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AMERICAN CHEMICAL SOCIETY

Council Agenda

**Wednesday, August 23, 2017
8:00 AM**

Marriott Ballrooms 1-6

Marriott Marquis Washington, DC Hotel

Washington, DC

COUNCIL, AMERICAN CHEMICAL SOCIETY
 8:00 A.M., August 23, 2017
 Marriott Marquis Washington, DC Hotel, Marriott Ballrooms 1-6
 Washington, DC

AGENDA

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**DRAFT
MINUTES
COUNCIL**
AMERICAN CHEMICAL SOCIETY
April 5, 2017
San Francisco, California

The Council of the American Chemical Society met in San Francisco, California, on April 5, 2017, beginning at 8:00 a.m. Allison A. Campbell, President of the Society and of the Council, presided. The following Councilors, Alternate Councilors, and accredited representatives were present:

Ex-Officio: John E. Adams, Tom J. Barton, Christina C. Bodurow, Ronald Breslow, Allison A. Campbell, William F. Carroll, Jr., Pat N. Confalone, Thomas M. Connelly, Jr., Peter K. Dorhout, Ned D. Heindel, Rigoberto Hernandez, 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, Kathleen M. Schulz, Bassam Z. Shakhashiri, Edel Wasserman, Marinda Li Wu.

Bylaw: Lawrence Barton, Frank D. Blum, Robert L. Lichter.

Divisions: *Agricultural & Food Chemistry*, Michael Appell, John W. Finley, Michael J. Morello, Agnes M. Rimando. *Agrochemicals*, Rodney M. Bennett, Jeanette M. Van Emon. *Analytical Chemistry*, Kimberly Agnew-Heard, 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, Wendy L. Kelly, Coran Watanabe. *Business Development & Management*, Janet L. Bryant. *Carbohydrate Chemistry*, Anthony S. Serianni. *Catalysis Science & Technology*, Anne M. Gaffney, Charles Peden. *Cellulose and Renewable Materials*, Kevin J. Edgar, Lucian A. Lucia, Scott H. Renneckar. *Chemical Education*, Iona Black, Sally B. Mitchell, Cinzia M. Muzzi*, Ellen J. Yezierski. *Chemical Health & Safety*, Joseph M. Pickel*, 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, Maria M. Santore. *Computers in Chemistry*, Christine M. Aikens, Emilio X. Esposito, Ralph A. Wheeler. *Energy & Fuels*, Joe D. Allison, Semih Eser, Elise B. Fox, Lisa Houston. *Environmental Chemistry*, V. Dean Adams, Alan W. Elzerman, Jurgen H. Exner, Martha J.M. Wells. *Fluorine Chemistry*, David A. Dixon. *Geochemistry*, James D. Kubicki. *History of Chemistry*, Roger A. Egolf, Mary Virginia Orna. *Industrial & Engineering Chemistry*, Martin A. Abraham, Spiro D. Alexandratos, Mary K. Engelman, Melanie J. Moser. *Inorganic Chemistry*, Debbie C. Crans, Thomas R. Cundari, Karen Goldberg, Silvia Ronco. *Medicinal Chemistry*, Jane V. Aldrich, William J. Greenlee, Amy S. Ripka. *Nuclear Chemistry & Technology*, Silvia S. Jurisson, Graham F. Peaslee. *Organic Chemistry*, David A. Conlon, Huw M.L. Davies, Cynthia A. Maryanoff. *Physical Chemistry*, Christine K. Payne, Ellen B. Stechel, Theresa L. Windus. *Polymer Chemistry*, Joseph M. Mabry, Mary Ann Meador, Toby L. Nelson*, Gregory N. Tew. *Polymeric Materials: Science & Engineering*, Anthony Jay Dias, Julie L.P. Jessop, Dean C. Webster. *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*, Edward J. Parish*. *Baton Rouge*, Bryan K. Franklin. *Binghamton*, Wayne E. Jones, Jr. *Brazosport*, Carolyn Ribes. *California*, G. Bryan Balazs, Mark D. Frishberg, Sheila Kanodia,

*Alternate Councilor

**Temporary Substitute Councilor

Alex M. Madonik, Stephanie M. Malone, Eileen M. Nottoli, Paul F. Vartanian, Elaine S. Yamaguchi. **California Los Padres**, Albert C. Censullo. **Carolina-Piedmont**, Matthew K. Chan, Marilyn J. Sikes. **Central Arizona**, Richard C. Bauer, Douglas J. Sawyer. **Central Arkansas**, Martin D. Perry. **Central Massachusetts**, Meledath Govindan. **Central New Mexico**, Bernadette A. Hernandez-Sanchez, 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, Barry J. Streusand. **Chattanooga**, Verrill M. Norwood, III. **Chemical Society of Washington**, Allison A. Aldridge, Alan J. Anderson, Joseph M. Antonucci, Regina J. Cody, Richard M. Goodman*, Monika I. Konaklieva, Kim M. Morehouse, Judith F. Rubinson, Stefanie S. Wittenberg. **Chicago**, Charles E. Cannon, David S. Crumrine, Kenneth P. Fivizzani, Russell W. Johnson, Michael G. Koehler, Margaret S. Levenberg, Milt Levenberg, Inessa Miller, Barbara E. Moriarty, Susan M. Shih. **Cincinnati**, Kathleen Gibboney, Susan A. Hershberger, Richard J. Mullins. **Cleveland**, Dwight W. Chasar, Michael J. Kenney. **Coastal Georgia**, Will E. Lynch. **Colorado**, Susan MacGregor Batenhorst, Sandra J. Bonetti, Connie Gabel, Elisabeth Mansfield*, Ryan M. Richards, Susan M. Schelble. **Columbus**, Joan M. Esson, Edmund T. King, Virginia H. Songstad. **Connecticut Valley**, Kevin R. Kittilstved, Michael Knapp, Julianne M.D. Smist, Frank J. Torre. **Cornell**, Leah McEwen**. **Corning**, Roger F. Bartholomew. **Dallas-Fort Worth**, Mary E. 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**, Alan A. Hazari, John Z. Larese. **East Texas**, Philip Verhalen. **Eastern New York**, Mary K. Carroll, Warren D. Hull, Jr. **Eastern North Carolina**, Satinder Ahuja. **Erie**, Matthew Heerboth*. **Florida**, Carmen V. Gauthier, Leslie J. Murray. **Georgia**, Heather L. Abbott-Lyon, Lissa Dulany, Donald G. Hicks*, Terence E. Say. **Greater Houston**, Carolyn A. Burnley, Lawrence W. Dennis, Valerie Lafitte, Mamie W. Moy, Laurent Pirolli, David M. Singleton. **Green Mountain**, Willem R. Leenstra. **Hampton Roads**, Dmitry V. Liskin**. **Heart O'Texas**, Darrell G. Watson. **Huron Valley**, Ellene T. Contis, Harriet Lindsay. **Idaho**, Joshua J. Pak. **Illinois Heartland**, Gregory Ferrence. **Illinois-Iowa**, Richard G. Rogers. **Indiana**, Beth Lorsbach, Brian M. Mathes, Robert A. Pribush, Robert E. Sammelson. **Indiana-Kentucky Border**, Jeffery W. Seyler. **Inland Northwest**, Jeffrey A. Rahn. **Iowa**, Sara E. Mason. **Kalamazoo**, Lydia E.M. Hines. **Kanawha Valley**, Madan M. Bhasin. **Kansas City**, Eckhard Hellmuth, Sarah J. Leibowitz. **Kansas State University**, Viktor Chikan. **Kentucky Lake**, Robbie L. Montgomery. **LaCrosse-Winona**, Claude L. Mertenich. **Lake Superior**, Donald K. Harriss. **Lehigh Valley**, Jeanne R. Berk, Lorena Tribe. **Lexington**, Jennifer L. Muzyka. **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. **Michigan State University**, Susanne M. Lewis*. **Middle Georgia**, Robert J. Hargrove. **Mid-Hudson**, Mary E. Dery. **Midland**, Tina M. Leaym, Dale J. LeCaptain. **Milwaukee**, Kevin W. Glaeske, Scott A. Schlipp. **Minnesota**, Marilyn D. Duerst, Rebecca Guza*, Lynn G. Hartshorn, James Wollack, Wayne C. Wolsey. **Mississippi**, Leslie Robinson. **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**, Ronald P. D'Amelia, Barbara R. Hillery, Alison G. Hyslop, Neil D. Jespersen, Hiroko I. Karan, Pamela K. Kerrigan, Patricia A. Redden*, Frank Romano, Justyna Widera-Kalinowska. **North Alabama**, Carmen Scholz. **North Carolina**, Dorian A. Canelas*, James L. Chao, James M. Harrington, 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, Les W. McQuire, William H. Suits*. **Northeast Georgia**, Susan D. Richardson. **Northeast Tennessee**, John Engelman, II. **Northeast Wisconsin**, Martin D. Rudd. **Northeastern**, Catherine E. Costello, Michael P. Filosa, Thomas R. Gilbert, Morton Z. Hoffman, Leland L. Johnson, Jr.*, Katherine L. Lee, Doris I. Lewis, Patricia A. Mabrouk, Lisa A. Marcaurette, Jacklyn J. O'Neil, John W. Podobinski*, Mary Jane Shultz, Michael Singer, Ruth E. Tanner. **Northeastern Ohio**,

Sarah S. Preston. *Northern New York*, Fadi Bou-Abdallah**. *Northern Oklahoma*, Maziar Sardashti. *Northern West Virginia*, Edwin L. Kugler*. *Northwest Central Ohio*, Bradley Wile*. *Northwest Louisiana*, Brian A. Salvatore. *Oklahoma*, Allen W. Apblett. *Ole Miss*, Jason E. Ritchie. *Omaha*, Richard Lomneth. *Orange County*, Robert S. Cohen, Rabin D. Lai, Sanda P. Sun. *Oregon*, Richard L. Nafshun. *Orlando*, Darlene K. Slattery. *Ozark*, Eric Bosch. *Panhandle Plains*, Nick O. Flynn. *Penn-Ohio Border*, Doris L. Zimmerman. *Pensacola*, Allan M. Ford. *Permian Basin*, Kathryn Louie. *Philadelphia*, Anthony W. Addison, Georgia Arbuckle-Keil, Melissa B. Cichowicz, Judith H. Cohen*, Deborah H. Cook, Judith N. Currano, Ella L. Davis, Anne S. DeMasi, Marge A. Matthews, Christine McInnis, John Tierney. *Pittsburgh*, Richard S. Danchik, Robert T. Mathers, Kimberly A. Woznack. *Portland*, Angela Hoffman, Marcie J. Merritt. *Princeton*, Allen N. Jones, Louise M. Lawter. *Puerto Rico*, Néstor M. Carballeira, Edmy Ferrer-Torres, Angela M. González-Mederos, Orlando Jose Morales*. *Puget Sound*, Gary D. Christian, Craig B. Fryhle, Gregory L. Milligan, Despina Strong, Mark Wicholas. *Purdue*, Suzanne C. Bart Doucette. *Red River Valley*, Harmon B. Abrahamson. *Rhode Island*, Peter J. Bonk. *Richland*, Anna G. Cavinato. *Rio Grande Valley*, Michael D. Johnson. *Rochester*, D. Richard Cobb, Todd E. Pagano. *Rock River*, Dennis N. Kevill. *Sabine-Neches*, John A. Whittle. *Sacramento*, John R. Berg, Dena J. Chubbic. *St. Joseph Valley*, Matthew A. Odom*. *St. Louis*, Lisa M. Balbes, Eric A. Bruton, 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 Gorgonio*, Eileen M. DiMauro, J. Ernest Simpson. *San Joaquin Valley*, Hubert Muchalski**. *Santa Clara Valley*, Linda S. Brunauer, Bonnie A. Charpentier, Charles T. Cox, Matthew J. Greaney, George J. Lechner, Sally B. Peters, 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*, Robert D. Long. *South Texas*, Ludivina Avila. *Southeastern Pennsylvania*, Gregory P. Foy. *Southern Arizona*, Brooke B. Massani. *Southern California*, Brian B. Brady, Robert de Groot, Virgil J. Lee, Sofia Pappatheodorou, Eleanor D. Siebert, Barbara P. Sitzman. *Southern Illinois*, Lichang Wang. *Southern Indiana*, Kenneth G. Caulton. *Southern Nevada*, Kazumasa Lindley. *Southwest Georgia*, Linda De la Garza*. *Susquehanna Valley*, Dee Ann Casteel. *Tampa Bay*, Marie Bourgeois, Sidney S. White, Jr.*. *Texas A&M*, David E. Bergbreiter. *Toledo*, Andrew D. Jorgensen. *Trenton*, Benny C. Chan, Matthew C. Crowe. *University of Arkansas*, Stefan M. Kilyanek. *University of Missouri*, Justin R. Walensky. *Upper Ohio Valley*, Kevin Pate. *Upper Peninsula*, Glenn M. Larkin**. *Virginia*, Kristine S. Smetana, Ann M. Sullivan, Linette M. Watkins. *Virginia Blue Ridge*, W. Gary Hollis, Jr. *Wakarusa Valley*, Joseph A. Heppert. *Washington-Idaho Border*, Richard V. Williams. *Western Carolinas*, Lucy P. Eubanks, George L. Heard. *Western Connecticut*, Lawrence K. Steffen. *Western Maryland*, Peggy S. Biser. *Western Michigan*, Mark A. Thomson. *Wichita*, D. Paul Rillema. *Wilson Dam*, Amanda H. Coffman**. *Wisconsin*, Allen D. Clauss, Ieva L. Reich. *Wyoming*, Jane V. Thomas.

Non-Councilors: Elizabeth P. Beckham, Mark C. Cesa, Denise L. Creech, Raymond E. Forslund, Kate Fryer, LaTrease L. Garrison, Alicia E. Harris, Madeleine Jacobs, John C. Katz, Mary Kirchhoff, Willie May, Christi Pearson, Barbara F. Polansky, Max B. Saffell, David T. Smorodin, Simanco R. Staley, Frank E. Walworth, Marleen G. Weidner, Thomas J. Wenzel.

The preceding list of attendees at the Council meeting includes the following: 28 Ex- Officio Councilors; 3 Bylaw Councilors; 82 Division Councilors (79 elected, 3 alternate); 334 Local Section Councilors (309 elected, 19 alternate, 6 temporary); and 19 Non-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 Mary K. Carroll:

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:

- Mr. Henry F. Whalen, Jr., Retired from PQ Corporation and Councilor for the Chemical Marketing and Economics Division from 1978 to 1993, Ex Officio Councilor from 1995 to 2000, Chair of the Board of Directors from 1999 to 2000, and Councilor for the Philadelphia Section from 2002 to 2010.
- Mr. Thomas A. McCarrick, Retired Professor of Chemistry, Cornell University, and Councilor for the Cornell Section from 2008 to 2016.
- Professor Rollie J. Myers, Jr., Chemistry Professor at UC Berkeley, and Councilor for the California Section from 1996 to 1998.
- Dr. Earl Peters, Jr., Retired Executive Director of the Department of Chemistry and Chemical Biology, Cornell University, and Councilor for the Cornell Section from 1981 to 1995.
- Dr. William "Sandy" Durrell, Retired Director of Research at Allied Signal Corporation, and Councilor for the Business Development & Management Division from 2003 to 2008.

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 24, 2016.

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

Les W. McQuire, 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 2018: Bonnie A. Charpentier, Mark D. Frishberg, Anne M. Gaffney, and Willie E. May.

4. After each nominee spoke to Council, the Council selected by electronic ballot Bonnie A. Charpentier and Willie E. May as candidates for President-Elect 2018.

Dr. McQuire introduced the candidates for the Board of Directors, chosen by voting Councilors in District III and District VI for the election to be conducted this fall for the term 2018-2020: District III, Alan B. Cooper and Teri Quinn Gray; and District VI, Rita R. Boggs and Paul W. Jagodzinski.

Dr. McQuire then announced the following candidates for Director-at-Large on the Board of Directors: Kenneth P. Fivizzani, Wayne E. Jones, Bonnie A. Lawlor, and Barbara A. Sawrey. The two successful candidates will fill 2018-2020 terms.

Reports of Society Officers

President Allison A. Campbell thanked the organizers and speakers of the three presidential symposia at the San Francisco national meeting and then provided an update on her presidential symposia, initiatives, and activities for the fall national meeting in Washington, D.C.

She has been working with the Division of Chemical Health & Safety to develop a symposium entitled “Building a Safety Culture across the Chemistry Enterprise.” It brings together researchers, teachers, and administrators to highlight and share their best practices for enhancing safety in their institutions. Another symposium, “Understanding the Chemistry of Our Planet,” will highlight the transforming chemistry that is ubiquitous to our planet.

With the Royal Society of Chemistry President, she will be co-organizing a symposium, “Science Communications: The Art of Developing a Clear Message.” This aligns with her presidential initiative on Science Literacy to provide members with the tools and techniques to talk about the positive impacts of their work to the general public.

