and their involvement in the Society.

On the recommendation of the Planning Committee, the Board VOTED to approve the proposed ACS *Strategic Plan for 2016 and Beyond*. Revisions included enhancing the Core Values statement ("Passion for chemistry *and the global chemistry enterprise* in the broadest sense."), and Goal 1 ("Be the most authoritative, comprehensive, and indispensable provider of chemistry-related information *and knowledge-based solutions*"), and updating several Challenges and Opportunities and Objectives for each of the four goals. As a follow-up, the list of possible strategic issues for Board discussion during 2016 will be refined based on the Board's consideration and ranking for preference at this meeting, and will be circulated for additional comment. The Planning Committee reported that it held a successful Strategic Planning Retreat in Washington, DC, on November 14 & 15, 2015. The retreat was facilitated, and used ACS Leadership Development System® methodology, as taught in the ACS Strategic Planning Workshop. The Board also held a strategic discussion related to Governance Flexibility and Streamlining.

On the recommendation of the Committee on Budget and Finance, the Board VOTED to approve the 2016 Proposed Operating Budget with a Net Contribution from Operations of \$13,358,000, and the 2016 Proposed Capital Budget of \$40,280,000.

The Board received a report from its Development Advisory Board, and VOTED to approve 2016 fundraising goal of \$3.5M; and to designate the ACS Scholars Program, Advancing Chemistry Teaching, and Project SEED as fundraising priorities for 2016.

The Executive Director and CEO Report

The Executive Director and CEO and his direct reports updated the Board on membership trends and opportunities, notable 2015 accomplishments, globalization, and the activities of Chemical Abstracts Service (CAS), ACS Publications, and the Society's General Counsel. The Board was also briefed on the process for the renaming and branding project associated with the recent merger between the Chemical Heritage Foundation (CHF) and the Life Sciences Foundation (LSF).

The Presidential Succession/Safety Issues

The Board received reports from the Presidential Succession on their current and planned activities for the remainder of 2015 and 2016. The Board agreed in committee, as advocated by ACS President Diane Schmidt, to review and reinforce its commitment to safety, including in national awards, the ACS Fellows program, and the Chemical Professional's Code of Conduct, and by treating safety as a core safety value. In addition, Dr. Schmidt reported on her interactions on this subject, both by email and in person, with the Division of Chemical Health and Safety and other ACS members. The Board Committee on Grants and Awards added safety as a criterion for national awards in 2013

Other Society Issues

By consent, the Board VOTED to ratify several interim actions: confirmed the amendments to the Bylaw regarding Preferential Voting and Member Expulsion, approved the recommendation from the Committee on Grants and Awards of the Society nominee for the 2016 Perkin Medal; and approved the merger between the Chemical Heritage Foundation (CHF) and the Life Sciences Foundation (LSF), as presented in the Agreement and Plan of Merger. The Board also approved the establishment of the Australia, Brazil, Nigeria, Peru, and United Arab Emirates International Chemical Sciences Chapters, as approved by Council; and the schedule and location of the Board of Directors meetings in 2016.

The Board also VOTED to approve resolutions for members Tom Barton, Tom Gilbert, and Valerie Kuck, who are leaving the Board this year, for their many contributions to the Board and to the Society.

Pat N. Confalone

REPORT OF THE EXECUTIVE DIRECTOR

The year 2015 was a year of transition for the American Chemical Society. A succession of the Executive Director & CEO occurred in February, for the first time in more than a decade. This was not the only change. CAS growth efforts continued to gain momentum with the launch of three new products. ACS Publications took important steps forward in the Open Access segment with the launch of its first open access journal, and the announcement of an open access mega journal. Membership increased slightly during the year. Membership & Scientific Advancement (M&SA) efforts to broaden our membership base globally, the expansion of international chapters, the launch of the Enterprise Model, and updating of our value proposition for members in industry, are just a few of the thrusts employed. Education completed its first full year of the American Association of Chemistry Teachers (AACT), whose membership has grown to more than 3,000.

Our Development team exceeded its goals for overall fundraising and for the 20th Anniversary ACS Scholars Appeal. Unified Architecture (UA) has hit its milestones for 2015, and is on track to deliver all its objectives. UA has also changed and improved our approach and skills in IT project management.

ACS also looked harder at its internal operations and has found many opportunities to streamline and simplify our operations. Breaking down siloes between our units is allowing us to remove duplications and standardize back-office tasks. We have identified opportunities in Finance, HR and IT, and also in our operating units. Achieving efficiencies in our internal operations liberates resources to work on our ACS Goals.

One thing that did not change during 2015 was the commitment to maintaining the financial strength of the Society. For the twelfth consecutive year, ACS generated positive operating results. Subject to audit by KPMG, the Society ended 2015 with record revenue, at \$511.7M, up +2.5%. The net contribution from operations was \$16.8M, which exceeded our annual plan by \$3.4M. Unrestricted assets rebounded from \$144.7M to \$163.3M, as a result of the strong operating results and a partial reversal of accounting charges recorded in prior years related to postretirement benefit plans. The favorable operating results and positive changes in the funded status of the postretirement benefit plans were partially offset by losses incurred in our investment portfolio.

This report highlights 2015 accomplishments from across ACS and reflects the hard work of members, governance and staff throughout 2015. A comprehensive list of accomplishments will be posted on the ACS website in February.

GOAL 1—*Provide Information* – Be the most authoritative, comprehensive, and indispensable provider of chemistry-related information and knowledge-based solutions.

- **CAS's New Product Initiatives.** CAS made major advances in new product developments, launching three new product solutions, introducing one major new product (ready for release in 2016), and continuing to create a rich new product pipeline for CAS solutions. New products launched include:
 - NCI Global, a new internet accessed chemistry regulatory information solution, was launched in February 2015;
 - The CHEMCATS Chemical Supplier Program was launched to worldwide chemical supplier vendors in June, and;
 - PatentPak, released in June, is an advanced technology solution that provides users access to the original patent documents, family equivalents in more than twenty languages, and direct access to the hard-to-find chemistry that has been identified by CAS analysts. This same solution, available to STN customers in January 2016, was announced to the market in September.

All new products are successfully in the marketplace with growing sales and expanding marketing plans.

MethodsNow, available in 2016, was introduced to the market in August, with teaser promotions and sales demonstrations to targeted customers. This highly innovative benchtop product for chemists features the world's largest collection of templated protocols in analytical chemistry and reaction science. MethodsNow will be offered in a "stand-alone" version and within the SciFinder experience for selected capabilities.

- **SciFinder®.** Extensions to the CAS flagship product SciFinder® continue to improve the user experience. To help researchers quickly find what they need, CAS continued to add more content than any other scientific resource, and enhanced the most frequently sought after physical properties, additional experimental procedures, and increased visibility of chemical suppliers. Additionally, a new interactive viewer was integrated to provide PatentPak users direct access to hard-to-find and obscurely defined chemistry in patents. Also, we have made great progress on the development of a new SciFinder® technology platform which will be unveiled in 2016.
- **CAS Reports Record Levels in Content Growth.** CAS achieved many content related milestones in 2015, including record levels as follows:
 - A new record of more than 13.5 million new substances were added to the CAS REGISTRYSM, which now includes >105 million small molecules. This exceeds the prior record set in just 2014 when 13,142,121 new CAS Registry Numbers were assigned. As with prior recent years, growth in 2015 was driven by prophetic substances identified in patents, chemical supplier offerings for CHEMCATS® and organic growth for indexing of the literature.
 - The 100 millionth CAS Registry Number was assigned June 29, 2015 (CAS RN 1786400-23-4). The substance was reported in a World Intellectual Property Organization (WIPO) patent (WO 2015081280). The inventors (Coferon, Inc. in Stony Brook, NY) claim the molecule, available in both SciFinder® and STN®, is a novel therapeutic designed to treat acute myeloid leukemia.
 - More than 1.36 million indexed records were added to the CA/CAPplus family of databases. Patents continue to grow as a percentage of the total indexed records, now attributing greater than one-third of all records indexed by CAS scientists in 2015.
 - Nearly 1.7 million new single step reactions were added to the CAS reaction collection. This exceeds the number in 2014 of 1.5 million, with reactions arising from more than 100,000 journal and patent documents.
- **Global Expansion.** Through ACS International, Ltd. (ACSI), in 2015 CAS continued to expand its global reach in the following seven countries: Japan, South Korea, Brazil, Mexico, Taiwan, Singapore, and Australia. Expansion efforts now total 30 new team members in 11 countries, bringing direct representation to nearly 20 countries. These new representatives have helped create a significant number of new customer agreements and played a large role in new product sales. In addition, a strategic framework was established to coordinate the global initiatives of the divisions of ACS.
- **National/Regional Meeting Content & Networking.** More than 30,000 people combined attended ACS national meetings in Boston and Denver in 2015. The budget target for these meetings was achieved—due partly to successful ACS expositions and booth sales. In all, more than 20,000 scientific papers were delivered. The Kavli lectures again met high standards for both content quality and participation, and the national meeting app was used by a majority of attendees. Membership & Scientific Advancement (M&SA) leveraged the app and social media channels to facilitate new national meeting networking events—using technology to help members connect with colleagues via a networking lounge and other locations. ACS also enabled the organization of six ACS regional meetings in 2015, which attracted 4,300 participants combined—exceeding comparable 2014 attendance.

- **Collaborative Congress of Pacific Basin Societies.** M&SA worked with peer societies on the Pacific Basin to organize the seventh International Chemical Congress of Pacific Basin Societies (Pacifichem) in Honolulu in December. Held about every five years, this conference attracted more than 15,000 attendees and focused on the collaborative nature of chemistry as a multidisciplinary science.
- **ACS Publications Continues to Publish Outstanding Journals.** The Publications Division completed in 2015 the first full calendar year of publication of *ACS Biomaterials Science & Engineering* and *ACS Infectious Diseases*, broadening our Society's remit into research areas allied with chemistry. In addition, ACS Publications embarked upon the early editorial and marketing introduction of a new journal, *ACS Sensors*, already publishing content online prior to its subscription availability in 2016. This new title addresses active areas of interdisciplinary R&D related to sensor science. The Division also began last March the publication of Society's highly selective interdisciplinary open access journal, *ACS Central Science*, as part of a concerted expansion of open access publishing options made available to authors in 2015, including special benefits for ACS members.

During Pacifichem, ACS Publications announced the forthcoming publication of *ACS Omega* as an open access journal that will be supported by author publishing charges, with significant discounts to be extended to ACS members and also to researchers from developing countries. *ACS Omega* will greatly benefit authors and the global scientific community by offering rapid publication times and increased visibility of published articles in multidisciplinary chemistry, while also expanding the global reach of the ACS Publications portfolio. *ACS Omega's* first published content will appear in summer 2016.

- **Empowering Local Sections and Younger Chemists.** M&SA continued to extend its multimedia broadcast program with three "Program in a Box" events in 2015, helping local sections and student chapters nationwide host hybrid onsite/online events featuring high-value broadcasted content online, two-way interaction with presenters, and a ready-to-use materials kit to engage members and facilitate their learning and networking. Over 350 student chapters, local sections and ChemClubs participated in 2015—attracting more than 5,000 participants for the live events.
- **ACS Green Chemistry & Engineering Conference.** The 19th annual ACS Green Chemistry and Engineering Conference was a notable success, attracting 461 participants. The conference featured 33 technical sessions, a business plan competition, a live webinar, an NSF-sponsored student workshop, and other events. Media coverage included articles in *Decoded Science*, *Science News Magazine*, *Biomass Magazine*, and *Lab Manager*. An extensive social media campaign reached over 96,000 accounts.

GOAL 2—Advance Members Careers – Empower an inclusive community of members with networks, opportunities, resources, and skills to thrive in the global economy.

- **A Robust ACS Membership.** M&SA achieved all four key membership performance indicators in 2015. The Society ended 2015 with 150 more members than year-end 2014, reaching 158,551. Over 25,000 new members were attracted in 2015, including 4,000 from the Member-Get-A-Member program. The year-end retention rate was a solid 84.3%, achieving target performance and exceeding the 2014 rate. M&SA also exceeded its target for international members, ending the year with 27,698—10.5% more than last year. Marketing costs to recruit new members also came in within the targeted range.
- **Boosting Industrial Member Value.** ACS increased its resources and sharpened its focus on retaining and attracting industry members in 2015, including new content, events and outreach efforts to both industrial scientists and their employers. This included enhanced content and marketing through an improved website, *Industry Insights* newsletter, and *Industry Voices* blog. In addition, the Division of Membership & Scientific Advancement launched new networking events for industry members at national meetings, which attracted more than 130 attendees at each meeting.

- **ACS Chief Technology Officer (CTO) Summit.** MS&A and the ACS Office of Public Affairs (OPA) organized a gathering of CTOs from 17 leading chemical companies in Washington, D.C. on September 23-24. Key external stakeholders from government, trade associations, and scientific and technical organizations attended the opening reception and interact with the CTOs. The Summit program also included:
 - Presentations at the reception and the following day from senior federal officials from the U.S. Government Accountability Office, U.S. Department of Energy, White House Office of Science and Technology Policy, and the U.S. Environmental Protection Agency.
 - Two CTO panels -- one centered on “Is the U.S. the Most Inviting Place for Chemistry R&D,” and the second on “How to Effectively Engage Scientists in Policy-Making.”
- **Multimedia Educational Webinars.** ACS Webinars produced 42 weekly webinars for members and prospective members in 2015 and launched the Drug Discovery series in partnership with the American Association of Pharmaceutical Scientists. The live broadcasts drew more than 29,000 participant sites combined—with an estimated 10% of sites having multiple individual participants.
- **Helping Chemical Practitioners Thrive in the Workplace.** The ACS Career Navigator achieved more than 8,600 substantial interactions with ACS members and potential members worldwide to meet their professional needs, exceeding its 8,000 goal. This included over 1,400 learners in professional education and leadership development courses, 1,750 personalized career consulting sessions, 2,000 career workshop attendees, and 3,400 job seekers at the career fairs. M&SA also increased professional education revenue for the first time since 2011, and organized the best-attended career fair (Boston) since 2010. Additionally, M&SA launched a new ACS Career Navigator certificate program in polymer chemistry.
- **Growth Via Enterprise Offerings.** M&SA worked with ACS Publications and CAS to advance an enterprise membership model to combine membership with relevant ACS services for new and existing institutional clients. The initial enterprise effort was focused on target ACS markets abroad: China, India and Brazil. More than 3,100 new members were secured as a result of efforts to reward highly engaged authors, convert ACS Author Rewards recipients to members, and offer suites of services to new and existing institutional customers/prospects. India was one focal area for global physical presence and engagement efforts in 2015, with notable success. M&SA worked effectively with an in-country partner to advance a range of membership and engagement activities in India—including member recruitment, customer service, telemarketing, meetings/event support, social media, and a new system for online dues payments in rupees. As a result, membership in India grew by more than 800 members.
- **Boosting Industrial Member Value.** M&SA increased its resources and sharpened its focus on retaining and attracting industry members in 2015, including new content, events and outreach efforts to both industrial scientists and their employers. This included enhanced content and marketing through an improved website, *Industry Insights* newsletter, and *Industry Voices* blog; high-level corporate visits with large employers of ACS members; a special summit involving 17 chief technology officers, and work across ACS units to better understand and deliver relevant ACS products and services to priority industry segments. M&SA also launched new networking events for industry members at national meetings, which attracted more than 130 attendees at each meeting.
- **Engagement through International Chapters.** Recognizing that International Chemical Science Chapters offer a strategic resource supporting scientific networks and collaborations worldwide, M&SA made a concerted effort to create new and strengthen existing chapters in 2015. Following the approval of new international chapters in South Korea, Malaysia, and South Africa in 2014, the ACS Board in 2015 approved new chapters in Australia, Brazil, India, Nigeria, Peru, Taiwan, and the United Arab Emirates—bringing the total number of international chapters to 16. M&SA also worked closely with the Education Division to support the establishment of International Student Chapters where International Chapters exist, to leverage the activities and guidance of International Chapters.

- **ChemIDP.** The Education Division launched ChemIDP, a new online Individual Development Plan tool designed specifically for graduate students, launched on September 30. Four key parts make up the ChemIDP platform: self-assessment, skill strengthening, career exploration, and goal setting. Over 125 interviews with graduate students, postdoctoral scholars, faculty, university administrators, ACS staff, and career consultants informed the development of ChemIDP. ChemIDP is the result of a collaborative effort between IT and the Education Division.

