

**DRAFT  
MINUTES  
COUNCIL**  
AMERICAN CHEMICAL SOCIETY  
March 16, 2016  
San Diego, California

The Council of the American Chemical Society met in San Diego, California, on March 16, 2016, beginning at 8:00 a.m. Donna J. Nelson, President of the Society and of the Council, presided. The following Councilors, Alternate Councilors, and accredited representatives were present:

**Ex-Officio:** John E. Adams, George M. Bodner, Bruce E. Bursten, Allison A. Campbell, William F. Carroll, Jr., Charles P. Casey, Pat N. Confalone, Thomas M. Connelly, Jr., Joseph S. Francisco, Ned D. Heindel, Rigoberto Hernandez, Catherine T. Hunt, Nancy B. Jackson, Paul W. Jagodzinski, Thomas H. Lane, Lee H. Latimer, Flint H. Lewis, Ingrid Montes, E. Ann Nalley, Donna J. Nelson, Attila E. Pavlath, Laura E. Pence, Dorothy J. Phillips, Elsa Reichmanis, Barbara A. Sawrey, Diane Grob Schmidt, Kathleen M. Schulz, Bassam Z. Shakhshiri, Edel Wasserman, Marinda Li Wu.

**Bylaw:** Lynne P. Greenblatt.

**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-Hear, Karl S. Booksh, Michelle V. Buchanan, Roland F. Hirsch. *Biochemical Technology*, Arindam Bose, Cynthia H. Collins\*, Sadettin Ozturk, Sharon P. Shoemaker. *Biological Chemistry*, Erin E. Carlson, Christine S. Chow, Thomas J. Magliery. *Business Development & Management*, Janet L. Bryant. *Carbohydrate Chemistry*, Anthony S. Serianni. *Catalysis Science and Technology*, Charles Peden. *Cellulose and Renewable Materials*, Kevin J. Edgar, Lucian A. Lucia, Scott H. Renneckar. *Chemical Education*, Renée S. Cole, Resa M. Kelly, Sally B. Mitchell, Ellen J. Yeziarski. *Chemical Health & Safety*, Robert H. Hill, Jr., Frankie K. Wood-Black. *Chemical Information*, Svetlana Korolev, Bonnie Lawlor, Andrea B. Twiss-Brooks. *Chemical Toxicology*, Penny Beuning. *Chemistry & The Law*, James C. Carver, Alan M. Ehrlich. *Colloid & Surface Chemistry*, Jennifer A. Hollingsworth, John N. Russell, Jr.\*, Maria M. Santore. *Computers in Chemistry*, Luke E.K. Achenie\*, Christine M. Aikens, Emilio X. Esposito. *Energy & Fuels*, Joe D. Allison, Phillip F. Britt\*, 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*, James D. Kubicki. *History of Chemistry*, Roger A. Egolf, Mary Virginia Orna. *Industrial & Engineering Chemistry*, Spiro D. Alexandratos, Mary K. Engelman, Leigh R. Martin\*, Melanie J. Moser. *Inorganic Chemistry*, Debbie C. Crans, Thomas R. Cundari, Marina A. Petrukhina, Silvia Ronco. *Medicinal Chemistry*, Jane V. Aldrich, William J. Greenlee, Carrie Haskell-Luevano\*, Amy S. Ripka. *Nuclear Chemistry & Technology*, Silvia S. Jurisson, Graham F. Peaslee. *Organic Chemistry*, Huw M.L. Davies, Paul R. Hanson\*, Robert E. Maleczka, Jr.\*, Cynthia A. Maryanoff. *Physical Chemistry*, Teresa L. Head-Gordon, Kirk A. Peterson, Ellen B. Stechel, 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, Michael Jaffe\*, Theodore Provder\*. *Professional Relations*, R. Daniel Libby. *Rubber*, John M. Long. *Small Chemical Businesses*, Joseph E. Sabol.

**Local Sections:** *Akron*, James E. Duddey, Daryl L. Stein. *Alabama*, Tracy P. Hamilton. *Ames*, Javier Vela-Becerra. *Auburn*, John D. Gorden\*\*. *Baton Rouge*, Bryan K. Franklin. *Binghamton*, Wayne E. Jones. *Brazosport*, Carolyn Ribes. *California*, G. Bryan Balazs, Mark D. Frishberg, Sheila Kanodia, Stephanie M. Malone, Eileen M. Nottoli, James M. Postma\*, Paul F. Vartanian, Elaine S. Yamaguchi. *California Los Padres*,

\*Alternate Councilor

\*\*Temporary Substitute Councilor

Albert C. Censullo. *Carolina-Piedmont*, Matthew K. Chan, Daniel Rabinovich. *Central Arizona*, Richard C. Bauer. *Central Arkansas*, Martin D. Perry. *Central Massachusetts*, Meledath Govindan. *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*, Debra A. Feakes. *Central Utah*, Jennifer B. Nielson. *Central Wisconsin*, C. Marvin Lang. *Chattanooga*, Verrill M. Norwood, III. *Chemical Society of Washington*, Allison Aldridge, Christopher W. Avery, David J. Carrillo\*, Regina J. Cody, Monika I. Konaklieva, John M. Malin, Kim M. Morehouse, Jason E. Schaff, Stefanie S. Wittenberg. *Chicago*, Charles E. Cannon, David S. Crumrine, Russell W. Johnson, Michael G. Koehler, Fran K. Kravitz, Margaret S. Levenberg, Milt Levenberg, Inessa Miller, Barbara E. Moriarty, Susan M. Shih. *Cincinnati*, Bruce S. Ault, Kathleen Gibboney, Richard J. Mullins. *Cleveland*, Dwight W. Chasar, Michael J. Kenney\*. *Colorado*, Susan MacGregor Batenhorst, Lawrence J. Berliner, Sandra J. Bonetti, Connie Gabel, Ryan M. Richards, Susan M. Schelble. *Columbus*, Edmund T. King, Donald C. Songstad\*, Virginia H. Songstad. *Connecticut Valley*, Ronald D. Archer, Kevin R. Kittilstved, Julianne M.D. Smist, Frank J. Torre. *Cornell*, Thomas A. McCarrick. *Corning*, Roger F. Bartholomew. *Dallas-Fort Worth*, Mary Anderson, Jason L. McAfee, Linda D. Schultz, E. Thomas Strom. *Dayton*, Steven Trohalaki. *Decatur-Springfield*, Harry J. Elston. *Delaware*, John Gavenonis, Tiffany N. Hoerter, Martha G. Hollomon, Margaret J. Schooler. *Detroit*, Mark A. Benvenuto, James M. Landis, Jr., Anthony F. Sky. *East Central Illinois*, Amy Nicely. *East Tennessee*, Arlene A. Garrison\*, 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*, Heather L. Abbott-Lyon, Holly L. Davis\*, Lissa Dulany, Donald G. Hicks\*, Terence E. Say. *Greater Houston*, Simon G. Bott, Amber S. Hinkle, Valerie Lafitte, Thomas B. Malloy\*, 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 M. Ferrence. *Illinois-Iowa*, Richard G. Rogers. *Indiana*, Christina Bodurow, Beth Lorschach, Brian M. Mathes, Robert A. Pribush. *Indiana-Kentucky Border*, Jeannie T.B. Collins\*. *Inland Northwest*, Jeffrey A. Rahn. *Kalamazoo*, Lydia E.M. Hines. *Kansas City*, Gary E. Clapp\*, William G. Gutheil. *Kentucky Lake*, Charles M. Baldwin. *Lake Superior*, Donald K. Harriss. *Lehigh Valley*, Jeanne R. Berk, Lorena Tribe. *Lexington*, Mark Blankenbuehler. *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*, Susanne M. Lewis\*. *Middle Georgia*, Robert J. Hargrove. *Mid-Hudson*, George W. Ruger. *Midland*, Tina M. Leaym, Dale J. LeCaptain. *Milwaukee*, Kevin W. Glaeske, Joseph J. Piatt. *Minnesota*, Marilyn Duerst, Lynn G. Hartshorn, Sarah M. Mullins, Danae R. Quirk Dorr, Wayne C. Wolsey. *Mississippi*, David H. Magers\*\*. *Mobile*, W. Matthew 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*, Gerald J. Putterman, Kap-Sun Yeung. *New York*, Donald D. Clarke\*, Ronald P. D'Amelia, Barbara R. Hillery, Neil D. Jespersen, Hiroko I. Karan, Joan A. Laredo-Liddell\*, Patricia A. Redden, Frank Romano, Justyna Widera. *North Carolina*, James L. Chao, Alvin L. Crumbliss, Alexandra B. Ormond\*, Melissa A. Pasquinelli, Laura S. Sremaniak. *North Jersey*, Amy M. Balija, Jeannette E. Brown, Alan B. Cooper, Jacqueline A. Erickson, Stan S. Hall, Elizabeth M. Howson, Diane Krone, Cecilia E. Marzabadi\*, Les W. McQuire, William H. Suits. *Northeast Georgia*, Susan D. Richardson. *Northeast Tennessee*, John Engelman, II. *Northeast Wisconsin*, Martin D. Rudd. *Northeastern*, Michaeline F. Chen, Mukund S. Chorghade\*, Catherine E. Costello, Michael P. Filosa, Patrick M. Gordon\*, Morton Z. Hoffman, Jerry P. Jasinski\*, Katherine L. Lee, Doris I. Lewis, Patricia A. Mabrouk, S. B. Rajur\*, Mary Jane Shultz, Michael Singer, Sonja Strah-Pleyne\*, Ruth E. Tanner. *Northeastern Ohio*, Sarah S. Preston. *Northern Oklahoma*, Keith J. Stanger\*\*. *Northern West Virginia*, Edwin L. Kugler\*. *Northwest Central Ohio*, Hafed A. Bascal\*. *Northwest Louisiana*, Brian A. Salvatore. *Oklahoma*, Allen W. Apblett. *Ole Miss*, Jason E. Ritchie. *Omaha*, Richard B. Lomneth. *Orange County*, Robert S. Cohen, Rabin D. Lai, Sanda P. Sun. *Oregon*, Richard L. Nafshun. *Orlando*, Darlene K. Slattery. *Ouachita Valley*, Danny E. Hubbard. *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 Arbuckle-Keil, Deborah H. Cook, Ella L. Davis, Anne S. DeMasi, Rick Ewing, Mark A. Forman, Kathryn A. Lysko, Margaret A. Matthews\*, James K. Murray, Jr., John Tierney. **Pittsburgh**, Richard S. Danchik, Joseph D. Jolson\*, Robert Mathers, Vincent M. Mautino. **Portland**, Angela Hoffman, Marcie J. Merritt. **Princeton**, Allen N. Jones, Louise M. Lawter. **Puerto Rico**, Néstor M. Carballeira, Jorge L. Colón\*, Agnes Costa Diaz, Orlando J. Morales-Martinez\*. **Puget Sound**, Gary D. Christian, Gregory L. Milligan, Despina Strong, Mark Wicholas. **Purdue**, Adam C. Myers\*\*. **Red River Valley**, Harmon B. Abrahamson. **Rhode Island**, Peter J. Bonk. **Richland**, Richard A. Hermens. **Rio Grande Valley**, Keith Pannell. **Rochester**, D. Richard Cobb, Todd E. Pagano. **Rock River**, Dennis N. Kevill. **Sabine-Neches**, John A. Whittle. **Sacramento**, Mariela de la Paz Carpio-Obeso\*, Janice Frias\*. **St. Louis**, Lisa M. Balbes, Lawrence Barton, Donna G. Friedman, Theodore C. Gast. **Salt Lake**, 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 Geronio**, Eileen M. DiMauro, J. Ernest Simpson. **San Joaquin Valley**, Melissa L. Golden. **Santa Clara Valley**, Linda S. Brunauer, Matthew J. Greaney\*, George J. Lechner, Sally B. Peters, Peter F. Rusch, Herbert B. Silber, Ean Warren. **Savannah River**, Christopher J. Bannochie. **Sierra Nevada**, Laina M. Geary. **Sioux Valley**, Jetty L. Duffy-Matzner. **Snake River**, Don L. Warner. **South Carolina**, William H. Breazeale, Jr., Scott R. Goode. **South Florida**, Milagros Delgado, George H. Fisher, Zaida C. Morales-Martinez. **South Jersey**, Jennifer L. McCulley. **South Plains**, Bill Poirier. **South Texas**, Ludivina Avila. **Southeastern Pennsylvania**, Gregory P. Foy. **Southern Arizona**, Steven L. Brown. **Southern California**, Brian B. Brady, Robert M. de Groot, Veronica I. Jaramillo\*, Virgil J. Lee, Eleanor D. Siebert, Barbara P. Sitzman. **Southern Illinois**, Yin Yee Choo\*. **Southern Indiana**, Kenneth G. Caulton. **Southern Nevada**, Amber Howerton\*. **Southwest Georgia**, Donna Gosnell\*\*. **Susquehanna Valley**, Dee Ann Casteel. **Tampa Bay**, Fred L. Metz\*, Sidney S. White, Jr.\*. **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**, Joseph M. Crockett\*, Ann M. Sullivan, Linette M. Watkins. **Virginia Blue Ridge**, W. Gary Hollis, Jr. **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 Farber, L. Kraig Steffen. **Western Maryland**, Peggy S. Biser. **Western Michigan**, Mark A. Thomson. **Western New York**, Peter M. Schaber. **Wichita**, D. Paul Rillema. **Wichita Falls-Duncan**, Keith R. Vitense. **Wisconsin**, Martha L. Casey, Ieva L. Reich. **Wyoming**, Jane V. Thomas.

**Nonvoting Councilors:** Kara M. Allen, Elizabeth P. Beckham, Brian A. Bernstein, Susan B. Butts, Mark C. Cesa, Amber F. Charlebois, Brian D. Crawford, Denise L. Creech, Peter K. Dorhout, Thomas R. Gilbert, Alicia E. Harris, Madeleine Jacobs, John C. Katz, Mary M. Kirchhoff, Steven R. Meyers, Bradley Moore, Christi Pearson, Barbara F. Polansky, Greg Robinson, Max B. Saffell, David T. Smorodin, Simanco R. Staley, Frank E. Walworth, Linda Wang, Marleen G. Weidner, Thomas J. Wenzel.

The preceding list of attendees at the Council meeting includes the following: 30 Ex- Officio Councilors; 1 Bylaw Councilor; 86 Division Councilors (76 elected, 10 alternate); 334 Local Section Councilors (294 elected, 35 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 Council Policy Committee (CPC) Vice-Chair Alan M. Ehrlich:

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

- Dr. John T. Yates, Professor of Chemistry, University of Virginia, and Councilor for the Physical Chemistry Division from 2005 to 2007.
- Professor Paul Barkan, Emeritus Professor of Chemistry, Westchester Community College, and Councilor for the New York Section from 1997 to 1999.
- Dr. Theodore M. Brown, Emeritus Professor of Chemistry, Arizona State University, and Councilor for the Central Arizona Section from 1980 to 2009.

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

#### Approval of Minutes

2. VOTED to approve, as distributed, the minutes of the meeting of August 19, 2015.

#### Report of Interim Action, Council Policy Committee

3. VOTED to receive the report of an interim action from the Council Policy Committee (CPC).

#### Nominations and Elections

**D. Richard Cobb**, chair, Committee on Nominations and Elections (N&E), in accordance with the provisions of Bylaw III, Sec. 3, b, (1), (b), presented the following nominees for selection as candidates for President-Elect 2017: Peter K. Dorhout, Thomas R. Gilbert, C. Bradley Moore, and Gregory H. Robinson.

4. After each nominee spoke to Council, the Council selected by electronic ballot Peter K. Dorhout and Thomas R. Gilbert as candidates for President-Elect 2017.

Mr. Cobb introduced the candidates for the Board of Directors, chosen by voting Councilors in District II and District IV for the election to be conducted this fall for the term 2017-2019: District II, George M. Bodner and Christina C. Bodurow; and District IV, Rigoberto Hernandez and Larry K. Krannich.

Mr. Cobb then announced the following candidates for Director-at-Large on the Board of Directors: Joseph A. Heppert, Kristin Omberg, Dorothy J. Phillips, and Kathleen M. Schulz. The two successful candidates will fill 2017-2019 terms.

#### Reports of Society Officers

**President Donna Nelson** announced that community building within ACS is a major theme of her three-year term, and her report focused on panel discussions and poster sessions in San Diego designed to build community within our 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. In a break with tradition, ACS members were invited to submit papers to presidential poster sessions corresponding to the three topics and will interact with authors and other attendees during poster sessions Sunday evening and Monday during Sci-Mix.

Additional Presidential programming that addresses the concerns of ACS members is being planned for the ACS National Meeting in Philadelphia. The topics selected are: "Safety and Ethics in Our Chemical Community: Controlling science, by and for all scientists;" "Standing up for science: Difficult discussions about jobs;" and "Fracking: Economics vs environment."

**President-Elect Allison A. Campbell** stated she is deeply honored to stand before Council as President-Elect. The first quarter of 2016 has been a busy and educational time, and she was able to participate in Board and Committee activities; meet monthly with ACS Staff, participate in the ACS Leadership Institute, and talk directly with members.

Though just getting started, she reported that the topical areas, special projects, and targeted Presidential symposia are taking shape. The three themes of Science Advocacy; Science Literacy; and Chemistry as a Global Enterprise will guide her term and corresponding initiatives. Her Presidential symposia will be heavily scientifically focused and highlight the accomplishments of members while demonstrating how we are “Improving people’s lives through the transforming power of chemistry.” Topics under consideration include: “Energy for a Low Carbon Future: Grand Challenges for Chemistry” and “The Chemistry of our Earth: Mitigating Environmental Impacts.” These symposia will bring together both early career and nationally renowned scientists to highlight the new science that is being done to address these complex issues.

**Immediate Past President Diane Grob Schmidt** reported that it continues to be an honor to serve her professional society as Immediate Past President; and she has enjoyed every moment of her time in the Presidential Succession.

Continuing on her theme of addressing Grand Challenges, she sponsored a symposium on energy, programmed through the Division of Energy and Fuels at this meeting, titled, “Research Opportunities for Future Energy Technologies.” The keynote address was given by Dr. Lynn Orr, U.S. Under Secretary for Science and Energy, Department of Energy. He was followed by speakers from industry, academia, and national laboratories, who discussed groundbreaking technology in energy storage, new materials, and additive manufacturing..

At the Philadelphia fall national meeting, Dr. Schmidt will assist with organizing two symposia: one honoring the legacy of former ACS President and Board Chair Ernest L. Eliel, and the other focusing on another inspired Grand Challenge: the nexus of nanoscience, neuroscience, and big data, with emphasis on chemistry and the contributions of chemists. She will also be working with Drs. Paul Weiss and Anne Andrews, and the Kavli Foundation to organize a symposium on the BRAIN Initiative, a challenge championed by President Obama. The symposium will bring together researchers focused on the elements required to explore the human brain in real time.

She concluded her report by expressing gratitude for the hospitality extended by the many local sections she has visited, and for the support received from so many Divisions through co-sponsorships of various symposia.

**Board Chair Pat N. Confalone** briefed the Council on the issues discussed and actions taken at the ACS Board of Directors Meeting, conducted on Friday and Saturday, March 11-12. The Board is committed to continuously improving its effectiveness in the service of ACS, both as individual board members, and as a collective body. Board discussions included a careful consideration of Board development activities, including topics for a facilitated retreat in June; how to strengthen the process used for the discussion of key strategic issues; as well how to streamline and simplify various activities of the Board.

The Board received input and discussed reports from several of its committees; was briefed on the current and planned activities of the Presidential Succession; and received a report from Executive Director and CEO Thomas M. Connelly, Jr. on the state of the ACS, membership activities, and new programs.

On the recommendation of the Committee on Grants and Awards (G&A), the Board voted to approve an endowment to support the E. Bright Wilson Award in Spectroscopy; and to approve language to be included in the guiding documents for the National Awards and Fellows Program to allow for the rescission of national awards and ACS Fellows designations where reasonable grounds exist.

The Board received an extensive briefing and approved several recommendations from its Committee on Executive Compensation.

On the recommendation of the Joint Board-Council Committee on Publications (PUBS), the Board voted to approve reappointments of two Editors-in-Chief for ACS journals.

Lastly, Dr. Confalone directed Council's attention to the small wallet cards, "2016 ACS Strategic Plan and Beyond," which were placed on the Councilors' chairs. This handout includes the vision and mission of the Society and details ACS's core values and goals.

**Executive Director & CEO Thomas M. Connelly, Jr.** began by stating he has just completed his first year as Executive Director and CEO, and thanked the members of Council, and the entire membership, for the warm welcome that he has received.

Dr. Connelly then reported on several notable highlights from 2015. CAS enjoyed its strongest revenue growth in several years, up 3.3 % on a constant-currency basis. New products including CHEMCATS®, NCI™ Global and PatentPak™ contributed significantly to growth revenue. CAS also launched its new branding in January.

Last year was also an important year for ACS Publications' participation in Open Access publishing, with the successful launch of *ACS Central Science*, ACS' first completely open access journal. *ACS Omega*, an open-access mega-journal will begin publication this summer. C&EN unveiled a vibrant new look as part of an updated approach to our print and on-line presence.

Dr. Connelly reported that membership efforts in 2015 finished strongly, but overall membership dropped to slightly less than 157,000. Our international membership was a bright spot, growing by more than a thousand members, now representing 17 % of the total.

The American Association of Chemistry Teachers (AACT) has grown its membership to more than 3,300 since launching in August 2014. Two Dow-AACT teacher summits will be held this summer, and the Biennial Conference on Chemical Education will include an AACT track during this year's conference.

In 2015, ACS received new gifts and pledges totaling \$4.6 million, exceeding the annual fundraising goal of \$3.25 million. Significant contributions included Teva's \$900,000 pledge to the Teva Scholars Program, and Procter & Gamble's substantial pledge to ACS Scholars. Genentech, Gilead, Merck, Pfizer, and five generous ACS members each committed more than \$100,000 to endow named scholarships.

The Office of Public Affairs staff, joined by governance leaders, had considerable success in 2015 in advancing ACS's Legislative Priorities on Capitol Hill. Congress passed important legislation relating to science education and sustainable chemistry, made the R&D tax credit permanent, and created a Congressional Chemistry Caucus.

Dr. Connelly reminded Council that all of the activities mentioned in this report are made possible by continuing strong financial performance. The Society generated a positive net contribution again in 2015. Unrestricted reserves also increased, protecting the Society against future economic uncertainty.

He concluded by encouraging Councilors to visit [www.acs.org/acshighlights2015](http://www.acs.org/acshighlights2015) for additional highlights of ACS Achievements.

Reports of Elected Committees

Council Policy Committee (CPC)

**Alan M. Ehrlich**, committee vice-chair, reported that CPC remains quite active between meetings through its subcommittees and task forces, and informed Council about changes in CPC's membership since the Boston meeting.

The Subcommittee on Long-Range Planning (LRP) continues to manage the orientation program for new Councilors through its New Councilor Webinar, the New Councilor Orientation, the mentoring program, and provision of significant amounts of electronic and written information to new Councilors. LRP continues to focus on improving training opportunities for new and potential ACS leaders. Additional Councilors as mentors continue to be sought.

LRP was asked to review the way Local Sections and Divisions are currently represented on Council – more specifically, to consider the overall size of the Council and the perception that Council continues to increase in size. LRP fulfilled its charge and presented recommendations for CPC's consideration. The report concluded that important issues and questions still remain, such as the role of international members, whether there should be a cap on the number of Councilors per Local Section and Division, and what will make Council more effective in the governance of the Society. CPC requested that LRP seek representatives from the committees on Divisional Activities (DAC), on International Activities (IAC), and on Local Section Activities (LSAC) and review these issues.

Dr. Ehrlich announced that CPC has approved scheduling of a Special Discussion Item for this meeting at the request of ACS President Donna Nelson – “Gathering Input: ACS Presidential Task Force on the U.S. Employment of Chemists.” Additionally, CPC concurred in the proposed raise in Member dues, and in the proposed revisions to the “Academic Professional Guidelines” from the Committee on Economic and Professional Affairs (CEPA).

CPC is interested in assessing Councilors' needs for assistive technologies at Council. A brief survey on CPC's behalf was then conducted at Council by Mr. Cobb.

Committee on Committees (ConC)

**Wayne Jones**, committee chair, reported that ConC conducted its annual New Chairs Training Session in January, 2016, as part of the ACS Leadership Institute; ConC is developing its recommendations for 2017 committee chairs, members, associates, and consultant appointments for consideration by the President-Elect and Chair of the Board. The committee also participated in an orientation session that was held this past Saturday for new Councilors; new Councilors were then asked to stand and be recognized.

ConC will be conducting a voluntary and confidential diversity survey of committee chairs, associates, members, and consultants from Council-related committees. The committee will use the data to learn about the makeup of committee volunteers and to guide future diversity efforts. ConC is also making available a presentation entitled “Diversifying ACS Committees” to continue a dialog with local sections and divisions about diversity within committees. Councilors can download a copy to share with their sections or divisions at [www.acs.org/conc](http://www.acs.org/conc), click on “Committee Information.”

Councilors were reminded to complete their online preference forms for 2017 during the period March 28 – June 10, 2016, at [www.yellowbook.acs.org](http://www.yellowbook.acs.org).

Nominations and Elections (N&E)

**D. Richard Cobb**, committee chair, reported the results of the morning's elections for President-Elect 2017 (see item 4, above). All candidates, including the two elected by Council and any other petition candidates certified by the July 15 deadline, will be placed on the ballot this fall.

N&E has reviewed the distribution of members within the six electoral districts to assure that the districts have equitable representation; that is, the year-end member count of each electoral district must be within 10% of the average number of members residing in each district. The December 31, 2015 year-end report was in compliance and no changes are required in the ACS election district boundaries.

N&E continues to consider improvements to the election process to more effectively serve nominees, candidates, and the Society as a whole. The committee has established a Vote 20/20 Task Force, charged with examining all aspects of nominations and elections for ACS national offices, and designing a viable process to be in place by the year 2020. The ultimate goal is an effective and equitable process for calling forth all those willing to stand for office and serve the Society. Representatives from N&E and other ACS committees have been invited to serve. The committee welcomes ideas from all members as to how nominations and elections should be handled, and comments can be sent to [vote2020@acs.org](mailto:vote2020@acs.org).

The committee developed slates of potential candidates for CPC and ConC for the 2017-2019 term. The names of the candidates will appear in the Philadelphia fall Council agenda.

Reports of Society Committees and the Committee on Science

Budget and Finance (B&F)

**Kristen M. Omberg**, committee chair, reported that for 2015, ACS generated a net from operations of \$16.6 million, which was \$3.2 million favorable to budget. Total revenues were \$511.7 million, essentially on budget. Expenses ended the year at \$495.1 million, which was \$3.1 million or 0.6% favorable to budget. This variance was attributable to a continued emphasis on expense management across the Society. In addition, the Society's financial position strengthened in 2015, with unrestricted net assets, or reserves, increasing from \$144.7 million at December 31, 2014 to \$163.3 million at year-end 2015.

Dr. Omberg presented information on the 2017 fully escalated dues calculation and a comparison of ACS dues amounts with those of other scientific societies; ACS falls in the middle in terms of cost and likely will remain there in 2017. The committee voted to recommend to Council that member dues for 2017 be set at the fully escalated rate.

5. VOTED, on the recommendation of the Committee on Budget and Finance, with the concurrence of the Council Policy Committee, to set member dues for 2017 at the fully escalated rate of \$166.

Education (SOCED)

**Diane Krone**, committee chair, reported that SOCED has formed a working group to review and propose changes to the ACS Science Education Policy Statement, which expires at the end of the year. The committee also identified members to work with the Committee on International Activities in revising the ACS Visa Policy Statement.

SOCED approved a motion to seek external funding for a workshop on General Chemistry Performance Expectations, part of a multi-year effort to specify a process for the creation of performance expectations in general chemistry.



The American Association of Chemistry Teachers (AACT) now has more than 3,300 members, 88% of whom are K-12 teachers. The AACT online resource library now contains more than 330 lesson plans, laboratory experiments, activities, and demonstrations.

The committee encouraged Councilors to view ChemIDP (<https://chemidp.acs.org>) – a new online Individual Development Plan tool designed to assist graduate students and postdoctoral scholars with career planning and preparation.

### Science (ComSci)

**Mark C. Cesa**, committee chair, reported that ComSci remains focused on three areas: increasing understanding of emerging frontiers in science, developing public policies to advance science in society, and nominating eminent chemical scientists and engineers for prestigious external awards.

The committee organized a forum in San Diego where experts from academic, industrial and government laboratories shared their perspectives on key challenges in the computational design of advanced materials. This was the third forum on this topic, all of which generated content that we plan to distribute widely. The second forum was held last August in Boston, where ComSci organized a successful roundtable with division, journal and industry leaders. Several valuable recommendations were generated. ComSci recently prepared a paper based on the first forum last March, which focused on advanced materials for solar energy and will be published soon.

ComSci is also working to help inform policymakers and ACS membership on strengthening forensic science. The committee led an effort to develop the Society's first policy statement on this issue in 2013, and will enhance and update the statement this summer for Board consideration. In addition, there will be a symposium on this issue at the national meeting in August in Philadelphia.

### Special Discussion Item

The Council engaged in a special discussion to gather input for the ACS Presidential Task Force on the U.S. Employment of Chemists. In her introductory remarks, Dr. Nelson stated that she assembled a task force on employment in the chemical sciences last year. The task force is examining and considering all known influences that can impact employment in the chemical sciences. One goal is to hear opinions from everyone, and the task force seeks the input of all Councilors.

The task force was charged to address the following:

- 1) Factors that determine balance between supply and demand.
- 2) Employment situation for technicians.
- 3) Benefits and handicaps of possible certification, licensing, and registration of chemical professionals.
- 4) Do we prepare our graduates for the jobs offered by industry?
- 5) What are the opportunities to help young graduates and mid-career chemical professionals find employment?
- 6) Are minorities adequately represented in the chemical workforce? What is needed to get them in the pipeline?
- 7) Global factors influencing employment situation for US chemical professionals: Effect of outsourcing and immigration.

She invited Councilors to share their thoughts on the specific areas listed, or to add to the list. Following the presentation, nearly 30 Councilors offered comments or made suggestions. Dr. Nelson concluded the discussion by thanking the Council and said a summary would be sent to the task force.

### Reports of Standing Committees

#### Local Section Activities (LSAC)

**Martin D. Rudd**, committee chair, recognized the following local sections for their anniversaries in 2016: 25<sup>th</sup> – Orlando and South Florida; 50<sup>th</sup> – South Central Missouri; 75<sup>th</sup> – Binghamton, San Diego, and Southeastern Pennsylvania; and, for their 125<sup>th</sup> – the New York and Rhode Island local sections.

Local Section annual reports for 2015 have been completed by 148 of 185 sections. Local sections reported a total of 1,511 events that were completed in 2015, as well as 159 ChemLuminary nominations.

LSAC awarded 19 Innovative Program Grants totaling \$39,930, and continues to offer grants for local sections to host a Leadership Development System course or Strategic Planning Retreat in the fall of 2016 or spring 2017.

The committee voted to approve a petition to amend the ACS Bylaws related to the rights of affiliates.

Councilors were encouraged to celebrate this year's Chemists Celebrate Earth Day theme: "The Great Indoors: Your Home's Ecosystem" on April 22.

#### Membership Affairs (MAC)

**James M. Landis**, committee chair, reported that MAC continues to focus on new efforts to recruit and retain members. As of December 31, the ACS membership was nearly 157,000, which is 0.96 % less than on the same date in 2014. The number of new members who joined in 2015 is 25,000. The Society's overall retention rate is 84%. The number of international members has increased to 26,022. That number is 965 higher than in December of 2014. The international growth rate is 3.85%.

Two of the early market data collection tests to increase member recruitment and retention are due to expire in 2016. MAC has submitted a petition for consideration at this meeting to permanently extend the unemployed members' dues waiver benefit period from two years to three years at the Philadelphia meeting, the committee will request that Council authorize the three-year extension of this test. The committee also favors the continuation of commission payments to ACS International Chemical Sciences Chapters for the recruitment of new members.

Based on successful testing in India, MAC has approved testing to collect data on the adjustment of ACS dues prices in other countries where ACS has International Chapters. The committee also approved a test to allow the Marketing Staff to discount dues by a percentage or dollar amount based on industry best practices as part of promotional offers for annual or multiyear dues packages.

#### Economic and Professional Affairs (CEPA)

**William (Rick) Ewing**, committee chair, reported that data from the 2015 ACS ChemCensus reveal that domestic unemployment among ACS member chemists edged slightly upwards in the last year from 2.9% to 3.1%. This is below the U.S. unemployment rate of 5.5%. As reported by the ACS new graduate survey report which is still being finalized, more concerning is the continued high unemployment rate for new graduates, with an uptick to 13%.

The ACS Career Fair and the Virtual Career Fair at this meeting had 739 job seekers, 30 employers, and 106 positions; with 217 mock interviews and 360 resume reviews.

CEPA has revised *The Chemical Professional's Code of Conduct*, as found in the Council agenda. Councilors were asked to submit comments and revisions to careers@acs.org before April 30 in preparation for possible action in Philadelphia.

Dr. Ewing then drew Council's attention to the *Academic Professional Guidelines* in the agenda book, which was presented for consideration in Boston and is ready for action at this meeting. He reported that a friendly amendment to the section regarding physical facilities has been offered by CPC.

6. VOTED, on the recommendation of the Committee on Economic and Professional Affairs, to amend Section B., 6. of the *Academic and Professional Guidelines* as follows:

**B. Responsibilities to Students**

6. Physical Facilities. The department should ~~maintain~~ work with the administration to ensure maintenance of its building(s) and equipment holdings in the highest quality condition possible. Building use policies and equipment contained therein should be updated regularly.

7. VOTED, on the recommendation of the Committee on Economic and Professional Affairs, with the concurrence of the Council Policy Committee and subject to approval by the Board of Directors, to approve the amended document, *Academic and Professional Guidelines*.

Meetings and Expositions (M&E)

**John Pochan**, committee chair, reported that more than 12,000 papers were accepted for the 251<sup>st</sup> National Meeting in San Diego. The total attendance to date for this meeting is 15,791. The Exposition had 416 booths with 273 exhibiting companies.

ACS continues to lead the meeting industry in green chemistry efforts and has been named as 1 of 5 finalists for the 2016 UFI Sustainable Development Award, which is the premier entity representing the exhibition industry.

As part of M&E's comprehensive sustainability plan, print copies of the program book for San Diego were significantly reduced and a limited number were available for sale. Statistics show that 1,845 program books were sold, as most members are choosing to use the online program or the download the Mobile APP, which has received 8,817 transfers for this nation meeting.

In compliance with the National Meeting Long Range Financial Plan and the recommendations of the 2015 Task Force on Implementing National Meeting Financial Targets, M&E will recommend to the Board that the Early Member Registration Fee for the 2017 national meetings be \$440.

Divisional Activities (DAC)

**Rodney M. Bennett**, committee chair, reported that DAC will hold a strategic planning retreat in June to plot a course on how best to serve divisions and the Society over the next 3-5 years.

The committee has established two top programmatic priorities for 2016. The first one focuses on division membership chairs, and providing them with more tools, training, and guidance on how to recruit and retain division members. A second DAC priority centers on developing and launching a pilot program with several divisions to help them integrate an ongoing business planning component into their operations.