As part of her Science Advocacy initiative, she is working with members and ACS committees and staff to build a suite of tools and training platforms to help ACS local sections more effectively advocate. At the fall national meeting, she will pilot a “Speaking with Congress” workshop to teach ACS members to effectively engage with their elected officials.

Lastly, as part of her initiative, Chemistry as a Global Enterprise, Dr. Campbell plans to convene a group of representatives from international chemical societies to identify common principles and practices that we can all share with our members. ACS has taken a lead role in this by facilitating a Global Chemists’ Code of Ethics that focuses on practices that transcend borders but are universal to chemistry.

President-Elect Peter K. Dorhout stated that he is excited by the prospect of joining Council as its next President-Elect and is ready to serve the members of this Society in a new leadership role. He hopes to address the challenges for job growth for recent graduates and mid-career chemists and looks forward to discussing careers and student preparation, with a special focus on safety training.

In his first 95 days, he’s had a chance to facilitate a session in the Leadership Institute, connect with Younger Chemists Committee members and encourage the next generation of ACS leaders, and visit the Northeastern Local Section where he joined two of his passions--ACS and Boy Scouts--at a STEM Journey outreach event.

He pledged to help ensure that ACS must be inclusive in its selection of recipients for national awards, and to spend his time in the presidential succession campaigning to grow the endowment to support the ACS Scholars program.

After the San Francisco meeting Dr. Dorhout plans to embark on a virtual listening tour and a series of web chats with which he hopes to stay connected to members.

Immediate Past-President Donna J. Nelson thanked Councilors for their time and effort to help her better understand the concerns and needs of Councilors and the Society, which enabled her to select items to address through her task force and programming.

She reported that her activities as President will result in the publication of two ACS Series Books in areas of interest to Council as well as other ACS members. The first, “Diversity in the Chemistry Community,” is partially based on three diversity-related symposia held during the spring 2016 ACS national meeting in San Diego. The second, “Report of Recommendations of the ACS President’s Task Force on Employment in the Chemical Sciences,” is in final stages of assembly. A chapter on the expected impact of President Donald Trump’s policies will be added.

The “Hollyweird Chemistry” symposium organized for this meeting addressed the concerns of ACS members about the public perception of science and scientists. It was well attended, drawing up to 450 attendees.

Dr. Nelson concluded her report by highlighting programming planned for the 2017 fall meeting in Washington, D.C., including “Chemists of Courage,” which will again address the public perception of scientists. It will include a presentation about the history of Chemical Abstracts Service (CAS) and how it rose to have such an important global presence.

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 31 and April 1. The Board received and discussed reports from multiple committees, and approved several recommendations from its Committee on Executive Compensation.

Building on the Executive Leadership Team Retreat, the Board will hold a discussion in conjunction with the June 2017 Board Meeting on the topic of ACS in 2030. The Board regularly holds these discussions to consider strategic issues in depth or for ongoing development.

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

The Board held a discussion and provided input to its Strategic Planning Committee on context setting and change drivers to be addressed during the strategic planning process. Cards describing the ACS Strategic Plan were made available to Councilors at the conclusion of the meeting.

The Board is developing a public statement based on the Society’s core value of diversity and inclusion in response to the repeal of the North Carolina law known as House Bill 2 (“bathroom bill”) and the pending Texas legislation, and it is assembling a representative group of stakeholders to advise it on actions relating to the location of Society meetings. The Board appreciates the input of members who have communicated with governance on this issue.

Executive Director & CEO Thomas M. Connelly, Jr., reported that 2016 was a very successful one for the Society. He reminded Councilors of the changes in ACS staff leadership announced late last year: Denise Creech is retiring after nearly 27 years of service to the Society, more than half as leader of Membership and Scientific Advancement; Kate Fryer has joined ACS from the Society for Neuroscience to lead the Membership Division; Mary Kirchhoff now leads the newly formed Scientific Advancement unit, split from the old M&SA team; and LaTrease Garrison has been promoted to lead our Education efforts.

Dr. Connelly stated that the ACS Board of Directors has adopted both safety and ethics as core values, and safety permeates all of our activities, including Education, Publications, CAS, and the programing at ACS events.

CAS continued to strengthen its pipeline of new products with the launching of MethodsNow and ChemZent. The new SciFinder product, SciFindern, was unveiled in 2016, with commercial sales expected in the second quarter of this year.

New journals last year included *ACS Sensors*, *ACS Energy Letters*, and *ACS Omega*. All three are performing ahead or in line with expectations. ACS Publications also expanded its international program, and it is expected that the global reach of ACS Publications will continue to increase in 2017. Several global publishers of chemical science have expressed interest in participating in ChemRxiv, announced last year, and it should begin operation this year.

Global staffing has more than doubled in the past two years. Global membership has now grown to 17.5% of the total membership. 2016 was also successful in financial terms. Boosted by record years at CAS and ACS Publications, our net from operations equaled the record year of 2010, registering the 13th consecutive year of positive operating results.

Reports of Elected Committees

Council Policy Committee (CPC)

Mary K. Carroll, committee vice-chair, reported that CPC remains quite active between meetings through its subcommittees and task forces. The work of the Joint Board-CPC Task Force on Governance Design was introduced at almost three dozen governance meetings in San Francisco. There will be another presentation and opportunity to provide input during the Council special discussion at this meeting.

The Future Council Representation Working Group includes representatives from the committees on Local Section Activities, International Activities, and Divisional Activities as well as CPC members of the subcommittee and anticipates continuing in tandem with the Task Force on Governance Design.

CPC approved amendments to its policy on the distribution of supplemental material at Council meetings, which take effect at this meeting. To promote good practices for sustainable meetings, paper handouts at Council are not allowed. Committee chairs are urged instead to include URLs and links to the materials in oral reports and graphics. A listing of such references will be published in the Councilor Talking Points. Promotional items will no longer be placed on chairs but will be available on a designated resource table where Councilors can obtain materials.

CPC also approved an amendment to the Committee Travel Expense Reimbursement Policy for Non-Councilors. The new policy permits non-Councilor chairs of Council-related committees to be reimbursed at a rate of up to twice the amount set for a non-Councilor, so that the chair can attend the Council meeting to deliver the committee's oral report.

5. VOTED, on the recommendation of the Council Policy Committee, to approve the Procedures for Removal of a Councilor or Alternate Councilor, contingent upon approval of the Petition for the Removal of Officers and Councilors.

6. VOTED not to approve the Petition for the Removal of Officers and Councilors (Bylaw III, Sec. 1, i; Bylaw VII, Sec. 1, c; Bylaw VIII, Sec. 4, d).

Committee on Committees (ConC)

Wayne Jones, committee chair, reported that the Committee on Committees (ConC) held its annual New Chairs Training Conference in January, as part of the ACS Leadership Development Institute. At this meeting, ConC began developing its recommendations for 2018 Committee Chair appointments and reappointments for consideration by the President-Elect and the Chair of the Board of Directors.

ConC also held its first strategic planning retreat and created its vision, mission statement, and strategic goals for 2017-2020.

ConC conducted a demographic survey of its 29 Council-related committees to broaden ACS member awareness and provide a snapshot of committee demographics. Survey participation was 76% overall across the 29 Council-related committees, and the aggregated data will be reviewed to guide future inclusion efforts. ConC voted to conduct the survey every three years.

Councilors were reminded to complete their online preference forms for 2018 during the period from March 27 to June 9, 2017, at www.yellowbook.acs.org.

7. VOTED, on the recommendation of the Committee on Committees, that the Committee on Project SEED be continued and that the Committees on Chemists with Disabilities, on Public Relations and Communications, and on Women Chemists be continued contingent on approval of the Board of Directors.

Nominations and Elections (N&E)

Les W. McQuire, 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.

The committee developed slates of potential candidates for the CPC and ConC for 2018-2020 terms. The names of the candidates will appear in the Washington, D.C., fall Council agenda.

N&E approved an important change in the preferred method of balloting in the Society's national elections. Effective with the 2017 fall national elections, balloting for national elections will be conducted primarily online, with voters provided the option to receive a paper ballot upon request.

Councilors were invited to submit names of qualified individuals for President-Elect and/or Directors for future consideration by email to the committee at nomelect@acs.org.

Reports of Society Committees and the Committee on Science

Budget and Finance (B&F)

Joseph A. Heppert, committee chair, reported that for 2016, ACS generated a net from operations of \$23.8 million, which was \$7.2 million higher than 2015. Total revenues were \$526.8 million. Expenses ended the year at \$503.0 million, which was \$7.8 million or 1.6% higher than the prior year. In addition, the Society's financial position strengthened in 2016, with unrestricted net assets, or reserves, increasing from \$163.3 million on December 31, 2015, to \$206.5 million at year-end 2016. This was attributable to a continued emphasis on expense management across the Society.

Dr. Heppert presented information on the 2018 fully escalated dues calculation and a comparison of ACS dues amounts with those of other scientific societies; ACS falls in the middle of the list in terms of cost and likely will remain there in 2018. The committee voted to recommend to Council that member dues for 2018 be set at the fully escalated rate of \$171.

8. VOTED, on the recommendation of the Committee on Budget and Finance, and with the concurrence of the Council Policy Committee, to set member dues for 2018 at the fully escalated rate of \$171.

Education (SOCED)

Diane Krone, committee chair, reported that SOCED held a special discussion on mentoring in STEM to understand what motivates and challenges those providing mentoring; considered functions and mechanisms of mentoring; and identified ways ACS can encourage the use and assessment of research-based mentoring practices by those providing and receiving mentoring.

SOCED received an update from the ACS government affairs staff on federal science education policy and approved extending the current position statements on the importance of hands-on laboratory activities and the teaching of evolution.

The committee was informed of recent developments related to the American Association of Chemistry Teachers (AACT). More than 4,200 individuals, 88% of whom are K-12 teachers, are now AACT members.

SOCED discussed and unanimously passed a resolution that recommends that a policy statement be developed to ensure that ACS events occur only in nondiscriminatory locations.

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. At this meeting, ComSci organized a forum on “Chemical Innovation Partnerships: Industry-University Success Stories,” which explored principles and approaches for successful partnerships and included an informative panel discussion on best practices. At the fall 2017 national meeting in Washington, ComSci will offer a symposium on “Sustaining Water Resources: Environmental and Economic Impact.”

ComSci will be collaborating with other committees to update expiring policy statements on innovation, chemistry, and jobs; on scientific integrity; and on sustainability. The committee engaged in a productive discussion of ComSci’s strategic plan in light of changes in the external environment and the organizational realignment within ACS.

Special Discussion Item

The Council engaged in a special discussion, “ACS Yesterday and Today: Paving the Way to Tomorrow,” to gather input for the Joint Board-CPC Task Force on Governance Design. Dr. Mary K. Carroll and Dr. Paul W. Jagodzinski, co-chairs of the task force, gave a brief presentation on the formation and current activities of the task force. Three questions were offered to guide the discussion: What should the Society and its governance do differently to achieve its objects? If you could change one thing about ACS governance, what would it be? What should the task force leave “as is”? A poll was conducted at the conclusion of the discussion to measure the level of agreement with the statement: “The current governance structure, processes, and procedures are already optimal to achieving the objects of ACS in the 21st century,” and for Councilors to indicate their willingness to provide additional input and feedback to the task force at a later date. Polls results were to be reported in the Councilor Talking Points issued within 24 hours of the meeting.

Forty Councilors approached the floor microphones to share observations, comments, and suggestions to assist the task force in identifying opportunities and issues for governance improvement.

Drs. Carroll and Jagodzinski concluded the discussion by thanking the Council and said a summary of the discussion would be sent to the task force.

Reports of Standing Committees

Economic and Professional Affairs (CEPA)

Tiffany Hoerter reported for committee chair Rick Ewing that response rates to its annual surveys of new graduates and ACS members have been in decline; the response rates to these and other ACS surveys are now so low that CEPA can no longer be confident in their accuracy. Additionally, many of those responding are not necessarily reflective of ACS membership or the chemistry enterprise. To modernize data collection a modular survey has been created that deploys different modules throughout the year and will provide a wealth of data on member, chemist, and new graduate professional outcomes. The net results are the same as previously collected offering quarterly running averages.

The ACS onsite career fair is celebrating its 80th anniversary, and changes have been implemented to ensure the continued sustainability and relevance of the program.

CEPA moved to create a cross-committee working group to investigate the creation of an ACS policy statement on work-related visas and immigration, with the goal of bringing a recommendation to the ACS Board of Directors. Any comments at this time can be sent to policy@acs.org.

Meetings and Expositions (M&E)

Michael J. Morello reported for committee chair Kevin J. Edgar. He reported that as of April 3, the total attendance for this meeting was 18,709, a record attendance for a national meeting held in San Francisco. M&E reviewed the National Meeting Study Group on Programming's Future of National Meetings Report and identified the following goals: M&E will work with the Committee on Divisional Activities to further evaluate the following: monitor the impact of U.S. immigration policy on technical programming participation; consider the elimination of Thursday technical programming; review overall meeting space and cost concerns; conduct a competitive analysis of the Exposition; improve the functionality of the meeting mobile app; and evaluate the Multi-disciplinary Program Planning Group's (MPPG) mission of driving cross- division collaboration.

M&E has prepared a request that the Board of Directors and the President of ACS send a letter to officials in the State Government of Texas indicating ACS's intent to relocate the 2021 spring national meeting, currently scheduled for San Antonio, if SB 6 (the "bathroom bill") is adopted, because SB 6 is in opposition to the Society's commitment to diversity and inclusion.

Divisional Activities (DAC)

Rodney M. Bennett, committee chair, reported that DAC has prepared a formula for allocating dues funds to the divisions as required by the Bylaws.

DAC has received proposals seeking the establishment of two new probationary divisions, the Division of Space Chemistry and the Division of Materials Chemistry. If the committee can resolve several outstanding issues regarding the proposals, it may bring one or both to Council for action at the upcoming Washington, D.C. meeting.

The committee is eager to continue to increase the visibility of ACS technical divisions on acs.org and voted to ask staff to investigate additional ways to make divisions more prominent on the website. The committee also asked staff to investigate the implications of offering new ACS members the opportunity to join up to three divisions on a complimentary basis for the first year. Currently, new ACS members can receive one such complimentary division membership.

9. VOTED, on the recommendation of the Committee on Divisional Activities, to approve a formula for allocating dues funds to divisions, effective with allocations for 2017 division performance.

Local Section Activities (LSAC)

Jason E. Ritchie, committee chair, recognized the following sections for their anniversaries in 2017: 50th, Sierra Nevada; 75th, Kalamazoo and Mid-Hudson; 100th, Central Texas, Delaware, Greater Houston, Michigan State University, and Toledo; and 125th, the Cincinnati local section.

Local Section annual reports for 2016 have been completed by 156 sections.

The committee approved the funding of new Innovative Projects Grants (IPG) for sections. Beginning this year the maximum amount for IPGs has increased from \$3,000 to \$3,500.

LSAC received and approved a petition from the Santa Clara Valley Local Section to change its name to the Silicon Valley Local Section.

10. VOTED, on the recommendation of the Committee on Local Section Activities, to approve a petition from the Santa Clara Valley Local Section in California to change the name of the section to the Silicon Valley Local Section.

Membership Affairs (MAC)

Margaret J. Schooler, committee chair, reported that MAC continues to focus on efforts to recruit and retain members. The Society ended 2016 with 156,129 members, which is 0.5% fewer than in 2015. More than 23,700 new members were attracted in 2016. The year ended with 27,388 international members, exceeding the target by 5%. The year-end retention rate was 83.5%. Retention of graduate students increased by 2% to 76.2%.

11. VOTED, on the recommendation of the Committee on Membership Affairs, to extend the provision of \$15 commissions to International Chemical Sciences Chapters that recruit new members.

12. VOTED, on the recommendation of the Committee on Membership Affairs, to approve the Petition on the Rights of Affiliates (Bylaw II, Sec. 1, a, 2, a, 3, b, (3) and (4)).

Constitution and Bylaws (C&B)

James C. Carver, committee chair, reported that last year C&B certified 19 unit bylaws, and four additional unit bylaws have been certified since the beginning of this year. Since the 2016 fall meeting in Philadelphia, C&B has reviewed bylaws for 11 local sections and one division.

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

New petitions to amend the Constitution or Bylaws must be received by the Executive Director no later than May 3 to be included in the Council agenda for consideration at the fall 2017 meeting in Washington. Petitioners are encouraged to send any draft petition to C&B at least a month before the deadline for initial input.

13. VOTED, on the recommendation of the Committee on Constitution and Bylaws, to approve the Revision of Charter Bylaws for the International Chemical Sciences Chapters.

Reports of Other and Joint Board-Council Committees

Women Chemists (WCC)

Laura Sremaniak, committee chair, reported that the committee began celebrating its 90th anniversary with a symposium featuring past committee chairs. The presentations highlighted stubbornly persistent issues, such as bias, harassment, and the underrepresentation of women in certain sectors of the workforce and in national technical awards.