GOAL 3—*Improve Education* – Foster the development of the most innovative, relevant, and effective chemistry education in the world.

- **American Association of Chemistry Teachers (AACT).** Membership in the American Association of Chemistry Teachers (AACT) continues to grow. AACT ended the year with more than 3,000 members, 88 percent of whom are K-12 teachers. In 2015, AACT received \$100,000 in grants from the Camille & Henry Dreyfus and Ford Foundations to support the development of online resources. The inaugural Dow AACT teacher summit was held in Michigan in July. Twenty-one teachers and six pre-service teachers attended.
- **ACS International Student Chapters Continue to Expand.** The number of ACS International Student Chapters grew to 24 in 2015. Chapters have been established in Brazil, China (2), Colombia, Egypt, Georgia, Germany, Hungary, India (4), Italy, Jamaica, Malaysia, Mexico (2), Nigeria (3), Qatar, Saudi Arabia, Singapore, and the United Arab Emirates.
- **Record Number of ACS Science Coaches Partnerships Established in 2015.** The ACS Science Coaches program was reauthorized by the ACS Board of Directors in August. More than 250 coach-teacher partnerships are being supported during the 2015-2016 school year.
- **The Office of Research Grants (ORG) Provides Significant Support to Research and Education in 2015.** ORG had a successful year, with the Petroleum Research Fund (PRF) awarding 187 grants worth \$18.62 million. Teva Pharmaceuticals renewed its agreement with ACS, and the 2015 recipients of the *Teva Pharmaceuticals Marc A. Goshko Memorial Grants* were announced at the end of the Teva symposium at the National Meeting in Boston.

GOAL 4—*Communicate Chemistry's Value* – Communicate chemistry's vital role in addressing the world's challenges to the public and policymakers.

- **Improving Public Awareness of Chemistry.** Out of the 185 ACS local sections, 169 (91%) participated in National Chemistry Week activities in 2015. More than 140,000 copies of *Celebrating Chemistry* were distributed, as well as 15,000 copies in Spanish. A total of 103 entries from 42 local sections were received for the NCW 2015 Illustrated Poem Contest. Winners were posted on www.acs.org/new. 23 local sections also submitted photos for *C&EN* related to their National Chemistry Week.
- **Expanding Social Media Presence.** The ACS social media presence experienced notable growth in 2015, enabled by continued improvement at streamlining the Society-wide social media voice and synchronization of efforts. New social management software was implemented for cross-divisional use to better coordinate accounts, analytics, and monitoring of mentions of ACS programs and services. The ACS Facebook page reached 50,000 followers. Social media activity at national meetings continues to grow, especially on Twitter. An ACS Facebook post sharing a *C&EN* article on the Nobel Prize in Medicine/Physiology reached more than 300,000 people in 48 hours.
- **Landmarks Program Celebrates Chemists and Chemistry, Reaches Thousands.** The National Historic Chemical Landmark program designated four new Landmarks and established an additional site for the "Thomas Edison, Chemist" 2014 Landmark. Activities organized around dedications included six designation ceremonies, three symposia, and two public museum programs. The program's website exceeded 550,000 visits and 400,000 unique visitors (a 40% increase over 2014 and the highest ever recorded), placing it among the top most visited ACS website sections.

- **ACS Staff “Pitched” Chemistry Research/News Reached the Public in Record Numbers.** In 2015, data from BurrellesLuce indicates that the Office of Public Affairs’ (OPA) efforts to publicize ACS products (including journal articles, national meetings and videos) resulted in more than 49,000 articles in print and online news media outlets -- with a potential print audience of 362 million people and on websites with a total of 22.1 billion potential unique visits. OPA successfully publicized both ACS national meetings in 2015, with the effort for the 249th meeting in Denver reaching an estimated 3.5 billion people, and the effort for the 250th meeting in Boston reaching an estimated 3.9 billion people. OPA videos and podcasts received more than 15.6 million downloads in 2015.

SUPPORT FOR ACS GOVERNANCE OPERATIONS AND FINANCIAL SUSTAINABILITY

- **ACS Maintains a Robust and Evolving Strategic Plan.** The *ACS Strategic Plan for 2016 and Beyond* was approved by the Board and will launch on the web (at <http://strategy.acs.org>) in January. It provides the basis for all of the Society’s work in support of the Vision, Mission, and Core Values. The four Goals, slightly unchanged from recent years, are each supported by a new set of objectives representing the most important priorities for the ACS to pursue. The strategic plan is the result of broad engagement with governance and staff members, consolidated by the Planning Committee, and approved by the Board of Directors.
- **ACS Advances Legislative Priorities on Capitol Hill.** Despite continued political battles that often choked out meaningful dialogue on important legislation, ACS (governance, staff and members) managed to advance several ACS top priorities in legislation that was passed by Congress:
 - The Every Student Succeeds Act - with science testing and strengthened Math & Science Partnership program
 - The Frank Lautenberg Chemical Safety for the 21st Century Act – with sustainable chemistry provisions
 - The Research and Development Tax credit - renewed and made permanentIn addition to the above, ACS was instrumental in securing three major modifications of S. 773, the Fair Access to Science and Technology Research (FASTR) Act - 12 month embargo; petition process to chance the embargo period and flexibility for federal agencies in setting up public access repositories. In addition, ACS also helped create the Congressional Chemistry Caucus and secured a Senate resolution and a letter from President Obama honoring National Chemistry Week.
- **The 3rd Annual ACS Entrepreneurial Summit.** The Summit was hosted by ACS on September 17-18, 2015 in Washington, D.C. Nearly 200 attendees consisting of entrepreneurs, investors, academics, regulators, industry representatives, and service providers met to hear from industry representatives about their innovation interests, as well as discuss the challenges, opportunities, and trends in commercializing chemistry-based technologies. The Summit had nearly a three-fold increase in attendees from last year’s Summit; more than 10 industry speakers from world-renown commercial innovators presented; and earned a satisfaction rating of 90% or more from attendees responding to an evaluation survey.
- **The Development Office Exceeded 2015 Fundraising Goal.** New gifts and pledges totaled \$4.3 million, including the third pledge of \$900,000 from Teva Pharmaceuticals to support the Teva Scholars Program. The total exceeds the ACS Board’s 2015 fundraising goal of \$3.25 million.
- **ACS Scholars Program.** New gifts and pledges of \$1.4 million surpassed the 20th Anniversary Appeal Goal of \$1.0 million. Notable contributions included \$357,000 from Procter & Gamble to bring the company’s cumulative gifts to \$1.0 million, and new gifts of \$100,000 or more from Genentech, Gilead, Merck and Pfizer. The growth achieved in the ACS Scholars Program Endowment during 2015 includes \$1.1 million of deferred gifts. ACS Scholars met the Endowment Founders at an inaugural event in November to introduce major donors to their named scholarship recipients.

- **Successfully Implemented Society Program Portfolio Management (SPPM).** The Society Program Portfolio Management process is a joint initiative shared by ACS governance and staff. The purpose of SPPM is to ensure that programs launched in support of the Society's strategic goals are achieving desired outcomes and providing value to ACS members and the communities the Society serves. The design of SPPM provides a rigorous, transparent, and efficient way of strategically adding new programs, routinely reviewing and updating existing programs, comparing the relative value of programs, and ultimately, determining an optimal rebalancing of resources within the Society Program portfolio. The new process was fully implemented in 2015 and should ensure a more optimal allocation of ACS human and financial resources among programs that fulfill the ACS vision of "*Improving people's lives through the transforming power of chemistry*".
- **Member Insurance Program Introduced Chemical Educator's Liability Insurance Coverage.** In 2015, the ACS Member Insurance Program implemented a new plan, Chemical Educator's Liability Insurance, aimed at the needs of members employed in academia. The Plan is underwritten by ARK, a Lloyd's of London underwriter, and provides four categories of coverage depending on the level of instruction and/or research activity and the extent of chemical exposure involved.

Closing Thoughts

The end of 2015 was marked by tragic laboratory accidents in both a high school and a leading global university. While ACS has always played a prominent role on matters related to chemical lab safety, I have challenged our staff to explore additional steps that ACS can take, in order to effect durable improvements in chemical laboratory safety, in all settings, worldwide. I look forward to communicating developments on this front, in the course of 2016.

Before we head out to the San Diego ACS National Meeting, I wanted to let you know that we are expecting approximately 14,000 attendees. Twenty-nine ACS technical divisions and five committees will sponsor symposia supporting the theme "Computers in Chemistry." More than 12,000 papers and nearly 5,000 posters will be presented. Dr. Emily Carter will present The Fred Kavli Innovations in Chemistry Lecture and the Kavli Foundation Emerging Leader in Chemistry Lecture will be given by Dr. Rommie Amaro. Both lectures will be held on Monday, March 14, 2016.

On a personal note, I would like to express my thanks to the Councilors, Board of Directors, other governance leaders, membership, and staff for their support and assistance during my first year as Executive Director & CEO. Your warm welcome has made the past year highly enjoyable and productive for me.

Thomas M. Connelly, Jr.

REPORT OF THE GOVERNING BOARD FOR PUBLISHING TO ACS COUNCIL

The following is a brief summary of the July and November 2015 meetings of the Governing Board for Publishing.

CAS (Chemical Abstracts Service)

CAS management reported on CAS progress in 2015 on specific objectives and financial performance. The Division will end 2015 by meeting its mission-related objectives as well as its financial contribution to ACS. Financial performance is tracking slightly ahead of Plan with underlying revenue growth continuing to accelerate. Cost savings continue to provide fuel for self-funding growth as well as cover the negative foreign exchange rate impacts. The new product launches are meeting expectations while the product pipeline continues to grow. The initial builds of SciFinder 2016 are complete. CAS management is preparing an overall CAS IP Plan that will address New STN's future. The Business Continuity/Disaster Recovery Planning is now complete, and decisions concerning the timing and scope of the project will depend on scaled multi-year investment. Finally, Mr. Guzman reviewed CAS's workforce and culture as it continues to evolve, creating constructive opportunities as well as some unavoidable challenges.

ACS Publications

ACS Publications Division management reported on the Division's operational highlights and financial performance. The Publications Division will end 2015 by meeting both its mission-related objectives and financial targets. The Division has made good progress against objectives tied to new product development within ACS Journals and *C&EN*, the Unified Architecture Initiative with CAS, and pursuit of the ACS Publications Division Open Access strategy. Three new journals began publication in early 2016: *ACS Infectious Diseases*, *ACS Biomaterials Science and Engineering*, and *ACS Central Science*, the latter a solely Open Access journal. The Division is experiencing sustained growth in manuscript submissions, steady published article output, increased web usage, and strong institutional subscription revenues across the Society's journals portfolio. ACS Publications has featured the core elements of the "ACS is Open" strategy via its marketing messaging as part of promotional outreach that is being sustained throughout 2015, so as to position the Society as an open access publisher. The Division continues to promote the 2015 introduction of *ACS2Go*, a new mobile delivery capability that enables users robust full text access to the ACS Publications suite of journals on smartphones and tablets (see <http://pubs.acs.org/page/acs2go>).

Dr. Thomas Connelly, Jr., Chair

DRAFT
MINUTES
COUNCIL POLICY COMMITTEE
AMERICAN CHEMICAL SOCIETY
Boston, Massachusetts
August 18, 2015

The Council Policy Committee (CPC) of the American Chemical Society met in Boston, Massachusetts, on August 18, 2015, beginning at 8:00 a.m. Chair Diane Grob Schmidt presided. Other voting members present were: Harmon B. Abrahamson, Lawrence Barton, Tom J. Barton, Frank D. Blum, Mary K. Carroll, Thomas M. Connelly, Alan M. Ehrlich, Lynne P. Greenblatt, Lee H. Latimer, Donna J. Nelson, Andrea Twiss-Brooks, and Linette M. Watkins. Flint H. Lewis served as Secretary.

The following chairs of Society, Elected, and Standing Committees of the Council, all non-voting members of CPC, attended all or portions of the meeting: James C. Carver, D. Richard Cobb, Wayne E. Jones, Diane Krone, James M. Landis, Will E. Lynch, Michael J. Morello, Kristen M. Omberg, and Martin D. Rudd. Several Councilors, ACS staff, and others were present as observers at various times during the meeting.

Approval of Minutes

1. VOTED that the Council Policy Committee approve the minutes of the March 24, 2015, meeting of the committee, as amended to substitute “member of the Society” for “Councilor or Alternate Councilor” in the minutes of the report of the Subcommittee on Petitions, Constitution and Bylaws.

Reports of Committee Chairs and Society Officers

The Council Policy Committee divided into four subgroups for the purpose of reviewing the proposed oral reports to Council of officers and committee chairs. The subgroups met from 8:15 to 9:15 a.m.; Diane Grob Schmidt, Tom Barton, Lawrence Barton (for Donna Nelson), and Alan M. Ehrlich served as chairs of the subgroups.

Upon reconvening at 9:30 a.m., the committee received reports from the chairs of the subgroups, with the reports emphasizing items for which Council action would be required on August 19. In the subgroups, reports were presented by the officers and by the chairs of the Elected Committees on Committees and on Nominations and Elections; the Society Committees on Budget and Finance and on Education; the Standing Committees on Constitution and Bylaws, Divisional Activities, Economic and Professional Affairs, Local Section Activities, Meetings and Expositions, and Membership Affairs; and the Joint Board-Council Committees on Chemical Safety, Chemists with Disabilities, Community Activities, International Activities, Minority Affairs, Patents and Related Matters, Public Relations and Communications, Science, Senior Chemists, and Younger Chemists; and the Council Other Committees on Ethics, Project SEED, and on Technician Affairs; including reports on progress and recommendations resulting from their work during their sessions held in Boston, Massachusetts, prior to the CPC meeting. By individual actions, CPC concurred in certain recommendations to be made to Council by the committees. These appear below and, as appropriate, in the record of the August 19 Council meeting. All references in these minutes to actions and reports relate to the August 19, 2015 meeting of the Council unless otherwise noted.

2. VOTED that the Council Policy Committee authorizes the use of projected graphics as part of the reports to Council by the Committees on Budget and Finance, Chemists with Disabilities, Committees, Community Activities, Constitution and Bylaws, Divisional Activities, Economic and Professional Affairs, Ethics, International Activities, Local Section Activities, Meetings and Expositions, Minority Affairs, Nominations and Elections, and Public Relations and Communications.

3. VOTED that the Council Policy Committee authorizes the use of projected graphics as part of the reports to Council by the President and the President-Elect.
4. VOTED that the Council Policy Committee authorizes additional time for the report to Council by the Committee on Community Activities.
5. VOTED that the Council Policy Committee authorizes the Committee on Community Activities, and on request of the Chair of the ACS Board of Directors, authorizes the Board of Trustees, Group Insurance Plans for ACS Members, to place brochures on the seats at the Council meeting.
6. VOTED that the Council Policy Committee concurs with the Committee on Membership Affairs' recommendation to Council that it approve the Procedure for the Expulsion of a Member and the Petition on Member Expulsion.
7. VOTED that the Council Policy Committee concurs with the Committee on Nominations and Elections recommendation to Council that it approve the Balloting and Preferential Voting Procedures for Elections of President-Elect, District Directors, and Directors-at-Large and the Petition on Preferential Voting.
8. VOTED that the Council Policy Committee concurs with the Committee on International Activities' recommendation that Council approve the petitions to charter, subject to Board of Directors confirmation, new International Chemical Sciences Chapters in the United Arab Emirates, Peru, Nigeria, Brazil, and Australia.

Report of the Council Policy Committee Vice-Chair

Vice-Chair Alan Ehrlich reported that CPC remained very active between meetings through its subcommittees and task forces. For example, the Subcommittee on Long Range Planning has begun reviewing the way in which Local Sections and Divisions are currently represented on Council. It has reviewed historical data to determine if the size of Council has increased relative to the size of the ACS membership. It is now looking at other issues that affect the divisor formula, such as the 80/20 rule. The Board Committee on Planning is collaborating with CPC's Subcommittee on Long Range Planning to review the content and delivery model for Strategy Cafés. The Guidelines for Special Discussion Items at Council Meetings were approved by CPC at the spring meeting in Denver and can be found at www.acs.org/councilors. Finally, there are two Petitions, and related procedures, up for action before Council and the CPC Subcommittee on Petitions, Constitution and Bylaws will report further on them.