DAC voted to approve a petition to amend the Bylaws to permit greater flexibility with respect to rights granted to division and local section affiliates.

DAC voted to fund 12 Innovative Project Grants (IPG) totaling \$68,980. The committee will consider another set of IPG proposals during the Philadelphia meeting.

### Constitution and Bylaws (C&B)

**James C. Carver**, committee chair, reported that last year C&B certified a record 29 bylaws. Since the beginning of this year, C&B has certified five bylaws. Since the 2014 fall meeting in Boston, C&B has reviewed bylaws for 13 local sections and one section group.

Councilors were reminded that certified bylaws and status reports are posted for referral on ACS's website at [www.acs.org/bulletin5](http://www.acs.org/bulletin5).

New petitions to amend the Constitution or Bylaws must be received by the Executive Director no later than May 4 to be included in the Council agenda for consideration at the fall 2016 meeting in Philadelphia. Petitioners are encouraged to send any draft petition to C&B at least a month before the deadline for initial input.

### Reports of Other and Joint Board-Council Committees

#### Chemistry and Public Affairs (CCPA)

**Susan B. Butts**, committee chair, reported that CCPA works to motivate and inspire ACS member participation in government affairs at both the federal and state levels, encouraging members to visit policymakers in Washington and their home districts, and to contact their legislators through the Act4Chemistry Legislative Action Network.

She shared one example of the power of ACS member engagement: working through the ACS Office of Public Affairs with Rep. John Moolenaar (R-Midland) to create the Congressional Chemistry Caucus. The mission of the caucus is to educate Members of Congress, their staff, and the public on the benefits of chemistry in today's society and its economic impact on our country. The caucus will be bipartisan and, although the focus right now is on getting it firmly established in the House, eventually it will be bicameral.

Congressman Moolenaar, a Republican, is partnering with Congressman Daniel Lipinski, a Democrat from Illinois, as the Caucus founders. The kick-off event in late April will be hosted by ACS, the American Chemistry Council (ACC), and the National Association of Chemical Distributors (NACD). Confirmed speakers include Congressmen Moolenaar and Lipinski, as well as Thomas Connelly, Cal Dooley, who heads ACC, and Eric Byer, CEO of the NACD.

CCPA will work with OPA to recruit ACS members in key congressional districts to ask their House members to join the caucus. The committee urges all ACS Councilors to encourage their members of Congress to join.

#### Chemists with Disabilities (CWD)

**John J. Johnston**, committee chair, reported that CWD is working with other ACS entities to ensure that all individuals have opportunities to advance the chemical sciences by drawing on their full range of talents. The ACS Examinations Institute and CWD are working together to make ACS Standard Exams, Practice Tests and Study Guides available to blind students. ACS is creating a lending library for braille versions of ACS Standard Exams (overcoming the hurdle of the increased costs that university chemistry departments might incur to create braille tests). The ACS Department of Higher Education reached out to CWD to develop guidance for creating classroom environments in which all students are encouraged to contribute.

To increase awareness and receptiveness of scientists with disabilities, CWD is continuing to develop posters of famous scientists with disabilities. At the request of teachers, these posters have been made into bookmarks and posters suitable for classrooms.

### Nomenclature, Terminology and Symbols (NTS)

**Michael D. Mosher**, committee chair, reported that NTS worked with the Committee on Technician Affairs (CTA) on the assessment and recommendations of the use of the term chemical technician. The term is often used to describe a position of employment in US industry but there is little uniformity in its use. The committee continues to collaborate with CTA in an attempt to standardize the use of the term.

NTS members have also been involved in providing feedback and comment on the redefinition of the SI base units. This has resulted in publications in newsletters and journals, as well as discussions and presentations within various symposia. Other work has been centered on the use of International Chemical Identifier codes and a chemical ontology.

The committee has evaluated and commented on the recent provisional recommendation from the IUPAC Division II, entitled "How to Name New Elements." The recommendation to include the endings "-ium" for new elements up to and including element-116, "-ine" for element-117, and "-on" for element-118 was met with approval. Pursuant to the discovery of the last four elements to complete the unfinished period in the Periodic Table, NTS has hosted a booth in this meeting's Exposition. The intent of the booth was to engage the membership in the activities of the committee and to generate and foster excitement about the discovery of new elements. NTS is planning programming for the Philadelphia meeting in the fall to provide comment on the development of preferred IUPAC names, which will likely be proposed by Division VIII. Such programming will include talks on nomenclature from the past, present, and future.

### Professional Training (CPT)

**Thomas J. Wenzel**, committee chair, reported that the committee evaluated 46 periodic reports from currently approved programs and held conferences with nine departments to begin the process of applying for ACS approval. CPT also evaluated site visit reports from six programs seeking approval, one update on an application, and two reports from approved programs on probation. CPT approved four new programs and withdrew approval of one program. There are currently 681 colleges and universities offering ACS-approved bachelor's degree programs in chemistry.

The committee approved a new supplement that provides guidance on how departments might satisfy the new requirement for coverage of two of the following systems: synthetic polymers, biological macromolecules, supramolecular aggregates, and meso- or nanoscale materials. CPT has organized a symposium on this requirement that will be held at the Biennial Conference on Chemical Education this summer.

A short survey on international experiences taken by undergraduate chemistry majors was developed and approved for inclusion in the 2015-16 annual report. The committee also approved a new self-study questionnaire that is used by programs applying for initial ACS approval.

At this meeting, CPT met with the Visiting Associates, volunteers who make site visits to programs that are seeking initial approval by ACS, and also with representatives from 41 (20%) of PhD-granting institutions.

### Technician Affairs (CTA)

**Kara M. Allen**, committee chair, reported that CTA has worked to become more closely aligned with industry programs. At this meeting, the committee co-sponsored a symposium with the Division of Industrial and Engineering Chemistry (I&EC), SOCED, and the Immediate Past President, entitled "New Reality of the Chemical Enterprise: Traditional & Nontraditional Career Paths." CTA members were invited to attend the Corporation Associates luncheon at this meeting, providing an opportunity for the two groups to network.

CTA honored the 27th recipient of the National Chemical Technician Award at a luncheon at this meeting. This award was established to recognize the outstanding career achievements of exceptional technicians, who have significantly contributed to the field through their technical achievements, leadership and mentoring, publications, presentations, patents, quality and safety practices, and professional and community activities.

CTA partnered with the Younger Chemists' Committee to provide a travel award to a younger chemical technician interested in attending the ACS Leadership Institute.

#### Women Chemists (WCC)

**Amber F. Charlebois**, committee chair, reported that at this national meeting WCC recognized the ten recipients of the 5th annual WCC Rising Star Award at a networking event following a day-long symposium on Monday. Also at this meeting, ten women received WCC/Eli Lilly Travel Awards. The committee congratulated Dr. Annie Kersting, the 2016 recipient of the Francis P. Garvan-John M. Olin Medal and keynote speaker at the WCC Luncheon. In addition, the committee honored Carol A. Fierke, the recipient of the 2016 ACS Award for Encouraging Women into Careers in the Chemical Sciences.

Dr. Charlebois stated that WCC is committed to encouraging conversations around the difficult topic of awards and recognition for women. She quoted from a recent ACS Comment in Chemical & Engineering News: "From 2012-2016, only 13% of the nominees and only 16% of the recipients for ACS national awards were women." The data indicate too few women are being nominated, and she announced that WCC has created a task force to help increase the number of women recipients of technical ACS national awards. Councilors were urged to consider nominating an extraordinary woman chemist this November for an ACS award.

#### New Business

##### Resolution

The Council adopted the following resolution:

8. BE IT RESOLVED That the Council of the American Chemical Society express to the officers and members of the San Diego Local Section, host Section for the 251st 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 251st National Meeting.

Following the resolution, comments were received from Councilors on several topics, including comments on the purpose of committee reports, discussion of larger issues, the effective operation of the Council meeting itself, and an expression of gratitude for the work of retiring ACS staff member Cheryl Brown.

There being no further business, the meeting adjourned at 11:35 a.m.

Flint H. Lewis  
Secretary

ELECTION TO  
COUNCIL POLICY COMMITTEE

Action Requested: The Committee on Nominations and Elections has selected the following slate of candidates for membership on the Council Policy Committee:

- |                         |                            |
|-------------------------|----------------------------|
| 1. Harmon B. Abrahamson | 8. Doris I. Lewis          |
| 2. Karl S. Booksh       | 9. Kim M. Morehouse        |
| 3. Dwight W. Chasar     | 10. Barbara E. Moriarty    |
| 4. Ella L. Davis        | 11. Sally B. Peters        |
| 5. Lissa A. Dulany      | 12. Martin D. Rudd         |
| 6. Gregory M. Ferrence  | 13. Julianne M. D. Smist   |
| 7. John W. Finley       | 14. Andrea B. Twiss-Brooks |

The Council must elect seven individuals: The five candidates receiving the highest numbers of votes will be declared elected for the 2017-2019 term, and two candidates receiving the sixth and seventh highest votes will be declared elected for a one year term for 2017. All the candidates have indicated their willingness to serve if elected. Biographies of the candidates are presented in summary form at the end of this item.

Supplementary Information:

**Description of Duties and Desired Characteristics for Members of the  
Council Policy Committee (CPC)**

The Council Policy Committee (CPC) serves as the Executive Committee of the Council. The committee and three Subcommittees are responsible for several specific items including:

- creating the slate of candidates for N&E;
- ensuring activities at Council, including items for action, are conducted in line with our Constitution & Bylaws, and preparing the Council President for potential challenges;
- conduct long-range planning for Council, aligned with the ACS strategic plan and its implementation; and
- recommending to Council positions on amendments to the Constitution & Bylaws.

To succeed in these activities, members are expected to understand the role of the Council in serving ACS, the responsibilities of a Councilor and the governance structure. They should also have a broad network across ACS.

CPC meets Tuesday mornings at national meetings (approximately 8 a.m. - 12 p.m.); the CPC subcommittees meet on Monday morning. Members of a subcommittee may be asked to participate in the New Councilor Orientation (currently held on Saturday afternoon at the Spring meeting). Subcommittees and Task Force Groups have meetings via conference calls between national meetings.

Members of CPC must be voting Councilors.

Those members of the Council Policy Committee whose terms end on December 31, 2016, are as follows:

Harmon B. Abrahamson, Red River Valley Section  
Dwight W. Chaser, Cleveland Section  
Alan M. Ehrlich, Chemistry & the Law (Chemical Society of Washington Section)  
Lynne P. Greenblatt, Bylaw  
Peter C. Jurs, Bylaw  
Doris I. Lewis, Northeastern Section  
Andrea B. Twiss-Brooks, Chemical Information (Chicago Section)

Alan M. Ehrlich, Lynne P. Greenblatt, and Peter C. Jurs are ineligible for reelection.

The present members of the Council Policy Committee who continue on that body are:

2016 - 2018

Frank D. Blum, Polymer Chemistry (Oklahoma Section)  
Mary K. Carroll, Eastern New York Section  
Lisa Houston, Energy & Fuels (Greater Houston Section)

2015- 2017

Lawrence Barton, St. Louis Section  
Linette M. Watkins, Virginia Section

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**ABRAHAMSON, HARMON B. *Red River Valley Section.*** University of North Dakota, Grand Forks, North Dakota.

**Academic Record:** University of Minnesota, B. Chem., 1974; Massachusetts Institute of Technology, Ph.D., 1978.

**Honors:** ACS Fellow, 2013; Tau Beta Pi; Phi Lambda Upsilon; NSF Predoctoral Fellow, 1975-78; Sigma Xi; National Merit Scholar, University of Minnesota, 1970-74.

**Professional Positions** (for past ten years): University of North Dakota, Professor 1995 to date; Interim Associate Vice President for Research and Economic Development, Research Development & Compliance, 2015; Associate Dean, Arts & Sciences, 2011-14; Department Chair, 1996-03, 2016-date; Associate Professor, 1988-95; Assistant Professor, 1984-88.

**Service in ACS National Offices:** Council Policy Committee, (Voting) 2014-16, (Nonvoting) 2011-13; Committee on Constitution and Bylaws, 2008-13, Chair, 2011-13, Chair-Elect, 2010, Secretary, 2010, Committee Associate, 2006-07; Committee on Minority Affairs, 2003-10, Committee Associate, 2001-02.

**Service in ACS Offices:** Member ACS since 1975. *Red River Valley Section:* Councilor, 2000-18; Alternate Councilor, 1998-99; Chair, 1989; Chair-Elect and Program Chair, 1988; Recording Secretary, 1987. *Great Lakes Regional Meeting:* Secretary, 2001-09, Program Chair, 2000.

**Member:** Tau Beta Pi; Sigma Xi, President, University of North Dakota chapter, 1994-95; Inter-American Photochemical Society. *ACS Division:* Inorganic Chemistry.

**Related Activities:** Ohio State University, Visiting Associate Professor, 1991-92; University of Oklahoma, Assistant Professor, 1978-84; 39 publications; 41 presentations.

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**BOOKSH, KARL S. *Division of Analytical Chemistry (Delaware Section).*** University of Delaware, Newark, Delaware.

**Academic Record:** University of Alaska, Fairbanks, B.S., Chemistry, 1990; University of Washington, Ph.D., 1994.

**Honors:** ACS Fellow, 2015; Excellence in Advising Award, University of Delaware, 2016; Society for Applied Spectroscopy Fellow, 2014; Passion in Science Award, New England Biolabs, 2014; Outstanding Service Award, University of Delaware, College of Arts and Sciences, 2013; Elsevier Chemometrics Award, 2004; NSF CAREER Award, 1997; Camille and Henry Dreyfus Fellow, 1996; NSF Postdoctoral Fellow, 1994; ACS Graduate Fellow, Division of Analytical Chemistry, 1993.



**Professional Positions** (for past ten Years): Professor, Chemistry and Biochemistry, University of Delaware, 2006-16.

**Service in ACS National Offices:** Committee on Chemists with Disabilities, 2011-16, 1996-2001, Chair, 2012-14, Committee Associate, 2010; Diversity and Inclusion Advisory Board, 2014-16, Chair, 2016; Leadership Advisory Board, 2012-16.

**Service in ACS Offices:** Member ACS since 1990. *Analytical Chemistry Division:* Councilor, 2016-18.

**Member:** Society for Applied Spectroscopy, 1992-16; Faculty Advisor, Delaware Student Section 2010-16; Treasurer, Chemometrics Technical Section, 2013-16; Coblenz Society, 2000-16; Board of Governors 2012-15.

**Related Activities:** Center for Disability Studies - Community Advisory Board, University of Delaware, 2012-16; NSF Committee on Equal Opportunity in Science and Engineering (CEOSE) 2011-16; Advisory Board, Open Chemistry Collaborative in Diversity Equity (OXIDE), 2011-16; *Journal of Chemometrics*, North American Editor, 2001-08; Editorial Board, 1999-2016; *Analytica Chimica Acta*, Editorial Review Board 2000-03; *Chemometrics and Intelligent Laboratory Systems*, Editorial Board 1997-2010; Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) / The Great Scientific Exchange (SciX), symposium organizer and/or symposium chair, 2000-16.

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**CHASAR, DWIGHT W. Cleveland Section.** (Retired) Emerald Performance Materials, Brecksville, Ohio.

**Academic Record:** University of Pittsburgh, B.S., 1964; Case Western Reserve University, Ph.D., 1968.

**Honors:** ACS Fellow, 2010; Phi Eta Sigma; Phi Theta Kappa; Goodrich Technical Recognition Award, 1983; National Science Foundation College Teacher Summer Fellowship, 1973; National Science Foundation Fellowship, 1965.

**Professional Positions** (for past ten years): Retired, 2007 to date; Emerald Performance Materials, Technical Fellow, 2006-07; Lubrizol Corporation, Research and Development Fellow, 2004-06; Noveon, Research and Development Fellow, 2001-04.

**Service in ACS National Offices:** Council Policy Committee (Voting), 2016, 2007-08, (Nonvoting), 2005-06; Committee on Science, Committee Associate 2013-15; Committee on Nominations and Elections, 2010-12, 2009, Vice-Chair, 2011-12; Committee on Divisional Activities, 2001-06, Chair, 2005-06; Committee on Constitution and Bylaws, 1995-00; Committee on Local Section Activities, 1989-94, Committee Associate, 1988; Committee on Patents and Related Matters, 1985-87; Committee on Planning, 2005-06; Governance Review Task Force on Disciplinary Organization, 2005-06.

**Service in ACS Offices:** Member ACS since 1965. *Cleveland Section:* Councilor, 1987-16; Alternate Councilor, 1986, 1981; Chair, 1982; Chair-Elect and Program Chair, 1981; Treasurer, 1979-80; *ISOTOPICS* Editor, 1976-78; National Chemistry Week Committee, 1991; Archives Committee, 1989-2014; Morley Award Jury, 1986-91; Nominating Committee Chair, 1983; Budget Committee, 1979-80. *Central Regional Meeting:* Program Co-Chair, 1985. *Division of Rubber Chemistry:* Editorial Board, *Rubber Reviews* and *Rubber Chemistry and Technology*, 2002-10.

**Member:** *ACS Divisions:* Organic Chemistry, and Rubber (Emeritus).

**Related Activities:** Technical Consultant 2007-11; Zoning Commission, Sagamore Hills Township, 1977 to date, Chair, 1994-04, 1983-86; BFGoodrich, 1974-01; 40 publications, one book chapter in the *Vanderbilt Rubber Handbook*, and holds 24 US patents.

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**DAVIS, ELLA L. *Philadelphia Section.*** Retired, McNeil PPC, Lititz, Pennsylvania.

**Academic Record:** Drexel University, B.S., 1980; Alvernia University, MBA, 2010.

**Professional Positions** (for past ten years): Retired, McNeil PPC, 2007 to date; Currently working on Special Projects for McNeil PCC, 2016, Team Leader, Analytical Chemistry Laboratory, a Johnson & Johnson Company (formerly Pfizer Inc.), Lititz, PA,; Research Chemist/Supervisor, 1976-2002; The PQ Corporation R&D Center.

**Service in ACS National Offices:** Committee on Membership Affairs, 2014-17, Committee Associate, 2013.

**Service in ACS Offices:** Member ACS since 1978. *Philadelphia Section:* Councilor, 2012-17, Alternate Councilor, 2011, 2003-09, 1995; Chair, 2008; Chair-Elect, 2007; Director, 2010-17, 1993-2007.

**Member:** National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCChE), National President, July 2001–June 2003; National Vice–President, 1999–2001; Executive Board Member-at-Large 2005-10; National Treasurer, 2014-16; National Meeting Planning Committee, Registration Chairperson, 1994–2001, 2005-09; Delaware Valley Chapter Past President, Treasurer; Delaware Valley Science Council (DVSC), President, 2014-16; Board Member, 2009-18.

**Related Activities:** STEMiversity Inc., Laboratory Director, 2014 to date; Committee for Action Program Services, Analytical Training Laboratory (CAPS-ATL), Vice President, 2013 to date.

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**DULANY, LISSA (M. A.) *Georgia Section.*** MADesign, Inc., Atlanta, Georgia.

**Academic Record:** University of Virginia, B.A., 1977; Emory University, Ph.D., 1986.

**Honors:** ACS Fellow, 2011; Georgia Section, ACS Outstanding Service Award, 1999; Community Associations Institute Georgia Chapter *Going Green Award*, 2008; Georgia-Pacific Chemical Division Vice President's Award, 1988; Emory University Woodruff Fellow, 1982-85; Phi Beta Kappa, 1977.

**Professional Positions** (for past ten years): The Older Young, Inc, President, 2014 to date, Jeunesse Global, Independent Distributor, 2014 to date; MADesign, Inc., President, 2005 to date; Positive Community Association Management, Inc., President/CEO/COO, 2006-12; UCB Chemicals, Surface Specialties, Americas Packaging Films Technical Service & Development 2003-05; Powder Coatings R&D Manager, 2001-03; Industrial Coatings, Technical Services & Applications Manager, 1998-01.

**Service in ACS National Offices:** Committee on Nominations and Elections, 2011-16, Secretary, 2015-16; Committee on Committees, 2005-10; Committee on Science, 2004-06; Committee on Divisional Activities, 1998-03; Women Chemists Committee, 1993-01, Committee Associate, 1991-92, Consultant, 2002; Presidential Task Force to Plan the Millennial ACS Meeting in San Francisco, 1998-2000; Canvassing Committee, Garvan-Olin Medal, 1993-01.

**Service in ACS Offices:** Member ACS since 1983. *Georgia Section:* Councilor, 1997-17; Alternate Councilor, 1994-96; Chair, 1992; Chair-Elect, 1991; Georgia Section *Filter Press*, Editor/Managing Editor, 2005-12; Herty75 Committee, 2009; Herty Award Committee, 1998-08, Chair, 1998-99; Founding member of *Georgia Section Women Chemists Discussion Group*, 1986 to date. *Division of Business Development and Management:* Secretary, 2013-16. *Division of Polymeric Materials: Science & Engineering:* Regional Meeting Coordinator, 2003-05.

**Member:** Lions Club International. *ACS Division:* Business Development and Management; and Small Chemical Businesses.

**Related Activities:** Co-Chair of Inaugural ACC/WCC Golf Benefit, 2003-04; Chair, Women at the Forefront of Chemistry [Presidential] Symposium, Boston, 2002; Liaison Women Chemists Committee to SOCED (1995-97); Chemistry Advisory Board, Kennesaw State University, 1994-98; Georgia-Pacific Corporation, Group Leader, 1992-98; published 9 journal articles, 1 encyclopedia chapter; 4 US patents in organic polymers.

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**FERRENCE, GREGORY** *Illinois Heartland Section.* Illinois State University, Normal, Illinois.

**Academic Record:** Indiana University of Pennsylvania, B.S. 1991; Purdue University, Ph.D. 1996; University of Alberta 1997-99; Los Alamos National Laboratory, Postdoctoral Fellow, 1998-99.

**Honors:** Chemist of the Year, Illinois Heartland Section, ACS, 2009; Fellow, Royal Society of Chemistry, 2014; Outstanding College Service Award, College of Arts and Sciences Illinois State University, 2014; John A. Dossey Award for Outstanding Teaching by a Tenured Faculty Member, Illinois State University, 2010; CASE and the Carnegie Foundation, Illinois Professor of the Year, 2009; Outstanding University Teacher, Illinois State University, 2008; College of Arts and Sciences Outstanding College Teacher, Illinois State University, 2008; Discovery Corp Senior Fellowship, National Science Foundation, 2007; Visiting Fellow, Homerton College, University of Cambridge, 2007; CAREER Award, National Science Foundation, 2004.

**Professional Positions** (for past ten years): Illinois State University, Professor, Department of Chemistry, 2008 to date; Associate Professor, 2004-08; Assistant Professor, 1999-2004; CeMaST Sabbatical Faculty Fellow, Center for Math Science and Technology, 2006-07; University of Cambridge, Sabbatical Faculty Fellow, Cambridge Crystallographic Data Centre, 2014, 2006-07.

**Service in ACS National Offices:** Committee on Economic and Professional Affairs, Committee Associate, 2016; Committee on Ethics, 2011-14, Chair, 2012-14, Committee Associate, 2006-10.

**Service in ACS Offices:** Member ACS since 1992. *Illinois Heartland Section:* Councilor, 2012-17, Chair, 2011, Chair-Elect, 2010.

**Member:** American Association of Chemistry Teachers; American Crystallographic Association; Council on Undergraduate Research; National Science Teachers Association; Royal Society of Chemistry; Society for College Science Teachers; Sigma Xi. *ACS Divisions:* Inorganic Chemistry and Professional Relations.

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**FINLEY, JOHN W.** *Division of Agricultural & Food Chemistry (Tampa Bay Section).* Louisiana State University, Baton Rouge, Louisiana.

**Academic Record:** LeMoyne College, B.S., 1964; Cornell University, Ph.D., 1969; Post-Doctoral Fellow Michigan State University, 1969-70.

**Honors:** ACS Fellow, 2011; Fellow, Agriculture and Food Chemistry Division, ACS, 1990; Institute of Food Technologists, Fellow 2008; Outstanding Alumni, Michigan State University, 2007; Fellow Royal Society of Chemistry 1984, Kraft Foods, Kraft Fellow, 1999-04; Phi Kappa Phi 1968; Sigma X 1970.

**Professional Positions** (for past ten years): Professor and Chair of Food Science, Louisiana State University, 2007-15; A.M. Todd Company, Chief Technical Officer, 2004-07; Associate Editor *Journal of Agricultural and Food Chemistry* 1999 to date.

**Service in ACS National Offices:** Committee on Science, 2008-16, Committee Associate, 2006-07; Committee on Meetings and Expositions, 2009; Committee on Divisional Activities, 2000-05, Committee Associate, 1998-99; Multidisciplinary Program Planning Group, 2009-14, Chair, 2013; Associate Editor, *Journal of Agricultural and Food Chemistry*, 1995 to date; Kavli Young Scientist Selection Committee 2012-14.

**Service in ACS Offices:** Member ACS since 1969. *Agriculture and Food Chemistry Division:* Councilor, 1997-17; Chair, 1988; Chair-Elect and Program Chair, 1987; Vice-Chair, 1986; Secretary-Treasurer, 1980. *Biotechnology Secretariat:* Secretariat, 1990-11; Secretary General, 2005-11; Theme Co-organizer "Chemistry in the Prevention and Treatment of Disease" 2010; Organized Hot Topic Symposium on the Gulf Oil Spill, 2010; Organizer Symposium on Safety of GMOs 2016.

**Member:** American Society of Nutrition; Association of Official Analytical Chemists; Institute of Food Technologists. *ACS Division:* Agricultural & Food Chemistry.

**Related Activities:** Institute of Food Technologists, Board of Directors 2008-11; Nabisco Incorporated, Group Director, 1983-86; University of Iowa, Director, 1982-83; Ralston Purina Company, Scientist, 1981-82; U.S.D.A., Western Regional Research Center, Research Chemist 1970-81. U.S. Pharmacopia Advisory Board for food ingredients and additives; more than 135 publications, edited 9 books and 72 patents.

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**LEWIS, DORIS I. *Northeastern Section.*** Suffolk University, Boston, Massachusetts.

**Academic Record:** Duke University, B.S., 1965; Tufts University, Ph.D., 1972.

**Honors:** E. Anne Nalley ACS Northeast Regional Volunteer Service Award 2013; Henry A. Hill Award for Outstanding Service to the Northeastern Section, and Profession of Chemistry, 2003; NewTV (Newton Cable TV) Red Carpet Award for "Bubbles and Beakers" video 2008; JFY Networks Achievement Award for service on Environmental Technology Advisory Board, 1998; Sigma Xi.

**Professional Positions** (for past ten years): Suffolk University Professor Emerita 2014 to date; Professor, 1986-2014.

**Service in ACS National Offices:** Council Policy Committee, (Voting) 2016; Committee on Public Relations and Communications, 2013-15, Committee Associate, 2012; Committee on Chemistry and Public Affairs, 2003-11, Committee Associate, 2001-02; Committee on Local Section Activities, Committee Associate, 1997; ACS National Award Selection Committees, 2015-16.

**Service in ACS Offices:** Member ACS since 1966. *Northeastern Section:* Councilor, 1994-2017; Alternate Councilor, 1991-93; Chair, 2000; Government Affairs Chair, 2005 to date; Norris Award Committee, 2010 to date; Chair, 2013; Founder and Chair, Phyllis A. Brauner Memorial Lecture Committee, 2002 to date; National Chemistry Week Committee, 2000 to date; Nominating Committee, 2001-13, Chair, 2013, 2003, 2001; Board of Publications, 1995-97, Chair, 1997; National Meeting Committee 1998,1990; NESACS Student Affiliate Coordinator, 1978-90; Continuing Education Committee, 1979-81; Suffolk University, ACS Student Affiliate Chapter Adviser, 1977-2013; Summerthing, Chair, 2009 to date (Fenway Park Red Sox events).

**Member:** New England Association of Chemistry Teachers.

**Related Activities:** Science, Engineering, and Technology Congressional Visits Day, participant, 2014; ACS Legislative Summit on Capitol Hill, 2002-10; ACS Legislative Action Network, 1991 to date; ACS Legislative Action Honor Roll 2004, 2003; ACS National Science Funding Network, 1993-2004; Suffolk University Biochemistry-Forensic Science Advisory Board, 2002-12; Suffolk University Summer Forensic Science Institute in collaboration with the Boston Police Crime Laboratory, Founder and Coordinator, 2002-06; Environmental Technology Advisory Board; JFY Networks, 1994-2012, Co-organizer and Co-chair, CHED Forensic Chemistry Symposium, ACS National Meeting, Fall 2004.

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**MOREHOUSE, KIM M. *Chemical Society of Washington Section.*** Food and Drug Administration, Silver Spring, Maryland.

**Academic Record:** Oakland University, B.S., 1979, M.S., 1980; University of Notre Dame, Ph.D., 1985.

**Honors:** Local Section Volunteer of the Year Award, Chemical Society of Washington Section, ACS, 2016; The Community Service Award, Chemical Society of Washington Section, ACS, 2010; Charles L. Gordon Award, Chemical Society of Washington Section, ACS, 2005; Professional Service Award, Washington Professional Chapter, Alpha Chi Sigma, 2010; FDA Outstanding Service Award, Benzene in Beverages Group, FDA, 2006; FDA Group Recognition Award, Furan Analytical Group, CFSAN, FDA, 2005; Equal Opportunity Achievement Award, Student Intern Recruitment Team, FDA, 2002; Commissioner's Special Citation. Young Investigator Award, FDA, 1990.

**Professional Positions** (for past ten years): Food and Drug Administration, Center for Food Safety and Applied Nutrition, Research Chemistry, 1989 to date.

**Service in ACS National Offices:** Committee on Community Activities, 2009-18, Committee Associate, 2008.

**Service in ACS Offices:** Member ACS since 1980. *Chemical Society of Washington Section:* Councilor, 2007-18; Alternate Councilor, 2006; Treasurer, 2004-05, 1999-2001; Past-Chair, 2004; Chair, 2003; Chair-Elect, 2002; National Chemistry Week Coordinator since 2003; Chemists Celebrate Earth Day Coordinator since 2005; Budget Committee Chair, 2005-12; Programs and Arrangements Committee, Chair, 2008-13; Awards Committee, Chair, since 2015.

**Member:** Sigma Xi; Institute of Food Technologists; Council on Ionizing Radiation Measurements and Standards, President, 2010 and 2015; ASTM International, Member of E61, Radiation Processing. *ACS Division:* Agricultural and Food Chemistry.

**Related Activities:** Associated Editor, Radiation Chemistry and Physics since 2010. Served as Rapporteur for the Joint FAO/IAEA/WHO Study Group on High Dose Irradiation (Wholesomeness of Food Irradiated With Doses Above 10 kGy), Geneva, Switzerland, September 15-20, 1997.

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**MORIARTY, BARBARA E. *Division of Professional Relations (Chicago Section).*** Global Green Products, Palos Heights, Illinois.

**Academic Record:** University of North Carolina, Chapel Hill, B.S., 1980; University of Minnesota, Ph.D., 1986.

**Honors:** ACS Fellow, 2011; Chicago Section ACS, Public Affairs Award, 2011; Distinguished Service Award, Chicago Section ACS, 2007; Presidential Green Chemistry Challenge Award to Nalco Company for 3D TRASAR Technology, 2008; Chicago Association of Technological Societies Award of Merit, 1998.

**Professional Positions** (for past ten years): Global Green Products, Senior Application Chemist, 2015 to date; Moriarty & Associates, Consultant, 2013 to date; Nalco Company, Research Associate, 2003–13; ONDEO Nalco, Research Scientist, 2001–03; Nalco Chemical Company, Staff Scientist 1999–2001.

**Service in ACS National Offices:** Committee on Science, 2008–16; Meetings and Expositions Committee, Committee Associate, 2010; Divisional Activities Committee, 2004–09; Committee on Economic and Professional Affairs, 1998–2003, Committee Associate, 1997; Awards Committee, 1997–98; Task Force K, 2007.

**Service in ACS Offices:** Member since 1980. *Chicago Section:* Councilor, 1996–16; Alternate Councilor, 1993–96; Chair, 2006, 1997–98; Chair-Elect, 1996–97; Vice Chair, 2010, 2005, 1995–96; Secretary, 1993–95; Director, 1999–2003, 2008–09; Membership Affairs Committee, 1994–97; Elementary Education Committee, 1990–92; Employment Committee, 1992–94; Public Affairs Committee, 1997 to date; Long-Range Planning Committee, 1997–to date; Chemical Week Committee, 1994-99, 2006–to date; *Chemical Bulletin* Editor, 1999–2000, Contributor, 1999–to date. *Division of Professional Relations:* Past Chair, 2005; Chair, 2004, Chair-Elect, 2003; Member-at-Large, 2008–09; Webmaster 2004–09; Henry Hills Award Committee, 2006–07, 2003. *Great Lakes Regional Meeting: 2009 GLRM* Public Relations Committee Chair, 2007–09. *Great Lakes Regional Meeting Board:* Chair, 2011–to date; Chair-Elect, 2010.

**Member:** Alpha Chi Sigma, Sigma Xi. *ACS Division:* Professional Relations.

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**PETERS, SALLY B. Santa Clara Valley Section.** Retired, Xerox Palo Alto Research Center, Menlo Park, California.

**Academic Record:** Geneva College, B.S., 1964; San Jose State University, M.L.S., 1983.

**Honors:** Helen M. Free Award for Public Outreach to Howard & Sally Peters, 2016; Santa Clara Valley section Local Section Outreach Volunteer of the Year Award, 2013; ACS Division of Chemistry & The Law, Howard & Sally Peters Award, for NonTraditional Careers in Chemistry, First Awardees, 2012; Harry & Carol Mosher Award, Santa Clara Valley Section, ACS, 2009; Ottenberg Award, Santa Clara Valley Section, ACS, 2001; Distinguished Service Alumni Award, Geneva College, 1997, Corporate Research Group Achievement Award, Xerox Corporation 1994.

**Professional Positions** (for past ten years): Retired, 2012 to date, Palo Alto Research Center, Supervisor, User Service, 2000-12.

**Service in ACS National Offices:** Committee on Community Activities, 2014-17; Committee on Local Section Activities, 2004-09; Committee Associate, 2003; Committee on Meetings and Expositions, 1997-01, Committee Associate, 1995-96; Committee on Chemical Abstracts Service, 2002.

**Service in ACS Offices:** Member ACS since 1981. *Santa Clara Valley Section:* Councilor, 1995-2018, Alternate Councilor, 1990-92; Chair, 2001, Chair-Elect, 2000; Chemistry Olympiad Committee, Chair, 2003-16; Hospitality & Membership, Chair, 2000-16.

**Member:** Special Libraries Association. *ACS Divisions:* Chemical Information; and Chemistry & the Law.

**Related Activities:** Xerox-PARC, Manager, Technical Service, 1983-99.

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**RUDD, MARTIN D. *Northeast Wisconsin Section.*** University of Wisconsin-Fox Valley, Menasha, Wisconsin.

**Academic Record:** University of Warwick, United Kingdom, B.Sc. (Hons, First Class), 1991, Ph.D., 1994.

**Honors:** Fellow, Royal Society of Chemistry, 2011; Baylor University, Robert A. Welch Postdoctoral Fellowship, 1996-97; University of Bergen, Norway, Royal Society European Postdoctoral Fellowship, 1994-95.