WCC began the process of strategic planning, gathering initial feedback. After 90 years, strategies are still needed for attracting, developing, promoting, retaining, and advocating for women chemists. Topics for consideration include engaging younger women, providing leadership development, interacting with local section women chemists, and developing chemical safety resources. The committee plans to assess its advocacy work in awards and for non-tenure track faculty. Prior to the strategic planning retreat, a written survey will be distributed to WCC stakeholders, and interested individuals may also contribute ideas to wcc@acs.org.

The committee will be considering the outcomes of the American Geophysical Union's recent workshop on sexual harassment in the sciences, as well as potential next steps. The workshop outcomes and resources are available at <https://harassment.agu.org/>.

Professional Training (CPT)

Thomas J. Wenzel, committee chair, reported that the committee evaluated 28 periodic reports from currently approved programs and held conferences with seven departments beginning the process of applying for ACS approval. CPT also evaluated a site visit report from a program seeking approval, four reports from approved programs on probation, and one appeal of an action to withdraw approval. CPT voted to withdraw approval of one program. There are currently 688 colleges and universities offering ACS-approved bachelor's degree programs in chemistry.

The committee published a supplement that provides guidance on how departments might satisfy the requirement for coverage of two of the following systems: synthetic polymers, biological macromolecules, supramolecular aggregates, and meso- or nanoscale materials, and also discussed mechanisms to deliver certificates to graduates who have completed the curriculum requirements described in the ACS Guidelines.

A survey to solicit information on the use of online courses and virtual laboratory experiences in undergraduate chemistry programs will be launched following this meeting with a report on the results to be published later this year. The committee also approved a short survey on undergraduate research funding to be included in the CPT 2016-17 annual report that is completed by all ACS-approved chemistry programs.

CPT also met with Visiting Associates, the volunteers who make site visits to programs that are seeking initial approval by ACS, and with representatives from 41 Ph.D.-granting institutions.

Nomenclature, Terminology, and Symbols (NTS)

Michael D. Mosher, committee chair, reported that NTS had discussed the names of four newly discovered elements and provided comment to the International Union of Pure and Applied Chemistry (IUPAC) prior to its formal approval of those names.

NTS continues to liaise with the U.S. Adopted Names program and the U.S. National Adhering Organization to IUPAC, two external organizations heavily involved in the development and implementation of new nomenclature, terminologies, and symbols that affect chemists. NTS interaction allows the ACS to stay abreast of changes that affect chemists around the globe.

NTS members continued to provide educational outreach efforts through publication of numerous articles on IUPAC standards, summaries of nomenclature rules, and informative essays on definitions. Planning is under way to extend these efforts to high school teachers and students in the form of level-appropriate pamphlets, handouts, and activity sheets.

Chemistry and Public Affairs (CCPA)

Raymond E. Forslund, committee chair, shared a new development for chemistry in Congress. Following on the creation of the Chemistry Caucus in the U.S. House of Representatives, there is now a Senate Chemistry Caucus. ACS partnered with the American Chemistry Council and the National Association of Chemical Distributors to accomplish this. The Chemistry Caucus remains bipartisan and now is bicameral.

CCPA is developing programming for the Washington meeting, including cosponsoring a symposium with the Committees on Younger Chemists, Science, and International Activities, and the Division of Chemical Education, titled "Chemistry in an Evolving Political Climate -- Research Priorities and Career Pathways in Public Policy." The symposium will feature speakers who will discuss how recent changes on Capitol Hill impact the chemical enterprise, highlight how chemists can help shape government policy, and share information for chemists who are interested in science policy careers.

The committee will also cosponsor a Small Chemical Business Division symposium, “Working in the Public Sector: Running for Office,” which will share tools and personal stories about running for office at the local, state, and federal level.

New Business

Resolution

The Council adopted the following resolution:

14. BE IT RESOLVED That the Council of the American Chemical Society express to the officers and members of the California and Santa Clara Valley Local Sections, host Sections for the 253rd 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 to headquarters staff, for the planning and execution that have ensured the success of the 253rd National Meeting.

Following the resolution, two comments were received from Councilors, one about an image used in the video shown during the special discussion, and an expression of gratitude for the work of retiring ACS staff member Nancy Blount.

There being no further business, the meeting adjourned at 11:40 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. Karl S. Booksh | 6. Lydia E. M. Hines |
| 2. James C. Carver | 7. Will E. Lynch |
| 3. Dwight W. Chasar | 8. Zaida C. Morales-Martinez |
| 4. Ella L. Davis | 9. Barbara P. Sitzman |
| 5. Mark D. Frishberg | 10. Linette M. Watkins |

The Council must elect five individuals: The four candidates receiving the highest numbers of votes will be declared elected for the 2018-2020 term, and the candidate receiving the fifth highest vote will be declared elected for a one year term for 2018. 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, 2017, are as follows:

Lawrence Barton, Bylaw
Frank D. Blum, Bylaw
Karl S. Booksh, Analytical Chemistry (Delaware Section)
Ella L. Davis, Philadelphia Section
Linette M. Watkins, Virginia Section

Frank D. Blum and Lawrence Barton are ineligible for reelection.

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

2016 - 2018

Mary K. Carroll, Eastern New York Section
Lisa Houston, Energy & Fuels (Greater Houston Section)
Martin D. Rudd, Northeast Wisconsin Section

2017- 2019

Harmon B. Abrahamson, Red River Valley Section
Lissa Dulany, Georgia Section
Sally B. Peters, Santa Clara Valley Section
Andrea Twiss-Brooks, Chemical Information (Chicago Section)

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; Coblentz 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.

CARVER, JAMES C. *Division of Chemistry & The Law (Baton Rouge Section).* The Carver Law Firm LLC, Baton Rouge, Louisiana.

Academic Record: Centenary College, B.S., 1967; University of Tennessee, Knoxville, Ph.D., 1972; Louisiana State University, J.D., 1989.

Honors: ACS Fellow, 2014; Howard and Sally Peters Award, 2017; Coach of the Year-Susan C. Kalinka Memorial Award for Advocacy Programs at LSU Law Center, 2012; Roger D. Middlekauff Award, 2008; Fellow, Louisiana Bar Foundation, 2002.

Professional Positions (for past ten years): The Carver Law Firm, 2011 to date; Oats & Hudson Law Firm, Partner, 2009-11; Taylor, Porter, Brooks, & Phillips, LLP, Associate, 1989-1994, Partner, 1995-2008; Registered Patent Attorney, 2008 to date.

Service in ACS National Offices: Committee on Constitution and Bylaws, 2014-17, 2007-12, Chair, 2015-17, Committee Associate, 2006; Council Policy Committee, (Nonvoting), 2015-17; Committee on Divisional Activities, Committee Associate, 2013; Task Force on Governance Design, 2016-17;

Service in ACS Offices: Member ACS since 1971. *Chemistry & The Law Division:* Councilor, 2005-18, Alternate Councilor, 2001-04, Chair, 1995, Chair-Elect, 1994.

Member: Board of Visitors for the Department of Chemistry of the University of Tennessee; Board of Trustees for the LSU Law Center; Louisiana State Bar Association; Texas Bar Association; Baton Rouge Bar Association; Dean Henry George McMahon American Inns of Court; Member and Past-Chair of Advisory Board of the Baton Rouge Salvation Army. *ACS Divisions:* Chemistry & The Law; and Environmental Chemistry.

Related Activities: Exxon R&D Labs., Staff Chemist, 1978-86; Texas A&M University, Assistant Professor, 1975-78; The University of Georgia, Instructor, 1976-78; Arbitrator for the Better Business Bureau, 1995 to date.

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: Committee on Constitution and Bylaws, Committee Associate, 2017; 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, 1987-2017; 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, 1989-2017; 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.

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): STEMiversity Inc., Laboratory Director, 2014 to date; Currently working on Special Education Projects, 2017; Committee for Action Program Services, Analytical Training Laboratory (CAPS-ATL), 2014-17, Vice President, 2013 to date; Retired, McNeil PPC, 2007, Team Leader, 2003-07;

Service in ACS National Offices: Council Policy Committee, 2017; Committee on Membership Affairs, 2014-16, Committee Associate, 2013.

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

Member: National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE), 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: Analytical Chemistry Laboratory, a Johnson & Johnson Company (formerly Pfizer Inc.), Research Chemist/Supervisor, 1976-2002; The PQ Corporation R&D Center, (Conshohocken, PA).

FRISHBERG, MARK D. California Section. Custom Organic Synthesis Consultant, Santa Rosa, California.

Academic Record: Case Institute of Technology, B.S., 1968; Carnegie-Mellon University, M.S., 1971; Ph.D., 1973.

Honors: ACS Fellow 2015; Walter B. Petersen Award for Outstanding Long Term Service to California Section, 2017; Making a Difference Award, ACS Careers Office, 2016; Salutes to Excellence Award, ACS Membership Affairs Committee, 2011; Salutes to Excellence Award, California Section, ACS, 2008; Salutes to Excellence Award, ACS Committee on Public Relations and Communications, 2006; Outstanding Service Award, Rochester Section, ACS, 1994; Outstanding Service Award, Northeast Tennessee Section, ACS, 1980; Graduate Teaching Award, Carnegie-Mellon University, 1969; Sigma Xi; Pi Delta Epsilon.

Professional Positions (for past ten years): JenKem Technology USA, Vice President, Business Development, 2011 to date; Custom Synthesis Consultant, 2010 to date; Retired, Eastman Chemical Company, 2002; PCAS-NANOSYN, LLC, Managing Director, 2009-10; Seres Laboratories, Inc., President and Board of Directors, 2004-08, Vice President, Business Development, 2002-03.

Service in ACS National Offices: Committee on Divisional Activities, 2015-18; Committee on Membership Affairs, 2010-11, Committee Associate, 2009; Committee on Constitution and Bylaws, 2008-09; Committee on Local Section Activities, 1992-95, Committee Associate, 1991; Committee on Public Relations and Communications, 1998-2006, Committee Associate, 1996-97; Younger Chemists Committee, 1978-83, Chair, 1981-83; Professional Programs Planning & Coordinating Committee, 1981-83; Advisory Group for ACS Communications Strategic Plan, 2006-08; Task Force on Membership Retention, 1992-94, 1981-83; Task Force to Evaluate CHEMTECH magazine, 1981.

Service in ACS Offices: Member ACS since 1968. *California Section:* Councilor, 2015-17, 2007-11; Alternate Councilor, 2012-14, 2006; Past Chair, 2015; Chair, 2014; Chair-Elect, 2013. *Rochester Section:* Councilor, 1991-95; Alternate Councilor, 1989-90. *Northeast Tennessee Section:* Alternate Councilor 1980-86; Chair 1979; Chair-Elect 1978; Secretary 1977; Treasurer 1976; Newsletter Editor 1974-75. *Professional Relations Division:* Alternate Councilor, 2007-09.

Member: Alpha Chi Sigma. *ACS Divisions:* Chemical Education; Industrial & Engineering Chemistry; Medicinal Chemistry; Organic Chemistry; and Professional Relations.

Related Activities: ACS Career Consultant and Workshop Presenter, 2011 to date; California/Santa Clara Valley/AIChE joint Interview Workshop team, 2008 to date; Eastman Chemical Company, Business Development Executive, 1995-2002, Manager, Business Development, 1990-94; Eastman Kodak Company, Director, Custom Synthesis, Laboratory and Research Products Division, 1986-90; Tennessee Eastman Division of Eastman Kodak, Senior Research Chemist 1975-83, Research Chemist 1973-75; ACS Chemistry Ambassador; Organized and ran YCC-ACS sponsored chemical career counseling programs on college campuses, 1978-83; East Tennessee State University, Adjunct Professor, 1976-78; Chemical demonstrations for the public, including Kids and Chemistry since 1974; Contributed to the commercialization of sixteen active pharmaceutical ingredients and medical devices; over 150 chemistry/pharmaceutical related presentations in the US, Europe, and Asia, 1981-2002. Holds eight US Patents.

HINES, LYDIA E.M., Kalamazoo Section. Western Michigan University (Part-time), Kalamazoo, Michigan.

Academic Record: Aurora College, B.S., 1967; University of Illinois, M.S., 1969; Ph.D., 1971.

Honors: Kalamazoo Local Section, ACS, Committee on Community Activities, Volunteer of the Year Award, 2014; E. Ann Nalley Great Lakes Region Award for Volunteer Service, ACS, 2011; Distinguished Service Award, Kalamazoo Section, ACS, 1990; Sigma Xi; Phi Kappa Phi; Distinguished Service Award from Kalamazoo Chamber of Commerce Business-Education Connection for Science in Schools, 1998-2000; Nominee for STAR (Volunteer) Award, Kalamazoo, 1992; Accolade in *Kalamazoo Gazette* for Science Teaching (Free Lance), 1991; National Science Foundation Fellow, 1969-71; "Outstanding Young Women of America", 1973.

Professional Positions (for past ten years): Western Michigan University, Chemistry Faculty (part-time), 2006-17; Kalamazoo Valley Community College, Chemistry Faculty, (part-time) 2004-08.

Service in ACS National Offices: Committee on Nominations and Elections, 2012-17, 1993-98, Secretary, 1995; Committee on Constitution and Bylaws, 2004-11; Committee on Community Activities, 2005-11; Committee on Committees, 1999-04; Committee on Copyrights, 1985-93, Chair, 1990-92; Women Chemists Committee, 1982-87, Committee Associate, 1981; Canvassing Committee, Garvan Medal, 1982-87; Editor, *Women Chemists*, 1984-87.

Service in ACS Offices: Member ACS since 1968. *Kalamazoo Section:* Councilor, 1984-2017; Alternate Councilor 1978-83; Chair, 1981; Chair-Elect and Program Chair, 1980; Publicity Committee Chair, 1986-14; National Chemistry Day/Week Coordinator, 1987-2017; Museum Chemistry Day Organizer, 1987-2017; Chemists Celebrate Earth Day Coordinator, 2015-17, 2004-12; Pre-high school Science Education Coordinator, 2013-17, 1988-01; Awards Committee, 1991-17, Chair, 2008-17, 1992; Chemistry Promotion Committee, Chair, 1991-01. *Great Lakes Regional Meeting:* General Chair, 2015, 1984; Kalamazoo Section representative to Great Lakes Region Board, 1984-17; Chair, 2015-17, 1985. *Indiana-Kentucky Border Section:* Publicity Committee Chair, 1974-75.

Member: *ACS Division:* Chemical Information.

Related Activities: Southwest Michigan Math/Science Alliance, Charter Member and Coordinating Committee, 1990-92; Speaker and Workshop Leader at Teachers' and Children's Librarians' Conferences, 1990-92; Reviewer, WONDER SCIENCE, ACS, 1989-98; Active Volunteer Presenter of Hands-On Science Lessons (Preschool Through 6th Grade), 1986-01.

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, 2011-17; 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, 1999-2017; Chair, 2009, 1997; Chair-Elect, 1996; *Noble Gas* Editor, 2006, 1997-2000; Executive Committee, 1996 to date. *Southeastern Regional Meetings:* General Chair, SERMACS 2019; Chair-Elect, 2016; Chair, 2017; Bioinorganic Modeling, Symposium Organizer, 2006; Technical Program Chair, SERMACS 2001, 1998-2001; SERMACS 2001 Steering Committee, 1997-2001; Symposium Organizer, 125th Anniversary, ACS, Charles Herty and the Savannah Pulp and Paper Laboratory, National Historic Chemical Landmark, Symposium, SERMACS 2001; Symposium Organizer, Advances in Modern Inorganic Laboratories, SERNACS 2001. *ACS Southeastern Region:* Past-Chair 2006, Chair 2005, Chair-Elect 2004.

Member: American Physical Society; American Crystallographic Association, 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.

MORALES MARTINEZ, ZAIDA C. *South Florida Section.* (Retired) Florida International University, Miami, Florida.

Academic Record: University of Puerto Rico, Rio Piedras, B.S., 1957; The Pennsylvania State University, M.S., 1962.

Honors: Award for Volunteer Service to the American Chemical Society, 2011; ACS 2004 Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences; ACS 2002, Women Chemists Committee Southeast Regional Award for Fostering Diversity in the Chemical Sciences; Florida International University: Excellence in Teaching Award, 1985, Outstanding Service, 1991, Excellence in Advising Award, 1994, FIU President Affirmative Action Award, 1993 and Distinguished Service Medallion Award for Extraordinary Service, 2002.

Professional Positions (for past ten years): Retired, Florida International University, Chemistry Emeritus Professor, 2003 to date; Senior Chemistry Lecturer and Coordinator of Pre-Medical Advising and Science Recruitment and Retention, 1994–03; Consultant, ACS Scholars Program Mentoring, 1999 to date.