Reports of Subcommittees and Task Forces

A. Report of the Subcommittee on Petitions, Constitution and Bylaws

Subcommittee chair Harmon B. Abrahamson combined the reports of this subcommittee with that of the CPC Task Force on Councilor and Member Duties. He reported that the Committee on Economic and Professional Affairs (CEPA) proposed a motion to amend the Petition on Member Expulsion to mention the Chemical Professional's Code of Conduct. The Subcommittee on Petitions, Constitution and Bylaws recommended a different approach: rather than adding specific document names to the Bylaws, the amendment should be appended to the procedures document. CPC then discussed the proposed amendment, as well as the rationale for streamlining ACS Bylaws by removing detailed instructions from them and putting them into procedures documents.

B. Report of the Subcommittee on Long-Range Planning

Lawrence Barton gave the subcommittee report on behalf of chair Carolyn Ribes and reported on the following actions by the subcommittee: As reported by the CPC Vice-Chair, it has begun reviewing the way Local Sections and Divisions are represented on Council, and has gathered historical data on the selection of previous

divisors and their impact on Council size. The subcommittee found that the size of Council and ACS membership have been consistent over the years reviewed. He presented a draft charter for the Council representation review and President Diane Grob Schmidt asked that comments and feedback on it from CPC members be sent to her at President@acs.org. Numerous Strategy Cafés have been held as a result of partnerships between the subcommittee, the Board, and other ACS entities. The Board Committee on Planning has established a working group consisting of Planning Committee and CPC members to review how to optimize these cafés. He reported that the mentorship program for new Councilors and Alternate Councilors was continued this year and those who requested mentorship were assigned mentors. This year, 34 Councilors were assigned mentors. The subcommittee sees value in this program and plans to continue it into 2016.

C. Task Force on Divisor Communications

Lee Latimer, the task force chair, reported that a few ACS units that were scheduled for a decrease in Councilor representation as a result of the recent Councilor divisor had communicated concerns, and wanted more information on the official ACS membership count for their units as of December 31, 2014. This date was the most recent cut-off date for comparing membership counts against the Councilor Divisor. After reviewing these concerns, the task force adjusted the Councilor count and allowed one division to retain, rather than lose, one of its Councilors. After discussion, CPC concurred with the task force's determination.

Summary of Councilor Travel Expenses

Dr. Schmidt called attention to the Councilor Travel Reimbursement Program summary for the spring 2015 national meeting, which was in the committee agenda.

Summary of Non-Councilor Travel Expenses

Dr. Schmidt reported that the summary of travel expenses reimbursed for Non-Councilors was available in the agenda for the committee's information.

Schedule of Business Sessions

The following schedule of activities at the spring 2016 National Meeting is the result of previous authorization by the Council Policy Committee:

Board of Directors:	Sunday, March 13
Council Policy Committee:	Tuesday, March 15
Council:	Wednesday, March 16

Society Committees: executive and open sessions to be set by each body, provided that at least one executive session be set prior to the Board of Directors meeting, and at least one open session be set prior to the Council meeting if the committee agenda contains any issue to be voted upon at the Council meeting.

Standing Committees of the Council: executive and open sessions to be set by each committee, with the concurrence of the Committee on Committees, provided that at least one executive session be set no later than Tuesday morning, and at least one open session be set prior to the Council meeting if the committee agenda contains any issue to be voted upon at the Council meeting.

Council Agenda

9. VOTED that the Council Policy Committee approve the Council Agenda for the August 19, 2015 meeting of the Council.

CPC and Council 2015 Budgets

ACS Secretary Flint Lewis reported on the CPC and Council budgets and explained the various categories of their expenditures.

There being no old or new business, and no comments during the Open Forum, the meeting was adjourned at 11:30 a.m.

Flint H. Lewis
Secretary

REPORT OF THE COMMITTEE ON COMMITTEES

The Committee on Committees (ConC) submitted its final recommendations for 2016 Committee Chairs, members, associates, and consultant appointments for consideration by the President-Elect and the Chair of the Board of Directors. The committee appointment letters were sent by year-end.

The ConC Leadership Development Subcommittee conducted its annual training session for new Committee Chairs and their staff liaisons in Dallas, Texas, in late January 2016, as a component of the ACS Leadership Institute. Eleven new Chairs, with their staff liaisons, attended. This training continues to receive favorable reviews from participants.

Councilors and other interested parties are invited to attend the committee's open meeting on Monday, March 14, from 1:30-2:00 p.m. to offer their views on any topics on the agenda, and other matters of interest. There will also be an interactive session for the Chairs of all Council-related committee chairs on Monday from 2:00-2:45 p.m.

In closed executive session, ConC will receive reports and consider recommendations from its subcommittees and task forces on leadership development, diversity, committee performance review process, and Society committee bylaws. ConC will receive updates on 5-year performance reviews for the committees on Analytical Reagents, Chemical Abstracts Service, Chemists with Disabilities, Community Activities, Environmental Improvement, Project SEED, Professional Training, Publications, Public Relations and Communications, Women Chemists, and Younger Chemists. The committee will also develop recommendations for the 2017 Committee Chairs for the Society, Standing, Joint Board-Council and Other Committees of Council.

The committee is collaborating with CPC on the New Councilor Orientation on Saturday, March 12, from 3:30-7:00 p.m.

All Councilors are reminded to complete their online committee preference form for 2017, during the period of March 28-June 10 2016 at <https://www.yellowbook.acs.org/>. Please remember that those finishing a term or who will reach the statutory limit on a committee are strongly encouraged to complete the online form to reaffirm their interest and commitment to service in the Society. You can also use this system to update your Yellow Book contact and biographical information throughout the year.

Wayne E. Jones, Jr., Chair

Mr. Flint H. Lewis
Secretary, American Chemical Society
1155 Sixteenth Street, NW
Washington, DC 20036

Dear Mr. Lewis:

I propose the following MEMBERS for consideration by the Committee on Committees for service on the following committees for 2017:

Standing Committees (Appointed by the President)

Constitution and Bylaws (C&B) _____

Divisional Activities (DAC) _____

Economic and Professional Affairs (CEPA) _____

Local Section Activities (LSAC) _____

Meetings and Expositions (M&E) _____

Membership Affairs (MAC) _____

Other Committees (Appointed by the President)

Analytical Reagents (CAR) _____

Ethics (ETHX) _____

Nomenclature, Terminology and Symbols (NTS) _____

Project SEED (SEED) _____

Technician Affairs (CTA) _____

Society Committees (Appointed by the President and Board Chair)

Budget and Finance (B&F) _____

Education (SOCED) _____

Joint Board-Council (Appointed by the President and Board Chair)

Chemical Abstracts Service (CCAS) _____

Chemical Safety (CCS) _____

Chemistry and Public Affairs (CCPA) _____

Chemists with Disabilities (CWD) _____

Community Activities (CCA) _____

Environmental Improvement (CEI) _____

International Activities (IAC) _____

Minority Affairs (CMA) _____

Patents and Related Matters (CP&RM) _____

Professional Training (CPT) _____

Publications (PUBS) _____

Public Relations and Communications (CPRC) _____

Science (ComSci) _____

Senior Chemists (SCC) _____

Women Chemists (WCC) _____

Younger Chemists (YCC) _____

Sincerely,

(Senders Name/Email)

(Senders Affiliation)

REPORT OF THE COMMITTEE ON NOMINATIONS AND ELECTIONS

At its fall meeting in Boston, the Committee on Nominations and Elections (N&E) developed slates of potential candidates for President-Elect, 2017; Directors-at-Large, 2017-2019; and Directors from Districts II and IV, 2017-2019.

A "President-Elect Nominee Town Hall Meeting" will be held in San Diego on Sunday, March 13, from 4:30 p.m. – 5:30 p.m. This well-attended forum is designed to facilitate interaction among the 2017 President-Elect nominees, Councilors and other members using a moderated question and answer format.

While N&E has proposed and Council has approved a variety of changes to the election process in recent years, including the recent successful Bylaw petition on preferential balloting, the general process has been the same for decades. The committee believes that a more comprehensive and holistic look at the entire ACS national election process is needed to prepare ACS for the future. To this end, N&E has established a "VOTE 2020" task force, consisting of a member of the Board of Directors, a past candidate for national office, and representatives from CPC, C&B, DAC, LSAC, MAC, IAC and others. More information will be forthcoming after the San Diego meeting.

In executive session at this meeting, N&E will develop slates of potential candidates for the Council Policy Committee and the Committee on Committees for 2017-2019. As in the past, N&E welcomes suggestions from Councilors of qualified members as potential candidates for all elected ACS offices - please let us hear from you.

We will have a staffed N&E table at the rear of the Council meeting room, as well as an open meeting on Monday, March 14, from 11:30 a.m. - 12:00 noon, to receive your suggestions or hear your concerns. As an alternative means of communication with N&E, please visit the ACS Web Site at <http://www.acs.org/>; under "Governance" click on "Committees" and then select "Nominations & Elections" or send an email to us at nomelect@acs.org.

D. Richard Cobb, Chair

REPORT OF THE COMMITTEE ON BUDGET AND FINANCE

The Society Committee on Budget and Finance (B&F) met on Saturday, December 5, 2015, to review the Society's probable financial results for 2015 and to consider the 2016 Proposed Operating and Capital Budgets.

The Society is projected to end 2015 with a net contribution from operations of \$16.8 million, or \$3.4 million favorable to the 2015 Approved Budget. After including the Member Insurance Program, the Society's projected net contribution for 2015 is \$13.9 million or \$1.4 million favorable to the Approved Budget.

The committee voted to recommend to the ACS Board of Directors that it approve the 2016 Proposed Operating Budget with a projected net contribution from operations of \$13,358,000. The committee also voted to recommend to the ACS Board that it approve the 2016 Proposed Capital Budget of \$40,280,000.

Kristen M. Omberg, Chair

REPORT OF THE COMMITTEE ON EDUCATION

This report updates the Council on SOCED's progress in implementing the actions to which it agreed in Boston, and highlights significant accomplishments of the Society's education programs.

SOCED continues to explore issues in chemistry education through the work of task forces on distance learning, hands-on laboratory experiments, general chemistry learning outcomes, and international education. A new task force is revising the *ACS Guidelines and Recommendations for the Teaching of High School Chemistry*.

The *ACS Guidelines for Chemistry in Two-Year College Programs*, approved by SOCED in Boston, were released in November. Significant revisions include incorporating recommendations regarding chemistry-based technology programs, chemical safety, online courses, internships, transfer students, mentorship and advising, and partnerships.

The American Association of Chemistry Teachers (AACT) ended 2015 with 3,037 members, 88 percent of whom are K-12 teachers. In 2016, AACT will hold its first "conference" as part of the Biennial Conference on Chemical Education at the University of Northern Colorado, July 31-August 4.

The beta version of ChemIDP, an individual development plan web tool for graduate students and postdoctoral scholars preparing to enter the workforce, was launched on September 30 at ChemIDP.org. Four key parts make up the ChemIDP platform: self-assessment, skill strengthening, career exploration, and goal setting. The use of IDPs by graduate students was recommended by the ACS Presidential Commission on Graduate Education in the Chemical Sciences.

The goal of 250 Science Coaches partnerships for the 2015-2016 school year was met two weeks before the deadline. The number of applicants exceeded the number of available slots, which reflects the continuing interest of chemists in working one-on-one with K-12 teachers.

The number of ACS International Student Chapters continues to expand, with a total of 25 international chapters currently chartered.

ACS ChemClubs celebrated its 10th anniversary with a "Party-in-a-Box" event on November 16. Over 70 ChemClubs joined the online celebration "Hacking Your Taste Buds", featuring videos and live demonstrations.

Diane Krone, Chair

REPORT OF THE COMMITTEE ON SCIENCE

The Committee on Science, ComSci, remains focused on increasing understanding of emerging frontiers in science, developing public policies to advance science in society, and recommending outstanding chemical scientists for prestigious external awards.

Following work on a revised ACS energy policy statement at the fall national meeting in Boston, ComSci worked with other ACS committees in October and November to update the recent ACS policy statement on hydraulic fracturing. This revised statement was approved by the ACS Board in December. The Committee is also working to facilitate a writing team to update the ACS policy statement on forensic science, which will involve several other committees, divisions and outside experts. We expect to have a draft statement before June.

Regarding emerging science frontiers, our emphasis continues to be on advanced materials; and in particular how to accelerate innovation through cross-sector R&D collaboration. Our first symposium on this topic focused on advanced materials for solar energy. The second forum in Boston featured a roundtable discussion with leaders of divisions, journals, and outside experts on moving advanced materials from discovery to application. This innovative and productive forum illuminated challenges and barriers to partnerships among industry, academia and government as well as key suggestions that ComSci is currently working to pursue. Our third forum at the San Diego national meeting will focus on computational design of advanced materials and will also feature speakers from all three sectors.

With respect to awards, the ACS Board approved in December ComSci recommendations for both the Presidential National Medal of Science—the nation’s highest honor for a scientist—as well as the prestigious 2016 French Grand Prix Award. Both of these ACS nominations will be submitted by April.

Mark C. Cesa, 2016 Chair
Katherine C. Glasgow, 2015 Chair

Special Discussion
Gathering Your Input on Seven Questions:
ACS Presidential Task Force on the U.S. Employment of Chemists
Donna J. Nelson, Ph.D., President
March 16, 2016

I request your input on seven questions, which are detailed below and which are critical to progress on employment in the chemical sciences. Please come to the March 16 Council Meeting prepared to discuss and to pose questions on the questions listed below.

While running for president-elect, I emailed all ACS members, asking them to identify problems they wanted addressed. More than 1,600 members contacted me, and most identified employment in the chemical sciences—and, more specifically, a lack of jobs—as the greatest current problem for our community. Many believe that unemployment is most challenging for new chemistry graduates, and ACS's annual surveys confirm this perspective. Although ACS can't directly create new jobs, we can identify, study, and address factors that stifle employment.

I assembled a task force on employment in the chemical sciences last year. It includes representatives from ACS committees that have studied different aspects of this challenge for years. Past and future ACS leaders are also participating. The task force hears a wide range of guest speakers, receives input from additional ACS members via e-mail, and will have guidance from a community of ACS presidents and other members who are knowledgeable about and committed to improving this situation.

Being qualified for a job in chemistry, and yet being without a job, can be a dire and disappointing situation. Therefore, I asked the jobs task force to focus on implementing solutions *rapidly*—not merely studying, analyzing, and identifying solutions. Looking for low-hanging fruit, this task force examined final reports from earlier task forces. Those reports suggested some ways by which unemployed chemists could mitigate the problem, such as applying for jobs in some chemistry-related scientific areas that had excess openings. However, these areas change somewhat quickly, so it is not practical to develop educational programs for them. Therefore, a solution is to caution future young chemists that they must build flexibility into their study programs, their employment area expectations, and their job search techniques. We will continue to search for solutions to implement swiftly, as we go along, rather than hold them for a report.

Sometimes our communities feel that they must compete against each other for jobs in chemical sciences. For example, one community comprises members who were born abroad but work in the U.S. Some U.S.-born members are concerned about the impact of these immigrant chemists on an already weak domestic job market.

However, analyzing this must consider that our country needs immigrants. The U.S. birthrate is insufficient to sustain our population without immigration. Otherwise, insufficient workers would have to support an increasingly aged (retired) population and the overall economy—too many retirees being supported by contributions from too few workers. Therefore, we need immigration to help our country thrive, to support an aging populace, and to help maintain our standard of living. Overall, we have been fortunate that so many people continue to want to come to the U.S., and that we can continue to attract and select the smartest and the strongest of them to join us. Not all countries have this benefit. This is one of many considerations to include among the complex effects that impact employment in our communities.

The task force will examine and consider all known influences that can impact employment in the chemical sciences. One goal is to hear opinions from everyone. We know that mergers and outsourcing have decreased the number of jobs for chemists. In addition, a decline in government funding has adversely impacted the nation's innovation infrastructure that traditionally served as a source of job creation and revenue growth.

I have charged the Task Force to find answers to the questions below.

- What are the factors, which determine the balance between supply and demand?
- What is the employment situation for technicians?
- What are the benefits and handicaps of possible certification, licensing and registration of chemical professionals?
- Do we prepare our graduates for the jobs offered by industry?
- What are the opportunities to help young graduates and mid-career chemical professionals find employment?
- Are minorities adequately represented in the chemical work force? What is needed to get them in the pipeline, if they are not?
- What are the global factors influencing the employment situation for chemical professionals in the United States? Specifically, what has been the effect of outsourcing and immigration?

The Task Force is still gathering information, and seeks your input. Please come to Council prepared to offer your perspective on these questions.