**Professional Positions** (for past ten years): University of Wisconsin Colleges Regional Executive Officer and Dean, 2016 to date; University of Wisconsin-Fox Valley, Campus Executive Officer and Dean 2012-15; Professor of Chemistry, 2011 to date; University of Wisconsin-Manitowoc Interim CEO/Dean, 2010-11; Associate Professor and Associate Dean, 2006-10, Assistant Professor, 2003-06; University of Wisconsin-Marathon County, Assistant Professor, 2002-03.

**Service in ACS National Offices:** Committee on Planning, 2014-16; Committee on Local Section Activities, 2011-16, Chair, 2014-16, Committee Associate, 2010; Council Policy Committee, (Nonvoting), 2014-16.

**Service in ACS Offices:** Member ACS since 1998. *Northeast Wisconsin Section:* Councilor, 2009-17; Chair, 2006-07; Chair-Elect, 2005. *Northwest Louisiana Section:* Chair, 2002; Chair-Elect, 2001.

**Member:** Royal Society of Chemistry.

**Related Activities:** Editor-in-Chief, *Phosphorus Sulfur and Silicon and the Related Elements* 2008 to date; Editorial Board Member 2006 to date; facilitated ACS Leadership Institute Local Section Leader's Track 2014-16; Northwestern State University of Louisiana, Assistant Professor, 1997-2002; 26 papers and publications (many with undergraduates as co-authors).

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**SMIST, JULIANNE M. D. *Connecticut Valley Section.*** Springfield College, Springfield, Massachusetts.

**Academic Record:** Our Lady of the Elms, B.A., 1972; Boston College, M.S., 1974; University of Connecticut, Ph.D., 1996.

**Honors:** Outstanding Graduating Senior 1972 Connecticut Valley Local Section, ACS; Gerbrich Fellow, University of Connecticut, 1996; Beta Beta Beta Biological National Honor Society, Honorary Member.

**Professional Positions** (for past ten years): Springfield College, Chair, Biology/Chemistry Department, 2013 to date; Professor of Chemistry, 2004 to date; Associate Professor, 1996-03; Assistant Professor, 1988-96.

**Service in ACS National Offices:** Committee on Divisional Activities, 2011-15, Committee Associate, 2010; Committee on Meetings and Expositions, 2002-07, Committee Associate, 2001; Leadership Advisory Board, 2015-17.

**Service in ACS Offices:** Member ACS since 1972. *Connecticut Valley Section:* Councilor, 2000-17; Chair, 1989; Chair-Elect, 1988; Associate Secretary, 1984-87. *Division of Chemical Education:* Program Chair, 2008-10; Personnel and Nominations Committee, 2015-17; Program Co-Chair for 2016 Biennial Conference on Chemical Education. *Northeast Regional Meeting:* General Chair 2009. *Northeast Region: NERACS, Inc.,* Board Chair, 2005-13.

**Member:** American Association of Chemistry Teachers (AACT); New England Association of Chemistry Teachers. *ACS Division:* Chemical Education.

**Related Activities:** University of Connecticut, Visiting Lecturer, 1992-99; Westfield State College, Visiting Lecturer/Lab Instructor, 1980-82; American International College, Instructor, 1977-79; Cathedral High School, Chemistry Teacher, 1975-77. Outside evaluator of two grants from the Massachusetts Board of Higher Education and Massachusetts Math and Science Partnership.

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**TWISS-BROOKS, ANDREA B.** *Chicago Section.* University of Chicago, Chicago, Illinois.

**Academic Record:** Texas Christian University, B.S., 1982; Cornell University, M.S., 1985; University of North Texas, M.S., Library Science, 1990.

**Honors:** ACS Division of Chemical Information Meritorious Service Award, 2007.

**Professional Positions** (for past ten years): University of Chicago, Science Libraries Division, Co-Director, 2006 to date; John Crerar Library, Chemistry Librarian, 1993-06.

**Service in ACS National Offices:** Committee on Nominations and Elections, 2009-14, Vice-Chair, 2014; Committee on Chemical Abstracts Service 2003-08, Chair, 2004-06, Committee Associate, 2002; Committee on Community Activities, 2007-09, Committee Associate, 2006; Taskforce on Third Party Web Collaborations, ACS Governing Board for Publishing, 2005-06.

**Service in ACS Offices:** Member ACS since 1996. *Chemical Information Division:* Councilor, 2006-17; Chair, 2001; Program Committee, 2016, 2006-08; Awards Committee, 2007-15, Chair, 2012-15, Assistant Chair, 2011; Bylaws and Procedures Manual Committee, 2003-06, Chair, 2003-06. *Committee on Community Activities:* Evaluation and Technology Subcommittee, Co-Chair, 2007-08. *Chicago Local Section:* Director, 2015-16.

**Member:** Geoscience Information Society. *ACS Divisions:* Chemical Education, and Chemical Information.

**Related Activities:** Geoscience Information Society, Secretary, 2007-08; Royal Society of Chemistry Publishing Library Advisory Board, 2010-16; Academic Round Table, American Chemical Society Publications, 2014-16; American Library Association's *Resources for College Libraries*, Geology section co-editor, 2004-13; National Federation of Abstracting and Information Services (NFAIS), Conference Planning Committee, 2006-07; GDCh (German Chemical Society) Computers in Chemistry group/ACS Division of Chemical Information collaboration steering committee, 2005-14; Editorial Committee XCITR instructional materials repository, 2010-14; Chemical Information Instructor feature editor, *Journal of Chemical Education*, 2002-10; Academic Library Advisory Committee, Chemical Abstracts Service, 2002-10; Symposium organizer at ACS National Meetings, 1999 to date; Library Advisory Group, ACS Publications Division, 1998-10; Cornell University, Editorial Associate, *Accounts of Chemical Research*, 1986-88; Cornell University, Wiley/NBS Spectral Database, Database Project Manager, 1985-86.

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ELECTION TO  
COMMITTEE ON NOMINATIONS AND ELECTIONS

Action Requested: The Council Policy Committee has selected the following slate of candidates for membership on the Committee on Nominations and Elections:

- |                          |                         |
|--------------------------|-------------------------|
| 1. Anthony W. Addison    | 7. Amber S. Hinkle      |
| 2. Spiro D. Alexandratos | 8. Neil D. Jespersen    |
| 3. Lisa M. Balbes        | 9. James M. Landis, Jr. |
| 4. Alan M. Ehrlich       | 10. Thomas H. Lane      |
| 5. Stan S. Hall          | 11. Will E. Lynch       |
| 6. Alan A. Hazari        | 12. V. Michael Mautino  |

The Council must elect six individuals: The five candidates receiving the highest numbers of votes will be declared elected for the 2017-2019 term and the candidate receiving the sixth highest vote will serve a one-year term for 2017. All the candidates have indicated their willingness to serve if elected. Biographies of the candidates are presented in summary form at the end of this item.

Supplementary Information:

**Description of Duties and Desired Characteristics for Members of the  
Committee on Nominations and Elections (N&E)**

The Committee on Nominations and Elections (N&E) receives suggestions and petitions for President-Elect, District Director, and Director-at-Large. The committee then ranks and prepares a list of nominees and/or candidates for these offices. N&E supervises Society elections, conducts elections in Council; and serves as an election appeals board for local section and division elections. N&E members also:

- run the Town Hall Meetings for President-Elect nominees and Director-at-Large candidates
- participate in the testing of Council voting “clickers”
- take on an active role during the Council Meeting. In that sense, members are also expected to be present at 6:30 a.m. on Wednesday morning of a National Meeting to help prepare for the Council meeting, and
- represent N&E at the various Councilor Caucuses during a National Meeting.

To succeed in these activities, members need to have extensive experience in ACS governance, a strong ACS network and be available to attend all national meetings. The candidate’s personal qualities must include integrity and strong ethical character, respect for confidentiality, and the ability to work well in a team environment.

During every ACS National Meeting, the Nominations & Election Committee:

- meets Sunday afternoons (approximately 12 p.m – 4 p.m.)
- continues to meet on Mondays (approximately 8 a.m. – 4 p.m.)
- runs the Town Hall Meetings that run from 4:15 p.m. to 5:15 p.m. on Sunday evenings
- has representatives attend their appropriate Councilor Caucuses on Sunday from 6 p.m. – 7 p.m. and/or on Tuesdays from 5:30 p.m. to 7:00 p.m.
- tests Council voting “clickers” from approximately 2 p.m. – 3 p.m. on Tuesday, and
- begins their Council activities at 6:30 a.m. on Wednesday.

Members of N&E must be voting Councilors.

Those members of the Committee on Nominations and Elections whose terms end on December 31, 2016, are as follows:

Lisa M. Balbes, St. Louis Section  
Jeannette E. Brown, North Jersey Section  
Martha L. Casey, Wisconsin Section  
D. Richard Cobb, Rochester Section  
Lissa Dulany, Georgia Section  
Anne T. O'Brien, Bylaw

Jeannette E. Brown, Martha L. Casey, D. Richard Cobb, Lissa Dulany, and Anne T. O'Brien are ineligible for reelection.

The present members of the Committee on Nominations and Elections who continue on that body are:

2016-2018

Mary Engelman, Industrial & Engineering Chemistry (Northeast Tennessee Section)  
Roland Hirsch, Analytical Chemistry (North Jersey Section)  
C. Marvin Lang, Central Wisconsin Section  
Les McQuire, North Jersey Section  
Donivan R. Porterfield, Central New Mexico Section

2015-2017

Lydia E.M. Hines, Kalamazoo Section  
Robert L. Lichter, Northeastern Section  
Mamie W. Moy, Greater Houston Section  
Eleanor D. Siebert, Southern California Section

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**ADDISON, ANTHONY W. Philadelphia Section.** Drexel University, Philadelphia, Pennsylvania.

**Academic Record:** University of New South Wales, B.Sc. (Hons-I, Applied Chemistry), 1968; University of Kent at Canterbury, Ph.D. (Chemistry), 1971; Postdoctoral Fellow, Northwestern University, 1970-72.

**Honors:** ACS Fellow, 2012; ACS Philadelphia Section Ulliyot Award for Meritorious Service, 1999; Fellow, Royal Society of Chemistry, 2008; *Le Conférencier*: la Convention Intercantonale Romande d'Enseignement du 3<sup>e</sup> Cycle en Chimie, Switzerland, 1990; Christian & Mary Lindback Award for Distinguished Teaching, 1987; The *John van Geuns Fonds* Lecturer, Universiteit van Amsterdam, 1985; Elected Honorary Member of Phi Eta Sigma, 1982; Australian Commonwealth Scholar, 1964-67.

**Professional Positions** (for past ten years): Professor of Chemistry, Drexel University, 1991 to date.

**Service in ACS National Offices:** Committee on Publications, 2016, Committee Associate, 2016; Committee on Meetings and Expositions, 2010-15, Committee Associate, 2008-09; ACS National Award Committee, 2007-09.

**Service in ACS Offices:** Member ACS since 1974. *Philadelphia Section:* Councilor, 2003-18; Alternate Councilor, 1998-02, 1990-96; Chair, 1988-89, 1986; Chair-Elect and Program Chair, 1988; Awards Committee, 2006-08; Communications Committee, 1979 to date. *Middle Atlantic Regions:* Program Co-Chair, 39th Middle Atlantic Regional Meeting 2007, Section Liaison to MAR Board 2013 to date, MAR Board Member 2005 to date; Awards Committee, 2013-14, 2010; Program Chair, 30th Middle Atlantic Regional Meeting, 1996.

**Member:** Royal Society of Chemistry; Chemical Institute of Canada/Canadian Society for Chemistry; IES - the International EPR (ESR) Society. *ACS Division:* Inorganic Chemistry.

**Related Activities:** Support volunteer to ALAW - Autism Living & Working, 2003 to date; Co-author of seven editions of General Chemistry Lab Manual; Hirsch Index  $h=37$ ; Erdős number= 5, Google *i99=12*; Lead Author of the most highly-cited inorganic paper published by the RSC since 1901; second author of Bioinorganic Chemistry book (Wiley, 2014). 117 published papers; 127 abstracts/conference proceedings; 4 book chapters.

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**ALEXANDRATOS, SPIRO D.** *Division of Industrial & Engineering Chemistry (New York Section).* Hunter College of the City University of New York, New York.

**Academic Record:** Manhattan College, B.S. 1973; University of California, Berkeley, Ph.D. 1977.

**Honors:** ACS Fellow, 2009; Fulbright Scholar, 2010-11, L'Ecole des Mines, France; Sigma Xi, Outstanding Alumnus Award, 2006; Phi Beta Kappa, Certificate of Merit, 1993.

**Professional Positions** (for past ten years): Hunter College of the City University of New York, Professor of Chemistry, 2001 to date; University of Tennessee, Paul & Wilma Ziegler Professor of Chemistry, 2000-01.

**Service in ACS National Offices:** Committee on Committees, 2013-14; Committee on Chemical Abstracts Service, 2006-11, Chair, 2010-11; Committee on Science, Division Representative, 2009-11; ACS Task Force Chair, Society Committee on Publications, 1994-95; Associate Editor, *Industrial & Engineering Chemistry Research*, 1996 to date.

**Service in ACS Offices:** Member ACS since 1977. *Division of Industrial & Engineering Chemistry:* Councilor, 2008-16; Alternate Councilor, 1993-95; Chair, 1994; Chair-Elect, 1993; Program Committee, 1990-95. *Division of Industrial & Engineering Chemistry, Separation Science Subdivision:* Chair, 1991; Chair-Elect, 1990; Executive Committee, 1989 to date; Program Committee, 1987 to date. *East Tennessee Section:* Treasurer, 1987-88.

**Member:** *ACS Division:* Industrial & Engineering Chemistry.

**Related Activities:** Gordon Research Conference on Reactive Polymers, Ion Exchangers & Adsorbents, Chair, 1997, Co-Chair, 1995. Editorial Advisory Boards: *Separations Science and Technology*, 1996 to date; *Reactive & Functional Polymers*, 1995 to date; *Solvent Extraction and Ion Exchange*, 1988 to date; 135 refereed publications, including ten patents.

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**BALBES, LISA M.** *St. Louis Section.* Balbes Consultants LLC, Kirkwood, Missouri.

**Academic Record:** Washington University, B.A., 1985; University of North Carolina, Ph.D., 1989.

**Honors:** ACS St. Louis Local Section Outreach Volunteer of the Year, 2016; ACS Division of Chemistry and the Law, Howard and Sally Peters Award, 2015; ACS E. Ann Nalley Midwest Regional Award for Volunteer Service 2012; Best Local Section Career Program, ChemLuminary Award, ACS, 2014, 2011,

2004; Salute to Excellence, Outstanding Service As Webmaven, St. Louis Section, ACS, 1996-04; Presidential Outstanding Service Award, St. Louis Section Society for Technical Communication, 2002-03; Service Award, St. Louis Web Developers Organization 2001; Fellow, Royal Society of Chemistry; Silver Beaver, BSA, 2014.

**Professional Positions** (for past ten years): Balbes Consultants LLC, Technical Writer/Editor and Consultant, 1992 to date.

**Service in ACS National Offices:** Committee on Nominations and Elections, 2014-16; Council Policy Committee, (Nonvoting), 2011-13; Committee on Economic and Professional Affairs, 2008-13, Chair, 2011-13, Chair-Elect, 2010, Committee Associate, 2007.

**Service in ACS Offices:** Member ACS since 1986. *St. Louis Section:* Councilor, 2010-18, Treasurer, 2005-06, Alternate Councilor, 2004-06, Chair, 2002, Chair-Elect, 2001; Career Resource Coordinator 2003 to date; Scout Clinic Chair 2004 to date. *Business Development & Management Division:* Chair-Elect, 2016. *Joint Midwest/Great Lakes Regional Meeting:* Exhibits Co-Chair, 2011. *Chemical Information Division:* Chair, Career Committee, 2006-08. *Computers in Chemistry Division:* WebMaven, 2000-08. *Professional Relations Division:* Newsletter Editor, 2007-15. *Columbus Section:* Public Relations Chair, 1993-94, Nominating Committee, Chair 1994, National Chemistry Week Committee 1992-95.

**Member:** Fellow, Royal Society of Chemistry; American Medical Writers Association; Author's Guild; Society for Technical Communication. *ACS Divisions:* Business Development & Management; Chemistry & the Law; Professional Relations; and Small Chemical Businesses.

**Related Activities:** ACS Career Consultant, 1992 to date; Greater St. Louis Area Council BSA STEM/Nova Committee Chair, 2012 to date; National BSA STEM/Nova Committee 2014 - present, Research Triangle Institute, North Carolina, Research Associate, 1990-92, Postdoc Computational Chemistry, 1989-90; University of North Carolina, Chapel Hill, Research Assistant, 1985-89. Published book "Nontraditional Careers for Chemists" (Oxford University Press, 2006) authored over 150 articles, and presented over 100 invited talks (US, Canada, and Scotland) on career development for scientists since 2007.

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**EHRlich, ALAN M.** *Division of Chemistry and the Law (Chemical Society of Washington Section).* Retired, Of Counsel to Stein IP, LLC, Washington, DC.

**Academic Record:** State University of New York at Buffalo, B.A., cum laude, 1963; Massachusetts Institute of Technology, S.M., 1965; Ph.D., 1968; Georgia State University, M.B.A., 1972; George Washington University, J.D., 1991.

**Honors:** ACS Fellow, 2011; Roger Middlekauff Award, ACS Division of Chemistry and the Law, 2008; Salute to Excellence, ACS Division of Chemistry and the Law, 2014; Environmental Protection Agency (EPA): Silver Medal for Superior Service, 2002; Bronze Medals for Commendable Service, 1996, 1997, 2001, 2004; George Washington University Law School: Who's Who Among American Law Students, 1989-91; Dean's Fellow, 1990-91; Moot Court Board, 1989-91 (Judge's Chair, 1990-91); George Washington American Inns of Court, 1989; Consumer Product Safety Commission: Chairman's Special Citations, 1977; Distinguished Safety Glazing Award, 1975; Malanos Prize for Academic Excellence, 1972; Beta Gamma Sigma, 1972; Sigma Xi, 1966; National Science Foundation, Summer Science Fellow, 1965; Phi Eta Sigma, 1960.

**Professional Positions** (for past ten years): Retired, Of Counsel, Stein IP, LLC, 2006-16; Of Counsel, Weiss & Moy, PC, 2005-06; EPA Office of General Counsel, 1991-04; Patent Counsel, 1995-04; Attorney/Patent Attorney, 1991-95.

**Service in ACS National Offices:** Council Policy Committee (voting), 2011-16, ex officio (non-voting), 2009-10, Vice-Chair 2014-2016; Committee on Constitution and Bylaws, 2004-10, Chair 2009-10; Committee on Patents and Related Matters, 1993-06, Consultant, 2004-06, Chair, 2000-02; Member, 1994-2003, Associate Member, 1993-1994; Committee on Science, 2007-09.

**Service in ACS Offices:** ACS Member since 1964. *Division of Chemistry and the Law:* Councilor, 2002-16; Immediate Past-Chair, 2001; Chair, 2000; Chair-Elect, 1999; Regulatory Affairs Committee Chair, 1997-98. *Chemical Society of Washington:* Board of Managers, 2012-17.

**Member:** *Professional Societies in Law:* American Bar Association and its Intellectual Property Law Section; District of Columbia Bar Association and its Intellectual Property Law Section; Maryland State Bar Association; American Intellectual Property Law Association; Government Intellectual Property Law Association (President, 1999-2000, President-Elect, 1998-99). *ACS Divisions:* Business Development and Management; Chemistry and the Law; Nuclear Chemistry and Technology; Professional Relations; and Small Chemical Businesses.

**Related Activities:** Organizer or Co-organizer, 7 ACS Symposia from 1999-07; 2 Government Intellectual Property Law Association Symposia, 1999-2000; George Washington University: Associate Professorial Lecturer in Law, 1992-97 (teaching Seminar in Law, Science and Technology); Environmental Scientist/Physical Scientist, government agencies, 1973-91; Industrial laboratory scientist, 1967-73; ACS Student Affiliate, 1961-63. Over 100 publications and presentations.

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**HALL, STAN S. *North Jersey Section.*** Rutgers University, Princeton, New Jersey.

**Academic Record:** University of Wisconsin, Madison, B.S., 1963; MIT, Ph.D., 1967.

**Honors:** Sigma Xi; Phi Lambda Upsilon; CIBA-GEIGY Award for Synthetic Organic Chemistry, 1980.

**Professional Positions** (for past ten years): Rutgers University, Emeritus Professor, 2011 to date; Professor of Chemistry, 1978-2011; Merck Research Labs, Visiting Scientist, 2003-04.

**Service in ACS National Offices:** Committee on Constitution and Bylaws, 2013-16, 1994-95, 1987-92, Committee Associate, 2012, 1985-86; Committee on Meetings and Expositions, 2006-11, Committee Associate, 2004-05, 1993; Committee on Public Relations and Communications, 2000-05, Committee Associate, 1998-99.

**Service in ACS Offices:** Member ACS since 1963. *North Jersey Section:* Councilor, 1982-2018, Chair, 1984, Chair-Elect, 1982, Alternate Councilor, 1980-81. *Organic Chemistry Division:* Program Chair, 1998-99.

**Member:** *ACS Division:* Organic Chemistry.

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**HAZARI, ALAN A. *East Tennessee Section.*** University of Tennessee, Knoxville, Tennessee.

**Academic Record:** American University, Cairo, B.S., 1968; Youngstown State University, M.S., 1972; University of Tennessee, Doctor of Science Education, 1997.

**Honors:** ACS Fellow, 2011; David A. Shirley Award, ACS East Tennessee Section, 2004; Helen M. Free Award for Public Outreach, ACS, 2000; Science Educator of the Year, Tennessee Science Teachers Association, 2002; University of Tennessee Chancellor's Citation for Community Service, 1995.

**Professional Positions** (for past ten years): University of Tennessee, Director of Chemistry Labs and Lecturer, 1991-2015.

**Service in ACS National Offices:** Committee on Community Activities, 2015-17, Committee Associate, 2012-14; Committee on Chemical Safety, Consultant, 2011, 2001-10, Chair, 2005-07, Committee Associate, 2001; Committee on Local Section Activities, Committee Associate, 2011.

**Service in ACS Offices:** Member ACS since 1972. *East Tennessee Section:* Councilor, 2000-17, Chair, 1996, Chair-Elect and Program Chair, 1995, Secretary, 1993-94; Tennessee Government Affairs Committee, 2008 to date; ACS Tour Speaker, 1998 to date.

**Member:** Institute for Chemical Education; National Science Teachers Association; Tennessee Science Teachers Association; Institute for Inquiry. *ACS Divisions:* Chemical Education.

**Related Activities:** University of Mississippi, Director of Chemistry Labs, 1976-91; Tougaloo College, Instructor, 1973-76; Croydon Hall Academy, Science and Math Teacher, 1970-71; Shouf College, Lebanon, Chemistry Instructor, 1968-70.

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**HINKLE, AMBER S. Greater Houston Section.** HSEQ, Covestro LLC, Baytown, Texas.

**Academic Record:** University of Utah, B.S., 1990; University of Washington, M.S., 1992; Ph.D., 1995.

**Honors:** ACS Fellow 2012; ACS Salute to Excellence, Nashville Local Section for Contributions to Women in the Chemical Sciences, February 2009; Award for Excellence in Manufacturing from the Manufacturing Institute 2013; Fourteen Bayer Special Recognition Awards from 1998-2009 for Outstanding Contributions to the Business; Bayer 2009 Science and Technology Award for Improved Product Performance.

**Professional Positions** (for past ten years): Vice President, Health, Safety, Environment, and Quality (HSEQ) for Covestro Baytown Site, 2015 to date; Director HSEQ for Bayer MaterialScience Baytown Site, 2010-15; Lab Manager and Quality Lead for Bayer Polycarbonate Manufacturing, 2003-10; Additional responsibilities as Baytown Site Change Management Team Lead, 2009-10.

**Service in ACS National Offices:** Committee on Committees, 2011-16; Committee on Planning, Consultant, 2016; Strategic Planning Retreat Facilitator, 2012 to date; Committee on Community Activities, 2010, Committee Associate, 2009; Women Chemists Committee, 2001-08, Chair, 2006-08, Committee Associate, 1997-2000; Leadership Advisory Board, Co-Chair, 2009-14; Facilitator for two Society Leadership Courses, 2008 to date; ACS Presidential Task Force on Women in the Chemical Profession.

**Service in ACS Offices:** Member ACS since 1993. *Greater Houston Section:* Councilor, 2010-18; Alternate Councilor, 2008-09; Director, 2007-08; Organized Annual Strategic Planning Sessions, 2008-12. *St. Joseph Valley Section:* Chair 1997 (partial), Chair-Elect, 1996.

**Member:** Association for Change Management Professionals. *ACS Division:* Chemical Health and Safety.

**Related Activities:** Co-facilitated 20 ACS strategic planning retreats; Member Review Board for Chemical Sciences Programs at East Texas Technical College; Editor of Book *Successful Women in Chemistry*, Oxford and ACS, 2005; chaired over 15 Symposia at ACS National Meetings; given over 25 talks at ACS National Meetings; Speaker at 2010 Prosci Global Change Management Conference; facilitated over 40 leadership courses for ACS at local and national level; spoke at University of Washington on Careers in

Chemistry, 2007; Member of Planning Board for Council for Chemical Research 2008, National Meeting; perform community outreach with annual chemistry demonstrations for students in the Barbers Hill Independent School District, Mont Belvieu, TX; 10 journal publications and 1 patent for sensor technology.

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**JESPERSEN, NEIL D. *New York Section.*** St. John's University, Jamaica, New York.

**Academic Record:** Washington and Lee University, B.S., 1967; Pennsylvania State University, Ph.D., 1971.

**Honors:** Salute to Excellence Award, New York Section, ACS, 2004; Outstanding Service Award, New York Section, ACS, 1996; E. Emmet Reid Award, Maryland Section, ACS, 1996; Outstanding Faculty Award, St. John's University, 1996; Sigma Xi.

**Professional Positions** (for past ten years): St. John's University, Department Chair, 1997-03, Professor, 1994 to date.

**Service in ACS National Offices:** Board of Directors, Director District I, 2010-12; Councilor ex-officio, 2010-12; Committee on Budget and Finance 2011-16, Committee Associate 2010; Program Review Subcommittee, 2016; Program Review Advisory Group 2010-12; ACS Fellows Oversight Committee, 2010-12, Chair, 2014-16; Committee on Committees, 2003-09, 1999-02, Chair, 2005-07; Council Policy Committee, (Nonvoting) 2005-07; Committee on Economic and Professional Affairs, 2003; Committee on Meetings and Expositions, 1993-98, Committee Associate, 1992; Summit on ACS Committee Structure, co-Chair, 2007; Joint Board/Council Governance Review Task Force, 2005-06; Committee on Committees, Task Force on a Proposed Committee on Ethics, 2000; Council Policy Committee, Task Force on Ethics, 2001-02; Presidential Task Force on Support to Divisions and Local Sections, 2000; Committee on Committees, Task Force on Increasing Underrepresented Minority Participation in ACS Governance, 1999-02; Task Force on Meeting Registration Fees, 1998-99.

**Service in ACS Offices:** Member ACS since 1969. *New York Section:* Councilor, 1991-16; Chair, 1991; Chair-Elect, 1990; Treasurer, 1998-2000; Section Office Manager, 1992-16; Nichols Medal Jury, 1992-95; Chair, 1995; Bylaws Committee, 1994-09, Chair 1997-09; Chemistry Olympiad Committee, 2002-06; Membership Committee Chair, 2004-16; Student Member Committee, 1983-16; Site Selection Committee, 1992-16; National Chemistry Week Committee, 1993-16; Awards Committee, 1993-09. *Middle Atlantic Regional Meeting:* Organizing Committee Consultant, 2016; Student Affiliate Program Chair, 2007-08; Long Range Planning Committee, 2001-09, 1988-97; Environmental Chemistry Committee, 2001-12, 1986-94; Exhibits Chair 1996-97; Short Course and Workshop Chair 1992-93; Nominations and Elections Committee, 1991-93; Membership Affairs Committee, Chair, 1993; Public Relations Committee, 1990, Program Committee Chair, 1990; Industry Academe Committee, 1990-09. *Long Island Subsection:* Chair, 1989, Chair-Elect 1988; Awards Committee Chair, 1990-06; Analytical Chemistry Committee Chair, 1990-16; Environmental Chemistry Committee, 1990-09, Chair 1996-98; MetroChem 1985 Symposium Organizer and Presider 1985. *Central Texas Section:* Education Committee 1976-77. *Division of Analytical Chemistry:* Professional Statistics Committee, 1989-90.

**Member:** American Association for the Advancement of Science; New York Academy of Science; Sigma Xi. *ACS Divisions:* Analytical Chemistry and Chemical Education.

**Related Activities:** Board of Directors Operations and Technology Team chair; Budget and Finance Communications Committee; Governance Review Committee Summit, Co-chair, 2007; *Eastern Analytical Symposium*, Publicity Chair, 2001, Workshops Committee Chair, 1999, Awards Chair, 2004, 1997, Program Chair, 1995, Chair, 1992, Chair-Elect 1991, Treasurer 1990; Academic Careers in Chemistry Workshop organizer, 1999-05; University of Texas, Assistant Professor, 1971-77.

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**LANDIS, JAMES M., Jr., *Detroit Section.*** Retired, Henkel Corporation, Madison Heights, Michigan.

**Academic Record:** Northern Michigan University, B.A., 1977, M.A., 1980.

**Honors:** Detroit Section, ACS, Salutes to Excellence Award, 2013, Distinguished Service Award, 2001; Sigma Xi, 1980.

**Professional Positions** (for past ten years): Retired, 2014, Henkel Corporation, Research Chemist to Senior Research Scientist, 1980-2014.

**Service in ACS National Offices:** Committee on Membership Affairs, 2016-17, Chair, 2016; Council Policy Committee, (Nonvoting 2016); Committee on Committees, 2009-11, Secretary, 2011; Committee on Meetings and Expositions, 2003-08; Committee on Chemists with Disabilities, 2003-08, 1991-93, Chair, 2006-08.

**Service in ACS Offices:** Member ACS since 1979. *Detroit Section:* Councilor, 2002-16, Alternate Councilor, 2001, Secretary, 1998-99; Local Section Editor and Publications Committee Chair, 1999-2015. *Central Regional Meeting (CERMACS):* 2017, 2012, Publications.

**Member:** Microscopy Society of America; International Union of Pure and Applied Chemistry. *ACS Divisions:* Analytical Chemistry and Professional Relations.

**Related Activities:** Serving on Collaborative for Re-imagining a Diverse ACS Membership, 2016.

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**LANE, THOMAS H. *Midland Section.*** Retired, Midland, Michigan.

**Academic Record:** Purdue University, B.S. in Chemistry (Honors), 1974; Central Michigan University, M.S., 1979; The Open University (Milton Keynes, England), Ph.D., 1990.

**Honors:** ACS Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences, 2016; ACS Henry Hill Award, 2016; ACS Fellow, 2011; Doctor of the University (honoris causa), Open University (2011); Purdue University Distinguished Alumni Award, 2009; Elected, Charter Scientist, The Science Council (UK), 2004; Central Michigan University Distinguished Alumni Award, 2002; Award for Outstanding Achievement and Promotion of the Chemical Sciences, Midland Section, ACS, 1994, 1991; Dr. Martin Luther King, Jr., Recognition Award, 1995; Elected, Fellow, Royal Society of Chemistry, 1994; Elected, Charter Chemist, RSC, 1994; Lynn Heatley Award for Distinguished Service, Delta College, 1986.

**Professional Positions** (for past ten years): Retired; Delta College, CAO and Vice President of Instruction and Learning Services, 2010-13; Retired, Dow Corning Corporation, S&T Director and Senior Research Scientist; Visiting Professor of Chemistry, Open University, Milton Keynes, England, 2003-16.

**Service in ACS National Offices:** Board of Directors, 2008-10; Ex Officio Councilor, 2008 – Lifetime; Past President, 2010; President, 2009; President-Elect, 2008; Committee on Budget and Finance, 2007-16, Vice-Chair 2010, Committee Associate, 2006; Executive Committee, 2008-10; Committee on Corporation Associates, 2000-07, Chair 2005-07, Vice-Chair 2002-04, Consultant 2010-15; Board of Trustees, Group Insurance Plans for ACS Members, 2002-10, Chair, 2007-10, Vice-Chair and Chair Pro Tem 2006; Committee on Committees, Member Ex Officio, 2008; Council Policy Committee (Voting), 2008-10, Chair, 2009; Committee on Grants and Awards, 2008-09; Committee on Public Affairs and Public Relations, 2008; Committee on Executive Compensation, 2008-10, Chair, 2010; Development Advisory Board, 2008-10; Committee on Planning, 2008-10; Committee on Education, 2011-16; Leadership Advisory Board, 2011-16.



**Service in ACS Offices:** Member ACS since 1973. *Midland Section:* Councilor, 2005-07, Alternate Councilor, 2003-05; Past Chair, 1997, 1987, Chair, 1996, 1986, Chair-Elect, 1995, 1985; Secretary, 1982; Board of Directors, 1984-95, 1982, 2015, Ex Officio Director; Executive Committee, 1996-97, 1985-94, 1982, 2015, Ex Officio; ACS National Science Foundation Network Member, 1991-00; Several other local and regional committee assignments.

**Member:** American Association of Chemistry Teachers; Alpha Chi Sigma; Royal Society of Chemistry; Sigma Xi; The Scientific Research Honor Society, President Midland Chapter, 1988-89, North Central Region Associate Director, 2015-17; American Indian Science and Engineering Society (Sequoia Fellow), Society for the Advancement of Hispanic/Chicanos & Native Americans in Science (Life Member). *ACS Divisions:* Chemical Technicians; Industrial and Engineering Chemistry; and Professional Relations.

**Related Activities:** Trustee and Past Chairman of the Board of Trustees, Adjunct (1979-1987) Delta College, University Center; Trustee, Delta College Foundation Board; Trustee and Vice President, Dow Corning Foundation; Direct, Midland Rotary, 2015-17; Director, Big Brothers and Big Sisters, 2007-10; Board of Managers, Alden B. Dow Museum of Science and Art, 2004-10.

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**LYNCH, WILL E. Coastal Georgia Section.** Armstrong Atlantic State University, Savannah, Georgia.

**Academic Record:** Kalamazoo College, B.A., 1986; Wayne State University, Ph.D., 1991.

**Honors:** Coastal Georgia Section ACS, Service Award, 1999; Armstrong Atlantic State University, Alumni Award for Service to the Discipline, 2004; Sigma Xi.

**Professional Positions (for past ten years):** Armstrong State University, Department Head, 2006 to date; Professor, 2005 to date; Associate Professor, 1997-05; Assistant Professor, 1993-97; University of Georgia, Postdoctoral, 1991-93.

**Service in ACS National Offices:** Committee on Meetings and Expositions, 2011-16; Chair, 2013-15; Committee on Committees, 2008-10; Council Policy Committee (Nonvoting), 2005-07; Committee on Local Section Activities, 2002-07, Chair, 2005-07; Committee Associate, 2000-01; Committee on Planning, 2005-07.