Service in ACS National Offices: Committee on Committees, 2012-17; Membership Affairs Committee, 2004-11; International Affairs Committee, 2004-05; Younger Chemists Committee, Consultant, 2004-05; Committee on Minority Affairs, 1993-2000; Committee on Education, 1992-2000, Committee Associate, 1990-91; Committee on Project SEED, 1989-94; Task Force of Undergraduate Programming at National Meetings, 1999-04; Organizing Committee of the Pan-American Conference in Puerto Rico, 2000; ACS Program Review Advisory Group (PRAG), 2005–09; Selection Committees for the ACS National Awards, 2004-2007; Faculty Advisors Review Panel for SAACS Awards, 1999-05; Program Chair, Undergraduate Programming at the 223rd National Meeting, Orlando, Florida 2002; President Al Heininger’s “Task Force on Minorities in the Chemical Sciences”, 1991-93.

Service in ACS Offices: ACS member since 1963. *South Florida Section:* Councilor, 2004-17, 1992-99; Education Chair, 1992 to date. *Florida Section:* Councilor, 1987-92.

Member: AISES; AAUW; SACNAS; NOBCCHE; Iota Sigma Pi; Phi Eta Mu; Golden Key National Honor Society. *ACS Divisions:* Chemical Education; and Professional Relations.

Related Activities: Advisor, Co-advisor and Consultant/Mentor for Florida International University Student Affiliate Chapters, 1986 to date; 1986-95; Review Panel for Graduate Education for Minorities (GEM) Fellowships; Member Selection Committee ACS Scholars Program, 1994-to date. Various Review Panels for NSF and DOE proposals 2005-12.

SITZMAN, BARBARA P. *Southern California Section.* (Retired) Los Angeles Unified School District, Los Angeles, California.

Academic Record: San Diego State University, B.A. 1965; Whittier College, M.A.s, 1977-78; Standard California Life Teaching Credential, Chemistry 1973; National Board Certification, Chemistry 2001.

Honors: ACS Fellow, 2009; ACS Conant Award, 2001; ACS Western Regional Award, High School Teaching, 1998; Sigma Xi Science Teaching Award, 2001; Woodrow Wilson Fellow Princeton University, 1982.

Professional Positions (for past ten years): Retired, 2014 to date; Granada Hills Public Charter High School, Chemistry Teacher, 2006-14; Chatsworth High School, Los Angeles Unified School District, Chemistry Teacher and Chemical Safety Coordinator, 1986-2006.

Service in ACS National Offices: Committee on Project SEED, 2013-18, Committee Associate, 2012; Society Committee on Education, 2003-11, Chair SubA, 2007-11, Committee Associate, 2002; ACS Hach Advisory Board, 2010-16; SOCED Task Force, *ACS Guidelines and Recommendations for the Teaching of High School Chemistry*, 2012; Board Presidential Task Force on Education, 2008-09.

Service in ACS Offices: Member ACS since 1998. *Southern California Section:* Councilor, 2011-19. *Division of Chemical Education:* Long Range Planning Committee, 2009-17.

Member: ACS American Association of Chemistry Teachers (AACT); National Science Teachers Association; California Science Teachers Association; California Chemistry Teachers Association. *ACS Division:* Chemical Education.

Related Activities: ACS American Association of Chemistry Teachers (AACT) Advisory Board, Chair, 2013-14, Inaugural President, 2015, Past President, 2016; Committee Representative, AACT, 2017-19; Editor and Author, Teachers Guide, Open for Discussion Column, *ACS ChemMatters Magazine*; Teacher Advisory Council (TAC) to the American Academies of Science, Engineering, and Medicine; Chair, National ACS High School Day and member, High School Day Committee; Board of Publications, *Journal of Chemical Education*; Teacher Leader, ACS *ChemCom*; Los Angeles Unified School District, In-service Teacher Trainer; Teaching Strategies Consultant, Los Angeles County Department of Education; Question Leader, College Board Advanced Placement Chemistry Reading; AP Chemistry Consultant, Educational Testing Service; Staff Director, First UCLA Science Project; Co-author *Relationships and Math in Physical Science* textbook; chapter author, ACS book *Sputnik to Smartphones*.

WATKINS, LINETTE M. Virginia Section. James Madison University, Harrisonburg, Virginia.

Academic Record: Trinity University, B.S., Biochemistry, 1989; University of Notre Dame, Ph.D., Biochemistry, 1996.

Honors: ACS Fellow 2014; Bio Scientific Corporation, Sabbatical Research Fellow, 2012-13; Mariel Muir Faculty Award for Excellence in Mentoring, 2011; NSF Senior Discovery Corps Fellow, 2006-07; University of Texas-Austin Research Faculty Fellow, 2003-05; Texas State University Presidential Award for Excellence in Service, 2003; Reilly Graduate Fellowship, University of Notre Dame, 1992; Clare Booth Luce Fellowship, University of Notre Dame, 1989-92.

Professional Positions (for past ten years): James Madison University, Professor and Department Head, 2014 to date; Southwest Texas State University (renamed Texas State University), Associate Professor, 2003-14, Assistant Professor, 1997-03.

Service in ACS National Offices: Committee on Meetings and Expositions, Committee Associate, 2013; Committee on Minority Affairs, 2000-08, Chair, 2006-08, Committee Associate, 1999; Working Group on Two Year College Guidelines, 2005-09; Committee on Community Activities, 2004-06, National Chemistry Week (NCW) Task Force, 2001-03.

Service in ACS Offices: Member ACS since 1992. *Virginia Section:* Councilor, 2014-17. *Central Texas Section:* Councilor, 2012-13; Alternate Councilor, 2006-12; Chair, 2003-04, Chair-Elect, 2003; Subcommittee Chair, 2003-14. *Southwest Regional Meeting Board:* Co-Chair, 2012; Chair-Elect, 2011. *Southwest Regional Meeting:* General chair, 2011. *Southeast Regional Meeting Board:* Immediate Past Chair 2017, Chair, 2016, Chair-elect 2015. *Professional Relations Division:* Alternate Councilor, 2006-17; Member at Large, 2003-05; Chair, Minority Affairs Subdivision, Chair, 2010-12.

Member: Council on Undergraduate Research; Society for the Advancement of Chicanos and Native Americans in Science. *ACS Divisions:* Biological Chemistry; Chemical Education; and Professional Relations.

Related Activities: Council on Undergraduate Research Workshop Facilitator and Campus consultant, 2008-10; Symposium organizer at National and Regional Meetings, 2005 to date; National Science Foundation Panel Reviewer, 2000 to date; Core collaborator on Biochemistry Process Oriented Guided Inquiry Learning (POGIL) project, 2006-14; Texas A&M University, Postdoctoral Research Associate 1995-97.

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 | 6. Neil D. Jespersen |
| 2. Joe D. Allison | 7. Mamie W. Moy |
| 3. Michael Appell | 8. Eleanor D. Siebert |
| 4. Mark A. Benvenuto | 9. Julianne M. D. Smist |
| 5. Arindam Bose | 10. Keith R. Vitense |

The Council must elect five individuals: The five candidates receiving the highest numbers of votes will be declared elected for the 2018-2020 term. 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, 2017, are as follows:

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

Lydia E.M. Hines and Robert L. Lichter 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

2017-2019

Lisa M. Balbes, St. Louis Section
Alan M. Ehrlich, Chemistry & The Law (Chemical Society of Washington Section)
Alan A. Hazari, East Tennessee Section
Amber S. Hinkle, Greater Houston Section
Thomas H. Lane, Ex Officio (Midland Section)

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; Philadelphia Section Award, ACS, 2016; ACS Philadelphia Section, Ulliyot Award for Meritorious Service, 1999; Fellow, the Royal Australian Chemical Institute, 2016; Fellow, Royal Society of Chemistry, 2008; *Le Conférencier*: la Convention Intercantonale Romande d'Enseignement du 3^e 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): Drexel University, Professor of Chemistry, 1991 to date.

Service in ACS National Offices: Committee on Publications, Committee Associate, 2016-17; 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 Regional Meetings:* 39th Middle Atlantic Regional Meeting, Board Member, 2005 to date; Awards Committee, 2013-14, 2010; Program Co-Chair, 2007; Section Liaison to Board 2013 to date; 30th Middle Atlantic Regional Meeting, Program Chair, 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; second author of Bioinorganic Chemistry book (Wiley, 2014) & Physical Inorganic Chemistry book (Elsevier/AP 2017). 123 published papers; 130 abstracts/conference proceedings; 4 book chapters; Hirsch Index $h=38$; Egghe g -index= 105; Google $i99=13$.

ALLISON, JOE D. *Division of Energy & Fuels (Northern Oklahoma Section).* Retired, Phillips 66, Bartlesville, Oklahoma.

Academic Record: University of Central Arkansas, B.S., 1979; Purdue University, Ph.D., 1983.

Honors: ACS Fellow, 2010; Distinguished Service Award, ACS Petroleum Chemistry Division, 2009; University of Central Arkansas, Distinguished Alumnus, 2013; Purdue University Department of Chemistry, 2010 Outstanding Alumnus; Oklahoma Chemist Award, 2008; DuPont CR&D Environmental Excellence Award, 1992.

Professional Positions (for past ten years): Retired, Phillips 66, 2014; Research Fellow, Phillips 66, 2012-14; Research Fellow and Director CO₂ Capture and Utilization, Phillips 66, 2010-12; Director R&D GTL/CTL, ConocoPhillips, 2005-10.

Service in ACS National Offices: Committee on Divisional Activities, 2017-18; Committee Associate, 2016, 2003.

Service in ACS Offices: Member ACS since 1979. *Energy and Fuels Division:* Councilor, 2015-17; Director-At-Large, 2013-14. *Petroleum Chemistry Division:* Chair, 2011; Chair-Elect, 2010; Program Chair, 2004-08; *North Central Oklahoma Section:* Councilor, 2002-08, 1994-96; Alternate Councilor, 1999-2001; Chair, 1993; Chair-Elect, 1992. *Northern Oklahoma Section:* Alternate Councilor, 2014-19; Councilor, 2010-11.

Member: American Institute of Chemical Engineers; North American Catalysis Society; Oklahoma NanoNet Group.

Related Activities: University of Central Arkansas College of Natural Science and Mathematics, Advisory Committee, 2012-14; NSF Center for Interfacial Reaction Engineering, Science Advisory Board, 2011-14; Advanced Energy Consortium, Technical Advisory Committee, 2010-12; Purdue University Department of Chemistry, Advisory Committee, 2008-14; Bartlesville Symphony Orchestra, Board of Directors, 2008-11; Ponca City Friends of Education, Board of Directors, 2006-08; NSF Center for Environmentally Beneficial Catalysis, Industrial Advisory Board, 2006-09; Natural Gas Conversion Board, Board of Directors, 2005-09; DOE Consortium for Fossil Fuel Science, Industrial Advisory Board, 2002-10; Inventor on 49 US Patents and 43 foreign patents; Author/Co-Author on 25 publications.

APPELL, MICHAEL *Division of Agricultural & Food Chemistry (Illinois Heartland Section)*. United States Department of Agriculture, Peoria, Illinois.

Academic Record: University of Illinois at Chicago, B.S. Biochemistry, 1995; Medicinal Chemistry, Ph.D, 2001.

Honors: ACS Fellow, 2015; ACS Division of Agriculture & Food Chemistry, Fellow Award, 2015; ACS Division of Agriculture & Food Chemistry, Distinguished Service Award, 2013; *Journal of Carbohydrate Research*, Six “most highly cited” Paper Awards, 2009, 2008; Oscar Robert Oldberg Prize, College of Pharmacy, University of Illinois, Chicago, 2001; The Ludwig Bauer Graduate Fellowship Award in Medicinal Chemistry, University of Illinois, Chicago, 1995-99; Golden Key National Honor Society 1994; Phi Kappa Phi, 1994.

Professional Positions (for past ten years): USDA-ARS, National Center for Agricultural Utilization Research, Research Chemist, Mycotoxin Prevention and Applied Microbiology, 2016 to date; Research Chemist, Bacterial Foodborne Pathogens & Mycology, 2009-16; Research Chemist, Mycotoxin, 2004-09.

Service in ACS National Offices: Committee on Divisional Activities, 2016-17; Committee on Publications, 2010-15, Committee Associate, 2008-09.

Service in ACS Offices: Member ACS since 1996. *Agricultural and Food Chemistry Division:* Councilor, 2014-19; Caucus Chair, 2015-17; Chair, 2010; Chair-Elect, 2009; Vice-Chair, 2008; Program Chair, 2009-10; Webmaster, 2013-17. *Functional Foods and Natural Products Subdivision:* Chair, 2007; Chair-Elect, 2006. *Illinois Heartland Section:* Immediate Past Chair, 2017; Chair, 2016; Chair-Elect, 2015. *36th Great Lakes Regional Meeting:* Public Relations Committee Member, 2004.

Member: American Association for the Advancement of Science; American Association of Chemistry Teachers (AACT); American Oil Chemist's Society; Society for Applied Microbiology; New York Academy of Sciences; AOAC International; Illinois Farm Bureau. *ACS Divisions:* Agricultural and Food Chemistry; Agrochemicals; Analytical Chemistry; Biochemical Technology; Biological Chemistry; Chemical Health & Safety; Chemical Information; Chemical Toxicology; Computers in Chemistry; Medicinal Chemistry; and Organic Chemistry.

Related Activities: Member Emergency Response Team (USDA-ARS, Hazwoper Certified), 2011 to date; Councilor, USDA-ARS, Scientists Forum, 2010-11; Member Institutional Biosafety Committee of the University of Illinois College of Medicine at Peoria, 2010 to date; Editor of two ACS Symposium Series Books.

BENVENUTO, MARK A. *Detroit Section*. University of Detroit Mercy, Detroit, Michigan.

Academic Record: Virginia Military Institute, B.S., 1983; University of Virginia, Ph.D., 1992.

Honors: ACS Fellow, 2015; Salute to Excellence, Detroit Section, ACS 2012; Distinguished Service Award, Detroit Section, ACS, 2004; University of Detroit Mercy, Science Teacher of the Year Award, 2013, 2005, 2004, 2001, 1999, 1998, 1995; Michigan Science Teachers Association, College Science Teacher of the Year Award, 2003; U.S. Army Commendation Medal, 1987; U.S. Army Overseas Ribbon 1987; U.S. Army Parachutist Award 1984.

Professional Positions (for past ten years): University of Detroit Mercy, 2007 to date, Professor 2006 to date, Department Chair 2001 to date.

Service in ACS National Offices: Committee on Nomenclature, Terminology and Symbols 2004-18, Committee Associate, 2002-03; Committee on Constitution and Bylaws, 2009-14, Committee Associate, 2008; Committee on Education, Task Force on Undergraduate Programming, 2004-06.

Service in ACS Offices: Member ACS since 1988. *Detroit Section:* Councilor, 2008-17, 2001-03; Chair, 2006-07; Chair-Elect, 2005-06. *Central Regional Meeting:* Chair-Elect, 2017; Chair, 2013-14; Meeting General Chair, 2017, 2011-12. *Chicago National Meeting:* Undergraduate Programming Chair, 2007. *Environmental Division:* Archivist, 2016 to date.

Member: National Education Association; National Science Teachers Association; Michigan Science Teachers Association; Michigan College Chemistry Teachers Association; Project Kaleidoscope; Council for Chemical Research; Royal Society of Chemistry. *ACS Divisions:* Chemical Education; Chemical Toxicology; Environmental; History; and Inorganic.

Related Activities: Council for Chemical Research Board of Governors, 2007-09; Michigan College Chemistry Teachers Association, Treasurer, 2002 to date; Boy Scouts of America, Chemistry Merit Badge Counselor, 1994 to date.

BOSE, ARINDAM *Division of Biochemical Technology (Connecticut Valley Section).* Independent Biotechnology Consultant, Pawcatuck, Connecticut.

Academic Record: Indian Institute of Technology - Kanpur, Bachelor in Chemical Engineering, 1975; University of Michigan, M.S. (Ch.E.), 1976; Purdue University, Ph.D., 1980.

Honors: ACS Fellow, 2009; James Van Lanen Award, Division of Biochemical Technology, ACS, 1992; Elected to U.S. National Academy of Engineering, 2017; AIMBE Fellow, 2015; AIChE Fellow, 2013; Outstanding Chemical Engineer Award, Purdue University, 2005; Pfizer R&D Achievement Awards, USA and UK, 2000; Pfizer Central Research Achievement Award, 1992; Phi Lambda Upsilon; Sigma Xi; Tau Beta Pi.

Professional Positions (past ten years): Dyadic International Inc., Board of Directors, 2016-date; Pfizer Worldwide R&D: Vice President, BioTherapeutics External Affairs and Strategy, 2010-16; Executive Director, Biologics Strategy and External Influencing, 2003-09; Director, Biologics, 2000-03.

Service in ACS National Offices: Committee on Meetings and Expositions: 2014-17, Committee Associate, 2013; Committee on Budget & Finance, 2004-12; Divisional Activities Committee, 2002-04; Committee on Meetings and Expositions, 1996-01, Committee Associate, 1995; Advisory Board, ACS Lab Guide, 1995-99; Advisory Board, ACS Books, 1992-95; Advisory Board, ACS Biotech Buyers' Guide, 1989-94.