REPORT OF THE COMMITTEE ON LOCAL SECTION ACTIVITIES

The Committee on Local Section Activities hosted the local section track of the ACS Leadership Institute on January 22-24 in Dallas, TX. All incoming chairs-elect, as well as other interested local section officers were invited to attend this important training. A total of 144 delegates, representing 109 local sections participated in the Institute. Nineteen sections sent more than one representative and one section sent three representatives. Local Sections are encouraged to prepare to send at least one representative to the 2017 Institute. LSAC, once again, offered a special workshop: “Getting Your Section Back on Track” to support those leaders who need assistance with re-invigorating their section. In addition, LSAC will be offering collaborative project mini-grants to support joint local section projects that were developed during the Leadership Institute.

LSAC launched its new procedure for the annexation of an unassigned territory by multiple sections. Local sections interested in acquiring unassigned territories to ensure that all ACS members have a local section home are encouraged to contact LSAC for more information.

LSAC is pleased to report the following progress since the Boston national meeting:

- LSAC hosted the following webinars—
 - Communicating with the Public About ACS Local Section Events
 - Local Section Pre-Leadership Institute Webinar

The transcripts of these webinars can be found at www.acs.org/getinvolved (Click on Local Sections and then Training and Support).

- All 2015 local section chairs received a Past Chair pin and a letter from the committee recognizing their efforts as chair.
- Local Section allotments are being processed on a weekly basis (starting March 1st) as Annual Reports are submitted.
- ACS Leadership Development System courses were hosted by six local sections to provide their members with skills that can be used in both their volunteer and professional roles. LSAC provided the funding for these courses.
- The “Local Section Innovative Projects Grant Program” (IPG), now in its 13th year, continues in 2016. Local Sections are encouraged to submit proposals for the June 30th deadline. Program information and grant applications are available at www.acs.org/getinvolved (click on Local Section Volunteer Resources and then Funding and Financials).
- LSAC posted a summary of the 2014 Local Section Annual Reports at www.acs.org/getinvolved (click on Local Sections and then Annual Report Information).

Martin Rudd, Chair

REPORT OF THE COMMITTEE ON MEMBERSHIP AFFAIRS

The Society continues to attract large numbers of new members, nearly 23,000 in 2015. As of December 21, 2015, the ACS membership stood at 158,586, which is almost a 1% increase from the prior year. Understanding that the U.S. chemical enterprise is still suffering the effects of mergers and acquisitions and our members and other colleagues face a slowly improving job market and global economic challenges, we are very grateful to be able to report that the current overall membership retention rate for 2015 was a very robust 84.42%.

The Society also continues to see solid growth in our Student Member undergraduate population, the pipeline of the future. As of November 30, 2015, there were 19,825. There has also been substantial growth of 3.96% in our International membership, which currently sits at 26,050. The loss in membership is still occurring, but not from the in the loss of new members or Student Members, or from a decline in Retired or Emeritus Members. Instead, the challenge continues to be around Regular Members who pay the full amount of the member dues. In 2015, this loss was offset by the Enterprise Membership Model, which added nearly 3,200 new Regular members.

The Membership Affairs Committee (MAC) would like to extend its thanks to the members who nominated the 3,447 new paid ACS members as part of the 2015 ACS Member-Get-a-Member campaign. For each nomination made on the MGM web site or application resulting in a paid member, the nominator received the current ACS Periodic Table Throw. Go to acs.org/MemberGetMember to get yours!

The divisions and local sections that participated in the ACS President's Challenge are to be applauded. These divisions recruited 659 new ACS members and local sections brought in another 1,222 new members through June 2015, for a total of 1,881. That was a decrease of 174 from the same period 2014. The local section or division received a \$15 commission for each new member recruited. The total of commissions paid thru June 2015 was \$28,215. The committee is grateful for its partnership with 2015 ACS President Diane Grob Schmidt, who helped with the promotion of this effort.

MAC began a series of market data collection tests in 2013:

1. MAC has been testing an extension of the maximum benefit period of dues waivers for unemployed members from two to three years. Currently, there are 200 individuals on the third year waiver. MAC has concluded that this initiative will help unemployed members and will be presenting a petition for consideration on this in San Diego.
2. ACS International Chemical Science Chapters were challenged to recruit new members, and were offered a \$15 commission for each new paid ACS member they recruited. The six chapters have recruited 15 new ACS members -- six from Thailand, three from Malaysia, two each from Hong Kong, and Romania, and one each from Shanghai and South Korea. This program looks promising and MAC will be requesting permission to extend this test.
3. MAC is also working with staff to improve renewals by offering the options of automatic dues renewal and incremental payment of dues. The automatic dues renewal functionality was launched July 1, 2014. As of November 30, 2015, 6,159 (3.9% of total ACS membership) members have opted for automatic renewals.
4. In an effort to increase the number of reinstating Regular Members, past members were offered the opportunity to rejoin ACS for one year at a 15% discount, for two years at a 20% discount, or for three years at a 25% discount. In November of 2014, the ability for people to receive the discount when they reinstate using the Online Membership Application was created. The members needed to be responding to a specific email campaign to get the discount. This effort resulted in 119 new members.

5. MAC has approve an introductory test that would provide to ACS members residing in India a 66% discount on Member dues in all categories, which equates to a \$52 full Member dues rate. This test addresses the income disparity between chemists in India and the United States consistently with the World Bank model. As of November 30, 2015, 888 new members have joined from India at the reduced dues rate. Our current total membership in India is 1,526, which is 741 more than the same time last year (785).
6. Based upon the test in India, MAC approved development of testing to collect data on the adjustment of ACS dues prices in countries identified by the World Bank as below the average gross national income level of the U.S. This test will commence when certain online web applications are functional and made available for new member applications and renewals reflecting the adjusted dues amounts.
7. The Committee on Membership Affairs approved an enterprise model test to include memberships as part of institutional packages with other offerings of the Society. ACS staff shall report at least once a year to MAC on the testing and results of the tests. The ACS Implementation Team, composed of staff from across the organization, has been busy identifying best avenues to execute the four tactics proposed in the Enterprise Model. The model entails awarding highly engaged authors and reviewers with ACS membership; converting ACS Author Rewards recipients to members; and offering bundled packages including ACS membership, professional education, publication subscriptions, and CAS products to existing and new enterprise accounts, starting with a targeted list of companies in China, India, and Brazil. In 2015, 3,200 new members were added through these efforts.

MAC will continue to develop new tests to collect market data to inform the Council about ways to support ACS member retention and recruitment efforts. As new data becomes available, it will be reported to Council.

Finally, a working group was formed to examine the practicality and possible alternatives to requiring successful MAC tests to initiate a bylaw change. With seven tests, plus the endorsement of 2015 ACS President Diane Grob Schmidt's test to recruit chemistry awardees at PhD granting institutions and the Enterprise Business Model initiatives, the number of potential bylaw changes is growing quickly. Representatives from MAC, the Committee on Constitution and Bylaws and the ACS Secretary's Office, are working to draft wording for the bylaws that would allow greater flexibility in the area of membership dues and categories for marketing purposes.

James M. Landis, Chair

REPORT OF THE COMMITTEE ON ECONOMIC AND PROFESSIONAL AFFAIRS

The Committee on Economic and Professional Affairs (CEPA) continues to monitor the health of the chemistry enterprise and the state of the employment market. According to the ChemCensus 2015, the full results of which were released in November, the unemployment rate has been relatively constant with a slight uptick from 2.9% to 3.1% in the last year, but below the highs of the recession. There also was a rise in the number of members who reported their employment status as part time to 3.9%, an increase from 2014's measure of 2.8%. Accordingly, there was a concomitant decline in the full-time employment number. Respondents reporting as postdoctoral fellows remained essentially constant. Taking a more historical view of these numbers shows that they are relatively constant from 1995 onwards but represent a significant change from the pre-1990 ChemCensus levels where full-time employment was at 95% and part-time represented only 1.5% (see below table for details). Additionally, while not yet a trend, the separate, annual Survey of New Graduates in Chemistry and Related Fields also released last year showed the new graduate unemployment rate dropped to 12.4% from its peak of 14.9% in the 2013 survey.

Employment Status (% of All ACS Workforce Chemists)

	1985	1990	1995	2000	2005	2010	2015
Respondents n=	37.9k	34.2k	44.1k	41.9k	31.0k	29.3k	18.8k
Status (%)							
Full-Time	94.9	95.0	91.0	92.9	90.8	88.1	90.7
Part-Time	1.5	1.5	2.7	3.0	4.1	3.9	3.9
Post-Doctoral	2.0	2.3	3.7	2.1	2.0	4.2	2.2
Seeking Employment	1.6	1.2	2.5	2.0	3.1	3.8	3.1

ChemCensus: 2015. American Chemical Society. November 2015

Of significant note is that median salaries for ACS workforce chemists increased by \$4,000 to \$97,000 from its 2014 value. This also represents a similar increase in constant dollars as the consumer price index remained relatively unchanged over the past year. These gains were seen across all degree types with Doctorate degree holders seeing an increase from \$102,000 to \$105,000, Master's degree holders from \$85,000 to \$87,000, and Bachelor's degree holders from \$72,000 to \$77,000 over the past year. The hope is that these gains are beginning to reflect an upward pressure on wages due to a stabilizing job market.

Mergers and accompanying layoffs continue to be a concern, especially by large multinationals, with both CEPA and the ACS Department of Career & Professional Advancement continuing to monitor these and responding appropriately according to the needs of each situation.

CEPA continues to revise policies and guidelines related to the professional interests of ACS members in order to stay up to date on current practices and respond to changing externalities. The Academic Professional Guidelines (APG) has been revised and updated accordingly and it was presented for consideration of Council at the ACS National Meeting in Boston, August 2015. No revision comments were received and the document is now ready for action and can be found on page 75 of this agenda book.

The Chemical Professional's Code of Conduct (CPCC) was last approved in 2012. After a rigorous review of the document, an updated version of the CPCC is also included in this agenda book for Council consideration on page 72. Please send any suggestions for further revisions to careers@acs.org before April 30, 2016 so that they can be incorporated into the revised document which will be up for Council action at the meeting in Philadelphia later this year.

The ACS healthcare policy statement, set to expire at the end of 2015, was revised at the ACS National Meeting in Boston and approved by CEPA for submission to the ACS Board Committee on Public Affairs and Public Relations (PAPR) for further action. PAPR subsequently approved the revised document on December 12, 2015.

Co-located with the ACS Leadership Institute held January 22-24 in Dallas, TX, CEPA conducted training for ACS Career Consultants and presenters. These volunteers took part in sessions covering the latest market conditions, LinkedIn and social media best practices, and networking techniques. Individuals interested in providing personalized mentoring and career consulting to ACS members are invited to contact careers@acs.org to determine eligibility for participating in the program.

Also in 2015, the ACS Career Navigator program provided over 8,600 substantial individual interactions in service of ACS members and potential members. Highlights include over 2,000 attendees to the career workshops, almost 1,800 individual consulting interactions both online and face-to-face, and over 3,400 combined attendees to the on-site and virtual career fairs. The second virtual career fair of the year conducted as part of a C&EN virtual symposium drew over 900 individuals.

Rick Ewing, Chair

The Chemical Professional's Code of Conduct

The American Chemical Society expects its members to adhere to the highest ethical and safety standards. Indeed, the Federal Charter of the Society (1937) explicitly lists among its objectives **"the improvement of the qualifications and usefulness of chemists through high standards of professional ethics, education and attainments..."** The chemical professional has obligations to the public, to colleagues, and to science.

"The Chemist's Creed," was approved by the ACS Council in 1965. The principles of The Chemist's Code of Conduct were prepared by the Council Committee on Professional Relations, approved by the Council (March 16, 1994), and replaced "The Chemist's Creed". They were adopted by the Board of Directors (June 3, 1994) for the guidance of Society members in various professional dealings, especially those involving conflicts of interest. The Chemist's Code of Conduct was updated and replaced by The Chemical Professional's Code of Conduct to better reflect the changing times and current trends of the Society in 2007. This revision incorporates minor changes and was approved by Council on March 28, 2012 and adopted by the Board of Directors on June 1, 2012.

Chemical Professionals Acknowledge Their Responsibilities

To the Public

Chemical professionals should actively be concerned with the health and safety of co-workers, consumers and the community. have a responsibility to serve the public interest and safety and to further advance the knowledge of science. ~~They have a responsibility to serve the public interest and safety and to further advance the knowledge of science. should actively be concerned with the health and safety of co-workers, consumers and the community.~~ Public comments on scientific matters should be made with care and accuracy, without unsubstantiated, exaggerated, or premature statements.

To the Science of Chemistry

Chemical professionals should seek to advance chemical science, understand the limitations of their knowledge, and respect the truth. They should ensure that their scientific contributions, and those of their collaborators, are thorough, accurate, and unbiased in design, implementation, and presentation.

To the Profession

33 Chemical professionals should strive to remain current with developments in their field, share
34 ideas and information, keep accurate and complete laboratory records, maintain integrity in all
35 conduct and publications, and give due credit to the contributions of others. Conflicts of interest
36 and scientific misconduct, such as fabrication, falsification, and plagiarism, are incompatible
37 with this Code.

38 **To Their Employer**

39 Chemical professionals should promote and protect the legitimate interests of their employers,
40 perform work honestly, competently, comply with safety policies and procedures, fulfill
41 obligations, and safeguard proprietary and confidential business information.

42 **To Their Employees or Subordinates**

43 Chemical professionals, as employers and managers, should respect the professionalism of their
44 subordinates, and have concern for their well-being, without bias. Employers should provide
45 them with a safe, congenial working environment, fair compensation, opportunities for
46 advancement, and properly acknowledge their scientific contributions.

47 **To Students**

48 Chemical professionals should regard the tutelage of students as a trust conferred by society. ~~For~~
49 ~~the promotion of the~~ They should promote students' learning, professional
50 development, learning, and safety, and treat each ~~Each~~ student ~~should be treated~~ fairly,
51 respectfully, and without exploitation.

52 **To Colleagues**

53 Chemical professionals should treat *colleagues* with respect, encourage them, learn with them,
54 share ideas honestly, and give credit for their contributions. Chemical professionals should
55 carefully avoid any bias based on race, gender, age, religion, ethnicity, nationality, sexual
56 orientation, gender expression, gender identity, presence of disabilities, educational background,
57 or other personal attributes. They should show consistent respect to colleagues, regardless of the
58 level of their formal education and whether they are from industry, government or academia, or
59 other scientific and engineering disciplines.

60 **To Their Clients**

61 Chemical professionals should serve clients faithfully and incorruptibly, respect confidentiality,
62 advise honestly, and charge fairly.

63 **To the Environment**

64 Chemical professionals should strive to do their work in ways that are safe for ~~both~~ the
65 environment. ~~and for the health of all who may be affected.~~ They have a responsibility to
66 understand the total ~~health, safety and environmental~~ impacts of their work, to recognize the

67 constraints of limited resources, and to develop sustainable products and processes that protect
68 the health, safety, and prosperity of future generations.

69 **To Temporary Employees**

70 Chemical professionals should establish clear job descriptions, scope of work, terms of contract,
71 and appropriate compensation prior to start of work by contractors, interns, or consultants. They
72 are also responsible for communicating safety concerns and providing necessary training
73 associated with expected work.

74 For more information about the Department of Career and Professional
75 Advancement Services, Please please see our Contacts List.

Academic Professional Guidelines

Introduction

The American Chemical Society (ACS), the world's largest association of professional scientists, ~~has the opportunity to~~ should take the lead in articulating standards for scientists in academia. ~~We believe~~ The ACS has established the Academic Professional Guidelines ~~represent as~~ a fair and just balance among the legitimate interests of all facets of the higher education community and recommends that these guidelines be accepted and implemented.

~~These guidelines~~ Guidelines apply to those members of the academic community whose job function impacts directly or indirectly on students and scientists ~~practicing the profession of chemistry~~ involved in the chemical sciences and represent recommended practices to foster productive working relationships among all chemical scientists in academe. For brevity, the term "chemical scientist" is used broadly in these ~~guidelines~~ Guidelines to refer to undergraduate and graduate students, post-doctoral and research associates, technicians, staff members, and all part-time and full-time faculty members involved in chemical sciences and engineering.

The Academic Professional Guidelines complement the broader ACS Professional Employment Guidelines to provide guidance on special issues of concern to chemical scientists in the academic environment. The ACS Professional Employment Guidelines are to be consulted for those issues dealing strictly with workplace issues.