**Service in ACS Offices:** Member ACS since 1987. *Coastal Georgia Section:* Councilor, 1999-2016; Chair, 2009, 1997; Chair-Elect, 1996; *Noble Gas Editor*, 2006, 1997-2000; Executive Committee, 1996 to date. *Southeastern Regional Meetings:* Chair-Elect, 2016; Bioinorganic Modeling, Symposium Organizer, 2006; Technical Program Chair, 1998-2001; Steering Committee, 1997-2001; Symposium Organizer, 125<sup>th</sup> Anniversary, ACS, Charles Herty and the Savannah Pulp and Paper Laboratory, National Historic Chemical Landmark, Symposium, 2001; Symposium Organizer, Advances in Modern Inorganic Laboratories, 2001. *ACS Southeastern Region:* Past-Chair 2006, Chair 2005, Chair-Elect 2004.

**Member:** American Physical Society; Council on Undergraduate Research; Chemical Heritage Foundation. *ACS Divisions:* Chemical Education; Inorganic Chemistry and Professional Relations.

**Related Activities:** United States National Chemistry Olympiad College Mentor, 2008, 2007; Project SEED Coordinator, 2003; ACS Student Affiliates Advisor, 1996-99.

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**MAUTINO, V. MICHAEL** *Pittsburgh Section*. Covestro, LLC, Pittsburgh, Pennsylvania.

**Academic Record:** University of Phoenix, B.S., 2004.

**Honors:** ACS Pittsburgh Section, Outreach Volunteer of the Year Award, 2014; ACS Pittsburgh Section, Distinguished Service Award, 2011; ACS Fellow, 2010; Salutes to Excellence Award, Committee on Community Activities, 2007, 2004, ACS Division of Chemical Technicians, 2009; Special Recognition Award, ACS Division of Chemical Technicians, 2005; Technician of the Year, Western Pennsylvania Technician Affiliate Group, 1999; Special Recognition Award, Western Pennsylvania Technician Affiliate Group, 1999.

**Professional Positions** (for past ten years): Covestro LLC, Product Line Manager, 2012 to date; Marketing Representative, 2006-12.

**Service in ACS National Offices:** Committee on Committees, 2010-16; Committee on Technician Affairs, 2003-09, Chair, 2007-09, Committee Associate, 2000-02; Membership Affairs Committee, Committee Associate, 2008-09; Innovation Task Force, Chair, 2009; Committee on Community Activities, 2004-06, Chair, 2004-06; Program Review Advisory Group, 2006; Editorial Board, *JobSpectrum.com*, 2002; National Chemistry Week Task Force, 2001-03.

**Service in ACS Offices:** Member ACS since 1997. *Pittsburgh Section:* Councilor, 2003-17; Alternate Councilor, 2001-02; National Chemistry Week Coordinator, 1999 to date; Chemists Celebrate Earth Day Coordinator, 2003 to date; Central Regional Meeting Planning Committee, 2002-03; Nominations and Elections Committee, 1999; Technician Affiliate Group, 1996-2009, Chair, 2007-09, 1997-98; Technician Affiliate Group Recognition Committee, Chair, 1996, 2004. *Division of Chemical Technicians:* Chair, 2002; Chair-Elect, 2001; Membership Committee, Chair, 2007-09; Nominations and Elections Committee, Chair, 2001; Strategic Planning Committee, Chair, 2001.

**Member:** ACS Technician Affiliate Groups (TAG): Western Pennsylvania; Mid-Michigan.

**Related Activities:** Bayer Association for Science in Communities, 1996-15; Covestro i<sup>3</sup> STEM Outreach, 2015 to date; *Advisory Board, Governor's Institute of Physical Science Education, 2002*; holds two patents in polyurethane chemistry.

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ELECTION TO  
COMMITTEE ON COMMITTEES

Action Requested. The Committee on Nominations and Elections has selected the following slate of candidates for membership on the Committee on Committees:

- |                           |                         |
|---------------------------|-------------------------|
| 1. Gary D. Anderson       | 6. Emilio X. Esposito   |
| 2. Sandra J. Bonetti      | 7. Robert J. Hargrove   |
| 3. Dee Ann Casteel        | 8. Martha G. Hollomon   |
| 4. D. Richard Cobb        | 9. Wayne E. Jones, Jr.  |
| 5. Jacqueline A. Erickson | 10. Stephanie J. Watson |

The Council must elect five individuals. The five candidates receiving the highest numbers of votes will be declared elected for the 2017-2019 term. All the candidates have indicated their willingness to serve if elected. Biographies of the candidates are summarized at the end of the item.

Supplementary Information:

**Description of Duties and Desired Characteristics for Members of the  
Committee on Committees (ConC)**

The Committee on Committees (ConC) has key responsibilities to assist and advise on appointments of chairs and members of Council-related bodies, along with evaluating and making recommendations concerning responsibilities and size of committees.

To succeed in these activities, ConC elected members should have a combination of qualities, including extensive familiarity with ACS committees and a broad network within the Society and the chemical profession. Members of ConC must be a Councilor.

Candidates are expected to have available time and energy during and between National meetings to serve as a Liaison to two committees (for observation, talent recruitment, succession planning, leadership development and coaching) along with ConC closed sessions.

The candidate's personal qualities should include strong written and oral communication skills, respect for confidentiality, and diplomacy.

At the *spring national meeting*, ConC meets on Monday and Tuesday from 1:30 p.m. until 5:00 p.m. During the *fall national meeting*, ConC has three sessions: Monday, from 1:30 noon until 6:00 p.m.; Tuesday, from 1:30 p.m. until 5:00 p.m.; and on Wednesday, (immediately following Council) 1:00 p.m. until 6:30 p.m. A reception and dinner takes place at a restaurant from 7:00 p.m. until 9:30 p.m.

Members of ConC must be voting Councilors.

Those members of the Committee of Committees whose terms end on December 31, 2016 are:

Janet Bryant, Business Development & Management (Richland Section)  
Dee Ann Casteel, Susquehanna Valley Section  
Amber S. Hinkle, Greater Houston Section  
Wayne E. Jones, Jr., Binghamton Section  
V. Michael Mautino, Pittsburgh Section

Janet Bryant, Amber S. Hinkle, and V. Michael Mautino are ineligible for reelection.

The present members of the Committee on Committees who will continue on that body are:

2016-2018

Christopher J. Bannochie, Savannah River Section  
Michelle V. Buchanan, Analytical Chemistry (East Tennessee Section)  
Alan B. Cooper, North Jersey Section  
Donna G. Friedman, St. Louis Section  
Carolyn Ribes, Brazosport Section

2015-2017

Mitchell R.M. Bruce, Maine Section  
Jetty L. Duffy-Matzner, Sioux Valley Section  
Bonnie Lawlor, Chemical Information (Philadelphia Section)  
Zaida C. Morales-Martinez, South Florida Section  
Robert A. Pribush, Indiana Section

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**ANDERSON, GARY D.** *Central Ohio Valley Section.* Marshall University, Huntington, West Virginia.

**Academic Record:** University of Oklahoma, B.S., 1964, M.S., 1965; Florida State University, Ph.D., 1972.

**Honors:** Alpha Chi Sigma: Kuebler Award, 2016.

**Professional Positions** (for past ten years): Marshall University, Professor Emeritus 2008 to date; Professor, 1992-2008; Associate Professor, 1985-92; Assistant Professor 1981-85.

**Service in ACS National Offices:** Committee on Local Section Activities, 2015-16; Committee on Divisional Activities, 2008-2015; Leadership Advisory Board, 2013-2015; Committee on Meetings and Expositions, 2001-07, Committee Associate, 2000-01.

**Service in ACS Offices:** Member ACS since 1966. *Central Ohio Valley Section:* Councilor, 1999-2016; Alternate Councilor, 1989-98; Chair, 1985; Chair-Elect, 1984; Treasurer, 1982-83; Newsletter Editor and Webmaster, 2008-16, 1994-02; Long-Range Planning Committee, Chair, 1998; National Chemistry Week Chair, 1998-05; Public Relations Chair, 1992-99. *Kansas City Section:* Secretary, 1980; Education Committee Chair, 1978-79.

**Member:** Alpha Chi Sigma, Sigma Xi; Phi Lambda Upsilon. *ACS Divisions:* Chemical Education; History of Chemistry, and Organic Chemistry.

**Related Activities:** Chemical Heritage Foundation, member of Heritage Council and of Instruments and Artifacts Committee, 2000 to date.

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**BONETTI, SANDRA J.** *Colorado Section.* Colorado State University-Pueblo, Pueblo, Colorado.

**Academic Record:** Georgia Institute of Technology, B.S., 1977, Ph.D., 1989.

**Honors:** ACS Fellow, 2011; Colorado State University-Pueblo College of Science and Mathematics Outstanding Faculty Award, 1999; University of Southern Colorado Provost's Award for Excellence in Scholarly Activity, 1995; University of Southern Colorado College of Science and Mathematics Outstanding Faculty Award, 1992; Phi Kappa Phi; Sigma Xi.

**Professional Positions** (for past ten years): Colorado State University-Pueblo, (formerly University of Southern Colorado), Chemistry Professor, 2002 to date; Director, Minority Biomedical Research Support (MBRS) Program, 1999-2007; Associate Professor, 1996-2002; Colorado State University, (Ft. Collins) Sabbatical, 2007-08.

**Service in ACS National Office:** Committee on Project SEED, 2008-16, Chair, 2012-14, Committee Associate, 2006-07.

**Service in ACS Offices:** Member ACS since 1979. *Colorado Section:* Councilor, 2004-17; Alternate Councilor, 2002-03; Project SEED Committee, 2011-16; List Serve Manager, 2011 to date.

**Member:** American Association for the Advancement of Science (AAAS); American Society for Biochemistry and Molecular Biology (ASBMB), Member ASBMB Women's Subcommittee 1992-1995, Co-Chair 1994-1996; Federation of the American Societies of Experimental Biology (FASEB); Society for the Advancement of Chicanos and Native Americans in Science (SACNAS); Phi Kappa Phi Colorado State University Chapter, Chapter President 1996, President-elect 1995; Sigma Xi Colorado State University Chapter, Chapter President 2000, President-elect 1999. *ACS Divisions:* Biological Chemistry; Carbohydrate Chemistry; and Chemical Education.

**Related Activities:** Mentor to 5 Project SEED student researchers 2010 to date; Organizer yearly Colorado Section meetings in the southern Colorado; Organizer: 2013 National Chemistry Week Celebration featuring interactive chemical demonstrations "Boiling Cold...Freezing Hot" by Drs. Lang and Showalter including a Saturday workshop "Practical Chemistry for the Classroom: Chemical Demonstrations with a Theme" for K-12 teachers; Served on grant review panels for the National Institutes of Health Graduate Fellowships/Cellular Biology Panel, August 1998; and National Science Foundation Course Curriculum Laboratory Improvement Program/Chemistry Panels, July 2000 and July 2001.

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**CASTEEL, DEE ANN** *Susquehanna Valley Section.* Bucknell University, Lewisburg, Pennsylvania.

**Academic Record:** Coe College, B. Music, 1979; University of Illinois, Ph.D., 1985.

**Honors:** Phi Beta Kappa; Sigma Xi; Brown University Postdoctoral Fellow, 1985-87.

**Professional Positions** (for past ten years): Bucknell University, Department Chair 2015 to date, Associate Professor, 1998 to date, Associate Dean, 2008 to 2014, Assistant Professor, 1994-98.

**Service in ACS National Offices:** Committee on Committees, 2014-16; Committee on Constitution and Bylaws, Committee Associate, 2013; Council Policy Committee, (Nonvoting), 2012; Committee on Meetings and Expositions, 2006-12, Chair, 2012, Chair-Elect, 2011, Subcommittee Chair 2009-11, Committee Associate, 2005-06; Women Chemists Committee, 1989-97, Committee Associate, 1988.

**Service in ACS Offices:** Member ACS since 1982. *Susquehanna Valley Section:* Councilor, 2010-17; Alternate Councilor, 1998-03; Past Chair 1997; Chair, 1996; Chair-Elect, 1995; Executive Committee, 1995 to date.

**Member:** *ACS Divisions:* Organic Chemistry; and Medicinal Chemistry.

**Related Activities:** Task Force on National Meetings, Chair, 2013; Sustainability Stakeholders Steering Group, 2009-11; Editor, *Women Chemists*, Newsletter, 1994-97; Task Force on the 70<sup>th</sup> Anniversary of the WCC Video Chair, 1997; Local Section Mentoring Program Task Force, 1996-97; Editorial Board, *Reaction Times*, 1995-98; University of Iowa, College of Pharmacy, Assistant Professor, 1987-94.

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**COBB, D. RICHARD** *Rochester Section*. Retired, Eastman Kodak Company, Rochester, New York.

**Honors:** Northeast Region ACS Volunteer Award, 2006; Special Recognition Award, ACS Division of Chemical Technicians, 2005, 2002; ACS Rochester Section Award, 2005, 2001; ACS Rochester Section, "Salutes to Excellence" Award, 2004.

**Professional Positions** (for past ten years): Retired, Eastman Kodak Company, Senior Research Associate, 1969-2011; Division Health, Safety and Environmental Director, 2000-11.

**Service in ACS National Offices:** Committee on Nominations and Elections, 2011-16, Chair, 2015-16; Council Policy Committee (Non-voting), 2015-16, 2008-10; Committee on Membership Affairs, 2008-11, Chair, 2008-10, Committee Associate, 2007; Board of Trustees, Group Insurance Plans, 2008-10, ex officio, 2008-09; Committee on Admissions, 2002-07, Consultant, 2008, Chair, 2003-05, Committee Associate, 2000-01; Committee on Technician Affairs, 1998-03, Chair, 2000-02, Committee Associate, 1997; ACS Governance Review Taskforce, 2005; Board Oversight Group on Leadership Development, 2005.

**Service in ACS Offices:** Member ACS since 1994. *Rochester Section:* Councilor, 2008-16, 1999-03; Chair, 2007, Chair-Elect, 2006; Secretary, 2005; Alternate Councilor, 2004, 1998-99; Treasurer, 1995-97. *Division of Business Development & Management:* Immediate Past Chair, 2016, Chair, 2015, Chair-Elect 2014. *Division of Chemical Technicians:* Councilor, 2007-09, Chair, 1997; Chair-Elect, 1996; Membership Committee, Chair, 1998. *Northeast Regional Board of Directors:* Vice Chair, 2007 to date. *Northeast Regional Meeting:* General Chair, 2004.

**Member:** *ACS Division:* Business Development & Management.

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**ERICKSON, JACQUELINE A.** *North Jersey Section*. GlaxoSmithKline Consumer Healthcare, Warren, New Jersey.

**Academic Record:** University of Delaware, B.S., 1988; Rutgers University, M.S., 1999.

**Professional Positions** (for past ten years): GSK Consumer Health Care, Senior Development Scientist, 2006 to date; Senior Analytical Scientist, 1996-2006; Analytical Scientist, 1988-96.

**Service in ACS National Offices:** Committee on Community Activities, Committee Associate, 2014-16; Committee on Economic and Professional Affairs, 2011, Committee Associate, 2010; Committee on Membership Affairs, 2006-11, Committee Associate, 2005; Women Chemists Committee, Committee Associate, 2001-05.

**Service in ACS Offices:** Member ACS since 1988. *North Jersey Section:* Councilor, 2014-17, 2000-11; Alternate Councilor, 2012-13; Treasurer, 2008-16; Chair, 2005, Chair-Elect, 2004; Nominating Committee, 2010-11, 2005-08, Chair 2007; MetroWomen Chemists Committee, Co-Chair, 2008; Finance Committee, 2007-16, 2005; Indicator Committee, 2007-12, 2004-05; Younger Chemists Committee, Chair 2000-03. *Middle Atlantic Regional Meeting:* Executive Committee, 2005, Arrangements Chair. *ACS Divisions:* Analytical Chemistry; Chemical Information; and Professional Relations.

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**ESPOSITO, EMILIO X.** *Division of Computers in Chemistry (Michigan State University Section).*  
exeResearch, LLC, East Lansing, Michigan.

**Academic Record:** Duquesne University, B.S., 1997; Duquesne University, Ph.D. 2003.

**Professional Positions** (for past ten years): *exeResearch LLC*, Chief Science Officer and Founder, 2008-16. *The Chem21 Group, Inc:* Senior Consulting Computational Chemist, 2006-15. *Community Structure-Activity Resource Project, University of Michigan:* Visiting Assistant Research Scientist, 2010-11. *Chemical Computing Group, Inc:* Applications Scientist, 2006-08. *North Dakota State University:* Computational Staff Scientist, 2003-06.

**Service in ACS National Offices:** Committee on Meetings and Expositions, 2011-16, Committee Associate, 2009-10.

**Service in ACS Offices:** Member ACS since 1999. *Computers in Chemistry Division:* Councilor, 2009-16, Alternate Councilor, 2008; Program Chair, 2011-15, Assistant Program Chair 2006-10. *Red River Valley Section:* Chair-Elect, 2006.

**Member:** American Statistical Association, 2012-16; Sigma Xi - The Scientific Research Society, 1998-2016. *ACS Divisions:* Biological Chemistry; Chemical Information; and Medicinal Chemistry.

**Related Activities:** *Teach-Discover-Treat*, Steering Committee, 2013-16; *Chemistry Day at Impression 5 Museum*, Lansing, Michigan, 2008-16, 2005.

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**HARGROVE, ROBERT J.** *Middle Georgia Section.* Mercer University, Macon, Georgia.

**Academic Record:** Ohio Wesleyan University, B.A., 1964; University of Utah, Ph.D., 1974; University of Alabama, Birmingham, M.P.H., 1987.

**Honors:** Spencer B. King Outstanding Faculty Award, Mercer University, College of Liberal Arts, 1996; William C. Foster Fellow, Arms Control & Disarmament Agency, U.S. Department of State, 1995-96; Fulbright Senior Lecturer, Cuttington University College, Liberia, 1981-82.

**Professional Positions** (for past ten years): Professor Emeritus, Mercer University 2009 to date; Professor, Mercer University, 1975 to 2009; Volunteer Professor, Cuttington University, Suakoko, Liberia, Spring 2006, 2007.

**Service in ACS National Offices:** Committee on Meetings and Expositions, 2013-16, Committee Associate, 2009-12.

**Service in ACS Offices:** Member ACS since 1970. *Middle Georgia Section:* Councilor, 2008-16; Alternate Councilor, 2005-08; Charter Chair, 2001-02.

**Member:** Fulbright Association (Life Member).

**Related Activities:** U.S. Naval Reserve: USS Clarke County (LST-601) Meritorious Service, National Defense, Vietnam Service (4 awards), Vietnam Campaign Medals; CWBD R&D Management; Office of Naval Research, 1964-95; Retired Captain (O-6); Volunteer, Ocmulgee National Monument, Daybreak-Macon; Theatre Macon; Choral Society of Middle Georgia.

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**HOLLOMON, MARTHA G. *Delaware Section.*** Widener University, Chester, Pennsylvania.

**Academic Record:** Virginia Tech, B.S., Chemistry 1983; North Carolina State University, M.S., Textile Chemistry 1993, Ph.D., Organic Chemistry 1998.

**Honors:** Tillmans-Skolnik Award, Delaware Section ACS, 2000; Phi Lambda Upsilon; Professional Development Award, Research Triangle Institute, RTP, NC, 1990.

**Professional Positions** (for past ten years): Widener University, Adjunct Assistant Professor, 2009 to date; Delaware Technical and Community College, Adjunct Instructor, 2012 to date; Hercules Incorporated, Senior Staff Scientist, 2001-09, Senior Research Chemist, 1998-01.

**Service in ACS National Offices:** Committee on Meetings and Expositions, 2013-16, Committee Associate, 2011-12; Committee on Local Section Activities, 2005-10, Committee Associate, 2004; Committee on Public Relations and Communications, LSAC Liaison, 2006-10; ACS Board-Presidential Task Force on Society Services and Associated Dues Pricing Models 2010.

**Service in ACS Offices:** Member ACS since 1984. *Delaware Section:* Councilor, 2004-18, Immediate Past Chair 2003, Chair, 2002, Chair-Elect, 2001. *Middle Atlantic Regional Board:* Chair, 2012 to date, Secretary, 2007-11; 41<sup>st</sup> Middle Atlantic Regional Meeting, Wilmington, DE, General Chair, 2010.

**Member:** Delaware Academy of Chemical Sciences, 2006 to date, Secretary 2009 to date; Alpha Chi Sigma, Gamma Omicron. *ACS Divisions:* Organic Chemistry and Polymer Chemistry.

**Related Activities:** Sustainability Engagement Event (SEE) Participant 2010; North Carolina University, Graduate, Research Assistant, 1993-98, Graduate Teaching Assistant, 1994-97.

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**JONES, WAYNE E., JR. *Binghamton Section.*** State University of New York - Binghamton, Binghamton, New York.

**Academic Record:** St. Michael's College, B.S., 1987; University of North Carolina, Ph.D., 1991.

**Honors:** E. Anne Nalley Northeast Region Award for Volunteer Service, 2015; ACS Fellow, 2010; Distinguished Service Award, Binghamton Section, ACS, 1999; Honorary Golden Key Faculty Award 2005; State University of New York Chancellors Award for Excellence in Teaching, 2001, University Award for Excellence in Teaching, 2001; Who's Who Among American Teachers 1998, Who's Who in Science and Engineering 2001 to date; Alpha Xi Sigma Teaching Award, 1996.

**Professional Positions** (for past ten years): Binghamton University, Interim Dean of Arts and Sciences, 2012-13; Department Chair 2009 to date; Professor, 2006 to date; Associate Professor, 1999-2006; Deputy to the President, 2001-06; Director, Center for Learning and Teaching, 1996-2009; University of Pennsylvania, Visiting Professor, 2000; Assistant Professor, 1993-99.

**Service in ACS National Office:** Committee on Committees, 2014-16, Chair, 2015-16; Committee on Membership Affairs, 2010-13, Chair, 2011-13, Program Review Advisory Group, 2010-12; Council Policy Committee, ex officio (Nonvoting), 2015-16, 2010-12, 2008-09; Committee on Local Section Activities, 2003-09, Chair, 2008-09; Board Committee on Planning, (Nonvoting), 2008.

**Service in ACS Offices:** Member ACS since 1989. *Binghamton Section:* Councilor, 1997-17, Chair, 2001, Chair-Elect, 2000. *Northeast Regional Meeting Board:* Treasurer, 2007-16. *34th Northeastern Regional Meeting:* Chair, 2005-06. *41st Northeastern Regional Meeting:* Chair, 2015-16. *Division of Chemistry Education:* Program Committee, 2005-15, Co-Program Chair, Denver, 2015, 2011, Chicago, 2007.



**Member:** American Association for the Advancement of Science; Materials Research Society. *ACS Divisions:* Chemical Education; and Inorganic Chemistry.

**Related Activities:** Graduate Program Director, 2006-09; Director, Go Green Institute, 2008 – to date; Undergraduate Program Chair, 1996-2001; SUNY Faculty Access to Computing Technology Advisory Committee, 2001-06; Guest Editor, special issue of *Journal of Educational Technology Systems*, 2005-08; Education Director, Center for Advanced Microelectronics Manufacturing, 2006-09; Science Olympiad Volunteer, 1996-2009; Science Olympiad PR Chair, 2005-09; Chemistry Olympiad Coordinator, 1995-98. Author of over 125 publications and book chapters, 9 patents, approximately 245 invited lectures, and organizer/co-organizer of 8 national and international symposia in Inorganic Chemistry, Polymer Chemistry, and Chemical Education.

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**WATSON, STEPHANIE J. Maryland Section.** National Institute of Standards and Technology (NIST), Gaithersburg, MD.

**Academic Record:** University of Pittsburgh, Ph.D., 1997; College of Wooster, B.A., 1989.

**Professional Positions** (for past ten years): NIST, Engineering Laboratory, Polymeric Materials Group Leader, 2014 to date; Research Chemist, 2002-14.

**Service in ACS National Offices:** Meetings and Exhibitions, 2016, Committee Associate 2016; Committee on Local Section Activities, 2010-15, Committee Associate, 2009.

**Service in ACS Offices:** Member ACS since 1989. *Maryland Section:* Councilor, 2007-17; Chair-Elect, 2015, 2005; Chair, 2007; Vice-Chair, 2015-16, 2006; Secretary, 2002-04. *Middle Atlantic Regional Meeting:* General Co-Chair, 2012.

**Member:** Sigma Xi. *ACS Divisions:* Analytical Chemistry and Colloid & Surface Chemistry.

**Related Activities:** Millennium Inorganic Chemistry (Cristal Global), Senior Scientist, 1998-2002.

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## REQUEST FOR SUGGESTIONS FOR 2018 ELECTED COMMITTEES

### A Reminder

At the Council meeting in Philadelphia, Pennsylvania, Councilors will elect members to the Committee on Committees, Council Policy Committee, and Committee on Nominations and Elections to fill 2017-2019 terms. The process to select nominees for 2018-2020 terms will begin almost immediately. The Committee on Nominations and Elections therefore asks each Councilor to examine the following list of Elected Committee positions with terms ending on December 31, 2017, and the list of the other members of these committees. Names of individuals suggested for nomination should be inserted on the form on page 48. This form may be left on the registration table as you leave the Council meeting or emailed to the Chair of the Committee: Mr. D. Richard Cobb, nomelect@acs.org.

### COMMITTEE ON COMMITTEES

Members of the Committee on Committees (ConC) whose terms end on December 31, 2017, are:

Mitchell R.M. Bruce, Maine Section  
Jetty L. Duffy-Matzner, Sioux Valley Section  
Bonnie Lawlor, Chemical Information (Philadelphia Section)  
Zaida C. Morales-Martinez, South Florida Section  
Robert A. Pribush, Indiana Section

Bonnie Lawlor and Zaida C. Morales-Martinez are ineligible for reelection.

The other elected members serving on the Committee on Committees are:

#### Term ending December 31, 2018

Christopher J. Bannochie, Savannah River Section  
Michelle V. Buchanan, Analytical Chemistry (East Tennessee Section)  
Alan B. Cooper, North Jersey Section  
Donna G. Friedman, St. Louis Section  
Carolyn Ribes, Brazosport Section

#### Term ending December 31, 2016

Janet Bryant, Business Development & Management (Richland Section)  
Dee Ann Casteel, Susquehanna Valley Section  
Amber S. Hinkle, Greater Houston Section  
Wayne E. Jones, Jr., Binghamton Section  
V. Michael Mautino, Pittsburgh Section

ConC nominees for 2017-2019 terms are listed in this Council agenda under "Election to Committee on Committees." Names of those elected will be announced at that meeting. Janet Bryant, Amber S. Hinkle, and V. Michael Mautino are ineligible for reelection.

### **COUNCIL POLICY COMMITTEE**

Members of the Council Policy Committee whose terms end on December 31, 2017, are as follows:

2015- 2017

Lawrence Barton, St. Louis Section  
Linette M. Watkins, Virginia Section

Lawrence Barton is ineligible for reelection.

The other elected members serving on the Council Policy Committee are as follows:

Term ending December 31, 2018

Frank D. Blum, Polymer Chemistry (Oklahoma Section)  
Mary K. Carroll, Eastern New York Section  
Lisa Houston, Energy & Fuels (Greater Houston Section)

Term ending December 31, 2016

Harmon B. Abrahamson, Red River Valley Section  
Dwight W. Chaser, Cleveland Section  
Alan M. Ehrlich, Chemistry & the Law (Chemical Society of Washington Section)  
Lynne P. Greenblatt, Bylaw  
Peter C. Jurs, Bylaw  
Doris I. Lewis, Northeastern Section  
Andrea B. Twiss-Brooks, Chemical Information (Chicago Section)

CPC nominees for the 2017-2019 term are listed in this Council agenda under "Election to Council Policy Committee." Names of those elected will be announced at that meeting. Alan M. Ehrlich, Lynne P. Greenblatt, and Peter C. Jurs are ineligible for reelection.

### **COMMITTEE ON NOMINATIONS AND ELECTIONS**

The duties of the Council Policy Committee include "Nominating voting Councilors for membership on the Committee on Nominations and Elections..." Therefore, suggestions for candidates to serve on N&E will be forwarded to the CPC Subcommittee on Nominations for consideration.

Those members of the Committee on Nominations and Elections whose terms end on December 31, 2017, are as follows:

Lydia E.M. Hines, Kalamazoo Section  
Robert L. Lichter, Northeastern Section  
Mamie W. Moy, Greater Houston Section  
Eleanor D. Siebert, Southern California Section

Lydia E.M. Hines is ineligible for reelection.

The other elected members serving on the Committee on Nominations and Elections are:

Term ending December 31, 2018

Mary Engelman, Industrial & Engineering Chemistry (Northeast Tennessee Section)  
Roland Hirsch, Analytical Chemistry (North Jersey Section)  
C. Marvin Lang, Central Wisconsin Section  
Les McQuire, North Jersey Section  
Donivan R. Porterfield, Central New Mexico Section

Term ending December 31, 2016

Lisa M. Balbes, St. Louis Section  
Jeannette E. Brown, North Jersey Section  
Martha L. Casey, Wisconsin Section  
D. Richard Cobb, Rochester Section  
Lissa Dulany, Georgia Section  
Anne T. O'Brien, Bylaw

N&E nominees for the 2017-2019 term are listed in this Council agenda, under "Election to Committee on Nominations and Elections." Names of those elected will be announced at that meeting. Jeannette E. Brown, Martha L. Casey, D. Richard Cobb, Lissa Dulany, and Anne T. O'Brien are ineligible for reelection.



Mr. D. Richard Cobb  
nomelect@acs.org

Dear Mr. Cobb:

I propose the following Councilors for consideration by the Committee on Nominations and Elections and the Council Policy Committee:

(Please Print)

COMMITTEE ON COMMITTEES (Councilors only)

Councilor Name \_\_\_\_\_

Local Section **or** Division Affiliation \_\_\_\_\_

Councilor Name \_\_\_\_\_

Local Section **or** Division Affiliation \_\_\_\_\_

COUNCIL POLICY COMMITTEE (Councilors only)

Councilor Name \_\_\_\_\_

Local Section **or** Division Affiliation \_\_\_\_\_

Councilor Name \_\_\_\_\_

Local Section **or** Division Affiliation \_\_\_\_\_

COMMITTEE ON NOMINATIONS AND ELECTIONS (Councilors only)

Councilor Name \_\_\_\_\_

Local Section **or** Division Affiliation \_\_\_\_\_

Councilor Name \_\_\_\_\_

Local Section **or** Division Affiliation \_\_\_\_\_

Sincerely,

\_\_\_\_\_  
(name)

\_\_\_\_\_  
(local section or division affiliation)

This form must be received by Mr. Cobb no later than October 31, 2016

BALLOT COUNTS, PREVIOUS ELECTIONS

The Committee on Nominations and Elections regularly reports in the Council agenda the numerical results of balloting from elections at the previous meeting. The following tabulations give the numerical results of the balloting at the March 16, 2016, meeting of the Council for selection of candidates for 2017 President-Elect. Also reported are the results of balloting (February 22, 2016) for the selection of candidates for Director from District II and for Director from District IV for 2017-2019 terms. Nominees selected as the candidates are identified by an asterisk.

2017 PRESIDENT-ELECT

	1 <sup>st</sup> Choice	2 <sup>nd</sup> Tabulation
<i>Votes Cast</i>	440	413
<i>Majority</i>	221	207
*Peter K. Dorhout	263	-
*Thomas R. Gilbert	113	290
C. Bradley Moore	6	-
Gregory H. Robinson	58	123

1. Peter K. Dorhout received a majority of the first -preference votes cast, and was declared a candidate for 2017 President – Elect. The second -preference votes from his ballots were distributed to the remaining nominees. C. Bradley Moore had the fewest number of first -preference votes, and was eliminated. The second-preference votes from his ballots were distributed to the remaining nominees.
2. The redistribution of second-preference votes to the remaining nominees resulted in Thomas R. Gilbert receiving a majority and he was also declared a candidate for 2017 President-Elect.

DIRECTOR, DISTRICT II

	1 <sup>st</sup> Choice	2 <sup>nd</sup> Tabulation	3 <sup>rd</sup> Tabulation
<i>Votes Cast</i>	51	51	47
<i>Majority</i>	26	26	24
*George M. Bodner	20	20	24
*Christina Bodurow	14	17	23
Isai T. Urasa	3	-	-
Ruth A. Woodall	14	14	-

DIRECTOR, DISTRICT IV

	1 <sup>st</sup> Choice	2 <sup>nd</sup> Tabulation	3 <sup>rd</sup> Tabulation
<i>Votes Cast</i>	62	61	59
<i>Majority</i>	32	31	30
*Rigoberto Hernandez	29	29	34
*Larry K. Krannich	22	24	25
Jason E. Ritchie	7	8	-
Barry J. Streusand	4	-	-

\* Individuals nominated

## REPORT OF THE PRESIDENT

Fellow Councilors,

Community building within ACS is a major theme of my three-year term, so this report builds on those activities outlined in my last report to Council. As before, the programming which I have organized for the Philadelphia ACS National Meeting responds to the concerns of ACS member communities.

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. Please attend and participate in the dialogue with panelists and other audience members.

### I. Dissemination of results from the San Diego Meeting, via films

A. For years, ACS has built a global scientific community, via domestic meetings open to international members, publications, international chapters, and other activities abroad. I have spoken overseas officially several times, and recently my message was filmed. This video can be shown at meetings, which I cannot attend, is downloadable at <https://www.acs.org/content/acs/en/about/governance/board/community-building-video-donna-nelson.html>

B. In conjunction with the “Diversity—Quantification—Success” symposium held last March in San Diego, a video of Dr. Vaneica Young was created. Data collected from chemistry department chairs of top research universities in 2002, 2005, 2007, and 2012, disaggregated by race, rank, and gender, revealed that she is the first and currently only female Black professor to have risen through faculty ranks and retired from such a department. She and her computer scientist sister were filmed together, because the theme of the San Diego meeting was “Computers in Chemistry” and because they were very close and influenced each others’ lives and careers significantly. Capturing histories of such role models, who are the first to achieve such milestones, helps to build minority communities in science. A short (5-minute) version and a long (25 minute) version of this film can now be viewed and/or downloaded at <https://www.acs.org/content/acs/en/about/governance/board/vaneica-young-interview-by-donna-nelson.html>

C. Following “Discussions with the President’s Task Force on Employment,” held in San Diego, there will be a special session in today’s Council Meeting. You will hear the results selected by task force members as most important, from topics such as supply and demand, career opportunities for undergraduate professionals, professional certificates, preparing graduates for industry, unemployment challenges, and global factors. You will be able to suggest additional points which merit attention. Some members of the Task Force will be in attendance to answer short questions, if time remains after additional points are suggested.

### II. Presidential programming which addresses concerns of ACS members has been scheduled for the Philadelphia ACS National Meeting. Oral presentations and panel discussions are being presented on the following topics:

- A. Citation for Chemical Breakthrough Award (Sun am)
- B. Global Activities (Sun am & pm, Mon am & pm)
- C. Fracking: Economics vs environment (Mon am)
- D. NSF Opportunities (Mon pm)
- E. Chemical Business of the People, by the People, and for the People (Tue am & pm)

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.

Dr. Donna J. Nelson

## REPORT OF THE PRESIDENT-ELECT

As I look back on the past six months during my term in the presidential succession, I can honestly say it has been my privilege to serve as President-Elect of this wonderful Society. I will confess that during my first few months I did feel like the “new kid” in school; nervous, full of wonderment, enthusiasm, and completely fascinated by the possibilities for our Society. As I prepare for the fall meeting, I am pleased to report that my passion for this Society has not wavered! In fact, I feel energized each time that I have been given the opportunity to interact with our members. I've been learning so much about our Society, from the inner workings of our governance to the various ways in which ACS celebrates its vision: Improving people's lives through the transforming power of chemistry.