Service in ACS Offices: Member ACS since 1978. *Division of Biochemical Technology:* Councilor, 1995-18; Secretary-Treasurer, 1986-94; Peterson Award Committee, Chair, 1983-85.

Member: American Institute of Chemical Engineers; Society for Biological Engineering; American Institute of Medical and Biological Engineering; US National Academy of Engineering. *ACS Division:* Biochemical Technology.

Related Activities: International Federation of Pharmaceutical Manufacturers and Associations (IFPMA), Biologics & Vaccines Committees, 2007-15; Recovery of Biological Products Conference Series, Governing Board, 1998-2015; Society for Biological Engineering, Advisory Board, 2004 to date; Purdue University, Industrial Advisory Board, Department of Chemical Engineering, 2005-15; Pharmaceutical Research and Manufacturers of America (PhRMA), Biologics and Biotechnology Leadership Committee, Secretary, 2004-05, Vice-Chair, 2006-07, Chair, 2008-09; Cell Culture Engineering Conference Series, Advisory Board, 2001-03; 9th International Biotechnology Symposium, Secretary-Treasurer, 1992; Co-Editor of “*Harnessing Biotechnology for the 21st Century*,” ACS Conference Proceedings Series, 1992.

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; St. John’s Univ. Faculty Recognition Award for Teaching, 2015; 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: Nominations and Elections, 2017; 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, 1991-19; 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.

MOY, MAMIE W. *Greater Houston Section.* University of Houston, Houston, Texas.

Academic Record: University of Texas, B.A., 1950; University of Houston, M.S., 1952.

Honors: Shirley B. Radding Award, 2013; ACS Fellow, 2011; Encouraging Women into Careers in the Chemical Sciences Award, ACS, 2011; Helen M. Free Award in Public Outreach, ACS, 2004; Southeastern Texas Section, ACS, Award, 1988; Recognition 101, Women of Distinction in Texas, American Association of University Women, 2008; National Science Teachers Association, Distinguished Service to Science Education Award, 2003; Phi Kappa Phi; Iota Sigma Pi; Alpha Lambda Delta.

Professional Positions (for past ten years): University of Houston, Emerita Professor, 2012 to date, Professor, 1990-2012, Associate Chair, 1982-92; Associate Professor, 1978-90.

Service in ACS National Offices: Committee on Nominations and Elections, 2015-17, 1997-02, Vice-Chair, 2001-02; Council Policy Committee, 2009-14; Committee on Committees, 2003-08; Committee on Minority Affairs, 1993-2000; Committee on Membership Affairs, 1992-97, Committee Associate, 1990-91; Women Chemists Committee, Committee Associate, 1983-84.

Service in ACS Offices: Member ACS since 1967. *Greater Houston Section:* Councilor, 1989-2017, 1982-83; Alternate Councilor, 1984, 1981; Chair, 1985; Chair-Elect, 1984; National Chemistry Week Co-Chair, 1995-2000; Education Committee Chair, 2001-04; Director, 1981-85. *Southwest Regional Meeting:* Board Chair, 2007, Co-Chair, 2005-06; Publicity Chair, 1986; Awards Chair, Chemical Education Program Organizer, 1996. *Chemical Education Division:* Hospitality Committee Chair, 1999-01.

Member: American Association for the Advancement of Science; National Science Teachers Association; American Association of University Women; Alpha Chi Sigma. *ACS Division:* Chemical Education.

Related Activities: Joint Subcommittee on Diversity 2006-09; ConC Sub-Committee on Industrial Chemists Pipeline 2003-08, Chair, 2006-08; Engineering, Scientific and Technology Council of Houston, Vice-President, 1997-04; Educational Outreach Chair, 1995-04; Robert A. Welch Foundation, Summer Scholar Program, Coordinator, 1988-10; Houston Museum of Natural Science, Advisor, Welch Hall of Chemistry, 1995-2010.

SIEBERT, ELEANOR D. *Southern California Section.* (Retired) Mount Saint Mary's University, Los Angeles, California.

Academic Record: Duke University, B.A., 1963; University of California, Los Angeles, Ph.D., 1969.

Honors: ACS Fellow, 2011; Agnes Ann Green Distinguished Service Award, Southern California Section, ACS, 1994; Society for College Science Teachers and Kendall/Hunt Publishers, Outstanding Undergraduate Science Teacher Award, 2001; Sigma Xi; Delta Epsilon Sigma, 1997; Who's Who in America's Teachers; American Men and Women of Science.

Professional Positions (for past 10 years): Mount Saint Mary's University, Professor Emerita (awarded 2013); Provost and Academic Vice President, 2005-13; Professor of Chemistry, 1974-2005; Chair, Department of Physical Sciences and Mathematics, 1983-05; Interim Graduate Dean, 2004-05.

Service in ACS National Offices: Committee on Nominations and Elections, 2015-17, Vice-Chair, 2017; Council Policy Committee, 2009-14; Committee on Meetings and Expositions, Committee Associate, 2007; Committee on Committees, 2002-06; Committee on Public Relations and Communications, 1997-01, Chair, 1999-01, Committee Associate, 1996.

Service in ACS Offices: Member ACS since 1976. *Southern California Section:* Councilor, 1995-2015; Alternate Councilor 1993-94; Chair, 1994; Chair-Elect and Program Chair, 1993; Chemistry and Public Relations, Chair, 2002-04; National Chemistry Week Chair, 2001; Education Committee Chair, 1987; Long-Range Planning Chair, 1995; Newsletter Editor, 1988-91. *Western Regional Meeting:* Board Chair, 2017; Chair, 1993; Publicity, 2011, 2003.

Member: American Association for the Advancement of Science; Sigma Xi; National Science Teachers Association (past member); Society for College Science Teachers (past member). *ACS Division:* Chemical Education.

Related Activities: Project Manager and contributor, Report on the Status of Women and Girls in California, 2014-18 (Mount Saint Mary's University); California State Science Fair Judge, 2017; IHE Collaborative of LA Compact, Steering Committee, 2010-13; Western Association of Schools and Colleges, Senior Commission, 2004-10; WASC Association of Community Colleges and Junior Colleges Commission, 2011-14; AAAS Education Division (Sec. Q), Nominations and Elections, 2005-07; Advanced Placement Chemistry, Chief Reader and Test Development Committee Consultant, 2004-09; Visiting faculty, University of Southern California, 1989-90; National Science Teachers Association, Board of Directors, 1997-99, 1991-93, College Division Director, 1997-99; Society for College Science Teachers, President, 1991-93; Los Angeles Math/Science Interchange, Board of Directors, 1996 to date; Principal Investigator NIH-MARC Grant, 1991-01; AAC&U SENCER Grant, 2004; Teacher, Westlake School for Girls, 1971-73; Acting Assistant Professor UCLA, 1969-71; Research chemist, Allied Chemical Corporation, 1963-65; Textbook author, 1982; co-editor and contributor to three books on higher education science teaching, 1997-04.

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: E. Ann Nalley Regional Award for Outstanding Service to ACS, Northeast Region, 2017; Gerbrich Fellow, University of Connecticut, 1996; Outstanding Graduating Senior Connecticut Valley Local Section, ACS, 1972; 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: Local Section Activities Committee, Committee Associate, 2017; Leadership Advisory Board, 2015-17; Committee on Divisional Activities, 2011-15, Committee Associate, 2010; Committee on Meetings and Expositions, 2002-07, Committee Associate, 2001.

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, 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.

VITENSE, KEITH R. *Wichita Falls-Duncan Section.* Cameron University, Lawton, Oklahoma.

Academic Record: Black Hills State College, B.S., 1982; Oklahoma State University, Ph.D., 1988.

Honors: Phi Lambda Upsilon, Cameron University Chapter PKP Distinguished Faculty Member, 2004; Cameron University Outstanding Instructor, 2001.

Professional Positions (for past ten years): Cameron University, Professor, 1988 to date.

Service in ACS National Offices: Committee on Ethics, 2011-19, Chair, 2015-17, Committee Associate, 2006-10; Committee on Economic and Professional Affairs, 2005-11, Committee Associate, 2004; ACS President's Taskforce for Improvement of K-12 Science Education, 2001-02; ACS Awards Committee, 2006-08.

Service in ACS Offices: Member ACS since 1983. *Wichita Falls-Duncan Section:* Councilor, 1998-2017; Alternate Councilor, 1992-97; Chair, 1998, 1991; Chair-Elect, 1990. *Professional Relations Division:* Chair, 2013; Chair-Elect, 2012; Program Chair Oklahoma Pentasectional Meeting, 2017.

Member: Phi Kappa Phi, Faculty Athletics Representatives Association Executive Committee, Division II Vice President, 2010-11, Division II Member-at-Large, 2008-10; NCAA DII Academic Requirements Committee, 2010-12, Chair 2012-14. *ACS Divisions:* Chemical Education; and Professional Relations.

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. Mitchell R. M. Bruce | 6. Judith M. Iriarte-Gross |
| 2. Jetty Duffy-Matzner | 7. Russell W. Johnson |
| 3. Rick Ewing | 8. Diane Krone |
| 4. Barbara R. Hillery | 9. Robert A. Pribush |
| 5. Martha G. Hollomon | 10. Susan M. Schelble |

The Council must elect five individuals. The five candidates receiving the highest numbers of votes will be declared elected for the 2018-2020 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, 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 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

2017-2019

Dee Ann Casteel, Susquehanna Valley Section
D. Richard Cobb, Rochester Section
Emilio X. Esposito, Computers in Chemistry (Michigan State University Section)
Wayne E. Jones, Jr., Binghamton Section
Stephanie J. Watson, Maryland Section

BRUCE, MITCHELL R.M. *Maine Section.* University of Maine, Orono, Maine.

Academic Record: Antioch College, B.S., 1979; Columbia University, M.A., 1981; Ph.D., 1985.

Honors: Sigma Xi.

Professional Positions (for past ten years): University of Maine, Professor, 2017, Associate Professor, 1993-2017.

Service in ACS National Offices: Committee on Committees, 2015-17; Leadership Advisory Board, 2017; Committee on Meetings & Expositions, 2014, Committee Associate; Committee on Local Section Activities, 2010-13, Chair, 2013, Committee Associate, 2006-07; Council Policy Committee, (Nonvoting), 2013; Committee on Planning, 2013; Committee on Project SEED, 1997-05, Chair, 2004-05, Committee Associate, 1996; Committee on Publications, Committee Associate, 1992-94.

Service in ACS Offices: Member ACS since 1983. *Maine Section:* Councilor, 1991-2017.

Member: National Association for Research in Science Teaching. *ACS Divisions:* Chemical Education; and Inorganic Chemistry.

Related Activities: Founding member, University of Maine, Research in STEM Education (RiSE) Center (since 2003); Director of the InterChemNet Project, University of Maine, 1993-to date; University of Maine, Assistant Professor, 1987-93; University of North Carolina, Postdoc Fellow, 1985-87; Charles F. Kettering Laboratory, Research Associate, 1977-80; published 63 journal articles and 3 patents.

DUFFY-MATZNER, JETTY L. *Sioux Valley Section.* Augustana University, Sioux Falls, South Dakota.

Academic Record: Boise State University, B.S., 1987; University of California, Davis, Ph.D., 1993.

Honors: Salutes to Excellence Award, ACS, 2004; Vernon and Mildred Niebuhr Faculty Excellence Award for Teaching, Augustana College, 2011; GenCorp/Aero-jet Blue-sky Technical Achievement Award, 1993; University of California, Davis, Chancellor's Teacher Fellow, 1991-92; American Institute of Chemists Student Research and Recognition Foundation Awardee, 1986.

Professional Positions (for past ten years): Augustana University, Professor, 1999 to date; Binghamton University, State University of New York, Visiting Professor, 2010-11.

Service in ACS National Offices: Committee on Committees, 2015-17; Committee on Meetings and Expositions, 2013-15; Committee Associate, 2011-12; Committee on Local Section Activities, 2004-10; Advisory Board for Speaker Service, Speaker, 2002-09, Chair, 2005-09.

Service in ACS Offices: Member ACS since 1992. *Sioux Valley Section:* Councilor, 2003-17; Chair, 2011, 2001-03; Chair-Elect, 2000; Webmaster, 2006-17; National Chemistry Week Coordinator, 2001-11; Chemists Celebrate Earth Day Coordinator, 2004-15; Faculty mentor for Student Affiliates (Members) ACS, 2000-12. *Midwest Regional Meeting:* Board, 2003-17; Awards Committee Chair, 2008-17.

Member: Graduate Women in Science. *ACS Divisions:* Chemical Education; and Organic Chemistry.

Related Activities: 2017 Organic Examination Committee of the ACS Division of Chemical Education's Examinations Institute, MAPS (Meetings Abstracts Programming Systems) Advisory Group ACS, 2014; Steering Committee for ACS Regional & National Meeting Registration & Planning, 2013-14; Working Group, ACS Policies Affecting Streaming & Recording of National Meetings, 2012-13; Diagnostic of Undergraduate Chemistry Knowledge (DUCK) Committee for the ACS Examinations Institute, Division of Chemical Education, 2013, 2011; First Term Organic Chemistry Examination Committee for the ACS Examinations Institute, Division of Chemical Education, 2010, 2006; General Chemistry Examination Committee for the ACS Examinations Institute, Division of Chemical Education, 2006; Moderator for 11th Boe Forum Event (Center of Western Studies, SD) with Vice President Al Gore, 2007; Keynote Speaker Convocation Ceremony, Augustana College, 2011; Panelist for proposed National Underground Science Lab, Lead, South Dakota, 2001; State University of New York, Cortland, Lecturer, 1998-99; University of California, Davis (UCD), Lecturer, 1994-97; KNECT/UCD, Research Chemist, 1994-96; GenCorp/Aerojet, Sacramento, California, Senior Chemist, 1992-94; State of Idaho Department of Health and Welfare, Forensic Section, Research Associate, 1986-87; Research Assistant, Boise State University; Department of Idaho, U.S. Fish and Wildlife, 1985-87; Editor, ACS Symposium Text (1108) "Advances in Teaching Organic Chemistry". Author of 12 journal publications, 1 patent, 2 book chapters, and 67 published research abstracts in the areas of chemical education and organic synthesis.

EWING, RICK Philadelphia Section. Bristol-Myers Squibb, Yardley, Pennsylvania.

Academic Record: West Chester University, B.S. Chemistry, 1983; University of Pennsylvania, Ph.D. Organic Chemistry, 1988.

Honors: ACS Philadelphia Section Award for Scholastic Achievement, 1983; University of Pennsylvania Teaching Award, 1984; Phi Lambda Upsilon;

Professional Positions (for past ten years): Bristol-Myers Squibb, Group Director, Discovery Chemistry, 2000-17.

Service in ACS National Offices: Committee on Corporation Associates, 2008-17; Committee on Economic and Professional Affairs, 2014-17, Chair, 2015-17; Council Policy Committee, (Nonvoting), 2015-17; Presidential Task Force on Employment, 2015-16; Presidential Task Force on STEM Supply and Demand, 2013-14; Medicinal Chemistry Letters, Advisory Board, 2014-16.

Service in ACS Offices: Member ACS since 1988. *Philadelphia Section:* Councilor, 2013-18; Immediate Past Chair, 2017, 2013; Chair, 2016, 2012; Chair-Elect, 2015, 2011.

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

Related Activities: *Bristol-Myers Squibb:* Discovery Chemistry Lead-Princeton University, Academic Collaboration, 2016 to date; Discovery Chemistry Lead-Scripps Research Institute-Academic Collaboration, 2016 to date; Chemistry Awards Committee, Co-chair, 2011 to date. Ulliyot Public Affairs Lectureship, Co-Chair, 2015 and 2011; Reviewer for Journal of Medicinal Chemistry, 1993 to date.

HILLERY, BARBARA R. *New York Section.* State University of New York, Old Westbury, New York.

Academic Record: University of Virginia, B.A., 1982; American University, Ph.D., 1995.

Honors: Outstanding Service Award, New York Section, ACS, 2011; SUNY Chancellor's Award for Excellence in Teaching 2004; Postdoctoral Fellow, Indiana University 1995-97; Phi Lambda Upsilon.

Professional Positions (for past ten years): State University of New York, Old Westbury, Dean, Arts and Sciences, 2010 to date; Professor 2010 to date; Associate Professor 2005-10.

Service in ACS National Offices: Committee on Local Section Activities, 2014-17, Committee Associate, 2013.