1. ~~First Edition~~
~~Approved by the Council April 17, 1991~~
~~Adopted by the Board of Directors August 25, 1991~~
2. ~~Second Edition~~
~~Approved by the Council March 16, 1994~~
~~Adopted by the Board of Directors June 3, 1994~~
3. ~~Third Edition~~
~~Approved by the Council April 4, 2001~~
~~Adopted by the Board of Directors June 9, 2001~~
4. ~~Fourth Edition~~
~~Approved by the Council (April 9, 2008)~~
~~Adopted by the Board of Directors (date)~~

General Guidelines

What chemical scientists should expect

Chemical scientists in an academic community have the right to equal treatment and opportunity regardless of gender, race, national origin, religion, age, sexual orientation, gender expression and gender identity, physical disability, or any other factor not related to the position. This includes a workplace free of intimidation, coercion, exploitation, discrimination, and harassment, ~~sexual or otherwise~~ and all forms of harassment. Employment of chemical scientists in academe should be based on professional capabilities alone. Compensation and benefits should be commensurate with the position in the professional community. Standards for performance should be explicit and measureable. Timely, accurate, and constructive feedback should be provided concerning job performance. Professional development for all chemical scientists, including developing and maintaining technical competence via courses, scientific meetings, and other means, should be supported.

~~A safe laboratory working environment must always be maintained. This includes providing facilities, equipment, and formal instruction adequate for the anticipated operations within the laboratory as well as compliance with federal, state, and local regulations. Attention should be focused on the highest standards of laboratory practices as well as the personal responsibility of the individual laboratory worker.~~

~~Honesty, integrity, and fair and collegial professional conduct are expected. All students and faculty are expected to adhere to the highest standards of expectations and policies regarding intellectual property, plagiarism, and group work.~~

~~In order to meet scientific communication and professional expectations, all faculty and students studying or working in the United States should develop spoken and written English language skills.~~

~~Compensation and benefits should be commensurate with the position in the professional community.~~

~~Professional development for all chemical scientists should be supported. Working in any area of chemical science implies a life-long commitment to learning.~~

Responsibilities of all chemical scientists

Chemical scientists have a professional responsibility to serve the public interest and welfare and to further public understanding of science. A safe working environment must always be maintained. This includes not only establishing, following, and enforcing safe laboratory practices, but also inculcating a culture of safety throughout the working environment. Facilities, equipment, and formal instruction adequate for the anticipated operations within the laboratory must be provided. Compliance with federal, state, and local regulations must be rigorously enforced. Attention should be focused on the highest standards of laboratory practice as well as the personal responsibility of the individual laboratory worker, and the academic unit should have a proactive safety committee. Widespread and in-depth attention should be given to the report *Creating Safety Cultures in Academic Institutions: A Report of the Safety Culture Task Force of the ACS Committee on Chemical Safety* which can be found at <http://www.acs.org/content/dam/acsorg/about/governance/committees/chemicalsafety/academic-safety-culture-report-final-v2.pdf>

Chemical scientists should take personal responsibility ~~to~~ for:

- Treating co-workers with the respect expected by all professionals.
- Maintaining high standards of honesty, integrity, ethics, and diligence in the conduct of education teaching, research, and all other professional duties responsibilities.
- Be concerned with the personal health and safety and that of co-workers, consumers, and the community. The expertise of a chemical scientist is required in matters of public health and safety.—
- Utilizing expertise for the good of co-workers, the community, and the world by providing considered comment to the public at large on issues involving the chemical sciences.
- Establishing and maintaining lines of communication throughout the academic and professional communities.
- Communicating with scientists and non-scientists accurately, using good oral and written skills. All chemical scientists working in an academic environment in the United States should develop spoken and written English language skills to effectively communicate novel research/educational materials in the language most relevant to a majority of the society and country.
- Provide considered comment to the public at large on matters involving chemistry. Chemical scientists are in the best position to decipher and communicate complex matters of chemistry for the general public.
- Honoring commitments made in the context of fulfilling professional duties, whether to students, colleagues or employer.
- Understanding all facets of intellectual property that may be generated from original work
- Establish and maintain lines of communication throughout the academic and professional communities.
- Generate-Generating opportunities for appropriate educational and research collaborations.
- Participating in life-long learning. Chemical scientists should continue their education and professional development, actively participate in appropriate professional societies, and interact with other professionals in the field so as to enhance their capabilities.
- Seeking professional development opportunities to increase mentoring skills.

~~The Student and Postdoctoral Associate~~

~~Although the following section focuses on graduate students and postdoctoral associates, these guidelines also apply to undergraduate students where appropriate, especially those engaged in undergraduate research.~~

~~Responsibilities to the Faculty and the Institution~~

~~The student should demonstrate honesty, integrity, and diligence in the conduct of research, teaching, and in the completion of academic courses. The graduate student should diligently~~

~~pursue coursework and, as appropriate, teaching and thesis research. Included in this obligation is the timely completion of manuscripts, publications, and a dissertation. Students are responsible for being aware of and adhering to policies related to plagiarism.~~

~~Students should be fully aware of the ethical, legal, health, and safety implications of their education, research, and teaching in both the academic community and in the public setting.~~

~~Students and postdoctoral associates should take personal responsibility for understanding, practicing, and promoting appropriate safety procedures.~~

~~Students have the responsibility to pursue vigorously educational opportunities directed toward becoming chemical professionals.~~

~~Students should seek to broaden their educational and professional development through experiences such as industrial internships, coursework in other disciplines, and other experiential programs such as classroom teaching.~~

~~It is the responsibility of the student to monitor progress in coursework, consult with appropriate individuals when difficulty arises, and cooperate in efforts to resolve these difficulties. The student should seek further guidance from an appropriate higher academic or administrative level if a problem cannot be resolved with the faculty member.~~

~~The research student or postdoctoral associate should consult the supervising faculty advisor/mentor at appropriate intervals regarding progress and should openly discuss relevant technical and administrative problems. If a problem cannot be resolved with the faculty advisor/mentor, the graduate student or postdoctoral associate should seek further guidance from an appropriate higher academic or administrative level.~~

~~The student should honor commitments relating to teaching and research. The student should recognize that the faculty member devotes significant time and effort to classroom teaching, supervision of research, and other professional activities. The commitment by the faculty member should be matched by the student.~~

~~Students should maintain open lines of communication with other students and with faculty members. English language skills should be developed as necessary for improved spoken and written communication.~~

~~Students should clearly understand their rights and obligations related to intellectual property and authorship, keep accurate and complete laboratory notebooks and records to document their work and ideas, and communicate their results as appropriate.~~

~~Mentoring opportunities should be actively sought. More experienced students should serve as mentors and educators for others. Prospective mentors should seek professional development opportunities to increase their mentoring skills.~~

Postdoctoral associates should recognize their dual role as both employees and scientific peers of their research mentor. Postdoctoral appointments should be considered a short-term transitional period between graduate school and an independent professional position.

Postdoctoral appointments should broaden the base of the associate's knowledge and be of mutual benefit to the associate and host laboratory.

The

Faculty Members

Responsibilities to Students and Colleagues

The faculty member should exhibit honesty, integrity, and diligence in the conduct of research, teaching, mentoring, and all other professional responsibilities. Faculty members bear a responsibility to inculcate these values in their students.

The faculty member must take responsibility for establishing a laboratory environment consistent with the current best practices in chemical safety, including the workplace right to know law governing employees and students. Faculty members should use their expertise to assist university safety personnel in those situations involving chemical hazards or spills.

The faculty member should contribute to building a collegial environment among all full and part-time faculty members, students, postdoctoral associates, and staff.

The faculty member should be a model for the professional development of students, colleagues, and staff by continuing professional development and scholarship. Broader self-education within the discipline of chemistry and chemical education as well as outside of chemistry is appropriate.

Full attention should be directed to student learning, recognizing that the acquisition, interpretation, and dissemination of knowledge are the principal functions of an academic institution. In this role as a teacher, the faculty member should stimulate the students' interest, broaden their outlook, and encourage a sense of inquiry.

The faculty member should willingly serve as a mentor to students, postdoctoral associates, and other faculty members. Mentoring should include assistance in developing a successful career and should encourage the development of a sense of inquiry, a habit of broad-based learning, and professional communication skills. The special obligation to provide sound guidance to undergraduate students should be recognized. Prospective mentors should seek professional development opportunities to increase their mentoring skills.

The faculty member should encourage and provide opportunities for students to develop writing, speaking, listening, or other communication skills necessary to achieve success in their careers. Students studying or working in the United States should be encouraged to improve their

conversational and scientific English communications skills. Faculty members should seek professional development opportunities to increase their own communication skills.

The faculty member should encourage the development of initiative and independent thinking by students and postdoctoral associates.

The faculty member should maintain an environment in the research laboratory that fosters productivity, collaboration, and respect among co-workers.

The faculty member should recognize the research contributions of students, postdoctoral associates, or staff by co-authorship or appropriate acknowledgment in publications. Regular and periodic evaluation should be provided to students and postdoctoral associates. This communication should concern the progress of the research and provide feedback regarding the status relevant to the project, as well as constructive suggestions toward resolution of any research difficulties encountered. A functioning advisory committee should be formed for each graduate student as soon as the research is initiated. The committee should meet periodically with the student and faculty member to evaluate progress and to provide further guidance to the student.

The faculty member should guide the student so the degree requirements, including coursework and research, can be satisfactorily completed in a reasonable amount of time.

If satisfactory progress is not being made, the faculty member should inform the student that a problem exists and offer the student opportunities to correct the situation. Options may include changing research projects or faculty advisors. This discussion should occur as soon as a problem is noticed.

The faculty member should be aware of the institution's policy and accepted professional expectations toward intellectual property, such as authorship, patents, and copyrights, and inform students and postdoctoral associates of and expect them to conform to that policy.

The faculty member should inform each postdoctoral associate in writing of the financial support and benefits to be provided. Fair and consistent practices in hiring and compensating postdoctoral associates should be observed.

Faculty members have a primary responsibility toward the education of students. This education comes in the form of teaching, research, and service to the institution and community. The faculty member should contribute to building an open and collegial environment among all full-time and part-time faculty members, students, postdoctoral associates, and staff. The faculty member should promote a productive working environment that fosters productivity, collegiality, collaboration, concern for safety, and respect among all members of the institution. The faculty member should be a role model for students, colleagues, and staff by continuing his or her own professional development and scholarship. Broad self-education within the discipline of chemistry and chemical education as well as outside of chemistry is appropriate.

A. Responsibilities to Students

The faculty member acts as a teacher, advisor, and mentor to students. In this role the faculty member should stimulate students' interest, broaden their outlook, and encourage inquiry. The faculty member should encourage the development of initiative and independent thinking by students.

1. *Academic progress*: The faculty member should guide students so all degree requirements can be satisfactorily completed in a reasonable amount of time. Regular and periodic evaluation should be provided to students. If satisfactory progress is not being made, the faculty member should inform the student that a problem exists and offer the student opportunities to correct the situation.

2. *Research progress*: An appropriate advisory committee should be formed for each graduate student. The committee should be constituted following the guidelines of the institution and include faculty whose research interests and technical expertise will guide the student to success. The committee should meet periodically with the student and faculty member to evaluate progress and to provide further guidance to the student and promote the timely achievement of the degree. Similarly, for undergraduate and post-doctoral researchers, regular meetings to discuss research progress should be established and the results of experiments discussed.

3. *Publications and Presentations*: The faculty member should recognize the research contributions of students, postdoctoral associates, or staff by co-authorship or appropriate acknowledgment in publications and presentations and encourage students to actively participate in the submission of publication and presentations. The faculty member should know the institution's policy and accepted professional expectations regarding intellectual property, such as authorship, patents, and copyrights. The faculty member should educate students about these policies and ensure compliance with the policies.

4. *Mentoring*: The faculty member should willingly serve as a mentor to students and postdoctoral associates. Mentoring should include assistance in identifying and developing a successful career, and should encourage the development of a sense of inquiry, a habit of broad-based learning, networking skills, and skills related to working with others, both formally and informally. The faculty member should also encourage and provide opportunities for students to develop writing, speaking, listening, and technical and non-technical communication skills necessary to achieve success and to seek appropriate opportunities to broaden their education and professional development as appropriate for their students' career path.

5. *Research Funding*: A faculty member should actively seek appropriate internal and external funding to support teaching, scholarship, and research as well as the efforts of students associated with these endeavors. Faculty should support the efforts of their students to obtain their own funding by providing students with the necessary training and experience in order to be successful.

The faculty member should inform each student in writing of the financial support and benefits to be provided. Students should be notified in advance of any changes to financial support that

will affect the program of study. Faculty should not accept research students if adequate research support cannot be provided. Fair and consistent practices in hiring and compensating students should be observed.

6. Teaching: Faculty members are responsible for delivering course material using appropriate pedagogy, administering fair assessments of student progress in a course, timely reporting grades to students and the institution, and remaining accessible to students through e-mail and office hours.

B. Responsibilities in Research and Education in the Laboratory

The faculty members involved in research must take responsibility for establishing a laboratory environment consistent with the current best practices in chemical safety, including the Workplace Right to Know laws and OSHA Hazard Communication Standard governing employees and students. Faculty members involved in research should consider environmental impacts, sustainability and human health in managing laboratories, administration and instruction. The American Chemical Society Green Chemistry Institute has numerous resources available for institutions looking to manage their laboratories in a green and sustainable way.

Students and Postdoctoral Associates

This section applies to any student or scholar involved in studying the chemical sciences including graduate students, postdoctoral scholars and undergraduates participating in scholastic activities such as teaching, learning, research, or collaboration. By nature, many students are learning the chemical sciences for the first time and they should be familiar with the basic guidelines for conduct in the field such as those outlined in *The Chemical Professional's Code of Conduct* and *Creating Safety Cultures in Academic Institutions: A Report of the Safety Culture Task Force of the ACS Committee on Chemical Safety*.

A. Responsibilities towards Studies

Students are responsible for understanding all requirements necessary to complete their specific degree and they should actively strive to complete each requirement on schedule as expected by the institution and/or the faculty advisor. Students are responsible for monitoring their own progress throughout their degree program. As scholars, all students should take responsibility for their own learning and intellectual development. This includes reading primary literature, attending seminars and conferences, and asking questions of other scholars. Students in the chemical sciences must also be responsible for their own professional development, exploring possible career opportunities in the field of chemistry and working towards achieving them.

B. Responsibilities towards Research

Students are responsible for educating themselves on safety and health hazards, ethical, and legal implications associated with their research in collaboration with faculty or mentor. If an issue arises during the course of a student's tenure in the laboratory, the student has the responsibility

to seek the appropriate guidance from the advisor, department or administration by following institutional protocols.

Students must take responsibility and ownership of their projects and contribute intellectually to the research team. All experiments should be promptly, accurately, and properly documented. Laboratory notebooks should be complete, and all data should be properly recorded and analyzed. Results should be effectively communicated through proper writing and presentation skills. All results should be discussed with the primary investigator and manuscripts should be submitted in a timely manner.

When research results merit publication, student authors are expected to read and follow the ACS Ethical Guidelines to Publication of Research (<http://pubs.acs.org/userimages/ContentEditor/1218054468605/ethics.pdf>). Authorship is not a privilege and requires significant contribution to the research design, execution, and analysis of a series of experiments.

The Department

The department has the most direct responsibility to create a safe, high-quality environment in which a combined teaching, learning, and research experience fosters the professional development of students, staff members, and faculty. Departments must establish and nurture a *culture of safety* among faculty, staff, and students. Students should be instructed in the aspects of modern chemical safety appropriate to their educational level and scientific needs. They should be made aware that virtually all laboratory incidents are preventable when hazards and risks are minimized and proper procedures are followed.

A. Responsibilities to Faculty and Staff

1. *Courses and Course load:* The department should be clear, consistent, and equitable in course load and specific course assignments for faculty. In the event a faculty member is eligible for an institutionally approved course load reduction, the department should advocate to the administration for necessary replacement support prior to assigning additional duties to remaining other faculty member(s).

2. *Undergraduate Student Advising:* The department should provide all necessary training and support for faculty serving as undergraduate academic advisors. If an official, institutional advisor training program exists, then the department should actively support participation by any faculty member serving as an academic advisor, especially junior faculty.

3. *Graduate Student Advising:* The department should maintain a clear and equitable policy for appointing faculty to serve on progress committees. Departments should ensure that these committees meet regularly to review all graduate students and that these committees provide clear, written feedback to students. Additionally, best practices protocols for handling confidential information should be developed, and updated as necessary, and faculty should receive thorough training in these protocols.