In my last report to Council, I talked about the three themes I wished to focus on during my term in the presidential succession: Science Advocacy, Science Literacy, and Chemistry as a Global Enterprise.

Under Science Advocacy, I am pleased to announce that I've launched a working group that is looking at hosting a special event, entitled “Chemistry on the Hill” in 2017. The purpose of this event is to increase the visibility and impact that chemistry and chemists have on society with legislators and other stakeholders on Capitol Hill.

For Science Literacy, I also formed a working group to partner with the Leadership Advisory Board (LAB) to look at creating a new curriculum under the ACS Leadership Development System<sup>®</sup>. This module would help to provide ACS members with the skills and tools needed to discuss chemistry and their work with the general public.

For global issues, I mentioned about building upon current ACS efforts to bring together the international chemical societies to talk about, highlight, and share best practices around safety, environmental stewardship and scientific ethics. In April of this year, I attended and participated in the Global Chemists' Code of Ethics Workshop in Kuala Lumpur, Malaysia. This program was funded by the United States Department of States' Chemical Security Program and implemented by the ACS Office of International Activities. The workshop brought together approximately 60 practicing chemists from around the world to draft a global code of ethics as well as training materials, to be used by participants and further distributed through ACS's networks in the future.

My presidential symposia for 2017 are coming together and will be heavily scientifically focused and highlight the accomplishments of our members. During the spring national meeting in San Francisco, I will host two specific symposia: “*Energy for a Low Carbon Future: Grand Challenges for Chemistry*” and “*Holy Grails in Chemistry*” - *Celebrating the 50<sup>th</sup> Anniversary of Accounts of Chemical Research Journal*. For these symposia, it is important to me that we include and highlight a diverse group of our membership active in these areas of research, from early career to seasoned veterans. In addition, I will be working with technical divisions on other symposia that highlight the impact chemists have in catalysis, energy storage, and biomass conversions.

Many of you have heard me say that the safety of our members and chemists world-wide is very important to me. In collaboration with John Palmer and Joe Pickel, and the ACS Division of Chemical Health & Safety, I am pleased to announce that during the fall national meeting in Washington, DC I will be hosting a presidential symposium entitled “*Building a Safety Culture Across the Chemical Enterprise.*” This will be a broadly focused symposium that will bring together leaders in industry, academia, and government to talk about best practices, expectations, and methodologies in building and maintaining a safety culture across all aspects of research. I will also host another symposium in Washington entitled “*The Chemistry of our Planet: Understanding and Mitigating Environmental Impacts.*” More details on these symposia will be provided during the national meeting in San Francisco.

Finally, I want to thank all of you who have reached out to me with your ideas, suggestions, and concerns. Your support has meant so much to me. Please continue to share your ideas and suggestions with me at [a.campbell@acs.org](mailto:a.campbell@acs.org).

Allison A. Campbell



## REPORT OF THE IMMEDIATE PAST PRESIDENT

Although I'm coming down the home stretch in my final year in the presidential succession, 2016 continues to be quite busy with the follow-up of my initiatives from my 2015 Presidential theme "Inspiring and Innovating for tomorrow."

As one of the follow-up actions from my visit to Cuba as 2015 ACS President, ACS held an event at the National Press Club in June. The event featured a panel comprised of Vaughan Turekian, Science & Technology Advisor to the U.S. Secretary of State; Luis Alberto Montero-Cabrera, President of the Cuban Chemical Society (SCQ); Dionisio Zaldivar-Silva, SCQ Board Member and Dean of the Faculty of Chemistry at the University of Havana; and Carlos Rodríguez-Castellanos, Vice President of the Cuban Academy of Sciences (ACC) and faculty at the University of Havana. Bibiana Campos-Seijo, Editor-in-Chief, *Chemical & Engineering News* moderated the panel.

Additionally following my visit to Cuba and the continuing thaw in U.S./Cuba relations, I invited ACS technical divisions interested in doing projects with Cuban chemists to submit proposals for funding. One of the projects – a joint educational symposium in Cuba – was completed in June, another is planned for August, and the last project is targeted for completion in 2017.

The 2015 written report of my ACS Presidential Task Force on Addressing Workforce Needs through Industry/Two-Year College Partnerships articulated a series of six recommendations. These recommendations focus 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, an Implementation Task Force is on track to carry out the six recommendations by December 2016.

In April, I participated in the *Safety by Design Workshop* held at the National Institutes of Health. During the conference, the safety culture study commissioned by the Association of Public and Land-grant Universities (APLU) in coordination with and with the support of the Association of American Universities, American Chemical Society, and Council on Governmental Relations was highlighted. The report *A Guide to Implementing Safety Culture in Our Universities* <http://www.aplu.org/library/safety-culture/file> is a call to action urging all universities to renew their commitment to research safety. ACS will continue its support of this initiative through a sponsorship of the 2018 *Safety by Design Workshop*.

As a champion of the American Association of Chemistry Teachers (AACT), I'm pleased to note that progress has been very good and is on track. As of June 23, AACT had 3,760 members. K-12 teachers represent 88 per cent of the membership. Two AACT-Dow Teacher Summits were held in Louisiana and Texas during June and July. As part of the Biennial Conference on Chemical Education at the University of Northern Colorado held in August, a high school/AACT track was included.

Continuing on the theme of addressing Grand Challenges, I have been working with Drs. Anne M. Andrews and Paul Weiss, and the Kavli Foundation on organizing a symposium in Philadelphia entitled *Kavli Symposium on Chemical Neurotransmission. What Are We Thinking?* Our goal is to highlight the BRAIN (Brain Research through Advancing Innovative Neurotechnologies) Initiative<sup>®</sup> championed by the White House through a high level symposium. The purpose of the initiative is to accelerate technologies that study the brain at the level of individual cells and mapping complex neural circuits. The symposium will bring together top researchers focused on the overlap between neuroscience, nanoscience and big data – elements all required to explore the human brain in real time. The contributions of chemistry and chemists are key elements to success.

In conjunction with the ACS Division of Organic Chemistry and Dr. Cynthia Maryanoff, we have organized a symposium at the national meeting in Philadelphia entitled *Connectivity and the Global Reach of Chemistry: Honoring the Life and Scientific Contributions of Ernest L. Eliel*. This symposium will feature seven speakers from academe honoring the legacy of Professor Eliel. They will lecture on their current chemistry. The idea for this symposium developed with our Cuban counterparts during our meeting last year, as Dr. Eliel is still a revered adopted son among Cuban scientists.

In closing, as this is my last Council meeting while in the presidential succession, I'd like to offer my heartfelt thanks to all my fellow Councilors for their advice, support, and collaboration over the past three years. I look forward to continuing to work together with so many of you, and am grateful to all of you for your unyielding dedication to our Society.

Diane Grob Schmidt

## REPORT OF THE CHAIR OF THE BOARD OF DIRECTORS

Just prior to our regular June Board of Directors Meeting, the Board held a one-day retreat to identify potential disruptive influences that could impact the function and role of our Society. This was a great opportunity to work collaboratively among Board colleagues, operating in full brainstorming mode to identify these disrupters, evaluate their potential impact, and consider policies to address them. This exercise allowed all Board members to bring forth their diversity of experiences and backgrounds to help plan for the future of our Society.

As a follow on activity, the Board is also undertaking a review to determine methods and scenarios for enhanced Governance agility. ACS is an incredibly complex organization, and the process by which we review, oversee programs, and make decisions can be laborious, time consuming, and at times, unclear. As I stated in an ACS Comment in the August 15/22 double issue of C&EN, it is imperative for our future success that ACS modernize Governance, and ensure reform is a coordinated effort among our volunteers in governance and ACS Staff. As a Society, we continue to deliver great value to our members through the many programs, products and services we offer. However, our attention must also be focused on the speed and efficiency by which we continue to provide these values. I look forward to working with my Board colleagues, Councilors, those serving on committees, and ACS staff and members to ensure that we fulfill our vision, mission, and goals for the next 140 years.

One area of great importance to our members and our science is safety. At our recent meeting, the Board held an extensive discussion on our role, actions, and options in emphasizing the Society's commitment to safety. Although the Society has developed many resources in the area of safety, we know more needs to be done to ensure greater awareness, more discussions, information sharing, and measureable results.

The Board is pleased to congratulate Tobin J. Marks as the recipient of the 2017 Priestley Medal, D. Richard Cobb as the recipient of the 2017 Award for Volunteer Service to the ACS, and John I. Brauman as the recipient for the 2017 Charles Lathrop Parsons Award and I thank the Committee on Grants and Awards for their continuing efforts to ensure top flight recipients of these prestigious recognitions.

Lastly, as part of its ongoing commitment to receive input from members on issues affecting the Society, the Board selected the topic "ACS National Meetings of the Future" for the Board Regular Session scheduled for Sunday, August 21, 2016 at the ACS National Meeting. Please join us there – I expect a lively discussion and helpful suggestions.

Pat N. Confalone

MINUTES  
REGULAR SESSION  
BOARD OF DIRECTORS  
San Diego, California  
March 13, 2016

The Board of Directors of the American Chemical Society met in San Diego, California, on March 13, 2016, 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, George M. Bodner, Allison A. Campbell, William F. Carroll, Jr., Thomas M. Connelly, Jr., Rigoberto Hernandez, Paul W. Jagodzinski, Lee H. Latimer, Ingrid Montes, Donna J. Nelson, Laura E. Pence, 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, Brian D. Crawford, Denise L. Creech, Manuel Guzman, Mary Kirchoff, Martha K. Lester, Flint H. Lewis, Scott Oliphant, Glenn S. Ruskin, David T. Smorodin, John R. Sullivan, Frank E. Walworth, and Marleen G. Weidner. More than three 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 asking his Board colleagues to introduce themselves. Next, he summarized the key actions and discussion points from the Board's March 11-12 executive session:

- Board Development

ACS is a large, highly complex, global organization, with two major businesses – Chemical Abstracts Service and ACS Publications – and a significant professional membership organization component. The Board sets aside substantial discussion time at each meeting for the most important strategic issues facing the Society.

- Strategic Issues and Retreat

The Board held a conversation focused on strengthening the process used for strategic issues discussions, and a discussion on timing and topics of a possible facilitated retreat for all Board members during 2016. Also, the Board is committed to development and discussed ways to continuously improve its effectiveness in the service of ACS as individual board members, and as a collective body.

- The Board's Committees

On the recommendation of the Committee on Grants and Awards, the Board voted to approve an endowment to support the E. Bright Wilson Award in Spectroscopy.

Also on the recommendation of the Committee on Grants and Awards, the Board voted to approve language to be included in the guiding documents for the National Awards and Fellows Program to allow for the rescission of national awards and the ACS Fellows designations where reasonable grounds exist.

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

On the recommendation of the Joint Board-Council Committee on Publications, the Board voted to approve the reappointments of Editors-in-Chief for two ACS journals.

- The Executive Director/CEO Report

Executive Director and CEO Thomas M. Connelly, Jr. discussed ACS membership programs, reviewed the Information Technology area, and offered personal reflections on his first year as Executive Director and CEO. His direct reports updated the Board on the activities of Chemical Abstracts Service (CAS), the ACS Publications Division, the Office of the Treasurer and CFO, and the Society's Secretary and General Counsel.

Dr. Confalone concluded his report by reminding the audience that the Board of Directors is elected by and acts in the best interests of the members of the Society. He invited everyone to send comments, concerns, ideas, and suggestions to the Board at [secretary@acs.org](mailto:secretary@acs.org).

## Reports of Officers

### President

ACS President Donna J. Nelson encouraged participants to attend the Presidential programming for this national meeting: "Employment in the Chemical Sciences," following the Board Regular Session; and two sessions on Monday, March 14: "Diversity in the Chemical Sciences" and "Organic Chemistry Education." She reported that each was developed in response to the concerns of the ACS community, and has a format of brief talks followed by a panel discussion and a poster session for contributed posters. On Wednesday, March 16, during the Council meeting, there will be a special discussion to receive feedback on select questions posed by Dr. Nelson to her Presidential Task Force on the U.S. Employment of Chemists. She concluded her report by announcing programming being planned for the Philadelphia national meeting in August: "Employment in the Chemical Sciences", "Fracking: Economics vs Environment", and "Public Perception of Science and Scientists."

### President-Elect

ACS President-Elect Allison A. Campbell stated that she is deeply honored to be serving as President-Elect and has spent her first quarter learning and listening to members. She reported that although just getting started, her topical areas, special projects, and targeted Presidential symposia for next year are taking shape. Three themes will guide her term in the presidential succession: Science Advocacy; Science Literacy; and Chemistry as a global enterprise. She concluded by stating that we can and must work together to improve the ACS and make its voice clearer, louder, and more effective, and encouraged members to share their ideas and suggestions with her at [a.campbell@acs.org](mailto:a.campbell@acs.org).

### Immediate Past President

ACS Immediate Past President Diane G. Schmidt highlighted a special symposium she is co-sponsoring on Sunday, March 13, titled "Research Opportunities for Future Energy Technologies," with the ACS Division of Energy & Fuels (ENFL), ACS Energy Letters, ACS Publications Division, CAS, and Chemical and Engineering News (C&EN). The Honorable Franklin (Lynn) M. Orr, Under Secretary for Science and Energy, U.S. Department of Energy, is a featured speaker.

### Executive Director and Chief Executive Officer

ACS Executive Director and Chief Executive Officer Thomas M. Connelly stated he is pleased to report that the Society is strong. Society revenue grew in 2015, with a positive return for the twelfth consecutive year. He focused his report on the exciting products and programs that ACS will be leading this year through CAS, ACS Publications, and Membership and Scientific Advancement. He especially encouraged members to join the ACS Insight Lab ([www.acsinsightlab.com](http://www.acsinsightlab.com)), an online research panel of nearly 4,000 highly engaged ACS members. In 2016, the Insight Lab plans to grow lab members to 10,000. He also reported that the ACS Green

Chemistry & Engineering Conference is headed for the West Coast for the first time. It will be held in Portland, Oregon on June 14-16. Finally, as part of ACS's support to education, the American Association of Chemistry Teachers will grow to nearly 4,000 members this year. He concluded by referring members to the highlights of 2015 ACS achievements at [www.acs.org/acshighlights2015](http://www.acs.org/acshighlights2015).

#### Guest Presentation

Dr. Confalone introduced guest speaker Amy Harmon, a *New York Times* journalist and two-time Pulitzer Prize winner. Ms. Harmon was invited to speak on the public perception and communication of science, and titled her presentation "Telling Science Stories: Dispatch from the Conflict Zone."

Ms. Harmon shared some of her experiences reporting for the *New York Times* on the social implications of science and technology. She offered advice to scientists on how to communicate science without becoming defensive or resorting to "data dumping," and steering clear of jargon. She challenged the audience to instead tell their stories of science in an exciting way, and to not be afraid to state the obvious.

Following Ms. Harmon's presentation, Dr. Confalone thanked her for sharing her views on the challenges of communicating science. Ms. Harmon then answered questions posed by members of the audience, and remained afterward for several minutes to speak with others.

At the conclusion of the question and answer session, Dr. Confalone thanked all the participants for a successful meeting.

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

Flint H. Lewis  
Secretary

**BOARD CHAIR'S REPORT  
OF THE EXECUTIVE SESSION  
ACTIONS AND DISCUSSION ITEMS  
JUNE 2016**

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

**The Board's Committees**

The Board of Directors received reports from its committees on Grants and Awards (G&A), Planning, Professional and Member Relations (P&MR), and its task forces on Committee Review and on Governance Agility.

- [Embargoed until announced in C&EN]: The Committee on Grants and Awards announced Tobin J. Marks as the recipient of the 2017 Priestley Medal, D. Richard Cobb as the recipient of the 2017 Award for Volunteer Service to the ACS, and John I. Brauman as the recipient for the 2017 Charles Lathrop Parsons Award. On the recommendation of G&A, the Board VOTED to approve financial options for seven ACS national awards and to approve an ACS nominee for the 2017 Othmer Gold Medal.
- On the recommendation of the Committee on Professional and Member Relations, the Board VOTED to approve a bilateral agreement between the American Chemical Society and the Société Chimique de France establishing the "USA-France Chemistry Lectureship."

**Staff and the Governing Board for Publishing Reports**

- The Executive Director and CEO updated the Board on the major challenges and projects facing the Society this year, and recent updates since the March meeting in San Diego. In his capacity as chair of the Governing Board for Publishing, he provided updates on the recent meeting of that group and, joined by the respective division presidents, on the activities of Chemical Abstracts Service (CAS) and the ACS Publications Division. The Society's General Counsel provided an update on key legal issues before the Society.

**Other Society Business**

- The Board VOTED to approve actions arising from the spring Council meeting: adoption of the *Academic Professional Guidelines (5<sup>th</sup> Edition)*, as approved by Council; and ratification of several Board interim actions.
- On recommendation of the ACS Task Force to Recommend Appointments to the Governing Board for Publishing, the Board VOTED to approve the appointments of two new members to the Governing Board for Publishing for the terms July 1, 2016 – June 30, 2020.
- The Board heard reports from the Presidential Succession on their current and planned activities for the remainder of 2016 and for 2017.
- The Board conducted a lengthy discussion on the Board's role, actions, and options in emphasizing the Society's commitment to safety.
- As part of its ongoing commitment to receive input from members on issues affecting the Society, the Board selected the topic "ACS National Meetings of the Future" for the Board Regular Session scheduled for Sunday, August 21, 2016 at the ACS National Meeting in Philadelphia, Pennsylvania.
- The Board debriefed and identified several follow-up actions from its full-day Retreat, held June 2 on the subject of potential disruptors of Society activities.

Pat N. Confalone  
Chair, ACS Board of Directors

## REPORT OF THE EXECUTIVE DIRECTOR

It is appropriate that we host the 252<sup>nd</sup> American Chemical Society National Meeting & Exposition with the theme "Chemistry of the People, by the People, for the People" in Philadelphia; the "city of brotherly love."

### ACS National Meeting Highlights

- The ACS National Meeting in Philadelphia will feature two outstanding Kavli Foundation Lecturers -- Dr. Omar Farah (The Kavli Foundation Emerging Leader in Chemistry Lecture) from Northwestern University and Dr. Chad Mirkin, (The Fred Kavli Innovations in Chemistry Lecture) from Northwestern University. The Kavli Foundation Lectures will be held Monday afternoon on August 22, 2016 beginning at 4:00 p.m. in the Pennsylvania Convention Center, Ballroom B.
- The 57 members in the 2016 class of ACS Fellows will be honored and celebrated in Philadelphia for their outstanding achievements in and contributions to science, the profession, and the Society. The ACS Fellows Ceremony and Reception will be held Monday, August 22, 2:00 - 4:30 p.m. in the Philadelphia Marriott Downtown, Grand Ballroom G/H.
- On Sunday, August 21, 2016, ACS will host the prestigious ACS Heroes of Chemistry Awards, recognizing winning teams from GlaxoSmithKline, Honeywell UOP, Honeywell, and Pfizer. Each year, ACS Heroes are nominated by their respective companies to recognize their creative abilities in developing cutting-edge science that ultimately leads to marketable products. The commercial success of their products is important for this honor because we recognize that good business results follow good science. The ceremony will be held at the Loews Philadelphia Hotel with the reception starting at 6:30 p.m., dinner at 7:30 p.m. and the program at 8:30 p.m.
- ACS's Meetings & Expositions team recently won the 2016 UFI Sustainable Development Award. The award, which is given annually by UFI, the Global Association of the Exhibition Industry, honors initiatives that spread knowledge, enhance attendee experience, and educate and inspire participants on sustainability. For 2016, the competition's theme was "Best actions to engage participants around sustainability." Meetings & Expositions won for the use of its "Greener Meetings Program" at the 2015 ACS National Meetings.

### Other Highlights

- As of 05/31/2016, the membership count was 154,816. This is 279 less than on the same date in 2015. We have 9,886 new members to date, which is 114 less than this time last year. The number of international members for May 2016 was 25,910. This is 1,291 more than in May of 2015. The May retention rate is 83.51%, which is essentially the same as it was in May of 2015 (0.08% lower). The Graduate Student retention rate is 74.70%, which is 0.73% higher than this time last year. The number of Graduate Student Members is 18,709, which is 85 higher than in May of 2015. We see strong growth potential in specific groups such as post-doctoral students, millennials, and federally employed scientists. To that end, a strong emphasis on digital marketing and communications is essential to our success. We are in the process of modernizing and streamlining our marketing practices, identifying improvements in data tracking, collection and evaluation, and working diligently to evaluate options for improving our web based applications and technology. We have also implemented a number of structural changes, reallocating material and human resources to better support our strategy. Geographically, international markets also present a great opportunity. Based upon the success of the World Bank Economic Model dues discount in India, MAC has approved testing to collect data on the adjustment of ACS dues prices in the other countries where ACS has International Chapters. These country specific discounts launched in June and we expect similar results as those seen in India.



- Planning is underway for the Atlantic Basin Conference for Chemistry (ABCChem), a pilot conference meant to mirror PacifiChem through collaboration with sister chemical societies and ACS members. This event will bring together chemists, chemical engineers, and other allied professionals from around the Atlantic basin to present their research, network, and collaborate with their colleagues. The conference will take place in January of 2018 in Cancun, Mexico. Anticipated turnout is for approximately 300-500 attendees. ACS is the primary organizer for this event, and if the pilot is successful, the conference will convene every 5 years. It was originated by ACS members as part of an ACS Global Innovation (GI) Grant, awarded by the ACS Committee on International Activities (IAC), to members of the Northeast Region, American Chemical Society (NERACS), to explore the possibility of establishing a conference for scientists based around the Atlantic. Current partners include sister societies from Europe, Africa, and the Americas. At the time of the composition of this report, the participating societies are exploring venue options in Cancun and finalizing a conference agreement.
- The ACS has hired Robin Preston as Director of the Department of Meetings and Expositions (DMES) in the Division of Membership & Scientific Advancement. Robin comes to ACS from the National Association of School Boards and is a certified meetings industry executive who was able to sustain positive conference net revenue for 14 consecutive years despite shrinking budgets, rising costs, and unforeseen circumstances (9/11, Hurricane Katrina, national recession). Over the course of her career, she has produced more than 450 events ranging from 25 to 13,000+ attendees; sold close to \$8 million in exposition floor space, representing a combined total of 900,000+ net square feet; and managed multi-million dollar budgets upwards of \$9 million. Robin earned her degree in Marketing from Radford University, Radford, VA and has a Certification in Exhibition Management from the International Association of Expositions and Events. She is a leader among her peers in the professional affiliations that she belongs including the Professional Convention Management Association, the International Association of Expositions and Events, and Industry Advisory Boards.

#### Open Access (OA) Developments

In the Open Access (OA) space, on April 29, White House Office of Science and Technology Policy (OSTP) Director John Holdren [reported on the progress](#) that OSTP, working with US Federal departments and agencies, have jointly made in developing, finalizing, and implementing their public access plans. This report is required quarterly by Congress. In the report, Director Holdren noted that 17 US agencies have completed their public access plans and posted them publicly. In addition, the Department of Education is in the process of final clearance for its plan, and the US Agency for International Development is completing a final round of review for its plan. At twelve agencies, the policies are already in effect with regard to publications, and five more have begun phasing them in; the agency plans regarding open data are proceeding more slowly. The various agency plans are consistent with previous guidance from OSTP. OA embargo periods of 12 months post-publication are the standard guideline; whereas most agencies also are requiring deposit of peer reviewed manuscripts after editorial acceptance by scientific journals, several agencies (e.g. DOE and NSF, among others) have also included as a component of their public access plans the external linking to publisher websites via the publisher-led CHORUS initiative (with which ACS continues to play a leadership role). ACS has also joined with other scientific publishers in urging Congress to clarify with OSTP the cost of public access policy implementation at the individual agencies; language requesting such cost estimates was included in the Request for Information process last year. However, OSTP has demurred on these requests, saying that such estimates are not available (and implying that because agencies are not required to detail such expenditures, the costs cannot be broken out explicitly).

In Europe, following on the heels of an Open Science Conference convened by OA advocates on April 4-5 in Amsterdam, ACS joined with other STM publishers in issuing a [detailed and extensive response](#) outlining scientific publisher opinion to a draft Amsterdam Call of Open Science document. Along with many other comments to the Call for Action that [were received](#), it is evident that there exists a range of views to this policy

document—one which has not been endorsed by any official body yet purports to reflect a current state of the Open Science evolution. As such, the Call for Action in turn supports scene-setting for more substantive and possibly longer-horizon policy creation now under consideration by the EU Member States representatives within the [European Competitiveness Council](#). The process by which that Council's conclusions will be determined is largely opaque, but the current draft version can be found [here](#). ACS Publications is monitoring this development closely, and is engaged in advocacy via our participation with our international publisher trade association, STM.

Meanwhile, ACS Publications continues to advance the Society's own open access publishing initiatives to good effect. Uptake of the *ACS AuthorChoice* hybrid open access option by authors is currently running at about 6% of published article output across the ACS journals portfolio. Author participation has been spurred by a combination of pressure from funder OA mandates, expanded OA options from ACS (that now include 12 month delayed OA at a reduced price), and the stimulus effect of the *ACS Author Rewards* voucher program that began in 2014 and extends until the end of 2017. *ACS Central Science*, the Society's highly selective interdisciplinary OA journal, continues to gain momentum under the editorship of Dr. Carolyn Bertozzi, now at Stanford University. In April, the Publications Division unveiled plans for *ACS Omega* as a broad coverage OA journal for the global chemistry community, led by four co-editors based in the Americas, Europe, China, and India who are notable investigators in their respective fields. ACS Omega will publish research articles assessed on the basis of scientific technical merit rather than judging results for perceived significance, and will stress rapid publication and service to authors, including the benefit of direct referral of manuscript submissions from other journals in the ACS portfolio. ACS Omega is scheduled to begin publication in Q2 of this year.

### Streamline and Simplify

To remain competitive in a changing environment ACS must continue to invest in improvements across all aspects of our products, services and operations. In order to have the resources to make these investments we must continue to grow revenue, shed unnecessary expense, and deploy the resources at our disposal in the most efficient and effective manner to advance the vision and mission of the ACS. To that end we continue to work to streamline and simplify our operations.

Historically, ACS has had separate Information Technology, Human Resource and Finance units serve our operations in Columbus, OH and Washington, DC. In 2015 we began efforts to combine, streamline and simplify our efforts where it makes sense. We have already combined our IT service desk and payroll operations. We have embarked on a project to combine our financial systems that will improve our financial reporting and result in reduced costs for this activity. Our Human Resources functions are working to standardize processes and policies. This is important work that is a prerequisite for a much needed technology refresh in 2018. I anticipate continuing to make progress and look forward to sharing more on all these areas in future reports.

Streamline and simplify activities are not limited to our back office services, over time we will look at all our operations. Many units put on webinars, we are looking at our webinar programs and the supporting activities to determine how to improve our performance and coordinate our activities to maximize the impact of our webinars. As we move forward we plan to be vigilant, continuously looking at all our operations and processes for improvement.

Thomas M. Connelly, Jr.

REPORT OF THE GOVERNING BOARD FOR THE ACS GREEN CHEMISTRY INSTITUTE®  
TO ACS COUNCIL

Listed below are highlights of action items completed by the ACS Green Chemistry Institute® (ACS GCI) since its last report to Council in fall 2015.

- **20<sup>th</sup> Annual Green Chemistry & Engineering Conference (GC&E):**

The conference was held on June 14-16, 2016, at the Hilton Portland & Executive Tower in Portland, Oregon. There were over 32 technical sessions, 537 registrants, 22 sponsors, and 8 exhibitors.

The GC&E Advisory Committee members included: Jim Hutchison, Lokey-Harrington Chair in Chemistry, University of Oregon; Adelina Voutchkova, Assistant Professor of Chemistry, George Washington University; Paul Anastas, Director, Center for Green Chemistry & Engineering & Teresa and H. John Heinz III Professor of Chemistry for the Environment, Yale University; Eric Beckman, Co-Director, Mascaro Center for Sustainable Innovation & George M. Bevier Professor of Engineering, University of Pittsburgh; Bill Carroll, Adjunct Professor, Department of Chemistry, Indiana University; John Frazier, ACS GCI Governing Board Advisor and Independent Consultant; Julie Haack, Assistant Department Head and Senior Instructor, Department of Chemistry & Biochemistry, University of Oregon; David Leahy, Principle Scientist, Bristol-Myers Squibb; and Marty Spitzer, Director, US Climate and Renewable Energy Policy, World Wildlife Fund, US.

Keynote speakers included: Jin-Quan Yu, Frank and Bertha Hupp Professor of Chemistry, The Scripps Research Institute; Nate Lewis, George L. Argyros Professor of Chemistry, has been on the faculty at the California Institute of Technology; and Paul Anastas, Director, Center for Green Chemistry & Engineering & Teresa and H. John Heinz III Professor of Chemistry for the Environment, Yale University.

Highlighted events include:

- **Student Workshop:** This workshop focused on dyes and pigments. In light of the economic, social and environmental impacts of color on society, students used the principles of green chemistry to design a comprehensive strategy for overcoming the challenges associated with dyes and pigments. They also learned about the history, chemistry, impacts, and business of color and learned how to use a variety of tools to address the unintended biological activity of dyes and colorants. Facilitators included Eric Beckman, Co-Director, Mascaro Center for Sustainable Innovation & George M. Bevier Professor of Engineering, University of Pittsburgh; John Frazier, ACS GCI Governing Board Advisor and Independent Consultant; Julie Haack, Assistant Department Head and Senior Instructor, Department of Chemistry & Biochemistry; Adelina Voutchkova, Assistant Professor of Chemistry, The George Washington University.
- **Green Business Plan Competition:** The competition is a forum for early-stage, pre-revenue companies to pitch their business plan that incorporate green chemistry and engineering in the initial stages of the business life cycle. Eight businesses submitted applications and Grow Bioplastics was the grand prize winner. The Organizing Committee included Dan Daly, Alabama Innovation and Mentoring of Entrepreneurs, Center University of Alabama; Richard Engler, Bergeson & Campbell, P.C., and Eric Beckman, Mascaro Center for Sustainable Innovation, University of Pittsburgh.
- **ACS Careers Workshop:** This interactive workshop provided attendees with the opportunity to accelerate their professional development and obtain important tools for job seeking. Topics included initial planning and résumé preparation, maintaining an effective job search, reviewing employment trends, enhancing professional skills and more. This workshop was facilitated by Jeff Moore, Seattle Genetics, Inc. and ACS Career Consultant.
- **6<sup>th</sup> Annual Roundtable Poster Reception:** This was an exclusive industry-focused networking event hosted by ACS GCI's Chemical Manufacturers', Formulators', Hydraulic Fracturing, and Pharmaceutical Roundtables.

- **Awards:** Austin Evans, University of Tulsa and Jesse Vanderveen, Queens University of Ontario, Canada were the recipients of the 2016 Kenneth G. Hancock Memorial Award. John-Hanson Machado, The George Washington University and Sarah Kwan, Yale University were the recipients of the 2016 Joseph Breen Memorial Fellowship.
- **GREEN<sup>X</sup>:** This event presented a variety of speakers who challenged attendees to rethink innovation, how to catch its spark, and how to best let the world know once we have it in hand. This event was sponsored by the Center for Green Chemistry & Engineering at Yale.
- **Communicating Your Science & Engineering Workshops:** These interactive workshops helped attendees improve their communication of green chemistry and engineering to versatile audiences. Attendees were afforded the opportunity to explore solutions to common communication challenges, and were able to practice their messaging strategies and techniques with a communications expert. The workshops were facilitated by James Rea, Experts/Clearly.
- **Presidential Green Chemistry Challenge Awards & Reception:** ACS GCI hosted the 2016 EPA Presidential Green Chemistry Challenge Awards judging panel on March 2, 2016. 2016 Award Winners:
  - **For Greener Synthetic Pathways**  
CB & I  
Albermarle  
AlkyClean<sup>®</sup> Technology: An Inherently Safer Technology for the Production of Gasoline Alkylate
  - **For Greener Reaction Conditions**  
Dow AgroSciences LLC  
Instinct<sup>®</sup> Technology - Making Nitrogen Fertilizers Work More Effectively for Farmers and the Planet
  - **For Designing Greener Chemicals and Specific Environmental Benefit: Climate Change**  
Newlight Technologies  
AirCarbon: Greenhouse Gas Transformed into High-Performance Thermoplastic
  - **For Small Business**  
Verdezyn  
Renewable Nylon Through Commercialization of BIOLON<sup>™</sup> DDDA
  - **For Academic**  
Professor Paul J. Chirik of Princeton University  
Catalysis with Earth Abundant Transition Metals
- **Communications:**
  - **Webinar Stats**
    - Sponsored “Outsmarting the Shortage: The Emergence of Base Metal Catalysis in Pharma” webinar with Chris McWilliams of Pfizer.
    - Hosted, “How to Create a Safer and More Sustainable Lab Through Green Chemistry” webinar with David Finster, Wittenberg University and Jeffrey Whitford of Sigma-Aldrich.
    - Co-hosted “Catalyzing Sustainable Innovation Through Molecular Design” with ACS Webinars. The webinar featured the NSF Network for Sustainable Molecular Design and Synthesis, and Brian Laird, University of Kansas and Tony Rappe, Colorado State University. There were 316 attendees.
    - Partnered with GC3 on a webinar featuring John Frazier, ACS GCI Board Advisor and Tom McKeag, Program Director, Berkeley Green Chemistry Center about the new Green Chemistry Innovation Portal. Over 200 people registered for the event.
    - Sponsored “Artificial Photosynthesis: Direct Production of Fuels from Sunlight.” Over 1000 people listened in on the webinar by Nathan Lewis, California Institute of Technology.