Service in ACS Offices: Member ACS since 1989. *New York Section:* Councilor, 2012-17; Alternate Councilor, 2006-08; Chair, 2009, Chair-Elect, 2008; Director-at-Large 2007-09; Executive Board, 2012-17, 2007-10; Outstanding Service Award Committee, 2012-16; CCED Coordinator 2011; Co-chair Student Activities Committee, 2011-12; Chemagination Committee, 2014, 2011; Nichols Award Jury 2009-12; Finance Committee 2007-10; Environmental Committee, Chair, 2003-09. *Middle Atlantic Regional Meeting:* Organizing Committee, 2007-08; Outstanding Service Award Committee, 2012-16. *Long Island Subsection:* Chair, 2000; Chair-Elect, 1999; Executive Board, 1999-2009; Environmental Committee, 1998-2009; Analytical Committee, 1998-2010; Organizing Committee, Annual Francis Sterrett Environmental Symposium, 1999-2009; Co-Chair, LIACS First Annual Chem Challenge, 2001.

Member: Alpha Chi Sigma; American Association for the Advancement of Science; New York Academy of Sciences; Professional Science Masters Association.

Related Activities: Facilitated ACS Leadership Institute Local Section Leader's Getting Back on Track session, 2016-17; *Eastern Analytical Symposium:* Governing Board, 2003 to date, Bylaws Chair, 2017, Fundraising Chair, 2016, Vice-Chair 2015, Short Courses Chair, 2014, Vice-Chair, 2013, Seminars Chair, 2012, Housing Chair, 2011, Vice-Chair, 2010, Registration Chair, 2009, Vice-Chair, 2008, Workshops, Chair, 2007, Vice-Chair 2006, Transportation Chair, 2005, Vice-Chair, 2004.

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, 2013-18, 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, 2012-17, Secretary, 2007-11; 41st Middle Atlantic Regional Meeting, 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.

IRIARTE-GROSS, JUDITH M. *Nashville Section.* Middle Tennessee State University, Murfreesboro, Tennessee.

Academic Record: University of Maryland, B.S., 1981, M.S., 1984; University of South Carolina, Ph.D., 1990; Southern Methodist University, Postdoctoral Research Associate, 1991.

Honors: ACS Award for Encouraging Women into Careers in the Chemical Sciences, 2017; ACS Fellow 2016; E. Ann Nalley Southeast Region Award for Volunteer Service to the ACS, 2015; Nashville Local Section, ACS, Outreach Volunteer of the Year, 2014; ACS Southeast Region, Stanley C. Israel Award for Advancing Diversity in the Chemical Sciences, 2008; ACS ChemLuminary Award for Outstanding Outreach to Girls or Young Women, 2008; ChemLuminary Award for Most Innovative Recognition of Women in the Chemical Sciences, Nashville Section, ACS, 2001; William E. Bennett Award for Extraordinary Contributions to Citizen Science, National Center for Science and Civic Engagement, 2016; AAAS Fellow, 2016; Science Educator of the Year for Higher Education, Tennessee Science Teachers Association, 2015; Omicron Delta Kappa MTSU Chapter (National Leadership Honor Society), 2015; Woman of Influence, Inspiration/Mentor Category, Nashville Business Journal, February 2015; First Athena International Leadership Award, Rutherford CABLE, Murfreesboro TN, 2014; Middle Tennessee Women of Character, Courage and Commitment in STEM, MTSU NWHM Committee, 2014; Represented GRITS Collaborative Project at the White House celebration and recognition of girls and women in STEM, 2011; Named 2010 TRIO (Upward Bound) Achiever for Washington D. C., 2010; 2009 AWIS Fellow; 2008 Leadership Fellow, SENCER (Science

Education for New Civic Engagement and Responsibilities); Sigma Xi Diversity Award, 2001-02. *Middle Tennessee State University*: President's Silver Column Award, 2013; Named to Honors College Council, 2013-16; King-Hampton Award for Outstanding Service to Women on Campus, 2008; Ayne Cantrell Award for Outstanding Service, Women's Studies, 2003; Foundation, Outstanding Public Service Award, 2000; Chapter of Honor Society of Phi Kappa Phi, 2000; Tennessee Higher Education Commission, Love Outstanding Community Service Award, 1999.

Professional Positions: (for past ten years): Middle Tennessee State University, Professor of Chemistry, 2007 to date; Director, Women In STEM Center, 2009 to date.

Service in ACS National Offices: Membership Affairs Committee, 2017; Committee on Minority Affairs, 2016, Committee Associate, 2016; Women Chemists Committee, 2007-15, Committee Associate, 2003-06; National Awards Selection Committee, 2013-15; Leadership Advisory Board, 2016 to date, Committee Associate 2014-15.

Service in ACS Offices: Member ACS since 1984. *Nashville Section*: Councilor, 2012-17; Alternate Councilor, 2008-11; Chair, 2005; Chair-Elect, 2004; Women Chemists Committee, Chair, 2003-17; Board Member, 2003-17. *Division of Professional Relations*: Chair-Elect, 2017.

Member: American Association of University Women; Association for Women in Science; *Middle Tennessee State University*: Phi Kappa Phi Honor Society, Sigma Xi Scientific Research Honor Society, Omicron Delta Kappa Leadership Honor Society. National Science Teachers Association; Iota Sigma Pi: National Honor Society for Women in Chemistry, MTSU Women and Gender Studies Council, MTSU President's Committee on the Status of Women. *ACS Divisions*: Chemical Education; and Professional Relations.

Related Activities: MTSU, Honors College Faculty; MTSU SENCER Team Leader (engages students in service, experiential learning and collaborative activities); Women In STEM (WISTEM) Center Director; collaborates with the MTSU community to increase STEM capacity for girls and women in Tennessee and across the South; Faculty Advisor to WISE Student Organization and WISE Living and Learning Residential Community, Assist WISTEM's Advisory Board with strategic planning for current and future events; Mentored 10 Project SEED Scholars.

JOHNSON, RUSSELL W. Chicago Section. Retired, Honeywell International, Des Plaines, Illinois.

Academic Record: University of Minnesota, B.S., 1970; University of Colorado, Ph.D., 1974.

Honors: ACS Fellow, 2010; Distinguished Service Award, Chicago Section, ACS, 2010; ACS Heroes of Chemistry Award, 1997; Honeywell Lifetime Achievement Award 2005; Marple-Schweltzer Memorial Lecture, Northwestern University, 2005; Honeywell Corporate Fellow, 1997.

Professional Positions (for past ten years): *Honeywell International*, Consultant, 2017 to date; Honeywell International, 1974-2016, Corporate Fellow and Chief Scientist, 1997-2016, Chair of Fellows Leadership Team, 2014-16.

Service in ACS National Offices: Committee on Chemistry and Public Affairs, 2011-19, Committee Associate, 2010; Committee on Public Relations and Communications, 2004-09, Chair, 2007-09, Committee Associate, 2002-03.

Service in ACS Offices: Member ACS since 1972. *Chicago Section:* Councilor, 2015-17, 2001-13; Alternate Councilor, 1980-2000; Vice-Chair, 2017, 2001-02; Chair 2005, 1988-89, Secretary, 1982-85; Public Relations Chair, 2002-17; Program Chair, 1981-82, Co-Chair, 2006; Policy Committee, 87-89, Chair 06; Environmental & Lab. Safety, 1982-87; Awards Chair 78; Continuing Education, 1990-91; Gibbs Arrangements, Chair, 1979; House Committee Chair, 1979-81, 1979; Topical Group, Chair 1975, 2000-01; Nominations Committee, 2000-01. *Petroleum Chemistry Division:* Chair, 1986-87, Chair-Elect and Program Chair, 1985-86: *38th Great Lakes Regional Meeting (2009)*, General Co-chair, 2007-09.

Related Activities: Malta Conference Foundation, Vice President, 2017 to date; Federal Aviation Administration (FAA), Center of Excellence for Airliner Cabin Environment Research, Advisory Board Member, 2007-15, Chair, 2012-15; Northwestern University Institute for Catalysis in Energy Processes and predecessor organizations, Member of External Advisory Board, 2003-15; Editor ACS Symposium Series #349, *The Chemistry of Acid Rain* (1986); holds 62 U.S. Patents.

KRONE, DIANE *North Jersey Section.* Retired, Northern Highlands Regional High School, Allendale, New Jersey.

Academic Record: Ladycliff College, B.A. 1972; Stevens Institute of Technology, M.S., 1989.

Honors: ACS Fellow, 2010; Edward J. Merrill Award for Excellence in Chemistry Teaching, North Jersey Section, ACS, 2002; Radio Shack National Teacher Award, 2004; Homer J. Hall Educator Award, New Jersey Institute of Chemists, 2000; Gustav Ohaus Award for Innovations in Science Teaching, 1999.

Professional Positions (for past ten years): Retired, 2010, Northern Highlands Regional High School, Chemistry Teacher 1993-2010; Science Instructor (part time) for Fuel Education, 2017, Herndon, VA.

Service in ACS National Offices: Committee on Education; 2011-17, Chair 2015-17, Membership Affairs Committee, Associate Member, 2009-10.

Service in ACS Offices: Member ACS since 1992. *North Jersey Section:* Councilor, 2004-18, Chair, 2005, Chair-Elect, 2004; Baekeland Award Committee, 2015, 2013; Creativity in Molecular Design and Synthesis Award Committee, 2014; Education Committee, 2005 to date; Awards Dinner Co-chair 2012 to date; Project SEED poster judge, 2005 to date. *Middle Atlantic Regional Meeting:* Membership Chair, 2009 to date; Nominating Committee, Chair 2007; Steering Committee, 2005.

Member: American Association of Chemistry Teachers (AACT); North Jersey ACS Teacher Affiliates; National Science Teachers Association. *ACS Division:* Chemical Education.

Related Activities: AACT Governing Board, 2015-17; Editorial Board Member for *POGIL, Activities for High School Chemistry Teaching*; Writer for *ChemMatters*, Teacher Guide, 2016-17; Pre-college Program Coordinator for 2010 Biennial Conference on Chemical Education (BCCE); ACS Test Writing Committee for Advanced High School Chemistry Exam; Guidelines and Recommendations for Teaching High School And Middle School Chemistry.

PRIBUSH, ROBERT A. *Indiana Section.* Butler University, Indianapolis, Indiana.

Academic Record: University of Delaware, B.S., 1968; University of Massachusetts, Ph.D., 1972.

Honors: Award for Volunteer Service to the American Chemical Society, 2014; ACS Fellow, 2013; Indiana Section Service Award, 2013; Phi Kappa Phi, Chapter President, 1989-98; Lilly Foundation Open Faculty Fellow, 1992; Holcomb Research Institute Fellow, 1983.

Professional Positions (for past ten years): Butler University, Professor Emeritus, 2016 to date; Professor, 1986-2016.

Service in ACS National Offices: Committee on Committees, 2015-17; Committee on Meetings and Expositions, 2012-15; Committee on Nominations and Elections, 2009-11; Council Policy Committee, 2005; Committee on Publications, 2008-11, Committee Associate, 2006-07; Committee on Membership Affairs, 2004-05, 1993-96, Committee Associate, 2003, 1992; Committee on Economic and Professional Affairs, 1997-02; Board of Trustees, Group Insurance Plans for ACS Members, ex-officio, 1993-96; Younger Chemists Committee, 1976-81; Chair, 1978-80; Professional Programs Planning and Coordinating Committee (PROPPACC), 1978-80; *C&EN* Editorial Board, 2010-11; Program Review Advisory Group, 2006; Advisory Board, Office of Cooperative Education, 1978-86; SCIQUEST Task Force, 1980-82.

Service in ACS Offices: Member ACS since 1969. *Indiana Section:* Councilor 1991-2019; Alternate Councilor, 1982-90; Chair, 1980; Chair-Elect, 1979; Education Committee, 1986-92, 1982, 1975-79, 2009 to date, Chair, 1986-92, 1979, 2009 to date; Chemistry Olympiad Co-Chair, 2009 to date; Program Committee Chair, 1982, 1977; Executive Committee, 1976 to date. 2013 Indianapolis National Meeting Lead Team, 2013-14; *Central Regional Meeting:* Symposium Chair, 2011. *Central Regional Meeting:* Program Chair, 2004. *Joint Central-Great Lakes Regional Meeting:* Symposium Chair, 1991. *Division of Chemical Education:* Examinations Institute, General Chemistry Laboratory Assessment Exam, 2009-2012; Diagnostic Test of Undergraduate Chemical Knowledge Exam Committee, Chair, 2006; Inorganic Chemistry Exam Committee, 2000; Chair, 2000-02; General Chemistry Exam Committee, 1991-96; Chair, 1994-96; *ChemEd* 83 Advisory Board, Chair 1981-83.

Member: Indiana Science Olympiad Board of Directors, 1993-2012, Treasurer, 1999-2012; National Science Teachers Association; Indiana Academy of Science. *ACS Division:* Chemical Education.

Related Activities: Holcomb Research Institute Biotic Resources, Program Associate, 1985-90; University of Southern California, Postdoctoral Fellow, 1972-74; Wolf Technical Services, Technical Consultant/Expert Witness, 1977 to date; Butler University, Acting Associate Dean of Liberal Arts and Sciences, 1990-92; Associate Professor, 1979-86; Assistant Professor, 1974-79; textbook and textbook supplement consulting editor and author.

SCHELBLE, SUSAN M. *Colorado Section.* Metropolitan State University-Denver, Denver, Colorado.

Academic Record: St. Norbert College, B.S., 1971; University of Wisconsin-Stevens Point, B.S., 1985; Colorado State University, Ph.D., 1994; University of Illinois Urbana-Champaign, Massive Open Online Courses in Leadership, 2016.

Honors: Colorado Section ACS, Service Award, 2016; ACS Chemistry Ambassador Award, 2015; ACS ETHX Committee Nine-year Service Award, 2014; Metropolitan State University, College of Letters Arts and Sciences Mentoring Award, 2011; ACS Project-SEED Mentor-Coordinator Certificate, 2008; Denver Community Service Award, 2000; Favorite Professor Award, Colorado State University, 1995; Fellowship for Teaching Organic Chemistry, Syntex Corporation, 1993.

Professional Positions (for past ten years): Metropolitan State University-Denver, Professor of Chemistry, 2005 to date; University of Illinois, Laboratory Instructor, and Visiting Researcher 2014-15.

Service in ACS National Offices: Committee on Ethics, 2005-14, Consultant, 2015-17; Committee on Meetings and Expositions, 2015-17; Strategic Planning Committee, 2013; Committee on Community Activities, 2004; National Chemistry Week Task Force, 2001-03.

Service in ACS Offices: Member ACS since 1986. *Colorado Section:* Councilor, 2005-19, Alternate Councilor, 1999-2000; Past-Chair, 2003, Chair, 2002, Chair-Elect, 2001; Chair, Local Section Bylaws Committee, 2013-15; Awards Committee, Chair, 2011-17. *Division of Chemical Education:* ACS Examinations Institute, Board of Trustees, 2009-15; Committee on Personnel and Nominations, 2015-17. *Division of Professional Relations:* Secretary, 2010-17; Strategic Planning Committee, 2017. *Rocky Mountain Regional Meeting:* Planning Committee, 2012.

Member: Association of Practical and Professional Ethics; Society for Advancement of Chicano and Native Americans in Science; Council for Undergraduate Research; American Association of Chemistry Teachers; Colorado Chemistry Teachers Association. *ACS Divisions:* Chemical Education; and Professional Relations.

Related Activities: Reviewer, *Journal of Chemical Education*, 2005-17; Organizer, Organic Teaching Symposium, ACS National Meetings, 2012 and 2001.

REQUEST FOR SUGGESTIONS FOR 2019 ELECTED COMMITTEES

A Reminder

At the Council meeting in Washington, DC, Councilors will elect members to the Committee on Committees, Council Policy Committee, and Committee on Nominations and Elections to fill 2018-2020 terms. The process to select nominees for 2019-2021 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, 2018, and the list of the other members of these committees. Names of individuals suggested for nomination should be inserted on the form on page 47. This form may be left on the registration table as you leave the Council meeting or emailed to the Chair of the Committee: Dr. Les McQuire, nomelect@acs.org.

COMMITTEE ON COMMITTEES

Members of the Committee on Committees (ConC) whose terms end on December 31, 2018, are:

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

Christopher J. Bannochie, Michelle V. Buchanan, and Alan B. Cooper are ineligible for reelection.

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

Term ending December 31, 2019

Dee Ann Casteel, Susquehanna Valley Section
D. Richard Cobb, Rochester Section
Emilio X. Esposito, Computers in Chemistry (Michigan State University Section)
Wayne E. Jones, Jr., Binghamton Section
Stephanie J. Watson, Maryland Section

Term ending December 31, 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

ConC nominees for 2018-2020 terms are listed in this Council agenda under "Election to Committee on Committees." Names of those elected will be announced at that meeting. Bonnie Lawlor and Zaida C. Morales-Martinez are ineligible for reelection.

COUNCIL POLICY COMMITTEE

Members of the Council Policy Committee whose terms end on December 31, 2018, are as follows:

Mary K. Carroll, Eastern New York Section
Lisa Houston, Energy & Fuels (Greater Houston Section)
Martin D. Rudd, Northeast Wisconsin Section

Mary K. Carroll is ineligible for reelection.