4. *Professional Development*: For faculty members and staff employees, the department should work closely with appropriate institutional administrators to develop and maintain programs and resources that support ongoing professional development. The department should maintain a mentoring and professional development policy such that new/junior faculty can more efficiently and effectively deliver the departmental course curriculum and execute research.

B. Responsibilities to Students

1. *Courses*: Programs training undergraduate students in the chemical sciences are strongly encouraged to develop and implement curricula that meet the ACS Committee on Professional Training guidelines (<http://www.acs.org/content/acs/en/about/governance/committees/training.html>). The department should contribute to the maintenance of the institutional course catalog that informs students of the requirements for each degree offered. All instructional technology (websites, lecture notes, ancillary materials) should meet universal web design standards for website accessibility ensuring students with disabilities have a level educational playing field in the chemical sciences.

2. *Seminars*: To enhance students' professional networking opportunities, the department should maintain a regular program of seminars presented by external visitors from academia, industry, and government labs.

3. *Guidance through the Departmental Program*: Each undergraduate major should be assigned an advisor that is a full-time, tenured or tenure-track faculty member. As department resources permit, faculty advisors could be supported by staff professional academic advisors who serve as additional resources for undergraduate curricular planning and guidance. To complement direct guidance received from a thesis or dissertation advisor, graduate students should be appointed a progress committee consisting of at least two full-time tenured or tenure-track faculty in the chemical sciences.

4. *Career Development*: Depending upon departmental resources and/or institutional structuring, the department should either maintain a formal career development program or actively support the career development program(s) housed elsewhere on campus. Career development support should include assistance in applying for on and off campus summer research opportunities, fellowships, scholarships, and travel support to participate in regional and national meetings. Students should have access to up-to-date listings of job postings and application deadlines.

5. *Library Resources, Journal Holdings, and Scientific Data Bases*: The department should work closely with institutional library professionals to ensure that books, monographs and technical journals provide broad coverage of the discipline and are readily accessible in hardback and/or electronic format. Appointing a full-time tenured or tenure-track faculty member to serve as library liaison is advisable. Students should be able to receive training on and reasonable access to databases containing information relevant to course work, laboratory work, and independent research work.

6. Physical Facilities: The department should maintain its building(s) and equipment holdings in the highest quality condition possible. Building use policies and equipment contained therein should be updated regularly.

The Administration

The administration has the responsibility to support chemical scientists in working toward the mutual goal of providing the highest quality instruction, research, and public service in chemistry at the institution.

General Responsibilities to Chemical Scientists

The hiring of full and part-time faculty members, research associates, staff and postdoctoral associates and the admission of graduate students should be done with integrity using fair and ethical standards. Each institution should establish clear, written

guidelines for compensation, benefits, and duration of appointments to safeguard against the abuse of chemical scientists in part-time and postdoctoral appointments.

The institution should provide:

- Teaching and research facilities commensurate with expectations for academic professionals.
- Adequate library facilities and information technologies.
- Information about copyright and patent laws, technology transfer, and intellectual property rights.
- A safe working environment and promotion of a health and safety-conscious atmosphere. Formal instruction on safe practices must be provided.
- Contemporary educational technologies and modern laboratory instrumentation.
- Opportunities that encourage professional development.

Responsibilities to Graduate Students and Postdoctoral Associates

Upon admission to the graduate program or acceptance of a postdoctoral position, each student or postdoctoral associate should be informed in writing of the financial support and benefits that normally may be expected during the appointment period as well as the terms and conditions of the appointment.

The institution or department should provide formally established procedures to resolve disputes equitably. Graduate students and postdoctoral associates should be informed in writing of these procedures, which should be structured to provide prompt due process.

Postdoctoral associates should receive fringe benefits comparable to permanent employees.

Full-time graduate students should have access to institutional health benefit plans commensurate with full-time university staff.

Career and placement services should be provided for graduate students and postdoctoral associates.

Responsibilities to the Faculty Member

The AAUP “Statement of Principles on Academic Freedom and Tenure” (1940), “Statement on Procedural Standards in Faculty Dismissal Proceedings” (1958), “Statement on Procedural Standards in the Renewal or Nonrenewal of Faculty Appointments” (1971), and “Statement on Professional Ethics” (1987) provide a framework for the institution in its relationship with faculty members.

A broad definition of scholarly work should be used by administrators to recognize and reward faculty members. Chemical education research and/or innovations should be part of such a definition.

The administration should provide regular teaching and learning workshops for full- and part-time faculty members and teaching assistants in order to ensure high quality instruction.

The administration should provide both full- and part-time faculty members with fair compensation and fringe benefits, teaching responsibilities consistent with professional expectations and the mission of the school, and a governance framework providing for input and participation of the faculty.

Adequate financial support for scholarship should be made available to incoming faculty members so that they can begin to establish careers as productive teacher-scholars.

The administration should foster a climate of faculty mentoring throughout their careers. Each institution has a unique “culture”, the understanding of which is very important early in a career, and the administration should take efforts to insure that all faculty members are comfortable in this culture.

The administration should encourage and support collaborative scholarship and interdisciplinary programs so that the important role of chemistry in many other disciplines can be effectively exploited.

The administration should recognize that the evaluation of a faculty member's performance is best done by invoking a variety of techniques and approaches. In the case of collaborative work, the administration should develop means to assess and reward individual contributions appropriately.

The Institution

Responsibilities

The AAUP "Statement of Principles on Academic Freedom and Tenure" (1940), "Statement on Procedural Standards in Faculty Dismissal Proceedings" (1958), "Statement on Procedural Standards in the Renewal or Nonrenewal of Faculty Appointments" (1971), and "Statement on Professional Ethics" (1987) should provide a framework for the institution in its relationship with faculty.

1. *Recruitment and Hiring*: The institution should seek a diverse workforce and make special efforts to identify and attract all qualified candidates to their faculty and staff. Faculty search committees should be constituted to represent diverse points of view and perspectives.

The institution should also seek a diverse student body and make special efforts to identify and attract all qualified candidates to their graduate and postgraduate programs. The 2000 National Academies report entitled "Enhancing the Postdoctoral Experience for Scientists and Engineers: A Guide for Postdoctoral Scholars, Advisers, Institutions, Funding Organizations, and Disciplinary Societies" should provide a framework for the institution in its relationship with postgraduates.

Institutions have a responsibility throughout the hiring and recruitment process to advertise all faculty and postgraduate employment opportunities and graduate assistantships widely, follow the institution's published ethical, equal employment and legal policies, make fair and equitable salary and start-up offers, and ensure that all candidates have the information needed to make informed and responsible decisions regarding their employment or course of study.

All new faculty, staff, and students should be oriented with respect to the opportunities and resources available to them at their institution. Training and orientation should include meetings with administration and other new faculty that will foster collaborations and collegiality. Students serving as instructors in the classroom and/or the laboratory should be provided with proper training and supervision to enable them to competently carry out their responsibilities as student instructors.

2. *Governance*: The institution is responsible for ensuring that a governance framework is in place that facilitates the input and participation of its faculty in developing and implementing policy related to personnel including faculty and administrators, budget, and educational policies.

3. *Evaluation*: The institution has a responsibility to provide an evaluation process, an appeal process, and clearly defined standards for all faculty and staff. As faculty are traditionally evaluated in the areas of teaching, research and service, the definitions and criteria in each category should be explicitly defined and be sufficiently broad to reflect the diverse nature of scholarship in the chemical discipline. The administration should recognize that the evaluation of a faculty member's performance is best done by invoking a variety of techniques and approaches. Criteria for graduate student evaluation should be developed and implemented. Non-tenured faculty, staff, graduate students and post-doctoral scholars should be reviewed annually and provided with timely, written feedback concerning their performance. The institution has a responsibility to provide a mechanism to grieve decisions about their academic performance, employment, salary or teaching assignment without fear of reprisal.

4. Compensation: The institution has a responsibility to ensure that all faculty, staff and students are compensated for their performance and that the compensation is fair and equitably distributed. Where inequities are found to exist, the institution has a responsibility to address these inequities in a timely manner and should provide a grievance procedure to ensure due process. In the case of collaborative work, means should be developed to assess and compensate individual contributions appropriately.

5. Safe and Adequate Facilities: The institution has a responsibility to ensure its faculty and students have been informed and educated concerning all laboratory hazards in the institution's teaching and research laboratories through the development and implementation of an active Chemical Hygiene Plan (CHP). The institution has a responsibility to administer an active, ongoing laboratory safety program that oversees all its teaching and research laboratories. The CHP should include establishment of university-wide standard operating protocols, training programs for use of chemicals and handling and disposal of wastes, monitoring programs, provision of medical consultations and examinations, if needed, and identification and provision of the appropriate engineering controls and safety equipment such as chemical fume hoods, glove boxes, ventilated flammable chemical storage cabinets, fire extinguishers, fire alarms, eye wash stations, showers, fire blankets, personal protective equipment, etc. Classroom and laboratory facilities should meet universal design standards and be accessible to students with disabilities.

6. Faculty Development and Mentoring: The institution should provide a mechanism and support for faculty development in teaching and research at all levels. Such support could include institutional grants, workshops, colloquia, and faculty learning communities. The institution should foster a climate of faculty mentoring over the course of their academic careers. As each academic institution has its own unique "culture," the institution has a responsibility to educate new members concerning its particular requirements for sustained membership in the community.

7. Interdisciplinary and Collaborative Scholarship: The institution should develop a formal definition of scholarship that is both broad and adaptable. This should be used to recognize and reward faculty members. Chemical education research and other innovations should be part of the definition. Institutions should encourage and support interdisciplinary and collaborative scholarship so that the role of chemistry as the fundamental science can be effectively leveraged to foster innovation and competitiveness. Institutions hiring faculty involved in interdisciplinary and collaborative efforts should develop appropriate means to assess and reward individual as well as corporate contributions and those that cross traditional academic disciplines.

History

First Edition

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Fifth Edition

Approved by the Council (date)

Adopted by the board of Directors (date)

REPORT OF THE COMMITTEE ON MEETINGS AND EXPOSITIONS

The official attendance at the 250th National Meeting in Boston, MA, totaled 13,928. The exposition in Boston had 477 booths with 330 exhibiting companies.

M&E is reviewing site selection options for the Fall meeting in 2024. Potential locations include Philadelphia, PA and Denver, CO.

Due to space restrictions for this meeting, there were no exemptions to the even programming rules. We would like to thank the Division leadership for their understanding.

ACS has won another national recognition for our sustainable green meetings. We were recognized in Convene Magazine's August 2015 annual Best in Show issue for "Best Corporate Social Responsibility Initiatives". In our continuing efforts to green the national meetings, M&E confirmed its conversion to electronic versions of the program book starting with the Spring 2016 meeting. The hard copy program book will be available for attendees to purchase (at cost) when they register for the meeting and onsite. The PDF version of the national meeting program will be more prominently displayed on the ACS website for those who would like to print portions for themselves.

The Mobile App continues to be a success. There were over 4,860 downloads of the Boston Mobile App.

The Regional Meetings Subcommittee is initiating efforts to partner with minority chemical societies such as NOBCChe and SACNAS to increase participation and diversity in our Regional Meeting attendees.

The committee established a new sub-committee titled "Operations" which is responsible for monitoring the financial success of the national meetings, compliance with the National Meeting Long Range Financial Plan and the recommendations of the 2015 Task Force on Implementing National Meeting Financial Targets.

John Pochan, 2016 Chair
Will E. Lynch, 2015 Chair

REPORT OF THE COMMITTEE ON DIVISIONAL ACTIVITIES

Part of the 2016 focus for the Committee on Divisional Activities, DAC, will be on developing greater support for divisions as they seek to recruit and retain members. The committee will work on two tracks to accomplish this goal: (1) With staff, to leverage their expertise in getting and keeping ACS members, and (2) With governance, most specifically the Membership Affairs Committee.

Another focus for DAC in 2016 will address providing divisions, at least on a pilot program basis, with additional guidance and support in implementing a more rigorous - and sustained - business planning aspect to their operations.

DAC will continue to partner with the Committee on International Activities to help divisions identify, evaluate, and pursue international engagement opportunities. DAC views international market development as critical to the future health of most (if not all) of ACS divisions, and is eager to provide them with whatever assistance they need to succeed in this endeavor.

The committee is continuing to solicit and compile the "Best Practices" of all the ACS divisions. This information will be stored and available to all divisions as a resource for future activities. DAC will have more to report on this to divisions after the San Diego national meeting.

Finally, DAC wishes to acknowledge the efforts of the divisions and the Multidisciplinary Program Planning Group in organizing and delivering a wide range of excellent programming in support of the San Diego theme: "Computers in Chemistry." Upcoming themes appear below:

Philadelphia, Fall 2016:	Chemistry of the People, by the People and for the People
San Francisco, Spring 2017:	Advanced Materials, Technologies, Systems and Processes
Washington, D.C., Fall 2017:	Chemistry's Impact on the Global Economy

Rodney Bennett, 2016 Chair
Michael J. Morello, 2015 Chair

REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS

In 2015, C&B certified 29 bylaws; this is the most bylaws certified in any previous year. Since the Council meeting in Boston, the Committee on Constitution and Bylaws (C&B), acting for the Council, issued certified bylaws to eight Local Sections, two Divisions, and five International Chemical Sciences Chapters: Chattanooga, Eastern New York, Eastern North Carolina, Lake Superior, Mojave Desert, Northeast Georgia, Rochester, and Southern Illinois; AGFD and INOR; and Australia, Brazil, Nigeria, Peru, and United Arab Emirates (UAE). As requested, C&B prepared expedited bylaws for these Sections: Idaho, St. Joseph Valley, and Wisconsin. C&B reviewed proposed bylaw changes and submitted reports to these Sections: Central Utah, Coastal Georgia, East Central Illinois, Missouri, New York's CME Group, South Central Toledo, and Western New York.

Certified bylaws are posted on the web at www.acs.org/bulletin5 (click on unit bylaws). There's also a status report that shows which Divisions and Local Sections are delinquent in updating their bylaws. Your bylaws are the rules by which your Division and Local Section are governed; unfortunately, in late 2015, some units experienced election issues because their bylaws are outdated. We encourage you to use either the expedited method, which is easy and fast (but not available for incorporated units), or the bylaws template, which gives more flexibility. Both are posted at the above link or feel free to contact us at bylaws@acs.org and we'll be happy to assist you.

There is one petition for consideration at this meeting: Petition to Extend the Unemployed Members' Dues Waiver. New petitions to amend the Constitution and/or Bylaws must be received by the Executive Director (bylaws@acs.org) by **April 5** to be included in the Council agenda for the fall 2016 meeting in Philadelphia. We recommend that you send your draft petition to C&B at least one or two months before this deadline so that we can assist with wording and petition requirements, if you wish.

The January 1, 2016 edition of the ACS Governing Documents (Bulletin 5) and a detailed change document are available at www.acs.org/bulletin5. The online edition of Bulletin 5 is the authoritative version.

ACS members are invited to attend C&B's open meeting on Sunday, March 13, from 1:15 – 1:45 pm. The committee will give a brief status report and will respond to any questions or comments you may have on committee-related matters.

James C. Carver, Chair

Please attend the open meetings of any of the following committees to discuss this petition, ask questions and/or hear comments. This petition has been referred to the ***Committee on Membership Activities**, Committee on Economic and Professional Affairs, Council Policy Committee, Society Committee on Budget and Finance, and Committee on Constitution and Bylaws. (***Committee with primary substantive responsibility**)

For more information see www.acs.org/bulletin5 (click on petitions) or contact bylaws@acs.org. The deadline for written comments is April 15, 2016.

ORIGINAL

FOR CONSIDERATION

Petition to Extend the Unemployed Members' Dues Waiver

Bylaw XIII, Sec. 3

Petition

We, the undersigned Councilors and members of the American Chemical Society, hereby petition to amend the SOCIETY Bylaws as follows (additions **underlined**; deletions ~~struck through~~):

Bylaw XIII
Finances
Sec. 3.

k. After one year of paid membership, a member who is unemployed and is seeking full-time professional employment, upon request to the Executive Director and affirmation of such status, shall be entitled to a waiver of membership dues. Such annual waiver shall commence on the member's anniversary date and may be renewed **each year for a total not to exceed three years** ~~for a second year~~ so long as this status is reaffirmed **each year**. This provision may be invoked again only after a period of full-time professional employment.
(10/4/99)

Explanation

The petitioners propose changes to the ACS's Bylaws to allow unemployed members of the Society to remain as members without paying dues for a period of up to three years. Bylaw XIII, Sec. 3, k currently provides for the dues to be waived for an unemployed member for a period of up to two years. The Committee on Membership Affairs (MAC), prepared a Market Data Status Report (as of 5-14-15), which resulted in the following data.