- **The Nexus Newsletter Stats**
  - Current Distribution: 17,119
  - Average Open Rate: 19.3%
  - Average Click to Open Rate: 11%
- **Outreach**
  - ACS National Meeting Outreach (Fall 2015 and Spring 2016): Staff communicated what green chemistry is and what ACS GCI offers to hundreds of meeting attendees. Over 1,020 people were added to our mailing list and more than 150 were engaged in the “What’s Your Green Chemistry?<sup>TM</sup>” campaign.
  - Published “Design Principles for Sustainable and Green Chemistry & Engineering” brochure which combines key approaches to green chemistry and engineering into three visually compelling categories. The booklet won a Hermes Creative Award.
  - Participated in the 2015 Global Green Chemistry Centers meeting following the Boston ACS National meeting (G2C2).
  - Participated in National Chemistry Week by promoting a green chemistry lab activity by the University of California, Berkeley. Created a blog post describing the activity, which received 1,750 views on the Nexus Blog website, and promoted the activity on social media by boosting a post containing a graphic for \$60, which reached 5,959 accounts organically on Facebook and reached 48,871 paid.
  - Staff keynoted at the Midwestern Association of Chemistry Teachers at Liberal Arts Colleges workshop and presented on “Innovating Towards Sustainability in the Global Chemistry Enterprise.” General challenges within the chemistry community were discussed and how the ACS GCI Education Roadmap Initiative is working to address those challenges.
  - Co-hosted an "Ask the Innovators" event on the Green Chemistry Innovation Forum (on the ACS Network) with GC3, featuring members of the Berkeley Center for Green Chemistry and Method. This real-time event drew in over 1,100 views of the discussion thread with questions from entrepreneurs, students, and professionals. Feedback was very positive and we are planning future "Ask the Innovator" events to continue to drive traffic to the Portal.
  - Staff provided the keynote at the “Chemistry for Tomorrow’s World” Conference in New Delhi. At the 4<sup>th</sup> Industrial Green Chemistry World Convention, gave 4 platform presentations, chaired two sessions, and judged nominations for the green chemistry and engineering awards.
  - Staff provided a keynote address at a symposium on GC Education at the National Teachers College in Mumbai and lectured at the Student GC Symposium held at IIT, Mumbai.
  - Staff presented three talks at the 2015 Pacificchem conference in Hawaii.
  - Hosted an “Ask the Innovators” event on the Green Chemistry Innovation Forum located on the ACS Network. The event was called “How Green is Your Raincoat?” on water repellency with Bob Buck, Chemours; Matt Dwyer, Patagonia; Stefan Posner, SWEREA; and Philippa Hill, University of Leeds. The event received 2,852 views and 93 comments with 278 individuals participating.
  - Nine new videos were published explaining how undergraduate students can start doing green chemistry activities in their ACS Student Chapter. Ideas include how to do a green chemistry demo, organize a speaker, and set up a green chemistry-themed scavenger hunt.
  - ACS GCI Governing Board Chair, Kent Voorhees, published an ACS Comment on the 20<sup>th</sup> Anniversary of the Green Chemistry & Engineering Conference in *C&EN*.
  - Partnered with Beyond Benign, Green Chemistry Commerce Council and Network for Early-Career Sustainable Scientists and Engineers to present a webinar on community engagement around green chemistry.

- **Educational Roadmap**
  - Work on the Green Chemistry & Engineering Education Roadmap has continued. A visioning workshop was held on September 18, 2015 which brought together green chemistry and engineering thought leaders from across the chemistry enterprise. They developed a vision, end state, and/or purpose that engages the enthusiasm and commitment of stakeholders and serves as a point of common ground from which to begin the roadmap. A report of the visioning workshop outcomes was written for broader green chemistry community feedback. Learning outcomes were formulated for key concepts in green chemistry.
  - A roadmapping workshop was held on June 17-18 in Portland, Oregon. Twenty-four participants representing various stakeholder groups across the chemistry enterprise participated in the workshop. The leadership team continues to seek input on the proposed Green Chemistry Core Competencies.
- **The ACS GCI Industrial Roundtables:**
  - **Pharmaceutical Roundtable**
    - The first award to recognize outstanding industrial implementation of novel green chemistry and/or engineering in the pharmaceutical industry was presented at the GC&E conference to Peter J. Dunn who recently retired from Pfizer. Prof. Charles L. Liotta of Georgia Tech was also honored at the GC&E conference with a lifetime achievement award for his dedication to green chemistry research and education throughout his career.
    - The Roundtable started a new sub-team to focus on analytical chemistry.
    - The medicinal chemistry team is actively working on a manuscript on flow chemistry applications in medicinal chemistry and on a perspectives article on the use of a design tool capable of analyzing molecular properties and prediction of in-vivo success. The team introduced the perspectives article with Dr. William Greenlee, editor of *J. Med. Chem.*, and received positive feedback to submit for publication consideration.
    - Awarded the greener biopharma grants to Professor Leo Choe Peng from the School of Chemical Engineering at the Universiti Sains Malaysia and Professor Andrew Zydney from the Department of Chemical Engineering at Penn State. Peng is the first grant winner working in an Asian country.
    - Asymchem and WuXi were accepted as associate members.
    - A new co-chair, Barry Dillion, from AstraZeneca, was elected to replace John Tucker of Amgen whose term has expired. The Roundtable released an RFP for its "Ignition Grant Program" which funds academic researchers seeking initial results on innovative ideas related to greener pharmaceutical manufacturing.
    - A meeting was held at AstraZeneca in the U.K. ACS GCI presented on the support marketing and communications work completed including a membership acquisition plan. Active support of the grant program, the solvent selection guide project, and many other logistical activities continue. The Roundtable decided to launch the first 9 reagent guides on their online portal to the public in June 2016 to coincide with the GC&E Conference. The RT also established an award in Dr. Peter Dunn's name to recognize excellence in Industrial GC efforts.
  - A meeting was held at Eli Lilly in Indianapolis. 2015 Grants were approved for a total of \$150,000.00. Dr. Dobereiner, Temple University; Dr. Blacker, University of Leeds; and Dr. Evans, California State University, Fullerton were notified that the ACS GCI Pharmaceutical Roundtable had selected each research group to receive a \$50,000.00 grant to fund work on continuous processing.
  - Eight proposals were received for consideration for the Greener Amide Reduction Grant with Dr. Matthias Beller of Leibniz-Institut für Katalyse selected as the recipient of the \$50,000.00 grant.

- Agreed to provide training material to the International Consortium for Quality & Innovation in Pharmaceutical Development (IQ Consortium) for their use in a green chemistry training course. Credit will be given to the Roundtable for the material. Many Roundtable members are also members of the IQ Consortium and helped teach the course.
  - ACS GCI produced a video featurette and infographic to celebrate the accomplishments and history of the ACS GCI Pharmaceutical Roundtable. The video featured past and present Roundtable members including Dr. Berkley Cue, Dr. Paul Anastas, and Dr. Neil Garg, a roundtable grant recipient.
  - Two of seven Pharmaceutical Roundtable member company individuals were selected as reviewers for the current round of study groups for The National Science Foundation chemistry grants.
  - Sponsored Pacificchem Symposium #334, "Green and Sustainable Chemistry Education for Tomorrow's Citizens of the World." Dan Richter, Pfizer, presented on the effective collaboration and research/lab success with Neil Garg, University of California, Los Angeles.
  - Exploring a green chemistry short course to be introduced at a future ACS National Meeting. Initial conversations with ACS are very positive and look forward to a pilot in 2016.
- **Chemical Manufacturer's Roundtable**
    - The 2016 project focus areas are: 1) The small amine research project to find a replacement for triethylamine; 2) engaging with direct suppliers to facilitate design/introduction of greener ingredients; 3) documenting examples of more effective and more sustainable products; 4) summarizing findings from its GC&E conference technical session on technical transfer for sustainable materials; and 5) expanding membership.
    - The Roundtable continues to flesh out a biomass initiative.
    - Convened the first AltSep workshop with 42 separation experts from academia, government labs, and industry.
    - The AltSep project will host its next workshop on July 14-15, 2016 and will focus on molecular properties of molecules and mass separating agents critical to alternative separations. There are twenty-six confirmed industry and academic participants.
    - Submitted a grant proposal to Department of Energy (DOE) on high-performance modeling of separation technologies in support of a more sustainable and less-energy intensive chemical manufacturing in response to a DOE solicitation. This is a \$300,000.00 in-house grant to support NIST AltSep Roadmap outcomes.
  - **Formulators' Roundtable**
    - On November 10, 2015 met with the EPA Safer Choice Program and Dr. Philip Jessop, to review his proposed research to identify and develop greener small amines. Following the discussion, the Roundtable agreed to proceed with identifying funds for the research.
  - **Hydraulic Fracturing Industrial Roundtable:**
    - The Roundtable agreed to change their business plan to allow for a tiered fee-pricing structure indexed to the price of oil. This Roundtable has struggled to maintain a critical mass in light of the extreme downturn in the sector.
    - Explored a potential collaboration with the ACS GCI Formulators' Roundtable on their greener small amines project.

- **Biochemical Technology Leadership Roundtable:**
  - Acceptance for membership began on February 19, 2016 during the Advanced Bioeconomy Leadership Conference in Washington, D.C. Four companies have signed to date: Calysta, Intrexon, LanzaTech, and White Dog Labs. Four more companies are actively evaluating membership. The launch was covered in Biofuels Digest and The Nexus and articles are expected in C&EN, Chemistry Today and Chemical Processing.
  - The Roundtable's first call was held on March 24, 2016. Seven companies participated in addition to 2 government representatives, 2 NGOs and 2 consultants. The Roundtable continues to meet on a monthly basis.

Kent Voorhees, Chair



**DRAFT**  
**MINUTES**  
**COUNCIL POLICY COMMITTEE**  
**AMERICAN CHEMICAL SOCIETY**  
San Diego, California  
March 15, 2016

The Council Policy Committee (CPC) of the American Chemical Society met in San Diego, California, on March 15, 2016, beginning at 8:00 a.m. Chair Donna Nelson presided. Other voting members present were: Harmon B. Abrahamson, Lawrence Barton, Frank D. Blum, Allison A. Campbell, Mary K. Carroll, Dwight W. Chasar, Thomas M. Connelly, Jr., Alan M. Ehrlich, Lynne P. Greenblatt, Lisa Houston, Doris I. Lewis, Diane Grob Schmidt, 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: Rodney M. Bennett, James C. Carver, D. Richard Cobb, William (Rick) Ewing, Wayne E. Jones, Diane Krone, James M. Landis, Jr., Kristen M. Omberg, John Pochan, and Martin D. Rudd. Several Councilors, ACS staff, and others were present as observers at various times during the meeting.

Report of the Subcommittee on Nominations

1. VOTED, in accordance with Bylaw III, Sec. 3, b, (3), that the Council Policy Committee approve the list of potential candidates, as presented by the Subcommittee on Nominations, for election to 2017-2019 terms on the Committee on Nominations and Elections.
2. VOTED that the Council Policy Committee authorize the chair of the Subcommittee on Nominations to amend the approved list of candidates for election to the Committee on Nominations and Elections, in consultation with the chairs of the Committee on Nominations and Elections and the Committee on Committees, to avoid duplications in the candidate lists for the Council Policy Committee, the Committee on Committees, and the Committee on Nominations and Elections.

Approval of Minutes

3. VOTED that the Council Policy Committee approves the minutes of the August 18, 2015, meeting of the committee.

Report of Interim Action of the Council Policy Committee

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

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.; Frank Blum (for Donna Nelson), Diane Grob Schmidt, Allison Campbell, 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 March 16. 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 on Membership Affairs; the Other Committees on Nomenclature, Terminology, and Symbols, and on Technician Affairs; and the Joint Board-Council Committees on Chemistry and Public Affairs, Chemists With Disabilities, Professional Training, Science, and on Women Chemists; including reports on progress and recommendations resulting from their work during their sessions held in San Diego, California, 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 March 16 Council meeting. All references in these minutes to Council actions and reports relate to the March 16, 2016 meeting of the Council unless otherwise noted.

5. 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 (ConC), Constitution and Bylaws, Divisional Activities, Education, Economic and Professional Affairs, Local Section Activities, Meetings and Expositions, and Nominations and Elections.

6. VOTED that the Council Policy Committee authorizes the use of projected graphics as part of the reports to Council by the Executive Director and CEO, the President, and the President-Elect.

7. VOTED that the Council Policy Committee authorizes additional time for the report to Council by the Executive Director and CEO.

8. VOTED that the Council Policy Committee authorizes the Chair of the Board of Directors, the Committee on Committees, and the Committee on Local Section Activities to place brochures or cards on the seats at the Council meeting.

9. VOTED that the Council Policy Committee concurs with the Committee on Budget and Finance's recommendation to Council that the 2017 dues be set at the fully escalated amount of \$166.

After noting that university departments do not have responsibility for maintaining buildings and equipment, Frank Blum recommended that CPC support an amendment on the Council floor to the "Physical Facilities" section of the *Academic Professional Guidelines* to state that departments will "ensure" the maintenance, rather than to conduct the maintenance themselves. CPC agreed to support such an amendment and to ensure it is in order on the Council floor.

10. VOTED that the Council Policy Committee concurs with the Committee on Economic and Professional Affairs' recommendation that Council approve, subject to Board concurrence, the *Academic Professional Guidelines*, with the amendment authorized above.

#### Report of the Council Policy Committee Vice-Chair

Vice-Chair Alan Ehrlich provided an overview of the activities of several CPC subcommittees and task forces, including the Subcommittee on Long-Range Planning; the Subcommittee on Petitions, Constitution and Bylaws; and the Task Force on Councilor and Member Duties and Conduct. Dr. Ehrlich also reported that as CPC Vice-Chair, he is a member of the Board Committee on Planning and has been involved in presenting the environmental scan to various committees in San Diego on behalf of the committee. He reminded his colleagues that CPC has been asked to participate in a Committee on Nominations and Elections (N&E) task force, "Vote20/20", which will review elections procedures and practices. Dr. Ehrlich announced that he has appointed Dwight Chasar, a former N&E Vice-Chair, to represent CPC on this task force.

11. VOTED that the Council Policy Committee authorizes the ACS President to present to Council with projected graphics on the special discussion topic “Gathering Input: ACS Presidential Task Force on the U.S. Employment of Chemists” and limits the discussion following the presentation to thirty minutes, with no Councilor speaking for longer than one minute, and no motions being in order during consideration of this agenda item at this Council meeting.

#### Reports of Subcommittees and Task Forces

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

Subcommittee chair Harmon B. Abrahamson reported that the subcommittee met jointly with the Task Force on Councilor and Member Duties and Conduct yesterday. The task force completed work on its charge to develop a mechanism for the removal of Councilors, and the results of those discussions have been submitted to CPC in a separate report. ACS Board member Paul Jagodzinski and ACS Secretary Flint Lewis met with the Committee on Constitution and Bylaws (C&B) to discuss a process for involving the Board and cognizant Council committees in a review of ACS Bylaws, emphasizing governance agility. Dr. Abrahamson said that C&B, which has the charge in the Bylaws to review the Constitution and Bylaws and to initiate such action as may be appropriate, has agreed to take the lead in this effort.

At the request of the ACS Secretary, Dr. Ehrlich sought CPC’s input on whether the length of the Councilor talking points, which are prepared for Councilors by the Office of the Secretary as a summary of governance actions and key statistics at each ACS National Meeting, are appropriate. The following comments were made in the discussion that followed: Action items are most useful. The statistics are helpful. The talking points were more useful when they were shorter. They are too long and not all committee topics need to be reported. Make them shorter. They are most helpful when they are clear and short; we already tell Councilors at orientation that they are responsible for capturing items for their reports. We could make the talking points shorter but have links to longer information. The committee members reached consensus that the talking points should be shorter but that the longer Council minutes should come out sooner to provide the additional detail for Councilors.

##### B. Report of the Subcommittee on Long-Range Planning

Subcommittee chair Mary Carroll reported on the following actions by the subcommittee: Twenty new Councilors and eight Alternate Councilors attended the New Councilor Orientation, which was held March 12. In April 2015, the subcommittee was asked to review the way local sections and divisions are represented on Council, and to consider the overall size of Council and the perception that Council size continues to increase. Dr. Carroll referred to the subcommittee’s written report in the CPC agenda, which concluded that the data showed that the size of Council has been consistent over the period reviewed (five cycles of divisors: 2000-2019) and which identified other issues needing discussion by CPC: Should international members be represented within divisions and local sections? Should the 80/20 rule mandating the ratio of local section Councilors to division Councilors in Council be changed? Should there be more division Councilors in Council? Should the number of local section Councilors be capped? The following comments were made in the discussion that followed: local sections keep in touch with their members whether they have 15 Councilors or only one. We could remove geographic boundaries of local sections as technology changes. Council is too large to be effective. Votes in Council don’t break down along local section versus division lines. ACS membership totals get lower but Council stays large. Local sections and divisions represent both wings of the ACS Phoenix and both need to be strong for the Phoenix to fly. We don’t need to change the local section to division ratio; we received lots of input from the Committee on Divisional Activities but little from the Committee on Local Section Activities. Dr. Carroll recommended that the subcommittee be expanded to include representatives from several other committees to look at these larger issues of international, local section, and division representation on Council, and related ones such as what Council would look like if we created it from scratch.

12. VOTED, on recommendation of its Subcommittee on Long-Range Planning, that the Council Policy Committee authorizes the Subcommittee on Long-Range Planning to include representatives from the Committees on Divisional Activities, on International Activities, and on Local Section Activities, and to review issues raised by the Subcommittee as to division, international, and local section representation on Council, and as to the size and structure of Council.

C. Task Force on Councilor and Member Duties and Conduct

Harmon B. Abrahamson, the task force chair, reported that the Petition on Member Expulsion and its accompanying procedures document were approved by Council at its last meeting. At a joint meeting of the task force and CPC Subcommittee on Petitions, Constitution and Bylaws yesterday, the group finalized language for a proposed petition on Removal of Officers and Councilors and the accompanying Procedure for Removal of a Councilor or Alternate Councilor. Dr. Abrahamson said that the petition should appear for consideration at the Council meeting this fall in Philadelphia. He hoped that CPC would endorse the petition at its meeting in Philadelphia and asked that his task force now be discharged.

13. VOTED that the Council Policy Committee discharges the Task Force on Councilor and Member Duties and Conduct with thanks.

Summary of Councilor Travel Expenses

Dr. Nelson called attention to the Councilor travel reimbursement program summary for the fall 2015 national meeting and noted that it's in the committee's agenda.

Summary of Non-Councilor Travel Expenses

Dr. Nelson 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 fall 2016 national meeting is the result of previous authorization by the Council Policy Committee:

Board of Directors:	Sunday, August 21
Council Policy Committee:	Tuesday, August 23
Council:	Wednesday, August 24

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

14. VOTED that the Council Policy Committee approves the Council Agenda for the March 16, 2016 meeting of the Council.

CPC and Council 2016 Budgets

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

Open Forum

No Councilors brought forward questions or comments during the Open Forum.

There being no old or new business, the meeting was adjourned at 11:32 a.m.

Flint H. Lewis  
Secretary

## REPORT OF THE COMMITTEE ON COMMITTEES

At its meeting in San Diego, CA, March 14-15, 2016, the Committee on Committees (ConC) developed its recommendations for 2017 Chairs of the Council Standing and Other Committees for approval by the President-Elect in May 2016. As announced during the Council meeting in San Diego, ConC will be conducting a demographic survey of ACS Committee Chairs, members, associates, and consultants of the 29 Council-related Committees starting in mid-July.

In Philadelphia, the committee will continue developing recommendations for all appointments to Council, Society, Other, and Joint Board-Council committees for consideration by the President-Elect and Chair of the Board of Directors.

Also in Philadelphia, ConC will receive reports and consider recommendations from its subcommittees on Leadership Development and Diversity, and the task force on the Review of the Society Committee Bylaws.

ConC will also receive updates on scheduled performance reviews for the Committees on Chemists with Disabilities, Community Activities, Environmental Improvement, Professional Training, Project SEED, Publications, Public Relations and Communications, Women Chemists, and Younger Chemists and expects to seek Council approval in Philadelphia on recommendation for the continuance of the Committees on Analytical Reagents and Chemical Abstracts Service.

ConC will engage in a variety of recognition activities in Philadelphia: (1) ConC liaisons will recognize the contributions of Committee Chairs who have served the statutory limit on the committee they Chair during their respective committee meetings; (2) During the Council meeting on August 24, 2016, ConC will recognize Councilors who will have served the statutory limit or have otherwise completed their service on committees at the end of 2016; and (3) Also at Council, ConC will recognize those Councilors observing significant anniversaries of years of service on Council.

Councilors and other interested members are invited to attend the committee's open session on Monday, August 22, 2016, in the Philadelphia Marriott Downtown from 1:30-2:15 p.m., to offer their views on any topics on the agenda, or other matters of interest.

Wayne E. Jones, Jr., Chair

Christopher J. Bannochie  
 Mitchell R.M. Bruce  
 Janet L. Bryant  
 Michelle V. Buchanan  
 Allison A. Campbell  
 Dee Ann Casteel  
 Alan B. Cooper  
 Jetty L. Duffy-Matzner

Donna G. Friedman  
 Amber S. Hinkle  
 Bonnie Lawlor  
 V. Michael Mautino  
 Zaida C. Morales-Martinez  
 Robert A. Pribush  
 Carolyn Ribes

Flint H. Lewis, Staff Liaison

**RECOGNITION OF SERVICE**  
**Council Meeting, August 24, 2016**

1. The following members will have served the statutory limit or have otherwise completed their service at the end of 2016 on the ACS governance committee shown below:

John A. Whittle	Constitution and Bylaws
Roger A. Egolf	Divisional Activities
Maria M. Santore	Divisional Activities
Julianne M.D. Smist	Divisional Activities
Jeanette M. Van Emon	Divisional Activities
David W. Ball	Local Section Activities
Martin D. Rudd	Local Section Activities
Emilio X. Esposito	Meetings and Expositions
James E. Duddey	Membership Affairs
Merle I. Eiss	Membership Affairs
Sandra J. Bonetti	Project SEED
Adriane G. Ludwick	Project SEED
Michelle Coffman	Technician Affairs
Bonnie A. Charpentier	Budget and Finance
Melanie M. Cooper	Education
David A. Katz	Chemical Safety
Sarah M. Mullins	Chemistry and Public Affairs
Zelda R. Wasserman	Chemists with Disabilities
Ronald P. D'Amelia	Community Activities
Marilyn Duerst	Community Activities
Shelia Kanodia	Community Activities
Anne B. McCoy	Professional Training
Bela S. Buslig	Public Relations and Communications
Milt Levenberg	Public Relations and Communications
John W. Finley	Science
Barbara E. Moriarty	Science (divisional representative)
Amber F. Charlebois	Women Chemists
Alexander V. Gavrilenko	Younger Chemists
Janet L. Bryant	Committees
Amber S. Hinkle	Committees
V. Michael Mautino	Committees
Alan M. Ehrlich	Council Policy
Lynne P. Greenblatt	Council Policy
Peter C. Jurs	Council Policy
Jeannette E. Brown	Nominations and Elections
Martha L. Casey	Nominations and Elections
D. Richard Cobb	Nominations and Elections
Lissa Dulany	Nominations and Elections

2. The following committee chairs have served the statutory limit on the committee they chair:

Paul A. Bouis	Analytical Reagents
Susan B. Butts	Chemistry and Public Affairs
Amber F. Charlebois	Women Chemists
D. Richard Cobb	Nominations and Elections
James M. Landis	Membership Affairs
Martin D. Rudd	Local Section Activities

## 3. Recognition of Council members for years of service on the ACS Council:

**Fifteen (15) Years**

Ault Addison	Iowa	(2002-2016)
Alan M. Ehrlich	Chemistry & The Law	(2002-2016)
Jacqueline Erickson	North Jersey	(2014-2016; 2000-2011)
Daniel A. Higgins	Kansas State University	(2002-2016)
Russell W. Johnson	Chicago	(2015-2016; 2001-2013)
James M. Landis	Detroit	(2002-2016)
Flint H. Lewis	Ex Officio	(2002-2016)
Jason E. Ritchie	Ole Miss	(2002-2016)
Diane Grob Schmidt	Ex Officio	(2014-2016; 2002-2010)
	Professional Relations	(2012-2013)
	Chemical Health & Safety	(2001)

**Twenty (20) Years**

James E. Dudley	Akron	(2006-2016; 1993-2001)
Lissa Dulany	Georgia	(1997-2016)
Kevin J. Edgar	Cellulose & Renewable Materials	(2008-2016)
	Northeast Tennessee	(1997-2007)
Alan W. Elzerman	Environmental Chemistry	(1997-2016)
John W. Finley	Agricultural & Food Chemistry	(1997-2016)
Joseph A. Heppert	Wakarusa Valley	(1997-2016)
Wayne E. Jones, Jr.	Binghamton	(1997-2016)
Ieva L. Reich	Wisconsin	(1997-2016)
Peter Zarras	Mojave Desert	(1997-2016)

**Twenty (25) Years**

V. Dean Adams	Environmental	(1992-2016)
Michaeline F. Chen	Northeastern	(2013-2016; 2004-2009; 1988-2002)
Neil D. Jespersen	New York	(2014-2016; 1991-2009)
	Ex Officio	(2010-2012)
Bonnie Lawlor	Chemical Information	(1992-2016)
Peter J. Stang	Salt Lake	(1993-2016)
	Organic Chemistry	(1992-1993)

**Thirty (30) Years**

Dwight W. Chasar	Cleveland	(1987-2016)
Mamie W. Moy	Greater Houston	(1989-2016; 1982-1983)

**Thirty-Five (35) Years**

Jeannette E. Brown	North Jersey	(2005-2016; 1982-2003)
	Bylaw	(2004)
Stan S. Hall	North Jersey	(1982-2016)
E. Ann Nalley	Ex Officio	(2005-2016; 1997-2003)
	Wichita Falls-Duncan	(1981-1997)

**Forty (40) Years**

Helen M. Free	Ex Officio	(1992-2016; 1988-1990; 1983-1985)
	St. Joseph Valley	(1974-1982)
Paul H.L. Walter	Ex Officio	(1991-2016)
	Eastern New York	(1977-1990)
John A. Whittle	Sabine-Neches	(1977-2016)

**Forty-Five (45) Years**

Mary L. Good	Ex Officio	(1986-2016; 1972-1980)
	Louisiana	(1967-1971)



## REPORT OF THE COMMITTEE ON NOMINATIONS AND ELECTIONS

During its spring meeting in San Diego, the Committee on Nominations and Elections (N&E) developed slates of potential candidates for election to the Committee on Committees (ConC) and the Council Policy Committee (CPC) for 2017-2019. Information about the candidates and the elections appears under Item III of this agenda book. At the fall Council meeting in Philadelphia, N&E will announce the names of the candidates for the three Elected Committees, and their photos will be projected on screen to assist Councilors with name recognition prior to voting.

The committee received news that our long-time ACS election vendor, VRES, was ceasing business operations July 1, and will be unable to conduct our fall ACS national election. After a careful and thorough review of other major election vendors, Survey & Ballot Systems (SBS) of Eden Prairie, Minnesota, has been selected to replace VRES for this election cycle and has already begun preparations for the fall election.

The N&E Vote 2020 Task Force has been charged with examining all aspects of nominations and elections for ACS national offices, and designing a viable process to be in place by the year 2020. The ultimate goal is an effective and equitable process for calling forth those willing to stand for office and serve the Society. The task force continues to gather input from Councilors and others, most recently through presentations at Councilor Caucuses and at ACS Regional Meetings. It is vital that we also seek ideas from all members as to how nominations and elections should be handled. Please send comments and suggestions to [vote2020@acs.org](mailto:vote2020@acs.org).

On Sunday afternoon, August 21, N&E will present a moderated question and answer session that features candidates running for Director-at-Large 2017-2019. This Town Hall Meeting is designed to facilitate communication among candidates, Councilors and members. The forum begins at 4:30 p.m. in the Philadelphia Marriott Hotel, and will end at 5:30 p.m., so that members can attend Caucuses or other scheduled meetings. On Monday, August 22, there will be an opportunity to meet the candidates for ACS President-Elect from 1:00 - 4:00 p.m. in front of the ACS Booth in the Philadelphia Convention Center.

While in executive session, the committee will receive reports or updates from its subcommittees and the Vote 2020 task force. The committee will develop slates of potential candidates for President-Elect, 2018; Directors-at-Large, 2018-2020; and Directors, Districts III and VI, 2018-2020.

N&E welcomes suggestions from Councilors of names of qualified members as potential candidates for all elected ACS offices. We will have a staffed N&E table at the rear of the Council meeting room, as well as an open meeting on Monday, August 21 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](mailto:nomelect@acs.org).

D. Richard Cobb, Chair

Lisa M. Balbes  
Jeannette E. Brown  
Martha L. Casey  
Lissa Dulany  
Mary K. Engelman

Lydia E. M. Hines  
Roland F. Hirsch  
C. Marvin Lang  
Robert L. Lichter  
Les W. McQuire

Mamie W. Moy  
Anne T. O'Brien  
Donivan R. Porterfield  
Eleanor D. Siebert

Staff Liaison: Flint H. Lewis

REPORT OF THE COMMITTEE ON BUDGET AND FINANCE

The Society Committee on Budget and Finance (B&F) met on Saturday, March 12, 2016, to review the Society's 2015 financial performance. The Society ended 2015 with a net contribution from operations of \$16.6 million, on revenues of \$511.7 million and expenses of \$495.1 million. This was \$3.2 million favorable to the 2015 Approved Budget. After including the results of the Member Insurance Program, the Society's overall net contribution for 2015 was \$11.5 million, which was \$1.0 million unfavorable to the Approved Budget. In addition, the Society ended the year in compliance with four of the five Board-established financial guidelines. The adequacy guideline for unrestricted net assets, measured by the Fund Balance Ratio, was not met. The Society's overall financial position improved in 2015 with unrestricted net assets increasing from \$144.7 million at December 31, 2014, to \$163.3 million at December 31, 2015. The year-end balance includes a \$17.7 million partial reversal of previously accrued accounting charges for the Society's underfunded postretirement benefit plans and the aforementioned \$16.6 million net from operations. The positive impact of these two items was partially offset by investment losses of \$15.7 million incurred in 2015.

In other actions, the committee elected Dr. Joseph Heppert as Vice Chair and voted to recommend to Council that dues for 2017 be set at the fully escalated rate of \$166.00, an increase of \$4.00 versus the 2016 dues rate. In addition, the committee received reports from the Subcommittees on Communications, Program Review, Program Funding Requests, and Financial Impacts of Constitution & Bylaw Amendments. The Subcommittee on Program Funding Requests provided an update on the schedule and process to be followed for the 2017 New Program Funding and Program Funding Reauthorization Requests. The Subcommittee on Financial Impacts of Constitution & Bylaw Amendments reported on the financial impact of the bylaw petition up for consideration at Council. Lastly, the committee received a report on the actual 2016 expenses for the Society's postretirement benefit plans as compared to the expenses included in the 2016 Approved Budget.

Kristin Omberg, Chair

William Carroll, Jr.  
Bonnie Charpentier  
Pat Confalone  
Alvin Crumbliss  
Peter Dorhout  
Arlene Garrison  
Kathleen Gibboney  
William Greenlee

Sharon Haynie  
Joseph Heppert  
Rigoberto Hernandez  
Neil Jespersen  
Andy Jorgensen  
Valerie Kuck  
Willem Leenstra  
Joseph Stoner  
Marinda Wu

Associates

Brian Balazs  
Judith Cohen  
Carol Duane  
Janet Smith

Staff Liaison: Brian A. Bernstein

## REPORT OF THE COMMITTEE ON EDUCATION

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

SOCED members are working with Education Division staff on a workshop proposal to the National Science Foundation. The proposed workshop will solicit community input on the development of general chemistry performance expectations, a topic that has been explored by a joint SOCED-DivCHED Task Force.

Four outstanding high school students have been selected to represent the U.S. at the 48<sup>th</sup> International Chemistry Olympiad in Tbilisi, Georgia, from July 23-August 1. Members of the U.S. team are Alex Liu, Greater Houston Local Section; Zilu Pan, San Diego Local Section; Kevin Tang, Cleveland Local Section; and Joyce Tian, Chemical Society of Washington.

Twenty-seven SCI Scholars were selected from 243 applicants for summer internships at SCI companies. The program is open to sophomores and juniors who are majoring in chemistry or chemical engineering and have a minimum GPA of 3.5. Recipients will participate in a ten-week paid industrial internship at one of 16 participating companies. In addition, students will receive \$1,000 for professional development, a certificate, and the opportunity to recognize an influential high school chemistry teacher.

The Undergraduate Programs Office awarded its first ever New Activities Grant to an International Student Chapter. The Universiti Teknologi Malaysia was awarded \$330 to conduct chapter activities. Three International Student Chapters have applied for Student Chapter Grants during the current grant cycle.

More than 3,600 individuals, 88 percent of whom are K-12 teachers, are members of the American Association of Chemistry Teachers (AACT). The first 2016 AACT-Dow Teacher Summit was held in Louisiana in June, with a second Summit scheduled for Texas in July. High school programming at the Biennial Conference on Chemical Education will be co-listed as an AACT track.

Over 800 graduate students and postdoctoral scholars attended the ACS Graduate & Postdoctoral Scholars Reception at the ACS National Meeting in March. Attendees networked with representatives of ACS Divisions, the ACS Younger Chemists Committee (YCC), the ACS Graduate Education Advisory Board, and ACS staff. YCC cosponsored the event in collaboration with the staff of the Division of Membership and Scientific Advancement.

A new event offered during the ACS National Meeting in San Diego was the *Faculty & Postdoc Afternoon Networking Coffee Break*, which was attended by more than 40 postdoctoral scholars and faculty members. Postdocs enjoyed guided discussions from a diverse faculty panel, along with postdoc-faculty networking at tables. Attendees rated their overall experience as a 4.5 on a scale of 1–5, with 5 being the highest.

Diane Krone, Chair

Charles M. Baldwin  
Iona Black  
Simon G. Bott  
John V. Clevenger  
Deborah H. Cook

Melanie M. Cooper  
Thomas B. Higgins  
Diane Krone  
Thomas H. Lane  
Joan A. Laredo-Liddell

Jennifer B. Nielson  
Ieva L. Reich  
Susan M. Shih  
Kristine S. Smetana  
Donald J. Wink

Jesse D. Bernstein  
George M. Bodner  
Milagros Delgado  
Jeremy Garritano  
Carmen V. Gauthier

Associates

Tracy A. Halmi  
Matthew J. Mio  
Richard L. Nafshun  
Jane Nagurney

Joshua Pak  
Sam R. Pazicni  
Danae R. Quirk Dorr  
Ellen J. Yeziarski

Consultants

Michael R. Adams  
Norbert J. Pienta

Staff Liaison: Mary Kirchhoff

## REPORT OF THE COMMITTEE ON SCIENCE

The Committee on Science (ComSci) is working to increase understanding of emerging frontiers in science, develop public policies to advance science in society, and recommend outstanding chemical scientists for prestigious external awards.

ComSci is currently working to inform ACS members and policymakers on strengthening forensic science. The committee assembled a writing team in May to revise the 2013 ACS policy statement on this issue and will consider a new statement in August for Board consideration later this year. ComSci is also organizing a symposium on this issue for the ACS national meeting in Philadelphia. The symposium, “Forensics: The Crossroads of Science, Policy & Justice,” will feature experts from government, law enforcement, academia and industry on key challenges and policy initiatives surrounding forensic science methodology, training, lab accreditation, the role of chemistry, and the implications for criminal investigation and national security. The committee expects this will be a model for future efforts to better link its policy work with its work on symposia.

ComSci reviewed and submitted comments in May to the Office of Public Affairs on the ACS public policy priorities document. The committee also reviewed updated policy statements on climate change and chemical regulation/risk assessment in June.

After submitting a Board-approved ACS nomination for the French Grand Prix award in February, ComSci submitted an ACS nomination in April for the Presidential National Medal of Science—the nation’s highest honor for a scientist.

Finally, the committee is working to develop success stories of chemistry-related cross-sector collaboration to inform and encourage stakeholders on the important role of university-industry partnerships in accelerating innovation. This was one of the key recommendations arising from a ComSci roundtable with division, journal and industry leaders in August 2015. The success stories will also inform a pilot session on industry-university collaboration at the ACS Southwest Regional Meeting in November.