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

Term ending December 31, 2019

Harmon B. Abrahamson, Red River Valley Section
Lissa Dulany, Georgia Section
Sally B. Peters, Santa Clara Valley Section
Andrea Twiss-Brooks, Chemical Information (Chicago Section)

Term ending December 31, 2017

Lawrence Barton, Bylaw
Frank D. Blum, Bylaw
Karl S. Booksh, Analytical Chemistry (Delaware Section)
Ella L. Davis, Philadelphia Section
Linette M. Watkins, Virginia Section

CPC nominees for the 2018-2020 term are listed in this Council agenda under "Election to Council Policy Committee." Names of those elected will be announced at that meeting. Frank D. Blum and Lawrence Barton 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, 2018, are as follows:

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

Les McQuire and Donivan R. Porterfield are ineligible for reelection.

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

Term ending December 31, 2019

Lisa M. Balbes, St. Louis Section
Alan M. Ehrlich, Chemistry & The Law (Chemical Society of Washington Section)
Alan A. Hazari, East Tennessee Section
Amber S. Hinkle, Greater Houston Section
Thomas H. Lane, Ex Officio (Midland Section)

Term ending December 31, 2017

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

N&E nominees for the 2018-2020 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. Lydia E.M. Hines and Robert L. Lichter are ineligible for reelection.



Dr. Les McQuire
nomelect@acs.org

Dear Dr. McQuire:

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 Dr. McQuire no later than October 31, 2017

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 April 5, 2017, meeting of the Council for selection of candidates for 2018 President-Elect. Also reported are the results of balloting (March 6, 2017) for the selection of candidates for Director from District III and for Director from District VI for 2018-2020 terms. Nominees selected as the candidates are identified by an asterisk.

2018 PRESIDENT-ELECT

Nominee	1st Round	2nd Round	3rd Round
*Bonnie A. Charpentier	200	210	242
Mark D. Frishberg	73	80	-
Anne M. Gaffney	26	-	-
*Willie E. May	132	141	158

^a431 valid electronic ballots were cast, with 216 being the majority. The results of the first preference vote totals are shown in the 1st round column. No nominee attained a majority. Following the procedures approved by Council, second-preference votes were distributed in two subsequent rounds. Those marked with an * were declared elected as candidates.

DIRECTOR DISTRICT III^a

Nominee	1st Round	2nd Round	3rd Round
Margaret A. Cavanaugh	7	-	-
*Alan B. Cooper	15	19	22
Anne S. DeMasi	10	10	-
*Teri Quinn Gray	11	14	19

DIRECTOR DISTRICT VI^a

Nominee	1st Round	2nd Round	3rd Round
*Rita R. Boggs	9	9	12
Kevin P. Gable	7	9	-
*Paul W. Jagodzinski	16	17	23
Richard V. Williams	3	-	-

^aThe results of the first preference vote totals are shown in the 1st round column. No nominee attained a majority. Following the procedures approved by Council, second-preference votes were distributed in two subsequent rounds. Those marked with an asterisk (*) were declared elected.

* Individuals nominated
8/17

REPORT OF THE PRESIDENT

My Fellow Councilors, it's hard to believe that I'm already six months into my Presidential year. I have so much to report since our last meeting on my Presidential initiatives and programming.

As you may recall, the ACS Board of Directors voted in San Francisco to form the Public Access and Diversity Stakeholder Working Group to help develop the Society's response to various 'bathroom bill' legislation. The Working Group is comprised of me (Chair), along with the chairs of the following ACS committees: Public Affairs & Public Relations, Professional & Member Relations, Budget & Finance, Meetings & Expositions, and the Diversity & Inclusion Advisory Board. With thoughtful consideration and free discussion, the Working Group presented the ACS Board of Directors with a statement on the *Freedom to Meet Without Limitations* in response to certain states drafting legislation discriminating against transgender individuals in their use of public facilities. The statement was approved by the ACS Board at its June meeting, and communicated to legislators considering enacting discriminatory laws. I am proud to represent a Society that takes a public stand against discrimination in any form.

Under my initiative of *Science Advocacy*, I am piloting an *ACS Chemistry on the Hill Advocacy Workshop* at the Washington, DC meeting. The workshop will provide younger chemists with practical advice on engaging with Congress, as well as hands-on training opportunities via interactive role-playing. I have also been working closely with the ACS government affairs staff, as they will be assisting with an event on Capitol Hill in conjunction with National Chemistry Week. We are also designing an online advocacy toolkit that is scheduled to roll out in the fall. It is my belief that these programs and tools help empower our members at the local section level to advocate for their science before policymakers. With impending budget cuts possibly affecting large swaths of our research community, it is imperative that we are able to speak to policymakers and explain the impact these reductions in funding would have for our science and our well-being.

Also at the Washington meeting, and in collaboration with the Royal Society of Chemistry, we have put together a symposium to provide scientists with the tools and techniques to talk about the positive impacts of chemistry and describe their work through entitled *Science Communications: The Art of Developing a Clear Message*. This symposium will help members share stories on how to positively and effectively communicate chemistry. It will also include an opportunity for audience members to develop and practice an elevator pitch on their chemical research. There is such a tremendous amount of scientific information – and misinformation – that the general public has an increasingly difficult task of wading through what is urgent, important and accurate. It is our role to help tell the fascinating stories of our science and be reputable resources for our communities. The March for Science was an excellent demonstration of the passion scientists have for their profession and the benefits that science delivers to humankind. Let us continue to leverage that energy into our communities. I also wrote an ACS Comment in the May 1st issue of C&EN, entitled "Communicating science effectively to the public." Please take a moment to read it.

An addition to the Presidential symposia I just mentioned, I am also focusing on other areas of significant importance. On Monday, the all-day Presidential symposium *Building a Safety Culture Across the Chemistry Enterprise* will feature speakers addressing top-down approaches in the morning session, followed by examples and insight into grassroots efforts in the afternoon. All day on Tuesday, *Understanding the Chemistry of our Planet* will showcase renowned researchers discussing the transforming power of chemistry that is ubiquitous to life on Earth. Scientists will present their innovative

research on chemistry's role in our Earth System and the human impacts to the chemistry of our environment. On Tuesday evening I am hosting the Presidential LGBTQ+ Reception. This event has garnered an unprecedented number of co-sponsors and financial contributors. I am grateful for their support in an event that celebrates diversity and fosters a larger community within ACS. Please look for the other Presidential symposia organized by various divisions as well as the *President Recommended* symposia focusing on issues of sustainability, highlighting up-and-coming graduate researchers, and celebrating diverse practitioners of chemistry. More information about Presidential and all other programming can be found at <http://www.acs.org/dc2017>

Allison A. Campbell

REPORT OF THE PRESIDENT-ELECT

Well, time flies by between ACS Council Meetings.

Since the San Francisco Meeting, I've attended several meetings and events hosted by local sections, including the Northeastern Section STEM Journey event, the Willard Gibbs Medal Award Ceremony hosted by the Chicago Local Section, and the National Historic Chemical Landmark Designation hosted by the California Local Section for the Mars Mariner Infrared Spectrometer that was developed by the late Professor George Pimentel and his team at the University of California, Berkeley. I also had a sweet time at the Middle Atlantic Regional Meeting [MARM] in Hershey, PA.

Promote safety

Continuing on my proposed initiative to RAMP up our focus on laboratory safety – Recognize hazards, Assess risks, Minimize risks, and Prepare for emergencies – I spent time meeting with leadership from the Committee on Corporation Associates (CA), the ACS Committee on Chemical Safety (CCS), and the ACS Division of Chemical Health & Safety (CHAS) discussing a project that would help promote and enhance safety training for academic laboratories. In a joint effort between the committee and the division, a new publication was released this past spring entitled “Safety in Academic Laboratories – 8th Edition”, which is available online as a free download at www.acs.org/SACL.

I am soldiering on with planning my Presidential Symposium on “RAMPing Up the Culture of Safety,” emphasizing a safety culture theme at each regional ACS meeting, and creating a ChemLuminary Award for leadership in safety culture. I am also developing a Presidential Symposium on “Food, Energy, and Water Safety and Security” aligned with the National meeting theme in New Orleans.

Focus on employment

Following on the CA strategic planning session I attended in the spring, I plan to continue to engage CA and other key ACS stakeholder groups in dialog about how to improve the employment outlook for chemical professionals and prepare the workforce of the future. This will require engagement from chemical industries both large and small, as well as academics from K-12 and higher education, especially the American Association of Chemistry Teachers (AACT) and the ACS Committee on Professional Training.

Building on the theme of graduate education and employment, I am supporting two symposia at this national meeting in Washington, D.C. “Innovations in Healthcare in the Global Economy” sponsored by the ACS Division of Small Chemical Businesses, and “Advancing Graduate Education: Opportunities & Challenges” sponsored by the ACS Division of Chemical Education.” I am also pleased to be included as one of the many cosponsors and supporters of the Presidential LGBTQ+ Reception hosted by ACS President Allison Campbell.

One of my Presidential Symposia at the Boston ACS meeting will focus on small business innovation, engaging academia and industry, and applications of nanoscience and technology. I will also be hosting an event featuring Jorge Cham (author of “PhD Comics”) with the Graduate Education Advisory Board (GEAB).

Build an endowment for ACS Scholars

ACS members' perspectives on moving the Society forward are a diverse combination of external influences, professional and personal experiences, and talents. The ACS Scholars program helps contribute to that diversity. The program has served more than 2,900 students by providing resources to attend college, promoting professional growth, and graduating 280 PhDs. This year, I made a promotional

video, spoke to several groups about the program, and will provide a training session on how to speak with prospective donors in July. I will continue to work to build an endowment that will serve generations of students to come.

A special thanks to all the ACS volunteers who have been doing excellent things this year and have been reaching out to help me achieve my goals. Nothing happens at ACS without volunteers! Later during my President-Elect year, I will be hosting virtual listening sessions for members who are not able to network in person at our national or regional meetings. I hope these will be less a one-way broadcast and more a two-way dialog about how we can continue to make ACS the leading scientific society.

Peter K. Dorhout

REPORT OF THE IMMEDIATE PAST PRESIDENT

Fellow Councilors,

This report to Council is the final report of my three-year ACS Presidential succession. Community building within ACS has been a major theme of my three-year term, so this report builds on activities discussed in my previous reports to Council. In collaboration with Division of Professional Relations, I programmed a symposium for the Washington, DC, ACS National Meeting, which responds to interests of ACS members. Also, selected symposia from previous meetings are being further disseminated to the community, as requested.

- I. Dissemination of results from previous symposia at ACS National Meetings, supplemented by additional 2016 ACS Presidential activities, covers topics of interest to ACS members, which formed the basis of programming requested by ACS members. I welcome your remarks and ideas about these.
 - A. Following activities of 2015 and 2016, ACS Symposium Series Books have been written on two topics. First, a book compiling the results of activities addressing employment of chemists is now in production and will be available this year. It is titled "The Present Employment Status of Chemical Professionals in the United States and Actions Needed for its Improvement." Activities included are those of the Presidential Task Force on Employment in the Chemical Sciences, ACS members who emailed comments and ideas, bloggers who wrote on employment in the chemical sciences and spoke to the Task Force, and so on. This book includes some impacts upon the topic, due to activities of the new administration in DC.
 - B. Second, a book based on ACS symposia on diversity has been published in collaboration with Dr. H. N. Cheng; the online version of the book will be available by the end of this month, and the actual book will be available 6 to 8 months later. It is titled "Diversity in the Scientific Community," focusing on data-driven analyses of the status of women and underrepresented minorities at all levels in STEM disciplines, including chemistry and chemical engineering.
- II. Many activities bridged my ACS community-building projects to other organizations for collaboration and inspiration; selected examples follow.
 - A. I represented chemistry in the process of *Scientific American* and *The World Economic Forum* identifying the "Top 10 Emerging Technologies of 2017." For this, I nominated 4 projects of ACS members, and I am happy to say that 2 were selected. Selected ones are "Harvesting Clean Water from Air" (Dr. Omar Yaghi's Project at UC-Berkeley) and "Affordable Catalysts for Green Vehicles" (Dr. Stanislaus Wong's project at SUNY-Stony Brook). See www.scientificamerican.com/article/10-emerging-technologies-to-watch/ for the story.
 - B. I represented the ACS in the 22 April March for Science and spoke to the public at the event in the Oklahoma City remote site.
 - C. I worked with a Research Partnership on Women in Biomedical Careers, in order to make available and easily useful recent data quantifying the representation of women and of underrepresented minorities among faculty of chemistry and other science and engineering disciplines, disaggregated by race, by rank, by gender, and by discipline. These data are significant to students entering biomedical careers, because STEM discipline faculty serve as mentors and role models for these students. Medical school faculty are now aware of these data and will be able to use them in their own efforts.

III. A symposium at the Washington, DC, Fall National Meeting, which recognizes selected scientists who demonstrated great courage in the course of making important scientific discoveries. The symposium "Chemists of Courage," which I organized with the Division of Professional Relations, features selected individuals who possess two characteristics which are valued greatly in our culture – courage and intelligence. This programming is of special interest to ACS members because it includes the account of competition faced by Chemical Abstracts Service in its early days. Please attend and participate in the dialogue with panelists and other audience members at the end of the symposium.

Finally, as always, please email to me your concerns, questions, and suggestions at djnelson@ou.edu .

Donna J. Nelson

REPORT OF THE CHAIR OF THE BOARD OF DIRECTORS

The ACS Board of Directors regularly reviews and assesses the most important strategic opportunities for the Society. Working with members of the Executive Leadership Team, the Board held a retreat to identify where ACS delivers the greatest value to our members, and what opportunities exist for the Society to grow. Drawing upon the expertise of all the Directors, the Board identified and explored multiple opportunities, weighed their potential impact, and discussed policies enabling the Society to pursue several important initiatives.

The Board also identified key issues and topics for the Financial Planning Conference in November. Every several years, the Board convenes a Financial Planning Conference to study the financial health of the Society, including Publications, Chemical Abstracts Service, and Society Programs. The conference will be attended by the Board, selected members of the Society Committee on Budget & Finance, the Governing Board for Publishing, and other invitees. The objectives of the conference are to develop a strong financial sense of ACS' current state and discuss the allocation of future resources. In keeping with the fiduciary responsibility of the Board, this Conference facilitates a wide range of inputs, ensuring that the resources of the Society are being utilized in a manner that is true to our mission, on strategy, and provides the greatest value to our Members.

The Board also participated in a facilitated communications training session. It is imperative that the general public and policy makers have a much greater understanding of the value that science brings to our communities, our economy and the human condition. This exercise provided the Board with tools and techniques for delivering compelling communications to a variety of audiences, including various media. There are many opportunities that ACS provides its members to hone their communications skills, and I encourage you to seek out and employ these various training workshops and other tools.

The Public Access and Diversity Stakeholder Working Group was charged with advising the Board on our public statement responding to pending "bathroom bills" legislation in various states. In alignment with the Society's existing positions on diversity and inclusion, the Board approved a new statement entitled "Freedom to Meet without Limitations" for the American Chemical Society. This working group will continue to advise the Board on our position regarding scheduled and future meetings in states which have adopted or are considering adoption of discriminatory legislation.

Pat N. Confalone

MINUTES
REGULAR SESSION
BOARD OF DIRECTORS
San Francisco, California
April 2, 2017

The Board of Directors of the American Chemical Society met in San Diego, California, on April 2, 2017, 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, Christina Bodurow, Allison A. Campbell, William F. Carroll, Jr., Thomas M. Connelly, Jr., Peter K. Dorhout, Rigoberto Hernandez, Paul W. Jagodzinski, Lee H. Latimer, Ingrid Montes, Donna J. Nelson, Laura E. Pence, Dorothy J. Phillips, Barbara A. Sawrey, and Kathleen M. Schulz. Present by invitation for all or parts of the meeting were: Brian A. Bernstein, Brian D. Crawford, Denise L. Creech, Kate Fryer, Manuel Guzman, Mary Kirchhoff, 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 Chair's Report from Executive Session

Pat N. Confalone, Chair, opened the meeting by welcoming the attendees and introducing his Board colleagues. Next, he summarized the key actions and discussion points from the Board's March 31 - April 1 executive session:

The Board's Committees:

The Board of Directors received and discussed reports from its Committees on Executive Compensation; Strategic Planning; Corporation Associates; Professional and Member Relations; and the Joint Board-Council Committee on Publications.

- 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 several ACS journals.
- On the recommendation of the Committee on Professional and Member Relations, the Board approved screened lists for the 2018 Priestley Medal and the ACS Award for Volunteer Service. From these lists, the Board will select the recipients of these awards.

The Executive Director/CEO Report:

- The Board received a report from the Executive Director and CEO on issues relating to the Information Technology area, the Executive Leadership Team retreat, membership levels, ACS financials, and Board Regulations on the Governing Board for Publishing. His direct reports updated the Board on the activities of Membership Division, Chemical Abstracts Service (CAS) and the ACS Publications Division.