<u>Consecutive Years Unemployed</u>	<u>Count</u>
1-year unemployed	882
2-years unemployed	331
3-years unemployed	179

Expanding this benefit to a third year prevented 179 members from being removed from membership in the Society. The extension of the benefit by another year would result in virtually no cost to the Society, yet would preserve membership status for those individuals who have been unemployed as chemists for up to three years.

Signed:

Dr. Lisa Balbes	Dr. Michael Hurrey	Dr. Herbert B. Silber
Dr. Mark T. Blankenbuehler	Dr. Wayne E. Jones, Jr.	Dr. Ann Marie Sullivan
Dr. Peter Joseph Bonk	Dr. Resa M. Kelly	Dr. Ruth Tanner
Ms. Merle I. Eiss	Dr. Melanie J. Moser	Dr. John R. Vercellotti
Mr. Dana Ferraris	Dr. Kevin Pate	Ms. Sharon V. Vercellotti
Ms. Barbara R. Hillery	Mr. Frank Romano	

(This petition has been referred to the ***Committee on Membership Affairs**, Committee on Economic and Professional Affairs, Council Policy Committee, Society Committee on Budget and Finance, and Committee on Constitution and Bylaws.)

***Committee having primary substantive responsibility**

PRELIMINARY STATEMENT OF FINANCIAL IMPACT

The financial implications of this petition are still being assessed. The Final Statement of Financial Impact will be available per Article XVIII, Sec. 2, d, which states in part, "The Chair of the Society Committee on Budget and Finance shall prepare a financial impact statement which also shall appear in the Council agenda when action is to be taken on the petition."

PRELIMINARY REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS

The Committee on Constitution and Bylaws has reviewed the petition and finds it to be legal and not inconsistent with the Constitution of the SOCIETY. The proposed Bylaw amendment accomplishes the petitioners' goal of expanding the unemployed members' dues waiver from two to three years. We recommend changing "a waiver" to "an annual waiver" in line 3 of the Bylaw so that it is consistent with the sentence that follows. The Committee on Constitution and Bylaws concurs with the addition of reaffirming the status each year.

C&B is concerned with the assumption in the Explanation that without the waiver extension, the Society would lose those members who would benefit from the waiver extension.

Within thirty days after the Council meeting at which this petition is considered, comments and suggestions on the substance of the petition from opponents, committees, petitioners, and other interested members should be directed to the Chair of the Committee on Membership Affairs, which has primary substantive responsibility for the petition. Other comments and suggestions may be directed to the Committee on Constitution and Bylaws (bylaws@acs.org).

Dr. James C. Carver
Chair

A. Chemical Abstracts Service
(joint with Board)

The Joint Board-Council Committee on Chemical Abstracts Service (also known as CCAS) met twice in 2015 and will meet again at the Spring National Meeting in San Diego. The committee consists of members from academia, industry, and government, and continues to fulfill its charter by serving as a channel for the flow of information between CAS management, ACS members, and users of CAS products and services.

At both 2015 meetings, CAS management provided the committee with an overview of financial performance as well as product and service news. At the fall meeting in Boston, committee members learned that CAS continues furthering its leadership position in the scientific community, exemplified by the registration of the 100 millionth chemical substance in CAS REGISTRY[®], in the 50th anniversary year of the world's largest database of unique chemical substances. CAS is also transitioning to a robust solutions provider with exciting new products. Members were pleased to learn about MethodsNow[™], a new workflow solution for analytical, pharmaceutical and biotech scientists that will provide access to the largest collection ever of analytical procedures, indexed and organized by CAS, to save researchers time in the lab as well as provide advancements for researchers in commercial, government and academic organizations. This highly innovative benchtop solution features the world's largest collection of templated protocols in analytical chemistry and reaction science. MethodsNow will be offered in a "stand-alone" version and within the SciFinder experience for selected capabilities.

CAS successfully launched three new products and services in 2015 including PatentPak[™], NCI[™] Global and CHEMCATS[®]. These new offerings expanded CAS's product portfolio with an innovative workflow improvement for scientists, a solution for regulatory professionals, and a new business model for chemical suppliers whose products are promoted to hundreds of thousands of scientists around the world via SciFinder. In 2016, CAS will introduce PatentPak on STN for intellectual property professionals.

CAS databases continue to grow at record pace – a new record of more than 13.5 million new substances were added to the CAS REGISTRYSM in 2015, which now includes more than 105 million small molecules. This exceeds the prior record set in just 2014 when 13.1 million new CAS RNs were assigned. As with prior recent years, growth in 2015 was driven by prophetic substances identified in patents, chemical supplier offerings in CHEMCATS and organic growth for indexing of the literature.

CAS continued to expand its global reach, adding dedicated resources in the following seven countries: Japan, South Korea, Brazil, Mexico, Taiwan, Singapore and Australia. Expansion efforts now total 30 new team members in 11 countries, bringing direct representation to nearly 20 countries.

At each meeting, committee members held open dialogue on a range of topics including synthetic chemistry dissertations, junior college solution options and the SciFinder Future Leaders in Chemistry program as well as provided input on new products and services.

The Committee on Chemical Abstracts Service continues to fulfill its responsibilities in a purposeful manner. Committee members provide important feedback, suggestions and questions regarding CAS solutions, and welcome input from ACS members and all CAS users through the ACS Member Network. CCAS encourages you to stop by the CAS booth at the Convention Center to learn more about the numerous exciting initiatives underway at CAS.

Wendy D. Cornell, 2016 Chair
Grace Baysinger, 2015 Chair

B. Chemical Safety (joint with Board)

The Committee on Chemical Safety (CCS) provides the best possible support and resources in safety to our ACS members and the chemical enterprise. The committee is aligned with ACS Strategic Goal 3 “ACS will support reforms and initiatives that result in safer laboratory practices.” CCS’s Vision Statement is “A culture that results in all chemical practitioners working safely” and its’ mission is “To promote and advance a positive safety culture by providing authoritative resources.” To advance both its vision and mission the committee continues to seek ways to strengthen the safety culture of academic and other institutions and address ways to improve laboratory safety as well as to find ways to prevent or minimize incidents in academic institutions.

Task Force for Safety Education Guidelines (TFSEG)

As part of its strategy and efforts to help strengthen academic safety culture and provide authoritative resources for the ACS community, CCS established the Task Force for Safety Education Guidelines (TFSEG). The purpose of the TFSEG is to develop guidelines for laboratory safety education for secondary, undergraduate, and graduate education. Membership on TFSEG represents a broad base of ACS organizations, including CCS, the Society Committee for Education, the Committee for Professional Training, the Committee on Ethics, Corporation Associates, the Graduate Education Advisory Board, the Two-year College Advisory Board, the Division of Chemical Health and Safety, the Division of Chemical Education, the American Association of Chemistry Teachers, and other members representing universities and high schools. The task force consists of three working groups – representing 1) secondary schools, 2) undergraduate schools, and 3) graduate schools.

The group will be presenting two draft documents for the committee approval during its meeting in San Diego. The first document titled *ACS Safety Guidelines for Secondary School Science Education* were prepared to assist high school teachers in all science subjects to progressively increase their understanding of best practices to ensure the safety of their students and themselves in the scientific learning experience. The second document *ACS Guidelines for Safety Education in Academic Institutions* are intended to assist faculty and staff in **assessing** and **enhancing** the safety education of their students as well as to provide a framework for evaluating, modifying or establishing a laboratory safety **education** program. The overarching goal of these guidelines is to enable students to develop a deep understanding of the principles and practices of chemical **and laboratory** safety, to enable them apply these concepts when working in a laboratory, and to share them with other professionals.

Identifying and Evaluating Hazards in Research Laboratories

In 2015 CCS released final report document on *Identifying and Evaluating Hazards in Research Laboratories* in response to the Chemical Safety Board request to develop guidance identify and described methodologies to assess and control hazards in research laboratories. This guide was written for researchers without deference to the stage in their careers, undergraduate students, graduate students, postdoctoral scholars, instructors, principal investigators, and departmental chairs for implementation in a scientific research laboratory. The report presents assessment approaches that are intended to be relatively easy to implement and use. The guide can be downloaded from the CCS website at www.acs.org/safety. CCS is currently working with the ACS staff on adding the associated web tools and to explore possibilities of integrating the new tools within the existing ACS education programs.

CCS publishes a two-volume set of *Safety in Academic Chemical Laboratories* or SACL. Since the publication of the first edition of SACL, CCS has distributed more than 1 million copies. Published in 2003, the 7th Edition is currently the latest. The updated 2016 edition will include sections on safety culture, new changes in OSHA Hazard Communication Standard to reflect the use of the Globally Harmonized System (GHS), and some reorganization. The work on this new edition is being completed and release of Volume 1 of the 8th Edition of SACL is expected in the latter part of 2016.

Creating Safety Cultures in Academic Institutions

In response to highly publicized incidents, CCS published *Creating Safety Cultures in Academic Institutions: A Report of the Safety Culture Task Force of the ACS Committee on Chemical Safety* in 2012. Since the initial printing, 3000 copies of this report have been distributed at no cost to the community. The report has been reprinted and it is now available for purchase at the cost of \$10 per booklet, or may be downloaded from the CCS website at see www.acs.org/safety . This report discusses safety culture, the elements of a strong safety culture, and recommendations that could lead to strong safety cultures in academic institutions if adopted.

CCS believes these important efforts merit strong support from ACS management to demonstrate that safety is an important goal and valuable to all ACS members, and we want to thank the Society for its continued commitment to our efforts and the safety of ACS members everywhere.

Elizabeth M. Howson, Chair

C. Chemistry and Public Affairs
(joint with Board)

The Committee on Chemistry and Public Affairs (CCPA) advises and recommends ACS action on public policy matters involving the chemical sciences and technologies. I am pleased to report some of the CCPA activities undertaken to help make ACS a premier advocacy organization.

Public Policy Fellowships

For the past 40 years, the American Chemical Society has been sending chemists to Washington D.C. for an immersive experience in how the government works through the ACS Public Policy Fellowships. The purpose of the program is two-fold: to give chemists a better understanding of how government policy affects the chemical enterprise, and to inject some scientific knowledge into the policy-making process. ACS congressional fellows serve in the office of a congressional committee or personal office; science policy fellows serve in the American Chemical Society's Office of Public Affairs (OPA).

Annually, CCPA selects two congressional fellows and one science policy fellow. For the 2015-2016 public policy fellowship term, we are pleased to have two highly qualified congressional fellows: **ACS Congressional Fellow Timothy Brown** is serving in the office of Sen. Merkley (D-OR), where he works on broad energy and environmental topics including toxics regulation and agriculture (sustainability and pollinator issues). Dr. Brown holds a Ph.D. in Organometallic Chemistry from Duke University. **ACS Congressional Fellow Leah Rubin Shen** works in the office of Sen. Chris Coons (D-DE) on energy and environmental issues. Dr. Rubin Shen holds a PhD in Organic and Inorganic Electrochemistry from the University of California, Berkeley. In addition, **ACS Science Policy Fellow Stephanie DeLuca** is completing her second year working with the ACS Office of Public Affairs. Dr. DeLuca holds a PhD in Physical and Chemical Biology from Vanderbilt University.

More information about applying for the fellowships can be found at www.acs.org/policyfellows.

ACS Public Policy Statements

ACS public policy statements define the Society's advocacy agenda and provide recommendations to policymakers at the state and federal levels. Current ACS policy statements can be found at www.acs.org/policy.

In 2015, policy recommendations from multiple ACS statements were enacted into legislative language. ACS federal legislative accomplishments in 2015 include:

Appropriations – Congress reached a two-year budget agreement, providing \$80 billion of additional budget funds divided between 2016 and 2017. Appropriations for FY 2016 allowed for increases for a number of scientific agencies.

- National Science Foundation - \$7.5 billion. \$120 million increase over FY 2015.
- Department of Energy Office of Science \$5.35 billion. \$280 million increase over FY 2015.
- National Institutes of Health - \$32 billion. \$2 billion increase over 2015.
- National Institute of Standards and Technology - \$964 million. \$100 million increase over FY 2015

Chemical Regulation - In late December, the Senate took up H.R. 2576, the *TSCA Modernization Act of 2015*. The House language was struck from the bill, and replaced with an amended version of S. 697, the *Frank R. Lautenberg Chemical Safety Act*. Part of that amendment included language promoting sustainable chemistry, including interagency coordination and reauthorization of an existing sustainable chemistry program at the National Science Foundation. The legislation now moves to legislative conference.

Research and Development Tax Credit – The Research and Development (R&D) Tax Credit was made permanent, providing U.S. companies much needed certainty and greater access to one of the most valuable and pro-growth tax incentives. For each year that U.S. companies increase their domestic R&D compared to the previous fiscal year, the R&D Tax Credit allows for partial tax relief on the amount of the increased investment.

Science Education – In December, the *Elementary and Secondary Education Act* was reauthorized as the *Every Student Succeeds Act* (ESSA). There were several important provisions impacting STEM education in the new law, including the following:

- States will continue to establish and maintain math and science standards intended to ensure college and career readiness;
- Statewide assessment of student’s knowledge will continue, with science testing taking place three times between grades 3 and 12;
- States and districts will be able to obtain funding to promote high-quality instruction and leadership in STEM subjects.

ACS OPA tailored unique advocacy campaigns depending on the issue and the circumstances of each bill, mixing ACS member engagement efforts, staff work, and press communications efforts. Throughout the year, Act4Chemistry alerts were sent on each of these topics. Political engagement is a multifaceted endeavor, requiring effort and input from ACS staff in partnership with ACS members. In this way, the chemistry community plays a key role in the U.S. legislative process. More information on how to get involved can be found at www.act4chemistry.org.

Susan B. Butts, Chair

D. Chemists with Disabilities
(joint with Board)

CWD STRATEGIC PLANNING:

The Committee on Chemists with Disabilities (CWD) subgroups continue to work on 4 goals developed during the committee's 2015 strategic planning workshop.

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)

CWD developed multiple strategies to facilitate the realization of these goals.

CWD POSTER PROJECT:

CWD is developing posters of famous scientists with disabilities. To increase awareness and receptiveness to scientists with disabilities these posters are displayed in the Expo and other locations at national meetings. At the request of teachers, these posters have been made into bookmarks and posters suitable for classrooms. New posters planned for 2016 include Nobel Laureates Albert Einstein (dyslexia) and John Cornforth (deaf) and the inventor of the "gold standard" test for tuberculosis, Florence Seibert (mobility impaired).

CWD & ACS Standard Exams:

CWD has been collaborating with ACS Standard Exams to address the following issues:

- ACS Standard Exams, Practice Tests and Study Guides are not available in Braille.
- ACS Guidance to instructors advice may exclude reporting of standard exam scores of students with disabilities (reading a document in Braille requires approximately 2 to 2.5 times longer than reading a "standard" printed document)

CWD & LIGHTHOUSE FOR THE BLIND:

The Committee on Chemists with Disabilities has reached out to the Lighthouse for the Blind for assistance in identifying and applying technologies to permit indexing of audio documents. This will allow users of ACS audio documents to quickly find chapters of interest rather than having to fast forward audio files from the beginning of the file.

UNITED NATIONS CONVENTION ON THE RIGHTS OF PERSONS WITH DISABILITIES

The CWD worked with Office of Public Affairs to draft a letter of support for the Ratification of the United Nations Convention on the Rights of Persons with Disabilities. The letter was accepted by ACS as PA&PR adopted the newly proposed position as a public policy statement of the Society. We are continuing discussions with ACS OPA on how we can work together to keep pursuing congressional support for the Ratification of this Treaty. Thank you ACS!

Speaking for all members of CWD, we are proud to be members of the ACS – A society that has championed the rights and opportunities for people with disabilities a full decade before the US Government passed the ADA.

John J. Johnston, Chair

E. Community Activities
(joint with Board)

Chemists Celebrate Earth Day (CCED) will be celebrated this April with the theme, “The Great Indoors – The Home Ecosystem”. This CCED explores topics pertaining to indoor air and water quality in the home. All Local Sections are encouraged to participate through hands-on science events, local illustrated poem contests, and engage the public in a community event. Resources specific to CCED coordinators, including electronic copies of *Celebrating Chemistry*, are located at www.acs.org/earthday (Organize a CCED Event). It is important that Local Sections identify a Member as CCED coordinator.