### Mark C. Cesa, Chair

Rudy M. Baum  
Michael R. Berman  
Steven M. Bonser  
Debbie C. Crans  
John W. Finley  
Brian R. Gibney  
Robin J. Hood  
Lauren Jackson

Vera V. Mainz  
Barbara E. Moriarty  
Adam C. Myers  
Tina M. Nenoff  
Barry J. Streusand  
Hessy L. Taft  
Ralph A. Wheeler  
Christopher J. Welch

### Associates

Charles P. Casey  
Matthew A. Fisher  
Eric M. Furst  
Martin G. Kociolek

Dorothy J. Miller  
Janet E. Nelson  
Brian J. Walker

Staff Liaison: Brian Dougherty

**Special Discussion  
Gathering Input on Proposed Recommendations  
ACS Presidential Task Force on the U.S. Employment of Chemists  
ACS Council, August 24, 2016**

At the Council meeting March 16, 2016, the Council engaged in a special discussion to gather input for the ACS Presidential Task Force on the U.S. Employment of Chemists.

In her introductory remarks, Dr. Nelson stated that she assembled a task force on employment in the chemical sciences in 2015. The task force is examining and considering all known influences that can impact employment in the chemical sciences. One goal was to hear opinions from everyone, and the task force sought the input of all Councilors.

The task force was charged to address the following:

1. Factors which determine balance between supply and demand.
2. Employment situation for technicians.
3. Benefits and handicaps of possible certification, licensing, and registration of chemical professionals.
4. Do we prepare our graduates for the jobs offered by industry?
5. What are the opportunities to help young graduates and mid-career chemical professionals find employment?
6. Are minorities adequately represented in the chemical workforce? What is needed to get them in the pipeline?
7. Global factors influencing employment situation for US chemical professionals: Effect of outsourcing and immigration.

Nearly 30 Councilors shared their thoughts or made suggestions on the specific areas listed, or added to the list. Dr. Nelson concluded the discussion by thanking the Council and said a summary would be sent to the task force. The summary was provided to the task force in April.

The task force is currently preparing recommendations relating to four major reasons behind employment problems:

1. An imbalance in supply and demand.
2. Graduates are not prepared for industrial, applied work.
3. Outsourcing.
4. Unfavorable legislation relative to research & development.

Preliminary recommendations are expected from the task force in mid-July, and a final report will be assembled after the Philadelphia National Meeting.

The discussion proposed for the Council meeting in Philadelphia is to present major outcomes from the task force so far. Additional input will be sought from Councilors which will help the task force to identify any gaps or to address specific questions.

## REPORT OF THE COMMITTEE ON MEETINGS AND EXPOSITIONS

The official attendance at the 251st ACS National Meeting in San Diego, CA, totaled 16,310. The exposition in San Diego had 415 booths with 274 exhibiting companies.

Due to space restrictions for this meeting, there were limited exemptions to the even programming rules. We would like to thank the division and program leadership for their understanding.

ACS continues to lead the meeting industry in green chemistry efforts and has been named a co-winner of the 2016 UFI Sustainable Development Award, the premier organization representing the exhibition industry. ACS was also recognized as one of this year's 2016 RISE Award finalists for the Meetings Impact Award sponsored by the Meetings Professional International. These are significant accomplishments for the ACS and its Greener Meetings Program.

As part of M&E's comprehensive sustainability plan, print copies of the program book for San Diego were significantly reduced with 2,138 program books sold as most attendees chose to use the digital program or the mobile app. The mobile app received nearly 9,000 downloads. For Philadelphia, the hard copy program book will continue to be available for attendees to purchase (at cost) when they register for the meeting and onsite. In response to numerous requests, the author index will be included in the hard copy program book. The Digital Program will continue to include the searchable author index and a downloadable link to the program.

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

The Operations Subcommittee continued to monitor the financial success of the national meetings with compliance with the National Long Range Financial Plan Task Force. Over the last 3 years, an economic model has been implemented to leverage spending. The subcommittee will review the site selection options for future years including the fall meeting in 2024. Potential locations for 2024 include Philadelphia, PA and Denver, CO.

In compliance with the National Meeting Long Range Financial Plan and the recommendations of the 2015 Task Force on Implementing National Meeting Financial Targets, M&E recommended the Early Member Registration Fee for the 2017 national meetings be \$440.

John Pochan, Chair

Arindam Bose  
Matthew K. Chan  
Emilio X. Esposito  
Kevin J. Edgar  
Gregory P. Foy  
Robert J. Hargrove

Martha G. Hollomon  
Warren D. Hull  
Silvia S. Jurisson  
R. Daniel Libby  
Will E. Lynch  
Michael J. Morello

Martin D. Perry  
D. Paul Rillema  
Susan M. Schelble  
Michael Singer

### Associates

Christina Bodurow  
Kevin R. Kittilstved  
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Staff Liaison: Robin R. Preston

## REPORT OF THE COMMITTEE ON DIVISIONAL ACTIVITIES

In June, the Committee on Divisional Activities, DAC, developed a strategic plan to guide its activities for the period 2016-2019. The committee's vision is: "*Empowering technical divisions to successfully advance the chemical enterprise.*" DAC adopted the following mission statement: "*To provide guidance, support, and resources to the technical divisions that enable them to accomplish their goals.*"

At least once every three years, DAC is required to bring to Council a formula for allocating dues funds to the divisions. In Philadelphia, DAC will discuss the allocation formula in advance of presenting it for Council approval at the 2017 Spring National Meeting in San Francisco.

DAC continues to work with selected divisions to pilot an initiative to digitally distribute national meeting content. POD Shorts, as they are known, are 2-3 minute video abstracts of presentations delivered at national meetings. DAC thanks the four divisions collaborating with the committee in Philadelphia: Organic, Polymer, Polymeric Materials: Science and Engineering, and Environmental. Collectively, they generated 264 oral presenters who volunteered to deliver a POD Short while in Philadelphia. The output will be posted with the full-length Presentations on Demand in early October.

DAC has been working with staff to increase the visibility of divisions on acs.org. In addition, staff will be reporting to DAC in Philadelphia on plans for presenting resources, guidance and support to division membership chairs to help them be more successful with their recruitment and retention efforts. DAC will be sharing more information on this subject with divisions in early September.

DAC is piloting a new program to offer resources and expertise to help divisions more readily identify and respond to emerging threats and opportunities. These resources will help divisions incorporate long-term strategic and business models into their current structure. DAC believes this will help divisions achieve greater success. The five divisions participating in the pilot program are: Agrochemicals, Agricultural & Food Chemistry, Chemical Education, Organic, and Polymer.

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 Philadelphia theme: "Chemistry of the People, by the People, for the People."

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Semih Eser  
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John M. Long  
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### Consultant

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Staff Liaison: John C. Katz



## REPORT OF THE COMMITTEE ON LOCAL SECTION ACTIVITIES

The Committee on Local Section Activities (LSAC) is completing its review of the 2015 local section annual reports from the 185 local sections. Reviewer comments for the completed reports have been posted in FORMS and local section officers and councilors are encouraged to read the comments and to provide a response, if applicable.

LSAC received 16 proposals for the 2016 Science Café Mini-Grant initiative, up to \$500 each, for hosting science cafés to promote scientific literacy within the local community and providing fun, educational, science events in their sections. The committee also received 13 proposals for Bridging-the-Gap Grants. The 2016 theme for Bridging-the-Gap was new technology to increase new member involvement. The awards of up to \$500 were to encourage sections to identify and implement technology that had never been used by the applying local section to engage new section members; it did not need to be cutting-edge. Finally, LSAC awarded grants to five local sections to host an ACS Leadership Development System course within their local section.

The committee received two petitions from local sections desiring the annexation of unassigned and adjacent territory. The petition from the Upper Peninsula (MI) Local Section also requests to annex one Michigan county (Menominee) currently assigned to the Northeast Wisconsin Local Section, in order to coalesce the counties in the Upper Peninsula of Michigan into a single local section. The officers of the Northeast Wisconsin Local Section have approved the petition.

The petition from the Permian Basin Local Section seeks to annex the Texas counties of Pecos (incorrectly noted as Peco on the attached map of local section territories) and Brewster, which is the home of Sul Ross State University.

LSAC approved both petitions. If approved by Council, the territory changes will be effective on September 1, 2016. Local Sections that would like the assistance of LSAC are encouraged to email [lsac@acs.org](mailto:lsac@acs.org).

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Fran Kravitz  
Louise Lawter  
Kathryn Louie  
Gregory L. Milligan  
Mary Virginia Orna  
W. Matthew Reichert

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Herbert B. Silber  
Paul J. Smith  
Lorena Tribe  
Laura Wolf

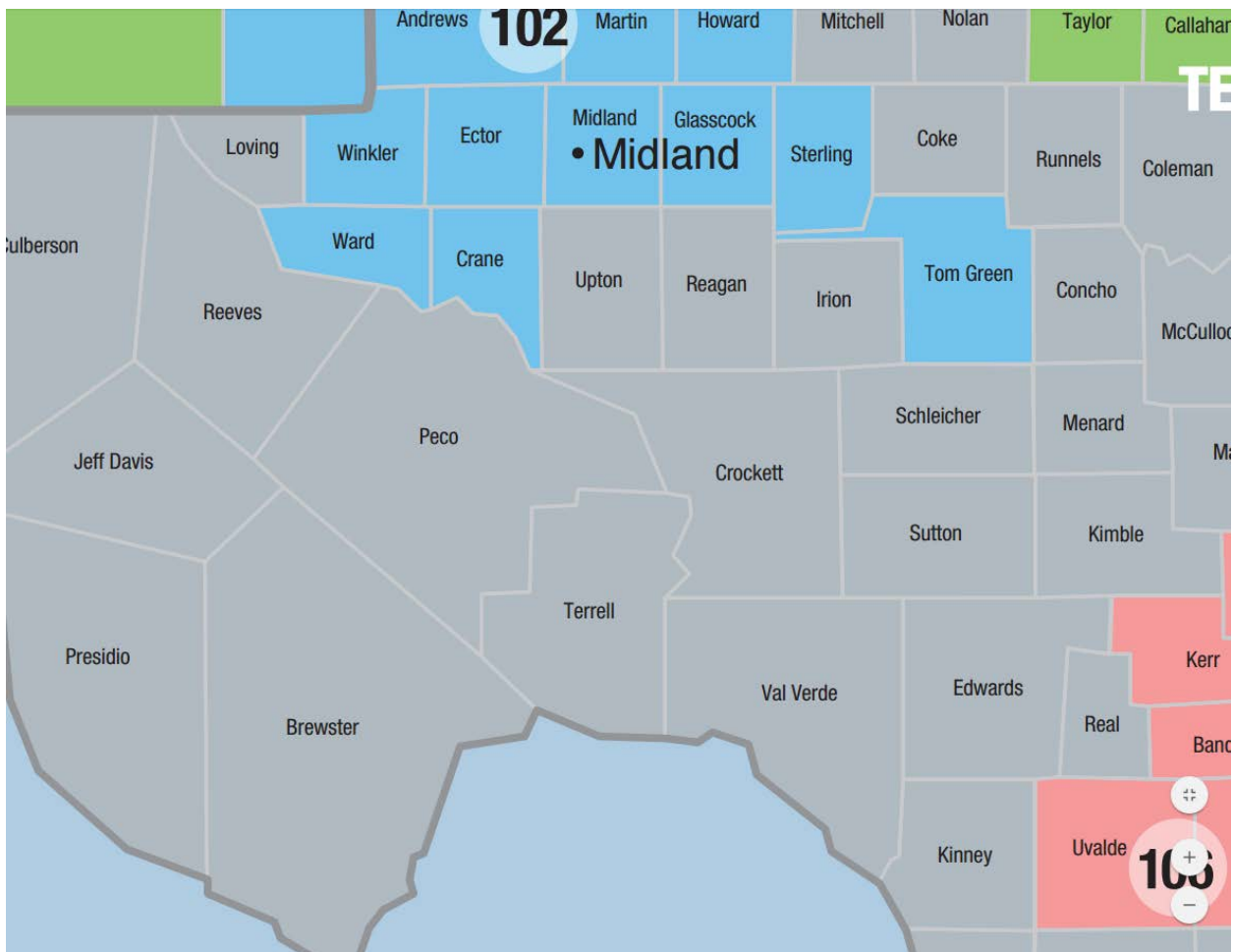
Staff Liaison: Debbie Fillinich

## PETITION FOR CHANGE IN SECTION TERRITORY

### Permian Basin Local Section

The Permian Basin Section (#102) requests approval for annexation of two unassigned counties located in Texas: Brewster and Pecos (incorrectly noted as Peco on the map below). Permian Basin would like to incorporate Brewster county, which is the home of Sul Ross State University, and Pecos, the contiguous territory, which includes Ft. Stockton.

The six members residing in the two unaffiliated counties were contacted and asked to respond to the petition. Both of the responding members supported the annexation.



## PETITION FOR CHANGE IN SECTION TERRITORY

### Upper Peninsula Local Section

The Upper Peninsula Section requests approval for annexation of seven unassigned counties located in Michigan: Alger, Delta, Dickenson, Schoolcraft, Luce, Mackinac, and Chippewa. The section also requests reassignment of Menominee County, Michigan, currently in the territory of the Northeast Wisconsin Local Section.

The 20 members residing in the seven unaffiliated counties of the Upper Peninsula were contacted and asked to respond to the petition. All seven of the responding members supported the annexation.

The officers of the Northeast Wisconsin Local Section and the three members on record as residing in Menominee County, Michigan were also contacted. We learned that one member was recently deceased. One member was in favor, and one member was opposed to the petition. All of the officers of the Northeast Wisconsin Local Section supported the petition. (It should be noted that all ACS members currently assigned to a local section may choose to change their local section affiliation upon request, but you may only belong to one local section at a time.)

Annexation of all eight counties will unite the territory into a single local section representing all of the Upper Peninsula of Michigan.



## REPORT OF THE COMMITTEE ON MEMBERSHIP AFFAIRS

The Membership Affairs Committee (MAC) is pleased to report that a test has been launched where non-ACS members that attend specialty conferences and join the Society can have their dues bundled with their registration fees. At the recent Green Chemistry Conference in Portland, OR, there were approximately 200 nonmembers, and 116 joined the Society by accepting the offer. The same recruitment strategy will be used at other conferences, including one that will take place in Beijing in October and a third conference that will take place in India at the end of the year. At these conferences the offer will be presented automatically and 100% conversion is expected.

The Society continued to attract large numbers of new members, nearly 24,000 in 2015. However, as of December 31, 2015 the ACS membership stood at 156,876, which is a 0.96% loss 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 overall membership retention rate for 2015 was a very robust 84.12%.

The Society also continues to see solid growth in our Student Member undergraduate population, the pipeline of the future. The loss in membership is occurring, not from an increase in the loss of new members or Student Members, or from a decline in Retired or Emeritus Members, but rather in the number of Regular Members who pay the full amount of the member dues. In an effort to increase member satisfaction and retention, a survey of members via the Insight Lab is being developed to determine what the membership wants is important, from new dues options to new member benefits.

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 action on this in Philadelphia.

**MAC invites all interested Councilors and Members to join the committee for discussion, questions and answers about the Petition on the Employee Dues Waiver during the MAC Open Meeting, Monday, August 22, 1:00 – 2:00 p.m. in the Philadelphia Marriott Downtown.**

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 request permission to extend this test, after an affirmative vote by MAC.
3. 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 respond to a specific email campaign to get the discount. The results were 119 new members from the campaign.
4. 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.

5. Based upon the test in India, MAC approved a test to implement the World Bank Model ranking of discounts for countries of interest, where there is an International chapter established. The length of membership for members receiving discounts through the World Bank rankings will last throughout the chosen period, 1-3 years, even if the World Bank ranking changed during that tenure. This test became operational in Mid-June.
6. 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 these tests.

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.

James M. Landis, Jr., Chair

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Ella Davis  
James Duddey  
Merle Eiss  
Julie Jessop

Resa Kelly  
Brian Mathes  
Melanie J. Moser  
Kevin Pate  
Margaret Schooler  
Ann Sullivan  
Ruth Tanner

Associates

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David Singleton  
Stefanie Wittenberg

Staff Liaison: Francisco Gomez

## REPORT OF THE COMMITTEE ON ECONOMIC AND PROFESSIONAL AFFAIRS

The Committee on Economic and Professional Affairs (CEPA) continues to evaluate and implement the portfolio of career related programs, products and services to ensure balance and alignment with members' needs. CEPA continues to explore novel approaches to fulfilling our mission of improving the professional lives of chemists in what continues to be a challenging economic environment.

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 Chemical Professional's Code of Conduct (CPCC) was revised and updated accordingly and presented for consideration of Council at the ACS National Meeting in San Diego, CA in March 2016. No revision comments were received and the document is now ready for action and can be found on page 93-95 of this agenda book.

The ACS policy statement on Employment Non-discrimination is set to expire at the end of 2016. CEPA is presently reviewing its options on this statement. The committee plans to submit a revised statement to the ACS Board of Directors before year end for their consideration.

Mass layoffs continue to be a concern, especially by large multinationals, and both CEPA and the ACS Department of Career & Professional Advancement continue to monitor these and respond appropriately according to the needs of each situation. Recent responses in 2016 have included a career day under the guidance of the ACS Delaware Local Section in relation to the DuPont layoffs and work with the Portland Local Section to provide access to the Green Chemistry & Engineering Conference for any member impacted by the Intel layoffs in Oregon. The CEPA Subcommittee on Events, Volunteers, and Employment Services is presently working on a boilerplate response to serve as the starting point in the response to future mass layoffs.

CEPA is also pleased to announce a series of upcoming online career events in the Fall. This virtual programming will provide ACS members access to many of the valuable career service offerings that until now have mainly been concentrated physically at ACS meetings and other specialty events. These pilot offerings will run from September through November of this year and include career workshop topics provided in a virtual classroom setting, virtual networking, and an online career consulting event. Results will assist in determining the feasibility of further such programming in the years to come.

We are pleased to also announce that tactics successfully introduced at recent ACS career fairs are being continued in Philadelphia to ensure further robust participation of both job seekers and employers in this and future fairs to come. For the job seekers, the popular headshot service will continue for the third career fair in a row. The service provides any meeting attendee who completes their job seeker profile a quality, expertly done photograph for use in their professional social media accounts. For quick career questions, job seekers will also have access to a career consultant booth located within the Recruiters Row area of the exposition. Finally, both employers and job seekers will again be connected to learn and share about career topics through the lightning talk theater located within the career fair.

The report of the 2015 Survey of New Graduates in Chemistry and Related Fields is expected to be publicly released in the near future. The initial high-level results show that the overall new graduate unemployment number increased slightly from 12.4% in the 2014 edition to 13.0% in 2015. While below its peak of 14.9% from 2013, the number is still concerningly high and CEPA continues to monitor and respond to this issue as appropriate. Councilors and ACS Members interested in learning more about the methodology of this survey and the ACS Comprehensive Salary & Employment Status Survey are encouraged to read [Rick Ewing's recent C&EN Comment](#) in the April 25, 2016 edition.

Rick Ewing, Chair

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Alvin Bopp  
Melissa Betz Cichowicz  
Dana Ferraris  
Tiffany Hoerter  
Jan Kolakowski

Kathryn Lysko  
Michael Miller  
Rachel Morgan Theall  
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George W. Ruger  
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## REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS

Since the beginning of 2016, the Committee on Constitution and Bylaws (C&B), acting for the Council, issued certified bylaws to seven Local Sections: Central Utah; Minnesota, MO-KAN-OK, The Tri-State; Northeastern Ohio, Red River Valley, South Central Missouri, and Western Connecticut. Since the spring meeting in San Diego, as requested, C&B prepared expedited bylaws for these Sections: Lexington, Texas A&M, and Wichita. C&B reviewed proposed bylaw changes and submitted reports to these Sections: Corning, Georgia, and St. Louis. C&B also sent options to update bylaws to 30 Local Sections, for which most have not updated their bylaws since 1977.

Certified bylaws are posted on the web at [www.acs.org/bulletin5](http://www.acs.org/bulletin5) (click on unit bylaws). There's also a status report that shows the certification dates of bylaws for Divisions and Local Sections; you can easily see those that have not updated their bylaws in quite a while. 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 request copies: [www.bylaws@acs.org](mailto:www.bylaws@acs.org).

Revisions to two Charter bylaws are up for action by Council at this meeting: Charter BYLAWS for New Local Sections and BYLAWS for Divisions in Probationary Status. C&B is working with the Committee on International Activities to revise their Charter bylaws.

There is one petition for action at this meeting: Petition to Extend the Unemployed Members' Dues Waiver. There are two petitions for consideration: Petition on the Rights of Affiliates and Petition for Removal of Officers and Councilors. New petitions to amend the Constitution and/or Bylaws must be received by the Executive Director ([bylaws@acs.org](mailto:bylaws@acs.org)) by **December 14** to be included in the Council agenda for the spring 2017 meeting in San Francisco. 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 July 1, 2016 edition of the ACS Governing Documents (Bulletin 5) and a detailed change document are available at [www.acs.org/bulletin5](http://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, August 21, from 1:30 – 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. If you have any questions or comments and are unable to attend this meeting, please send us an email to [bylaws@acs.org](mailto:bylaws@acs.org).

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Stan S. Hall  
Hiroko I. Karan

Virgil J. Lee  
John M. Long  
Jason E. Schaff  
Steven Trohalaki  
Blake Vance

Paul F. Vartanian  
John A. Whittle  
Doris L. Zimmerman

### Associates

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Staff Liaison: Barbara F. Polansky



A. Younger Chemists  
(joint with Board)

The Younger Chemists Committee (YCC) met in San Diego, CA on March 12-13, 2016. The YCC is a highly-active, diverse committee, focused on supporting young chemists at all stages of their career: from undergraduate and graduate students to early-career chemists. As such, the YCC is eager to develop programming and partnerships with other committees and divisions who have similar interests and focus. We aim to be a consistent resource for young chemists, to lead them as they transition from students into successful careers and active roles within ACS and their profession.

YCC is grateful for the continued partnership we have with ACS Office of Undergraduate Programs, supporting programs such as networking workshops and Graduate School Reality Check, where younger chemists share their perspectives and experiences. We hope that our voices carry both truth and wisdom, help for the next generation of younger chemists, and create professional and cultural awareness of the challenges younger chemist encounter in the near future. Partnerships like this are key to YCC's mission. We welcome suggestions and invitations to work with your committee or division to empower our membership. Please let us know if you have a program or idea where the YCC can contribute enthusiasm and insight, or a need for a younger chemist representative or liaison.

The YCC believes that healthy chemists are happy chemists! In San Diego, at the 251<sup>st</sup> ACS National Meeting, we hosted our 12<sup>th</sup> annual YCC Fun Run, generously supported by the Member Insurance Program (MIP). While historically hosted only at the Fall Meeting, due to a high level of interest (nearly 100 registrants) and beautiful weather, we chose to host both Spring and Fall YCC/MIP Fun Runs in 2016. Fun Run participants each earned a bright yellow YCC t-shirt, look for those at meetings to come.

The committee's most recent initiative, coined Catalyze the Vote, will come to fruition this election season. Inspired by the Rock the Vote campaigns of the '90s, Catalyze the Vote hopes to drive the awareness and interest of younger chemists to the ACS National Election, and the benefits of ACS membership as a whole. To achieve this, we've engaged both ACS Presidential candidates to participate in a virtual town hall specifically for younger chemists. Combined with social media campaigns surrounding the election, we believe that this event will help younger members feel connected and valued in the Society. With the support of the Committee on Nominations and Elections, we hope this event will become an annual campaign/event.

We continue to update and improve the YCC website (<http://ycc.sites.acs.org/>), to feature both YCC-led awards, initiatives, and news, as well as other Societal information that is relevant to younger chemists. If you wish to share information with our constituency through our website or active online presence (including Facebook, LinkedIn, and Twitter), please submit the relevant information via our online form ([bit.ly/YCC-COM-FORM](http://bit.ly/YCC-COM-FORM)), and a member of our communications subcommittee will provide assistance. We're happy to help drive interest and awareness to your activities, awards, and resources.

Natalie LaFranzo, Chair

Juan C. Aponte-Santini  
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Jakoah R. Brgoch  
Stephen M. Canham  
Christine E. Dunne  
Christine McInnis

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Navneet Goyal  
Jasmine N. Hunt  
Jeff Klenc  
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Taina D. Matos

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Kristin M. Nuzzio  
Marisa B. Sanders  
Artrease Spann  
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John Kelly  
Evijola Llabani

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Jamie Schwarzbach  
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Dominique Williams

Consultant

Peter K. Dorhout

Staff Liaison: Audley Burke

B. Women Chemists  
(joint with Board)

In 2016, the Women Chemists Committee (WCC) is investing additional efforts in promoting and recognizing the professional accomplishments of women in the chemical sciences. WCC activities span the career timeline. At the Fall 2016 ACS National Meeting, the following awards-related activities are being featured:

- WCC Merck Research Award – The first cohort of 8 awardees will present at a half-day symposium and be recognized at a special awards symposium luncheon on Sunday, August 21. Selected from 3rd & 4th year female graduate students, the awardees have a research focus in one or more of the following areas: organic, medicinal, analytical, chemical biology, computational or structural chemistry and related disciplines.
- WCC/Eli Lilly Travel Award – The fall 2016 cohort will be presenting their research at the WCC/Eli Lilly Poster Session prior to the WCC Luncheon on Tuesday, August 23 and in the programming of the Divisions of Biological, Environmental, Medicinal, and Organic Chemistry. These 10 students were selected on the basis of scientific merit and financial need.
- ACS National Awards – WCC is partnering with the ACS Board Standing Committee on Grants and Awards and the Diversity and Inclusion Advisory Board to increase the number and quality of nominations for ACS National Awards from underrepresented groups. ACS Divisions are among those being invited to consider the roles they can play. A working breakfast session will be held on Tuesday, August 23.

These activities are complemented by many others. The Women in the Chemical Enterprise breakfast, the WCC Luncheon, and the WCC Open Meeting/”Just Cocktails” reception are also being held at the Fall 2016 ACS National Meeting. The WCC Newsletter, website, and other communication mechanisms reach a broader audience. Collectively, working with a range of partners, WCC is pursuing its four goals:

1. Increase participation and retention of women in the chemical sciences and related disciplines
2. Take an advocacy position within the ACS on issues of importance to women in the chemical sciences
3. Provide leadership for career development opportunities for women in the chemical sciences and related disciplines
4. Promote and recognize the professional accomplishments of women in the chemical sciences and related disciplines

WCC is committed to its mission of being leaders in attracting, developing, promoting, retaining, and advocating for women in the chemical sciences.

In 2017, WCC will be celebrating its 90<sup>th</sup> anniversary and revising its strategic plan. Reflections on past accomplishments and suggestions regarding new and existing directions can be sent to [wcc@acs.org](mailto:wcc@acs.org).

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Christine S. Chow  
Renee S. Cole  
Amy C. DeBaillie  
Kelly M. George

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Ellen A. Keiter  
Cecilia E. Marzabadi  
Nahid Mohajeri  
Amy Nicely  
Bevin W. Parks

Michelle M. Rogers  
Mary Jane Shultz  
Laura S. Sremaniak  
Gail H. Webster  
Kimberly A. Woznack

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Ana de Bettencourt-Dias  
Alexia Finotello  
Trinity Hale  
Lisa K. Kemp  
Pamela D. Kistler  
T. Angele Kwimi  
Tina M. Leaym  
Alice Lurain  
Ean Warren

Staff Liaison: Jodi Wesemann

C. Senior Chemists  
(joint with Board)

The Senior Chemists Committee (SCC), now in its fourth year, continues with its revised mission “to address and support the needs and ambitions of senior chemists and to utilize their experience and knowledge.” The committee has refined its strategic direction with goals to develop and implement an active seniors’ network providing two-way communication among senior chemists; to increase the number of local section senior chemists committees to 30-40 in the next three years; and to develop activities that engage senior chemists in utilization of their expertise and experience. Efforts made and new initiatives created this year reflect the committee’s vision and encourage collaboration with ACS groups and members of all ages.

The SCC chair highlighted the need to examine and implement senior chemists’ role in a Comment article in [Chemical & Engineering News](#) (June 6, 2016). Information was shared on the committee’s accomplishments since initiation, our strategic planning retreat, and our revised vision, mission, and goals. Discussed also were communication and mentoring efforts, areas of engagement, collaborative opportunities, recognition, and upcoming plans.

In alignment with its strategic goals, the [Senior Chemists Group on the ACS Network](#) has been reestablished and currently is undergoing a new look in format that will provide a platform to communicate with SCC, network with other senior chemists, engage in discussions, share experiences and form connections. SCC members have been asked to join, and a special launch is being planned to recruit senior chemists to participate. The Silver Circle website is undergoing updates to provide information and opportunities for engagement by senior chemists as well. Promotions for the site are being planned for fall 2016.

Efforts are being made to encourage establishment of senior chemists groups within Local Sections. Ten mini-grants were provided in 2015, and the program has been extended in 2016. As of December 2015, 26 Local Section Senior Chemists Committees had been formed. In the 2015 Local Section annual reports, 90 senior chemists’ events/activities were recorded.

SCC is looking to expand its undergraduate and graduate mentoring activities to include K-12 student age groups. We have reached out to the American Association of Chemistry Teachers (AACT) to offer support for current programs. SCC has continued to contribute value to the success of the Undergraduate Speed Networking Event which occurs at ACS national meetings. At the 2016 San Diego meeting, 90% of the students who completed the post-event survey indicated it was very relevant to them. We have discussed with the various organizing groups how to adjust the event format based on feedback of participants.

SCC is interacting with various divisions regarding sponsoring symposia. Plans are underway for a symposium sponsored by SCC and the Younger Chemists Committee (YCC) and the Division of History and Chemistry for the 2017 National Meeting in San Francisco.

The Senior Chemists Breakfast held during the ACS National Meeting in San Diego featured keynote speaker Dr. Margaret Leinen, Director of the Scripps Institution of Oceanography and Vice Chancellor of the University of California, San Diego. In an outstanding presentation entitled “Our Changing Oceans: The Challenges from Climate Change” she discussed and illustrated how improvements in instrumentation have created a revolution in the ability of oceanographers to collect and interpret massive amounts of data used to characterize our oceans and the actual changes observed.

[\*The Newsletter for Senior Chemists\*](#) continues its success with a 30% rate of opening and interest measured by responses from readers. The most recent June 2016 issue included the first two of a new series of articles about lesser known museums, interesting places, and historical locations. SCC is working with the ACS International Activities Committee on a new series of continuing articles to share information and highlights about individual ACS International Chapters.

SCC has discussed the issue of the beginning age for inclusion as a senior chemist and whether a change from the current age of 50 would be appropriate. After much discussion, the consensus was to keep the age minimum currently used and to manage concerns on an individual basis.

Thomas R. Beattie, Chair

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Dennis Chamot  
James L. Chao

Michaeline F. Chen  
Donald D. Clarke  
Catherine E. Costello  
Allen A. Denio  
Susan R. Fahrenholtz

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Lynn G. Hartshorn  
Thomas R. Hays  
Richard A. Hermens  
Robert S. Moore  
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Donald K. Harriss  
Norman W. Henry III  
E. Gerald Meyer  
Roger A. Parker  
J. Ernest Simpson  
Jane V. Thomas

Consultant

George E. Heinze

Staff Liaison: Semora T. Johns Smith

D. Publications  
(joint with Board)

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

The committee elected Jerzy Klosin as vice chair, who will serve in that capacity for the period March 11, 2016 to December 31, 2016.

The monitoring reports for *Nano Letters*, *ACS Nano*, and *Analytical Chemistry* were presented, discussed thoroughly and accepted with thanks. Editor reappointments for the two latter journals were reviewed and recommendations were made. The next publications to be monitored will be *ACS Sustainable Chemistry & Engineering*, *Chemical Research in Toxicology*, and *Inorganic Chemistry*.

It was announced that two Editor Search Committees had recommended, and the ACS Board of Directors had approved the following appointments: Professor John R. Yates, III (The Scripps Research Institute) to serve as the next Editor of the *Journal of Proteome Research*, effective in 2016; and Professor Prashant Kamat (University of Notre Dame) to serve as inaugural editor of the new ACS journal, *ACS Energy Letters*, effective in 2016.

Dr. Bibiana Campos Seijo, Editor-in-Chief, reported that during the C&EN Editorial Board meeting the main topics discussed were digital innovation, internationalization and the print redesign. She explained that the print redesign is just a first step towards improving the quality of the user experience across the C&EN range of products. A mobile app update will follow as well as a series of changes to the website to make it mobile-friendly. A web redesign is also underway. A success story in the area of digital innovation is C&EN's weekly newsletter which has stimulated reader and advertiser interest. In terms of internationalization, C&EN continues to increase its pool of freelancers and better utilize its non-US staff, and has also been doing Spanish translations of selected content.

The ACS Conference of Editors was held in January 2016, chaired by Professor Kirk Schanze, Editor-in-Chief of *ACS Applied Materials & Interfaces*. The agenda for that meeting and overview of the proceedings were shared with the committee. Topics included operational and technology innovation updates and a review of ongoing developments across all aspects of the Society's publishing operations, including outreach strategies in China and strategies for globalization and how to engage key stakeholders. The theme for the meeting was "Growing Globally" which featured several speakers from the academic community in Hong Kong, India, and South America.

With regard to globalization, the committee discussed and agreed on the merits of enlisting non-US active researchers as potential members or associates of the JBCCP. The chair encouraged current members to provide recommendations of such individuals.

The committee engaged in discussion about manuscript transfer among ACS journals during peer review. ACS Publications management will evaluate the results of early implementation of manuscript transfer and adjust the process to suit the needs of authors and editors, and also to optimize transfer to the Society's new Open Access journal, *ACS Omega*. A motion also was made and approved that all future journal monitoring reports should include a breakdown of manuscripts handled by editorial triage and the process used.

The Staff Liaison encouraged members of the committee to attend a symposium on Research Opportunities for Future Energy Technologies. The symposium was held on Sunday, March 13, from 1:30 pm to 5:10 pm, in Room 4 (Upper Level) of the San Diego Convention Center. Also, the committee encouraged that outreach be undertaken to ACS Editors to seek nominations for the Kavli Foundation Emerging Leader in Chemistry Lecture for the 2017 Spring ACS National Meeting in San Francisco, CA.

Nicole S. Sampson, Chair

David E. Bergbreiter  
Stephanie L. Brock  
Kay M. Brummond  
David A. Dixon  
Michael P. Doyle  
Jerzy Klosin

Julia Laskin  
Robert Y. Ofoli  
Charles H. Reynolds  
John N. Russell, Jr.  
Gary B. Schuster  
Richard V. Williams

Associates

Anthony W. Addison  
Lin X. Chen  
Paula Diaconescu  
Xiaosong Li

Staff Liaison: Brian D. Crawford



E. Public Relations and Communications  
(joint with Board)

The Joint Board-Council Committee on Public Relations and Communications (CPRC) is focused on providing tools and resources for ACS members, local sections and divisions to more effectively communicate about their activities and the value of chemistry, to a variety of audiences. Recent progress includes the following:

- Four subcommittees were established this year--awards, technology support for communications, Chemistry Ambassadors, and communication strategies for local sections and divisions.
- A variety of toolkits are in development to help local sections and divisions promote events, draw attendees, engage fellow members, partner with community groups and generate news coverage.
- CPRC is co-sponsoring "Chemists and the Public—What Research Shows about Engagement and Communication" for the ACS Philadelphia national meeting, and committee members are organizing a second symposia, "Crafting Chemical Communication."
- For the first time this year, the ACS participated in the World Science Festival's stage shows and expo. CPRC member Raychelle Burks drew an enthusiastic crowd for her presentation on the chemistry of smells and also for her Cool Jobs talk.
- The total number of ACS Chemistry Ambassadors is approximately 10,000. If a local section wishes to contact those Ambassadors within the section's boundaries, please send an email to [ChemistryAmbassadors@acs.org](mailto:ChemistryAmbassadors@acs.org).
- Any section that needs help communicating with public audiences is urged to contact CPRC staff liaison Nancy Blount for assistance, [n\\_blount@acs.org](mailto:n_blount@acs.org). Our committee members are also happy to serve as mentors for sections wishing to establish or expand their public relations efforts.