During the San Diego National Meeting, CCA will facilitate hands-on activities during the San Diego Festival of Science and Engineering’s STEM In Your Backyard event at the Downtown Library from 1:00 – 4:00 PM on Saturday, March 12th. All are encouraged to visit the library and show support for this Presidential Event.

CCA recognizes 30 individuals from as many local sections for its 2016 Outreach Volunteers of the Year award. This recognition effort is in its fourth year and allows local sections to recognize one individual annually who has demonstrated extraordinary outreach volunteerism to their section. Each awardee will receive a certificate, a recognition gift, and will be publicized on acs.org and various ACS publications. If you have an extraordinary outreach volunteer, consider nominating them for an Outreach Volunteers of the Year award.

The theme for NCW 2016 is "Solving Mysteries Through Chemistry". The theme will focus on the solving mysteries and forensics. CCA encourages Councilors to ensure that their local section has a member appointed as coordinator for CCED and NCW. You can learn more about ACS outreach activities at www.acs.org/outreach.

Last year at the Boston National Meeting, the Committee on Community Activities (CCA), along with the local section, student members, and other volunteers presented eight tables of hands-on activities at the Boston Children’s Museum. More than 400 members of the public were reached during the 3-hour exhibit. After kids visited the activity tables, they each received a “goody bag” containing a copy of *Celebrating Chemistry*, and other products.

Also last year, National Chemistry Week (NCW) was celebrated October 18-24 with the theme “Chemistry Colors Our World! More than 90 % of Local Sections across the country participated, distributing more than 155,000 print copies of *Celebrating Chemistry*, the hands-on activity publication. The print and e-editions were available in English and Spanish.

Michael McGinnis, 2016 Chair
George Heard, 2015 Chair

F. International Activities
(joint with Board)

As the newly appointed chair, I am pleased to report that the ACS Joint Board-Council Committee on International Activities (IAC) has culminated a remarkable year of activity, notably with ACS Council and Board of Directors review and approval of new ACS International Chemical Sciences Chapters in India, Taiwan, Australia, Brazil, Nigeria, Peru, and United Arab Emirates. This brings the total of established ACS International Chapters to 16. IAC also helped facilitate the approval of 14 of the 20 current ACS International Student Chapters.

The leadership of our ACS International Chapters convened in a summit at the 2015 Pacificchem Conference to share ideas, network and develop a collective pathway forward to advance chemistry and ACS in their respective countries.

IAC volunteer members and associates worked with staff to organize and deliver five one-day workshops in Thailand on the topics of Communicating Science, Publishing Research, Grant Proposal Writing, and Career Pathways. Supported by local, on-the-ground representatives from the ACS Thailand Chapter and the Chemical Society of Thailand, we held workshops at universities in Bangkok, Khon Kaen, Chiang Mai, Hat Yai and Pathum Thani, reaching a total of 539 attendees - early career scientists, engineers and educators.

IAC oversaw the planning and delivery of ACS International Chemistry Festivals in Malaysia, Hungary, Taiwan, Colombia, Shanghai, Nigeria, Mexico and Chile. The estimated total number of participants was 8,500.

IAC welcomes our ACS Councilor colleagues to join us for a Sunday, March 13 networking reception in San Diego with ACS National Meeting attendees from throughout the world as well as other IAC events.

Saturday, March 12, 2016

1 PM – 3 PM: IAC Open Meeting, Hilton San Diego Bayfront Hotel, Room TBA

Sunday, March 13, 2016

9 AM – 4:30 PM: Going Global with International Scientific Training: An Undergraduate Perspective of International Research Experiences, Hilton San Diego Bayfront Hotel, Room Aqua 310A/B

4 PM – 5:15 PM: Networking Globally: ACS Spanish Resources, Hilton San Diego Bayfront Hotel, Room TBA

5:30 PM – 7:30 PM: IAC Welcome Reception, Hilton San Diego Bayfront Hotel, Room TBA

Tuesday, March 15, 2016

8:30 AM – 12 PM: Eli Pearce Memorial Symposium, Hilton San Diego Bayfront Hotel, Room Aqua 310A

Ellene T. Contis, 2016 Chair
H.N. Cheng, 2015 Chair

G. Minority Affairs
(joint with Board)

The Committee on Minority Affairs (CMA) will meet at the ACS National Meeting in San Diego on Sunday, March 13. CMA continues to promote its mission to advance ethnic and racial diversity and inclusion in ACS and the broader chemistry enterprise.

CMA will hold a luncheon in collaboration with the Committee on Chemistry and Public Affairs on Monday, March 14, from 11:30 am – 1:30 pm, at the Hilton San Diego Bayfront. Dr. Willie E. May, Under Secretary for Standards and Technology, U.S. Department of Commerce and Director of the National Institute of Standards and Technology, will be the keynote speaker for the event. The title of his talk is “My Incredible Journey: From the Projects in Birmingham, Alabama, to Leading the U.S. National Institute of Standards and Technology.” Tickets are available for purchase through the meeting registration process. We hope you will join us.

The CMA has partnered with the Division on Professional Relations on a half-day symposium on Monday, March 14, on “How to Foster Diversity in the Chemical Sciences: Lessons Learned and Taught from the Stories of Recipients of the Stanley Israel Award.” The symposium honors the memory of the late Dr. Stanley C. Israel, a distinguished polymer scientist, member of the ACS Board of Directors, and proponent of diversity in ACS. Eight recipients of this award will be speaking and sharing their stories, from “Diversifying the STEM professional workforce by building capacity at a two- year college on the U.S.- Mexico border” to “Taking charge of the lack of diversity in STEM from graduate school to the professoriate: Developing a national, non-profit organization.” Through this symposium, CMA hopes to build awareness of this award, which recognizes individuals and/or institutions who have advanced diversity in the chemical sciences and significantly stimulated or fostered activities that promote inclusiveness within the region. Deadlines for 2016 are March 1 for CERM, GLRM, NERM, and NORM, and July 1 for MWRM, SERMACS, SWRM, and WRM. The nomination process is detailed on the ACS website. Search “Stanley Israel Award” and you will find complete directions for nominations.

The CMA is also a co-sponsor for the PROF symposium, “Successful REU Programs”.

We invite you to visit the CMA website <http://www.chemdiversity.org/>. We have also extended our online presence to many social networks including Facebook (www.facebook.com/acs.cma), LinkedIn, and Twitter (@chemdiversity) to engage and interact. We would love for you to join the conversation.

Madeleine Jacobs, Chair

H. Nomenclature, Terminology and Symbols

Nomenclature, Terminology and Symbols (NTS) convened a task force that, after extensive evaluation and discussion, reported on the designation of the chemical technician as a job title. That evaluation revealed that the use of the term is not uniform in industry. NTS reported the results of that task force study to the chair of the Chemical Technician Activities Committee (CTA). It is likely that CTA will use that information to construct a recommendation for the delineation of job titles based on required academic credentials into the categories of *technician* and *chemist*. Addition of adjectives to the job title was recommended as a company specific designation based on past practices. NTS will continue working with CTA to resolve and finalize recommendations.

Based on the results of its recent survey of approximately 2400 ACS members, NTS is hosting a booth in the exposition at the 2016 San Diego meeting. The booth allows ACS members to interact with NTS to learn about the committee's activities and about newly discovered elements in the periodic table. Given the success of this information booth, NTS is considering similar activities at a future ACS National Exposition in conjunction with NIST or the AACT.

NTS continues to be involved in outreach to the ACS membership. This has involved potential liaison opportunities with CHED, CINF, SOCED, COMSCI, ANYL, PUBS, and NUCL. In addition, NTS has been involved in updates to the online Periodic Table Live and in submission of articles for publication in newsletters (such as the Senior Chemist's Newsletter). NTS is currently planning a workshop or symposium on nomenclature (with topics such as PIN, InChI, or RInChI systems) for the upcoming ACS fall meeting.

NST is also working to maintain a strong relationship with IUPAC. This involved recent comments on the IUPAC, Division II provisional recommendation "How to Name New Chemical Elements". NTS continues to be actively involved in evaluation and recommendations for the redefinitions of the SI units *kilogram* and *amount of substance*.

Michael D. Mosher, 2016 Chair
Albert C. Censullo, 2015 Chair

I. Professional Training
(joint with Board)

At the August 2015 and January 2016 meetings, the Committee on Professional Training (CPT) evaluated a combined total of 87 periodic reports from currently approved programs. CPT held conferences with six departments seeking ACS approval. Two new programs were approved, and two institutions were removed from the approved list. During the fall 2015 submission period, nine programs submitted pre-applications for ACS approval, and six were invited to move to the next step in the application process. The current number of colleges and universities offering ACS-approved bachelor's degree programs is 680.

The committee held a well-attended symposium on engaged student learning at the ACS national meeting. Speakers from a range of institutions discussed the mechanisms they have used to incorporate this pedagogy into their curricula. Also in Boston, CPT met with department chairs from PhD-granting institutions to discuss the new ACS Guidelines, safety training, and preparation of PhDs for professional careers. The committee also met with a group of Visiting Associates, volunteers who make site visits to programs applying for approval, to review the changes in the 2015 ACS Guidelines.

At the January meeting, the committee discussed the resources and modifications to the existing approval program that might be needed if ACS were to pursue the development of an approval process for chemistry programs located outside of the United States and its territories. The committee also began a multi-year project to improve the consistency of program reviews and document policies and decisions to improve orientation of new CPT members.

In addition to the ACS Guidelines, CPT publishes several supplements to provide programs with additional guidance on various aspects of the curriculum. The committee completed its review of eleven supplements covering student skills, program development, and expectations for excellence and curriculum rigor. These supplements were published in January, and all supplements are available on the CPT website, www.acs.org/cpt.

The final report of CPT's survey of PhD recipients was published in December 2015, as part of the fall issue of the CPT Newsletter and on the CPT website. This survey was last conducted in 1998 and complements CPT's regular surveys of graduate programs. The 9th edition of the publication, "Planning for Graduate Work in Chemistry" (now entitled "Planning for Graduate Work in the Chemical Sciences") was published in October 2015. This edition features a series of highly interactive web pages that allow users to navigate easily to the sections of the document of greatest interest and includes extensive links to ACS and external resources.

Thomas J. Wenzel, Chair

J. Publications
(joint with Board)

The Joint Board–Council Committee on Publications (JBCCP) met and discussed the following:

The monitoring reports for *Biochemistry*, *Journal of Proteome Research* and *Journal of the American Chemical Society* were presented, discussed thoroughly and accepted with thanks. Editor reappointments were reviewed and recommendations were made.

Staff presented an overview of C&EN’s significant editorial and marketing initiatives. C&EN’s Talented 12 issue highlighted 12 path-paving young researchers and entrepreneurs who are using chemistry to solve global problems. C&EN is collaborating with the Spanish organization Divulgame.org to translate a selection of content into Spanish and offer it to readers via C&EN’s website and social media channels. C&EN also created *ACS Chemoji*, a mobile keyboard app for Android and iPhone that allows users to share chemistry-themed “emojis” via text message and social media. This app was built in collaboration with ACS Publications and Chemical Abstracts Service, and will be launched at this ACS National Meeting. Marketing initiatives in support of C&EN’s advertising sales goals were summarized for the committee.

Journals Publishing staff presented the early results of a systematic survey of ACS corresponding authors. Initial responses indicate that authors choose a journal for submission on the basis of scope, impact, citations, and speed to decision. Authors are generally satisfied with the current peer review system, and rank interactions with ACS editors very highly. The committee suggested that free form comments be returned to the respective journal to inform both operational and strategic planning.

Staff will ask the Editors-in-Chief of ACS Publications to refine their respective policies of what constitutes Supporting Information with respect to both data and to references at its 2016 Conference of Editors, and to clarify such policies in published information for authors.

The committee and staff expressed their sincere appreciation to Dr. Stephanie L. Brock for her outstanding service as chair of the Joint Board–Council Committee on Publications from 2013 to 2015.

Nicole S. Sampson, 2016 Chair
Stephanie I. Brock, 2015 Chair

K. Senior Chemists
(joint with Board)

At the end of its third year, the Senior Chemists Committee (SCC) held a strategic planning retreat on December 4-5, 2015 in Washington, DC. During the retreat, a subset of SCC members reflected on a number of accomplishments made by the committee since its inception and confirmed its strategic direction – the initiatives to date have been very impactful and mindful of resource utilization. Outcomes from the retreat included a reiteration of the committee’s Vision and Mission statements; goals were established for the 2016 committee’s consideration; and champions were identified. In alignment with the Society’s vision, the SCC’s Vision statement is “Improving lives using the knowledge and experience of senior chemists.” Our Mission statement is “to address and support the needs and ambitions of senior chemists and to utilize their experience and knowledge.”

Ongoing efforts are being made to encourage the establishment of additional senior chemists groups within the Local Sections. SCC is currently reviewing the progress of the Local Sections that were approved for the SCC mini-grants in 2015. We are delighted to learn that successful senior groups/social communities have been created as a result of the 2014 grants.

The SCC is planning to establish a seniors group via the ACS Network to provide a vehicle for more communication among senior chemists, to promote activities led by the committee, and to receive and respond to inquiries.

Diversity and quality continue to be goals as SCC welcomes Dr. Margaret Leinen as the keynote speaker for its Senior Chemists Breakfast. Dr. Leinen is the Director of Scripps Institution of Oceanography (SIO) and a Vice Chancellor of the University of California, San Diego in the Geosciences Division and has research interests in paleo-oceanography, paleo-ecology and global climate change.

Thomas R. Beattie, 2016 Chair
George Heinze, 2015 Chair

L. Technician Affairs

After the Committee on Technician Affairs (CTA) met in Boston, the committee began working on the selection of the recipient of the National Chemical Technician Award. The recipient will be recognized in San Diego at a luncheon to be held at the Hilton San Diego Bayfront Hotel on Sunday, March 13, beginning at 1 PM.

The luncheon will follow CTA's official meeting, which will also be held on Sunday at the Hilton San Diego Bayfront Hotel. The meeting will begin at 8 AM, and the open meeting will begin at 12:30 PM.

The committee has also been working with the Younger Chemists Committee to solicit award nominations for a chemical technician to attend the ACS Leadership Institute in January in Dallas. The committee looks forward to developing new younger leaders in the chemical technician community and hopes to continue this award in the future.

Kara Allen, 2016 Chair
Susan Marine, 2015 Chair

M. Women Chemists
(joint with Board)

In 2016, the Women Chemists Committee (WCC) is continuing to focus on programs that promote the retention of women in the chemical enterprise, and is very pleased to announce our new Merck Research Award sponsored by Merck & Co. and administered by WCC. The award has been designed for female graduate students entering their 3rd and 4th year in the areas of Organic, Medicinal, Analytical, Computational, or Structural Chemistry and related disciplines. Up to eight women will be chosen to present their research during a full-day symposium at the Fall ACS National Meeting in Philadelphia. Through this program, WCC and Merck continue to support women in the chemical sciences.

In addition to this new award, WCC continues to administer our established awards and has selected 10 early-to-mid-career women chemists as recipients of the 5th annual WCC Rising Star Award. At the 2016 Spring ACS National Meeting in San Diego, there will be a full-day symposium on Monday, March 14th, highlighting the accomplishments of the exceptional 2016 Rising Star Award Winners. Following the symposium, WCC will host a reception to honor the awardees at “Just Cocktails,” a wonderful networking event held at each ACS National Meeting.

The Women in the Chemical Enterprise Breakfast will take place on Monday, March 14th. The breakfast will include some programming on how to promote your research/professional profile using social media and computer technology.

Looking to the future, the Awards Task Force of WCC is continuing to focus its energy on increasing the number of women nominated and eventually awarded ACS National Technical Awards. WCC is developing a webinar, “How to create a successful nomination package,” which will provide women and their mentors with information about the award process and the nomination process.

On Tuesday, March 15th, at the WCC Luncheon, ACS will honor the recipient of the 2015 Francis P. Garvan-John M. Olin Medal, Dr. Annie B. Kersting of the Lawrence Livermore National Laboratory. The recipients of the 2016 Spring WCC-Eli Lilly Travel Award will be recognized during a poster session prior to the luncheon. In addition, on Tuesday morning, there will be a WCC-sponsored symposium to celebrate the contributions of Carol A. Fierke, from the University of Michigan, Ann Arbor, who was awarded with the 2016 ACS Award for Encouraging Women into Careers in the Chemical Sciences.

WCC in collaboration with Springer, is in the process of creating the second edition of the book, “Mom the Chemistry Professor.” It promises to be a diverse collection of personal accounts and advice from chemistry professors who are mothers.

Amber Charlebois, Chair