Jennifer Maclachlan, Chair

Raychelle M. Burks  
Béla Buslig  
Keith Butler  
Margaret Cavanaugh  
Amina El-Ashmawy  
Don Hicks

Lynn Hogue  
Patrick S. Lee  
Milt Levenberg  
Preston MacDougall  
Jennifer Maclachlan  
John Malin

William Oliver  
Keith H. Pannell  
Kenneth Poggenburg, Jr.  
Terence Edwin Say  
Anne K. Taylor  
Brian G. R. Treco

Associates

David Carrillo  
Micheal W. Fultz  
Chanda Ciriacks Klinker  
Kathy Shaginaw

Consultant

Mike Lawrence

Staff Liaison: Nancy Blount

F. Project SEED

Project SEED offers summer research opportunities for high school students from economically disadvantaged families. Since 1968, Project SEED has had a significant impact on the lives of more than 10,000 students. This summer, more than 425 high school students were placed in over 100 academic, governmental, and industrial laboratories to engage in hands-on research in chemistry and related sciences under the supervision of scientists. This outstanding participation is made possible by contributions from industry, academia, local sections, ACS friends and members, and the Project SEED Endowment.

This June, the Project SEED Scholarship Subcommittee reviewed 16 scholarship applications from the previous year's Project SEED College Scholarship recipients and awarded three three-year renewable Ciba Specialty Chemicals Scholarships for the 2016, 2017, and 2018 academic-years; this in addition to the 32 first year-nonrenewable college scholarships awarded to Project SEED alumni in February for the 2016-2017 academic-year. These scholarships are made possible by contributions from Alfred and Isabel Bader, and the following Endowments: Ashland Inc., Bayer Foundation, the Estate of Elizabeth Ernst Fosbinder, and Glenn and Barbara Ulyott.

The committee continues its commitment to work on strategies to increase the awareness among potential donors and mentors to increase funding for the program and expand the number of participants. The committee encourages all members to continue using the dues check-off option on their ACS membership renewal to support this remarkable program.

Anna G. Cavinato, Chair

Kimberly Agnew-Heard  
Maria Bohorquez  
Sandra J. Bonetti  
Bryan W. Boudouris  
Carolyn A. Burnley

Angela Hoffman  
Adriane G. Ludwick  
Michelle L. Rivard  
Brian A. Salvatore  
Jeffrey W. Seyler

Barbara Sitzman  
Chuanbing Tang  
Alan E. Tonelli  
Don L. Warner

Associates

Omar E. Christian  
Susanne M. Lewis  
Ajay V. Mallia  
Terrence Neumann  
Malcolm D. Prouty  
James Visintainer

Staff Liaison: Cecilia Hernandez

G. Professional Training  
(joint with Board)

At the March 2016 meeting, the Committee on Professional Training (CPT) evaluated 46 periodic reports from currently approved programs and held conferences with nine departments beginning the process of applying for ACS approval. CPT also evaluated site visit reports from six programs seeking approval, one update on an application, and two reports from approved programs on probation. CPT approved four new programs and withdrew approval of one program. There are currently 684 colleges and universities offering ACS-approved bachelor's degree programs in chemistry.

The committee approved a new supplement that provides guidance on how departments might satisfy the new requirement for coverage of two of the following systems: synthetic polymers, biological macromolecules, supramolecular aggregates, and meso- or nanoscale materials. The new supplement is available on the [CPT web page](#). In addition to the supplement, the committee held a symposium on this requirement at the Biennial Conference on Chemical Education in August.

A short survey on international experiences taken by undergraduate chemistry majors was developed and approved for inclusion in the 2015-16 annual report. The committee also approved a new self-study questionnaire that is used by programs applying for initial ACS approval. A subcommittee was appointed to draft a questionnaire to solicit information on the use of online courses and virtual laboratory experiences in undergraduate chemistry programs. The committee continued discussion of the resources and modifications to the existing approval program that might be needed if ACS were to pursue the development of a recognition process for undergraduate chemistry programs located outside of the United States and its territories. A final document with CPT's recommendations was submitted to ACS staff for consideration.

A breakfast meeting was held with the Visiting Associates, volunteers who make site visits to programs that are seeking initial approval by ACS. The committee reviewed the expectations for site visitors and answered questions from the participants. The committee also met with representatives from 41 (20%) of PhD-granting institutions. The results of the recently published report on a survey of PhD recipients and the new requirement to teach macromolecular-related topics were reviewed. The new ACS Chemistry Individual Development Plan (ChemIDP™) was also highlighted, and participants discussed how this new tool might fit with their existing career development activities for graduate students.

Thomas J. Wenzel, Chair  
Laura L. Kosbar, Vice Chair

Edgar A. Arriaga  
Ronald G. Brisbois  
Michelle O. Claville  
Bob A. Howell  
Jeffrey N. Johnston

Kerry K. Karukstis  
Clark R. Landis  
Stephen Lee  
Anne B. McCoy  
Lisa McElwee-White

Christopher R. Meyer  
Joseph J. Provost  
Richard W. Schwenz  
Greg M. Swain

Associates

Steven A. Fleming  
Scott A. Reid

Consultants

Ron W. Darbeau  
Suzanne Harris

Staff Liaison: Mary Kirchhoff

H. Patents and Related Matters  
(joint with Board)

The Committee on Patents and Related Matters (“CPRM”) provides ACS members and the general public with information about patents and other intellectual property issues. CPRM has created numerous educational materials, many of which provide guidance regarding second careers in the area of intellectual property. CPRM has expanded its focus to include technology transfer and sponsored research. All of CPRM’s materials are available on its website. CPRM also proposes nominations of notable inventors for external national awards recognizing the innovations and inventions of chemists. We welcome your suggestions for possible nominees.

Over the past few years, CPRM has worked to help reform the patent system. With the recent passage of the America Invents Act, CPRM has focused on ensuring that the Patent Office effectively implements this new law, the most significant patent reform law in fifty years. To this end, CPRM compiled and submitted comments in response to the Patent Office’s Request for Comments on Patent Quality. We are very pleased to note that the PTO has accepted several of our suggestions. In addition, the committee has begun providing speakers for the PTO’s Technology Fair. These speakers have provided patent examiners with hour-long updates on the latest developments in the chemical sciences. If you would like to participate in these efforts, please let us know.

CPRM has partnered with the Chemistry and the Law Division to provide patent-related programming at national and regional meetings. CPRM is exploring additional possible collaborative education efforts with ACS committees and divisions.

If you are interested in working with us on any of these matters, please contact us at [Patents@acs.org](mailto:Patents@acs.org).

Sadiq Shah, Chair

Joseph M. Antonucci  
Andrew H. Berks  
Carlyn A. Burton  
Kirby B. Drake  
William G. Gutheil  
David H. Jaffer  
Richard D. Jordan

Joseph M. Mabry  
David Mitchell  
Xavier Pillai  
Suguna H. Rachakonda  
Jonathan L. Sessler  
Edlyn S. Simmons  
Sidney S. White, Jr.

Associates

Richard G. A. Bone  
Jiwen Chen  
Blaine C. Childress  
Joonhyung Cho  
Katherine C. Glasgow

Michael Jaffe  
Ramesh Kumar  
Diana F. Mederos  
Lisa Mueller  
Howard M. Peters

Consultant  
Hubert E. Dubb

Staff Liaison: David T. Smorodin

I. Minority Affairs  
(joint with Board)

The Committee on Minority Affairs (CMA) will meet at the ACS National Meeting in Philadelphia on Sunday, August 21. CMA continues to promote its mission to advance ethnic and racial diversity and inclusion in ACS and the broader chemistry enterprise. Its activities in Philadelphia exemplify its efforts to do so, especially through its collaborations with other ACS committees and technical divisions.

CMA will hold a luncheon in collaboration with the Committee on Science on Monday, August 21, from 11:30 a.m. – 1:30 p.m. at the Marriott Philadelphia. Dr. Cato Laurencin will be the keynote speaker for the event. A man of many talents, he is a professor and surgeon at the University of Connecticut, the Chief Executive Officer of the Connecticut Institute for Clinical and Translational Science, the Director of the Institute for Regenerative Engineering, and the Director of the Raymond and Beverly Sackler Center for Biomedical, Biological, Physical, and Engineering Sciences. In addition, he is a recipient of the National Medal of Technology and Innovation and a member of both the National Academy of Engineering and the National Academy of Medicine. The title of his talk is “Success is what you leave behind: Innovation and leadership focused on humanity.” Tickets are available for purchase through the meeting registration process. We hope you will join us.

CMA is a co-sponsor and partner for five symposia centered on the meeting theme, “Of the People, by the People, for the People. On Monday, August 22, CMA is a co-sponsor with the Division of Professional Relations (PROF) of the symposium, “Building Opportunities in the Chemical Profession: Exploiting the Power of Diversity & Inclusion,” 8:30 a.m.-12 p.m., Garden Room, Hilton Garden Inn Philadelphia Center City; with the Women Chemists Committee of the symposium, “All the People, All the Paths in the Chemical Sciences,” 9:30 a.m.-12:10 p.m., Room 120C, Pennsylvania Convention Center; with PROF of the symposium “Diversity & Inclusion in STEM: LGBTQ+ Safe Zone Training for the Chemistry Community,” 1 – 5 p.m., Garden Room, Hilton Garden Inn Philadelphia Center City; and with PROF and the Division of Chemical Education of the symposium “The Social and Chemical Science of Diversity Equity,” 1:15 – 4:10 p.m., Franklin 6, Philadelphia Marriott Downtown.

On Tuesday, August 23, CMA co-sponsors with the Organic Division a half-day symposium on “New Trends in Organometallic Chemistry Leading to Organic Synthesis., 1 – 5p.m., Terrace Ballroom II, Pennsylvania Convention Center. CMA continues its efforts to diversify speakers at national meeting symposia by working with the technical divisions to include language on their websites that encourages speakers from under-represented groups.

We invite you to visit the CMA website <http://www.chemdiversity.org/>. This website contains many resources, including a curated list of websites that include chemistry employment opportunities that include diversity outreach to under-represented minorities. We have also extended our online presence to many social networks including Facebook ([www.facebook.com/acs.cma](http://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

Luke E. K. Achenie  
Dawood Afzal  
Kishore K. Bagga  
Barbara Belmont  
Mary Boyd

S. Thomas Dealy  
Patrick Gordon  
Christopher E. Hobbs  
Kimberly Jackson  
Ann C. Kimble-Hill

Mary Jo Ondrechen  
Armando M. Rivera Figueroa  
Michael Santiago  
Jerry Sarquis  
Albert N. Thompson

Associates

Seth Y. Ablordeppey  
Shanadeen C. Begay  
Nestor Carballeira  
Benny Chan  
Julius Green  
Judith Iriarte-Gross  
Robert M. Hoyte

Reni Joseph  
Waisu Lawal  
Steven Lopez  
Thomas W. Smith  
Alyssa C. Thomas  
Crystal Valdez

Interim Staff Liaison: Paula Christopher

J. International Activities  
(joint with Board)

The ACS Joint Board-Council Committee on International Activities (IAC) is dedicated to fulfilling the Society's constitutional commitment: "*The SOCIETY shall cooperate with scientists internationally and shall be concerned with the worldwide application of chemistry to the needs of humanity.*" Article II, Section 3, ACS Constitution. In San Diego, IAC affirmed its priorities to work in the following areas in support of this provision.

- Advance and serve the growing community of ACS International Chapters.
- Review ACS membership structures, policies, and activities that can accelerate and/or hinder fulfillment of the ACS brand promise to our member volunteers, chemists, chemical engineers, and chemical educators with global interests.
- Expand awareness and presence of ACS International Activities across ACS technical divisions, local sections, committees, meeting attendees, award recipients, ACS Fellows, and editorial and author communities.
- Assure a committee environment that welcomes and supports open communication and service opportunity where a diversity of thought, opinion, and contribution is nurtured.

**International Chapters.**

1. In San Diego, IAC reviewed and recommended ACS Council and ACS Board of Director approval for the establishment of ACS International Chemical Sciences Chapters in Iraq, Southwest China, and Greater Beijing. The applications will come before Council at this meeting.
2. IAC is pleased to report that in May 2016 the Brazil ACS International Chemical Sciences Chapter held a launching ceremony in Brasilia, Brazil.
3. IAC is also pleased to report that in June 2016 the Peru ACS International Chemical Sciences Chapter held a launching ceremony in Lima, Peru.

**Education and Outreach Activities.**

1. IAC is piloting a competitive program of stopover grants for ACS members with existing planned 2016 international travel for research collaboration and exchange. The support will help cover costs to leverage such trips for stopovers en route to expand member international networks and research interests.
2. International Research Experiences (IREU): This program is supported by NSF to place U.S. chemistry students in Europe and Southeast Asia for international research experiences. This summer, 17 U.S. students were competitively selected nationally from more than 250 applications to participate in the 2016 10-week IREU program in Scotland, Italy, Singapore and Germany.
3. Building Opportunity out of Science and Technology (BOOST): With support from the US Department of State's BOOST program, IAC members provided soft skills training in June to 370 young scientists and engineers at four different universities in Peru.
4. Sister Societies: the ACS is hosting several international VIPs from our sister societies from Europe, Asia, and the Americas. There are sizable delegations from the Chinese Chemical Society and the Mexican Chemical Society, which will be signing alliance agreements with ACS. The ACS recently hosted leadership from the Cuban Chemical Society in Washington, D.C. to participate in a panel discussion at the National Press Club entitled "Opportunities for Collaboration on Science and Higher Education."
5. IUPAC 2017: the 46th World Chemistry Congress is scheduled to take place in Sao Paulo, Brazil, July 9-14, 2017. ACS is coordinating with leadership from IUPAC and the Brazilian Chemical Society, which is hosting the event. For more information, please visit <http://www.iupac2017.org/>.

6. Chemistry Festival: A successful Chemistry Festival was held in Dalian, China in July 2016 in conjunction with the Chinese Chemical Society annual meeting. Over 800 people registered for and attended this event. The first Festival Training Institute was also held at this event. Delegates from each of the four other Greater China Chapters of the ACS (Taiwan, Hong Kong, Chapter Candidate Southwestern China, and Chapter Candidate Greater Beijing (Jin-Jin-Ji)) attended the two-day training in Dalian to prepare them to host Chemistry Festivals in their home regions. Another Festival Training Institute will be held in Panama in November 2016.
7. Global Innovation Grants (GI Grants): IAC convened a panel to peer review and select the 2016 GI Grant awardees. There were a total of 15 competitive applications this year, and six awardees were selected from among ACS Local Sections, Technical divisions and Chapters. 2016 awardees are currently carrying out their projects, and will provide a report to IAC summarizing the projects in early 2017.
8. ACS Science and Human Rights (ACS SHR): ACS SHR has established an Alert Network for ACS members who want to take action regarding at-risk chemists, chemical engineers, and allied chemistry professionals. The listserv has over 80 subscribers, who receive updates from partner science and human rights organizations. To join the Alert Network and learn more about ACS Science and Human Rights, please visit <https://www.acs.org/content/acs/en/global/international/science-and-human-rights.html>
9. Pittcon Travel Grant: With generous support from the Society for Analytical Chemists of Pittsburgh (SACP), the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (Pittcon) and the Wallace H. Coulter Foundation, this year's delegation featured 8 early career chemists from Croatia, Lithuania, and Serbia. They attended the conference March 6-10, 2016, and each presented a poster or gave an oral presentation. Looking forward, the 2017 delegation will feature scientists from the South America and Mexico; applications are still being collected.
10. IAC Global Innovation Imperatives (Gii): an IAC review panel selected the 2016 Gii project from an application from the ACS International Chemical Sciences Chapter in Brazil; the topic will focus on green chemistry education. The event is planned to be held in the beginning of November. The white paper from the 2016 project will be released at the Philadelphia National Meeting.
11. Global Chemists Code of Ethics (GCCE): Working with the Organisation for the Prohibition of Chemical Warfare and PNNL, ACS International Activities convened 30 scientists from 18 countries for a workshop in Kuala Lumpur, Malaysia to collaboratively draft an actionable Global Chemists' stakeholders Code of Ethics (GCCE), guided by The Hague Ethical Guidelines and the Code of Conduct Toolkit. The documents are posted on the ACS website at [www.acs.org/scienceandhumanrights](http://www.acs.org/scienceandhumanrights). Ongoing training institutes are being planned for the regions of Asia-Pacific, Eurasia, and Eastern Europe.
12. International Center: the ACS International Center has a new advisory board, consisting of prominent ACS volunteer leadership. To view events and other funding information, visit [www.acs.org/ic](http://www.acs.org/ic).

### Meetings and Symposia.

IAC is working with the 2016 ACS President to organize three symposia in Philadelphia:

1. Chemical Sciences & Human Rights Symposium (Sun 8/22).
2. Chemistry in the U.S. & China: Current & Future States of Shared Scientific Interests & Opportunities for Cooperation (Sun, 8/22 and Mon, 8/23).
3. Broadening Participation in Global Chemistry Experiences: Why Engaging Diverse Chemistry Communities in Global Research is Critical (Mon, 8/23).

We invite our ACS Councilor colleagues to attend these gatherings as well as the IAC Open Meeting on Saturday, August 20, 1:00 p.m., Networking Globally: Science & Human Rights Event on Sunday, August 21st at 4:00 p.m., and the IAC International Networking Reception on Sunday, August 21 at 5:30 p.m., all in the Philadelphia Marriott.



Finally, at the ACS National Meeting in Philadelphia, *IAC will seek approval from our Councilor colleagues for the establishment of ACS International Chemical Sciences Chapters in Greater Beijing, Southwestern China, and Iraq. The applications were initiated by ACS members based in the respective countries. The applications have been reviewed and approved by the ACS Committee on International Activities.*

Ellene T. Contis, Chair

Tom J. Barton  
Madan M. Bhasin  
Richard S. Danchik  
Timothy W. Hanks  
Nancy B. Jackson  
Csaba Janaky  
Venera Jouraeva  
Jody A. Kocsis  
N. Bhushan Mandava

Cynthia A. Maryanoff  
Shelli R. McAlpine  
Attila E. Pavlath  
Agnes M. Rimando  
Luke B. Roberson  
Isai T. Urasa  
Douglas B. Walters  
Peter Zarras

Associates

Jens Breffke  
Jorge L. Colon  
Rasika Dias  
Scott R. Gilbertson  
Morton Z. Hoffman

Sergio C. Nanita  
Todd D. Nelson  
Javier Vela-Becerra  
David Wu  
Kap-Sun Yeung

Consultant

Nina I. McClelland  
Elsa Reichmanis

Staff Liaison: Bradley Miller

## **FOR COUNCIL ACTION**

### **Petition to Charter an International Chemical Sciences Chapter**

One legal application has been received for the formation of a new international chemical sciences chapter to be known as the China National Capital Area (JingJinJi) International Chemical Sciences Chapter. The JingJinJi (China) International Chemical Sciences Chapter will consist of the territory of the provinces of Beijing, Tianjin and Hebei, and is not part of any other Chapter or Local Section of the Society.

The petition was initiated and signed by ACS members in good standing and residing in the territory. The application meets all of the requirements of Bylaw IX of the Society, and includes a statement that the applicants are familiar with and will abide by all governing documents of the Society including specifically Bylaw IX Section 2(c), which states that the Chapter and its officers as representatives of the Chapter shall not engage in political activity, shall avoid any activities that may adversely affect the interests and/or public and professional image of the Society, and shall assure that all activities of the Chapter shall be open to all members of the Society. The application includes a proposed budget for the operation of the Chapter, which includes no allotment of funds from the Society. The petition has been reviewed by the ACS Joint-Board Committee on International Activities (IAC).

This action seeks the approval of the Council and is contingent on the approval from the ACS Board of Directors, after which, the Chapter will begin operation.

### **Petition to Charter an International Chemical Sciences Chapter**

One legal application has been received for the formation of a new international chemical sciences chapter to be known as the Iraq International Chemical Sciences Chapter. The Iraq International Chemical Sciences Chapter will consist of the territory of Iraq, and is not part of any other Chapter or Local Section of the Society.

The petition was initiated and signed by ACS members in good standing and residing in the territory. The application meets all of the requirements of Bylaw IX of the Society, and includes a statement that the applicants are familiar with and will abide by all governing documents of the Society including specifically Bylaw IX Section 2(c), which states that the Chapter and its officers as representatives of the Chapter shall not engage in political activity, shall avoid any activities that may adversely affect the interests and/or public and professional image of the Society, and shall assure that all activities of the Chapter shall be open to all members of the Society. The application includes a proposed budget for the operation of the Chapter, which includes no allotment of funds from the Society. The petition has been reviewed by the ACS Joint-Board Committee on International Activities (IAC).

This action seeks the approval of the Council and is contingent on the approval from the ACS Board of Directors, after which, the Chapter will begin operation.

### **Petition to Charter an International Chemical Sciences Chapter**

One legal application has been received for the formation of a new international chemical sciences chapter to be known as the South Western China International Chemical Sciences Chapter. The South Western China International Chemical Sciences Chapter will consist of the territory of the provinces of Sichuan, Chongqing, Guizhou, and Yunnan, and is not part of any other Chapter or Local Section of the Society.

The petition was initiated and signed by ACS members in good standing and residing in the territory. The application meets all of the requirements of Bylaw IX of the Society, and includes a statement that the applicants are familiar with and will abide by all governing documents of the Society including specifically Bylaw IX Section 2(c), which states that the Chapter and its officers as representatives of the Chapter shall not engage in political activity, shall avoid any activities that may adversely affect the interests and/or public and professional image of the Society, and shall assure that all activities of the Chapter shall be open to all members of the Society. The application includes a proposed budget for the operation of the Chapter, which includes no allotment of funds from the Society. The petition has been reviewed by the ACS Joint-Board Committee on International Activities (IAC).

This action seeks the approval of the Council and is contingent on the approval from the ACS Board of Directors, after which, the Chapter will begin operation.

### K. Ethics

The ACS Committee on Ethics (ETHX) has been active in several areas since our last report to Council. Subcommittees have been restructured to better address the goals from the strategic plan for the committee. Because of the size of the committee, each of the two new subcommittees will have primary responsibility for the implementation of the strategies from two goals from our strategic plan.

The **Subcommittee on Resources and Communication** reviewed opportunities for the development of printable ethics material, and for increasing the exposure of the committee and the opportunity to distribute material by partnering with the Committee on Chemical Safety (CCS) and Division of Chemical Health and Safety (DCHS) to share booth space at future meeting expositions. This subcommittee continues the review of a document designed for distribution to undergraduate STEM students.

The **Subcommittee on Awareness and Education** began developing concepts for the development and sponsorship of symposia and workshops at both national and regional meetings. The focus for national meeting symposia will include development of topics that align with the meeting themes from the Multidisciplinary Program Planning Group. To further this goal there will be an ETHX poster at SciMix in Philadelphia as a part of the Division of Chemical Education poster sessions. Also, the Division of Chemical Information (CINF) has agreed to co-sponsor a symposium in San Francisco relating to the ethics of authorship.

At our meeting on March 13<sup>th</sup>, the committee visited with Heather Tierney with ACS Publications, who is moving to a new position in Journals and Ethics Policy. She addresses many of the challenges that are faced by ACS Publications, and also mechanisms for the education of authors to help them avoid some of the more common problems that have been identified. Dorothy Phillips addressed the ACS Environmental Scan that is being conducted by the Board of Directors, and how the committee can benefit from this work. We also reviewed the Global Chemists' Code of Ethics, and voted to support the petition for consideration at the Council meeting in San Diego to extend free membership benefits to unemployed members from two years to three years.

Subsequent to the meeting the Chair has received inquiries regarding the new policy regarding the rescission of National awards. All such requests have been forwarded to the Board Committee on Grants and Awards.

Keith Vitense, Chair

Ben Chastain  
Victor Hruby  
Karlo Lopez  
Edward Mottel

Laurence Doemeny  
William Leong  
Leah McEwen  
James Tatera

#### Associates

Lester Bynum  
Judith Currano  
Kelly Elkins  
Helen Gerhard

George Heard  
Patrick Knerr  
Patricia Mabrouk  
Steven Tait

#### Consultant

Sue Schelble

Staff Liaison: Eric Slater

L. Environmental Improvement  
(joint with Board)

The Committee on Environmental Improvement (CEI) continues to focus its attention on increasing ACS leadership related to sustainability and sustainable chemistry. Just as advancing sustainability requires collaboration, CEI does much of its best work through partnerships with a wide array of ACS units.

CEI is leading the process to review and update two ACS public policy statements: Chemical Risk Assessment and Regulatory Decision Making in partnership with Corporation Associates (CA) and Climate Change in partnership with the Committee on Science (ComSci) and CA. We have recommended retiring the statement on Biomonitoring, and it is likely that we will also recommend retiring the statement on Testing for Endocrine Disruption.

The Division of Environmental Chemistry, ENVR, is our longstanding collaborator on a variety of topics. At the Philadelphia National Meeting, CEI and ENVR are teaming up with the Agricultural and Food Chemistry Division (AGFD), the Division of Agrochemicals (AGRO), and ComSci to co-sponsor “*The Debate: What Role Should We Play in the Biotechnology Era?*” This session is part of a two-day symposium intended to explore whether or not we should propose a policy statement in this area and what it might say. Councilors are invited to attend, particularly if you are interested in the ACS public policy priorities.

CEI also continues to support and recognize the work of the ACS local sections related to sustainability. In 2016, the committee has provided mini-grants to the New York and Northeastern Local Sections and recognized past efforts by naming the Dallas Forth Worth, Midland, and Princeton Local Sections as finalists for ChemLuminary Award for Outstanding Sustainability Activities.

Council should also be aware that CEI is reviewing the toolkits, including the Climate Toolkit initiated by former ACS President Bassam Shakhshiri, and are actively seeking input on how best to proceed.

CEI has launched social media projects as we look to develop a more active network of ACS members interested in environmental issues. To get more information or join the dialogue, follow [@ACS\\_CEI](#).

The committee continues to sponsor the attendance at the Conference of Parties (COP) climate talks by an ACS Student Team. Originally launched as a kick-off event for the International Year of Chemistry, nine students represented ACS at COP21 in Paris. There has been a lot of press around this project, and you are urged to visit [www.studentsonclimatechange.com](http://www.studentsonclimatechange.com) for more information. The committee is looking to develop an “Adopt a Student” opportunity to sponsor this program, and to develop additional partnerships to increase and diversify student participation.

Anthony M. “Tony” Noce, Chair

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M. Community Activities  
(joint with Board)

National Chemistry Week (NCW) will be celebrated October 16-22, 2016 with the theme “Solving Mysteries through Chemistry.” All Local Sections are encouraged to participate through hands-on science events, local illustrated poem contests, and by organizing a community garden, which is the NCW 2016 Community Event. Resources specific to NCW coordinators are located at [www.acs.org/ncw](http://www.acs.org/ncw) (Organize an NCW Event). It is important that Local Sections identify a Member as NCW coordinator.

On Saturday at the San Diego National Meeting, a huge crowd came out for our public outreach event, “Exploring Our World Through Chemistry”, at the San Diego Central Library. The outreach event was a part of San Diego Festival of Science and Engineering’s finale event. We had outstanding participation with over sixty volunteers presenting twelve tables of hands-on activities from 1:00 to 4:00 pm, reaching an estimated 400 members of the public. A Salute to Excellence plaque was given to each of the San Diego Public Library and the Biocom Institute for providing the venue and the science festival collaboration, respectively.

On April 22, 2016, CCA led the Society's outreach efforts for Chemists Celebrate Earth Day (CCED). This year’s theme “The Great Indoors-Your Home’s Ecosystem” encouraged ACS members to engage the community in organizing a CCED recycling event. More than 43,000 printed copies of Celebrating Chemistry were distributed in English and Spanish, and the publication is available online. There were 8 finalists in the Illustrated Poem contest, and winners were identified in all four grade ranges (K-2, 3-5, 6-8, 9-12).

During the Philadelphia National Meeting, CCA will facilitate hands-on activities at The Franklin Institute on Saturday, August 20, 2016, from 10 am to 2 pm. All are encouraged to visit the museum and show support.

Looking ahead, planning is underway for CCED 2017 with the theme, “Chemistry Helps Feed the World”, and NCW 2017 with topics covering rocks and minerals. As always, CCA encourages Councilors to ensure that their Local Section has a Member appointed as outreach coordinator in their Local Sections and to consider nominating outstanding volunteers for the Local Section Outreach Volunteers of the Year Award. You can learn more about ACS outreach activities at [www.acs.org/outreach](http://www.acs.org/outreach).

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N. Chemists with Disabilities  
(joint with Board)

CWD continues to work with other entities (ACS and non-ACS) to ensure that all individuals have opportunities to advance the chemical sciences by drawing on their full range of talents.

ACS Examinations Institute and CWD are working together to make ACS Standard Exams, Practice Tests and Study Guides available to blind students.

- ACS is creating a lending library for braille versions of ACS Standard Exams (overcoming the hurdle of the increased costs that university chemistry departments might incur to create braille tests).
- CWD members are providing feedback/suggestion on Braille chemical structure images.

ACS Department of Higher Education reached out to CWD to develop guidance about creating classroom environments in which all students are encouraged to contribute. They asked, "What is something that a faculty member or school did that had a positive impact on your performance in the classroom?"

While everyone appreciated the infrastructure accommodations, the biggest impacts were due to professors and departments that were nurturing, caring, and supporting. It was the human-human interactions and attitudes that really helped chemists with disabilities to achieve success.

To increase awareness and receptiveness of scientists with disabilities, CWD is continuing to develop posters of famous scientists with disabilities. Current featured scientists with disabilities include Thomas Edison, Albert Einstein, Sir Humphrey Davy, Joseph Priestley, Florence Seibert and John Cornforth. At the request of teachers, these posters have been made into bookmarks and posters suitable for classrooms.

To expand the reach of ACS Committee on Chemists with Disabilities, CWD has created a Facebook page.

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O. 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’ 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). This group has been working diligently for the last 18 months to develop guidelines for laboratory safety education for secondary, undergraduate, and graduate education which are to be launched during the ACS National Meeting in Philadelphia. 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 ACS Safety Education Guidelines include two parts – the first document, the *ACS Guidelines for Chemical Laboratory Safety in Secondary Education*, was 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 Chemical Safety Education in Academic Institutions*, is 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 Safety Education Guidelines are organized much differently than most current chemical safety instructional materials. Rather than being organized around specific topics, e.g. flammables, corrosives, etc., they are organized around the concept of R.A.M.P. – an acronym for the Four Principles of Safety: **R**ecognize the hazard, **A**ssess the risk of the hazard, **M**inimize the risk of the hazard, and **P**repare for emergencies. The guidelines also include student learning outcome statements, which clearly state the knowledge, skills, attitudes, and competencies in the area of chemical safety that students are expected to acquire as they progress with their education. Now that the guidelines are finalized, the committee will shift its attention to conversations and disseminating this guidance to the community.

**Committee on Chemical Safety (CCS) Advisory Panel Annual Meeting**

The Committee on Chemical Safety’s Safety Advisory Panel met at ACS headquarters on May 20-21, 2016. The group worked on existing projects and provided feedback to ACS web staff on the development of a web version of *Identifying and Evaluating Hazards in Research Laboratories*. The group met with the ACS Staff to share their perspectives on how the Society’s commitment to safety might be best expressed within the Strategic Plan. The group also discussed the EPA’s proposed improvements to the rules for generators of hazardous waste covered by Resource Conservation and Recovery Act (RCRA).

**Identifying and Evaluating Hazards in Research Laboratories**

“Identifying and Evaluating Hazards in Research Laboratories”, a 2015 publication that ACS prepared in response to a recommendation from the US Chemical Safety Board, has been adapted for the web. Available at [www.acs.org/hazardassessment](http://www.acs.org/hazardassessment), this web resource provides easier access and greater usability for a rich collection of methods and tools for hazard assessment.



**Safety in Academic Chemical Laboratories or SACL**

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, the 8th Edition of SACL, is expected in the latter part of 2016.

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.

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P. Chemical Abstracts Service  
(joint with Board)

The success of CAS is important to each of us as users of chemical information, but also as members of a Society whose activities are largely funded by CAS and the Publications Division. The Spring 2016 CCAS written report to Council summarized accomplishments related to development of new content and workflow solutions in response to market needs. It is the general observation of CCAS that during the past two years under new leadership, CAS has set a positive course and is moving confidently and efficiently in directions that will allow it to remain competitive as a provider of curated chemical information and associated solutions.

The purpose of this report is to summarize discussions of the past year related to the mission and operation of the CCAS committee itself, past, present, and future. The ACS Joint Board-Council Committee on Chemical Abstracts Service (CCAS) duties are currently stated to include:

- Developing an informed, constructive, and supportive relationship with the SOCIETY body established by the Board of Directors to manage and conduct the affairs of CAS, including reporting of each group's activities to the other
- Serving as a channel for information flow between the Governing Board for Publishing, SOCIETY members, and individual CAS solutions users to help assure that each party's needs and support are researched, recognized, and appreciated
- Encouraging and considering suggestions from the membership concerning CAS and transmitting these suggestions to the Governing Board for Publishing and the SOCIETY's Board of Directors
- Responding to requests by the Governing Board for Publishing that will assist in furthering the CAS mission
- Informing the Council and the Board of Directors of the committee's activities

CCAS developed a routine of using the twice-yearly meetings as a forum for CAS staff to present product updates and future plans and for the CCAS members to provide input and feedback, primarily as users and managers of products. In past years, the committee served as a key communication channel between Society members and CAS management on issues such as product features and licensing. In recent years, however, CAS has made use of the large number of communication channels available through direct sales, customer support teams, Web, social media and other approaches to communicate and gather feedback from customers.

While the usefulness of the recent CCAS input and feedback has been documented in CCAS updates in C&E News and Council reports, recent CCAS committee chairs and CAS staff have wondered if CCAS could provide even greater value. With that goal in mind, CCAS has proposed to hold a strategic planning meeting to re-establish the committee's mission and set clear strategy and specific goals. We will invite input from multiple Society stakeholders to identify ways in which CAS can further serve Society members and fulfill the strategic mission of ACS, with CCAS as the responsible Society body for ensuring ongoing input and feedback on these and future member-driven priorities.

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Q. Analytical Reagents

The Committee on Analytical Reagents (CAR) recently released the eleventh edition of its book, Reagent Chemicals. For over twenty years, ACS has been the only organization in the world that sets requirements and develops validated methods for determining the purity and suitability of reagents and standards used in analytical testing. Organizations such as the Environmental Protection Agency (EPA), United States Pharmacopeia (USP), AOAC International and ASTM International that set specifications and/or promulgate analytical testing methods specify that ACS reagent grade purity be used in their test procedures. The 11<sup>th</sup> edition became official on June 1, 2016. The tenth edition was the standard for ten years and sold over three thousand print and/or online versions during that time.

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