Other Society Business:

- The Board heard reports from the Presidential Succession on their current and planned activities for 2017.
- As part of its ongoing commitment to consider the most important strategic issues facing the Society, the Board held a discussion and provided input to its Strategic Planning Committee on context setting and change drivers to be addressed during the strategic planning process.

- The Board is developing a statement based on the Society's Core Value of diversity and inclusion in response to the repeal of the North Carolina law known as House Bill 2 ('bathroom bill') and the proposed Texas legislation, and is assembling a representative group of stakeholders to advise it on actions relating to the location of Society meetings.

Board Retreat:

- The Board held a discussion on timing and topics of a possible facilitated retreat for all Board members during 2017. The Board regularly holds these retreats to consider strategic issues in depth or for ongoing development.

Board Resolution:

- The Board passed a resolution expressing appreciation to Denise L. Creech for her 27 years of service in the Membership and Scientific Advancement Division, which she led as director for nearly 14 years.

Reports of Officers

President

ACS President Allison A. Campbell encouraged participants to attend the Presidential programming for this national meeting: "LGBT Graduate Student and Postdoctoral Scholars Chemistry Research Symposium" (April 2-3), "Holy Grails in Chemistry" (April 2), and "Science for a Sustainable Energy Future" (April 3). She offered brief overviews of several presidential symposia scheduled for the fall national meeting in Washington, DC. The first, "Building a Safety Culture Across the Chemistry Enterprise," will highlight institutional and grassroots approaches to safety. "Understanding the Chemistry of our Planet" addresses the chemistry of our atmosphere and terrestrial ecosystems. A third, cosponsored with the Royal Society of Chemistry, is titled "Science Communications: The Art of Developing a Clear Message." This symposium and practicum will highlight innovative methods to communicate the value of science to our audiences. Another practicum, "Speaking with Congress Workshop," will feature interactive scenarios, case studies, and role playing. Finally, Dr. Campbell encouraged members to share their ideas and suggestions with her at a.campbell@acs.org.

President-Elect

ACS President-Elect Peter K. Dorhout stated that he is honored to serve as President-Elect and has spent his initial days in office learning more about the Society and listening to members. He reported that his three years in the presidential succession will focus on three goals: engaging industrial and academic chemists in broadening skills in the curriculum, promoting a culture of safety in academic laboratories, and building an endowment for ACS Scholars. Presidential symposia topics during the 2018 ACS national meetings will focus on food, energy, and water security – the Mississippi River, chemistry, and the role each plays (New Orleans); Café du Monde and chemistry – how beignets can get us talking about science to the public (New Orleans); the startup ecosystem in Boston and its impact on nanotechnology (Boston); and nanotechnology – the science behind the questions of environmental health and safety (Boston).

Dr. Dorhout concluded by stating that we can and must work together to improve the ACS and encouraged members to share their ideas and suggestions with him at p.dorhout@acs.org.

Immediate Past President

ACS Immediate Past President Donna J. Nelson reported that two ACS book series are planned. The first, *Diversity in the Chemistry Community*, is partially based on three diversity-related symposia held during the spring 2016 national meeting in San Diego. The second is focused on reporting recommendations from her ACS President's Task Force on U.S. Employment in the Chemical Sciences.

She also reported that for this meeting she organized a “Hollyweird Chemistry” symposium and encouraged the audience to attend and to meet the scientists behind the silver screen and popular television programs. Other cosponsored symposia include “Celebrating 60 years of Division of Inorganic Chemistry,” “Space Chemistry,” “ACS Award for Gender Equity in Chemical Sciences,” “Importance of Role Models & Mentors (in Honor of Judith Iriarte-Gross),” “Chemistry Through the Eyes of Non-Chemists: Evolution of the Public Perception of Chemistry,” and “Communicating Science in the Twenty-First Century to Diversified Audiences.”

Executive Director and Chief Executive Officer

ACS Executive Director and Chief Executive Officer Thomas M. Connelly stated he is pleased to report that the state of the Society is strong. He announced changes in the executive leadership team following the retirement of Denise Creech as head of the division of Membership and Scientific Advancement (M&SA). Kate Fryer has been hired as the new Executive Vice President for Membership. A new division, Scientific Advancement, has been formed from M&SA.

He said a variety of chemical safety-related engagements have been in motion this past year, as ACS included safety as a Core Value in its strategic plan and continues to embrace a bigger role in safety. The Education division is asking for assessment of safety as a factor during the approval process for ACS-approved programs.

Dr. Connelly reported that the Society is examining ResearchGate's treatment of publishers' copyrights when posting papers.

He announced that Microsoft recently informed ACS that the Society is no longer eligible for Microsoft charitable pricing discounts, and that steps to evaluate the implications of this decision are underway.

He concluded by referring members to the highlights of 2016 ACS achievements at www.acs.org/acshighlights2016.

Guest Presentations

Dr. Confalone introduced two special guest speakers who were invited to offer ‘TED type’ talks. Dr. Joseph M. DeSimone, CEO and Co-founder of Carbon, Inc.; Chancellor's Eminent Professor of Chemistry, UNC-Chapel Hill; and William R. Kenan, Jr. Distinguished Professor of Chemical Engineering at NC State University and of Chemistry at UNC, spoke on “Future Fabricated with Light: The Launching of Carbon.” DeSimone discussed developments at Carbon, Inc., since it unveiled its first commercial machine, the M1, and seven proprietary materials. He said Carbon's vision is a future fabricated with light, where traceable, final-quality parts are produced at scale with Continuous Liquid Interface Production (CLIP) technology. CLIP is a photochemical process that eliminates the shortcomings of conventional 3D printing by harnessing light and oxygen to rapidly produce objects from a pool of resin. From everyday products like tennis shoes and electronics, to industrial components, to highly customizable medical devices, CLIP makes it possible for creators to design the parts and products of the future. He gave an overview of the science behind the M1 product solution and Carbon's vision to accelerate the future of manufacturing.

Dr. Anne Milasincic Andrews, Professor of Psychiatry and Chemistry & Biochemistry; Semel Institute for Neuroscience & Human Behavior, Hatos Center for Neuropharmacology, and California NanoSystems Institute; University of California, Los Angeles, spoke on how “The Brain is More Than a Computer.” Andrews stated that neuroscience is at a crossroads, and despite efforts to decipher specific neural interactions, there are just a few general theories or principles that explain brain function. She briefly reviewed the neurophysiological and neurochemical approaches, and stated that nanoscience and

nanotechnology are poised to provide a toolkit of novel methods to explore brain function. Moreover, unique opportunities exist for nanoscientists, nanotechnologists, and other physical scientists and engineers to contribute to tackling the challenging problems involved in understanding the fundamentals of brain function.

Following the presentations, Dr. Confalone thanked the speakers for sharing their areas of research and special interests. The speakers remained afterward for several minutes to speak with members of the audience.

Before declaring the meeting adjourned, Dr. Confalone thanked all the participants and his colleagues on the Board for a successful meeting.

There being no further business, the meeting was adjourned at 1:05 p.m.

Flint H. Lewis, Secretary

**BOARD CHAIR'S REPORT
OF THE EXECUTIVE SESSION
ACTIONS AND DISCUSSION ITEMS
JUNE 2017**

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

The Board's Committees, Task Force and Working Group

- The Board of Directors received reports from its Committee on Strategic Planning, Committee on Professional and Member Relations (P&MR), the Committee on Corporation Associates, Committee on the Petroleum Research Fund (PRF), the Joint Board-CPC Task Force on Governance Design, and the Public Access and Diversity Stakeholder Working Group.
- The Committee on Professional and Member Relations announced the recipients of the 2018 Priestley Medal and the 2018 Award for Volunteer Service to the ACS. On the recommendation of P&MR, the Board voted to approve the Society's nominee for the 2018 Othmer Gold Medal Award, and to approve financial options for two ACS awards. As part of the report and discussion, the Executive Vice-President, Membership, shared data on trends in ACS industry membership and recruitment initiatives for industrial members for 2017.
- The Board received an update on the challenges and opportunities identified at the Committee on Corporation Associates' recent Strategy Retreat, and sought Board advice on the optimal future state of the committee and Corporation Associates.
- As announced at the spring meeting in San Francisco, the Public Access and Diversity Stakeholder Working Group was charged with advising the Board as to what public statement it should release in response to the "bathroom bills" (both the proposed law in Texas and the recent actions in North Carolina), given the Society's existing positions on diversity and inclusion. On the recommendation of the working group, and with support of the Committee on Public Affairs and Public Relations, the Board approved a statement entitled "Freedom to Meet without Limitations" for the American Chemical Society. Moving forward, the working group will advise the Board on the approach it should take as to currently scheduled and future meetings in states which have adopted or are considering adoption of such discriminatory legislation.
- The Board received an update from the Joint Board-CPC Task Force on Governance Design on its efforts to incorporate feedback received from its presentations to almost three dozen committees, caucuses, and other groups at the spring national meeting; to consider a design for a next-generation governance model that will help ACS to advance its Objects; to develop the case for effective change based on that model; and to provide a model and implementation road map to the Board and Council.
- On the recommendation of the Committee on the Petroleum Research Fund, the Board VOTED to approve ACS PRF Grants for Fundamental Research in the Petroleum Field.

The Executive Director and CEO Report

- The Executive Director and CEO and his direct reports updated the Board on the major challenges and projects facing the Society this year and recent updates since the spring meeting, and the activities of Chemical Abstracts Service (CAS), the ACS Publications Division, and the Society's General Counsel.
- The Board heard a report from the Executive Vice-President, Membership, on historical trends in ACS membership growth. The Board held a robust discussion on ways to continue to grow ACS membership, engage members, meet members' needs, and how to effectively communicate the value of membership and breadth of benefits to members around the world.

Other Society Business

- The Board VOTED to approve actions arising from the spring Council meeting: continuation of the Joint Board Council Committees on Chemists with Disabilities, on Public Relations and Communications, and on Women Chemists; the approval of amendments to the Bylaws on the Rights of Affiliates [Bylaw II, Sec. 1, a, 2, a, 3, b, (3) and (4)]; and ratification of Board interim actions.
- The Board heard reports from the members of the Presidential Succession on their current and planned activities for the remainder of 2017 and for 2018.
- On the recommendation of the Executive Directors and CEO, the Board VOTED to approve the reappointment of a member to the Governing Board of Publishing for a four-year term.

Pat N. Confalone
Chair, ACS Board of Directors

REPORT OF THE EXECUTIVE DIRECTOR

It is good to be hosting our 254th National Meeting in our Nation's capital, and our headquarters' city of Washington, DC. Our theme for this meeting is 'Chemistry's Impact on the Global Economy'. Our meetings are becoming more global, certainly from an attendance standpoint. A record 18,898 attended our San Francisco meeting, of which 18% (3,378) were international attendees. We expect this meeting to continue this trend.

ACS National Meeting Highlights

- The ACS National Meeting will feature two outstanding Kavli Foundation Lectures to be given on Monday, August 21, 2017, Ballrooms A&B at 4:00 p.m. and 5:15 p.m. Dr. Prashant K. Jain, from University of Illinois – Urbana Champaign, will present the Kavli Foundation Emerging Leader in Chemistry Lecture. Dr. Jain's lecture will highlight a bold venture into artificial photosynthesis accomplished through nanostructured catalysts engineered for trapping photons, sculpting electromagnetic fields, generating multi-electronic states, and ultimately forging energy-rich chemical bonds. Following Dr Jain, Professor Joanna Aizenberg from Harvard University, will present the Fred Kavli Innovations in Chemistry Lecture. Professor Aizenberg's lecture will introduce two new classes of materials that show the emergence of unprecedented properties and unique behaviors due to the entrapment of a liquid into a structured solid.
- We have a wonderful class of ACS Heroes of Chemistry, who will be honored on Sunday, August 20, 2017. The Heroes of Chemistry program recognizes scientists whose innovative work in chemistry and chemical engineering led to commercial products that benefit the world.

The following scientific teams will be honored:

- **Bristol-Myers Squibb:** Pioneered the development of direct acting antiviral agents that have produced hepatitis C cure rates of greater than 95 percent.
- **Corning Incorporated:** Invented ClearCurve[®] optical fiber, a revolutionary product which allows cabled optical fiber to be bent around very tight corners with significantly less signal loss than with traditional fibers.
- **DuPont Crop Protection:** Discovered DuPont[™] Zorvec[™], the first member of a novel class of fungicides to control diseases caused by oomycete pathogens.
- **Genentech:** Discovered and developed ERIVEDGE[®] (vismodegib), the first medicine to be approved for the treatment of metastatic or locally advanced basal cell carcinoma.
- **Merck:** Developed ZEPATIER[®], a prescription medicine to treat chronic hepatitis C infection in adults.
- **The Dow Chemical Company:** Developed AVANSE[™] acrylic resins and EVOQUE[™] pre-composite polymers to help make architectural paints greener and more economical.
- **Symposium on Chemical Safety**
President Campbell has assembled a very impressive lineup of presidential symposia. If I could draw attention to just one of them, I mention 'Building a Safety Culture Across the Chemistry Enterprise', scheduled for Monday, August 21, which is cosponsored by 20 ACS divisions and committees. Last December, the ACS Board took the important step of instituting Safety as an ACS Core Value. This step has further accelerated the commitment to safety across the Society, reflected in our programming as well as our activities. President Campbell's day-long symposium will feature speakers from industry, academia and government presenting both 'top-down' and 'grassroots' approaches to inculcating a safety culture.

Membership

As of May 31, 2017, the membership count was 152,850. This is 1,851 less than on the same date in 2016. We have 9,458 new members to date, which is 428 less than this time last year. The number of international members for May 2017 was 27,332. This is 1,422 more than in May of 2016. The May retention rate is 83.65%, which is almost 0.14% higher than May of 2016. The number of Graduate Student Members is 20,588, which is 624 more than May of 2016. We continue to see good growth potential in several groups (e.g., post-doctoral students, millennials, and certain sub-groups within the Industrial segment). Over the past year we have been emphasizing digital marketing and communications. We recognize the twin imperatives to personalize our Membership offerings, and to modernize and update our data management capabilities, so we are embarking in that direction. We have implemented a new modular survey system that will reduce the need for large numbers of members to complete surveys, and enable us to better forecast and predict member behavior and marketing effectiveness. Geographically, international members present a great opportunity, with a 5% increase over last year.

Global Programming

While we are very proud of our Federal Charter, and our history as a national organization, we recognize that the practice of chemistry is increasingly global. Our programming is evolving to embrace this new reality. As a result, this year ACS is sponsoring or cosponsoring a number of important conferences outside the U.S.

In July 2017, ACS completed the last of four Global Chemists Code of Ethics workshops which was held in Melbourne, Australia. Earlier this year, two other training workshops were held in Nairobi, Kenya and Rabat, Morocco. The original workshop was held in April 2016 in Kuala Lumpur, Malaysia where participants, including then ACS president-elect Allison Campbell, drafted the Global Chemists Code of Ethics which encourages chemists globally to define, detect and encourage responsible conduct in their field and deter questionable research practices. The workshops are funded via a grant from the U.S. Department of State's Chemical Security Program to ACS International Activities in association with the Pacific Northwest and Sandia National Laboratories.

ACS Publications, working with Chinese partners, is organizing two symposia in China during the second half of this year. ACS Publications will host [ACS Publications Symposium: Innovation in Energy Conversion](#) in Dalian, China from September 24-26, 2017 in partnership with Dalian Institute of Chemical Physics, Chinese Academy of Sciences and the Collaborative Innovation Center of Chemistry for Energy Materials (iChEM). From October 22-24, 2017, ACS Publications hosts [ACS Publications Symposium: Innovation in Molecular Synthesis](#) in partnership with the Shanghai Institute of Organic Chemistry (SIOC) and the Chinese Academy of Sciences.

The International Activities Committee (IAC) is sponsoring the ACS Asia Pacific Chapters Conference in Jeju, South Korea, November 5-8, 2017. The conference will bring together international chapters from 10 countries - Australia, Beijing, Hong Kong, India, Malaysia, Shanghai, South Korea, Southwest China, Taiwan, and Thailand. This inaugural ACS Asia Pacific International Chapters Conference provides an opportunity for ACS members and chemistry practitioners in the region to showcase their research, network with colleagues in the region, and provide a platform for career networking and professional development opportunities.

The call for papers and conference registration is now open for the Atlantic Basin Conference on Chemistry (ABCChem), a conference organized jointly by ACS, in collaboration with seven sister chemical societies and federations in Africa, Europe, Latin America, and North America <http://abcchem.org/>. 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 in the region and beyond. The conference will take place from January 23-26, 2018 in Cancun, Mexico. Targeted attendance for the inaugural ABCChem is approximately 500 attendees. With anticipated initial success of the event, the conference will convene every 5 years going forward. We extend special thanks to the leadership and members of the Northeast Region American Chemical Society (NERACS) and the ACS International Activities Committee (IAC) for their key role in conceiving the initial concept and early planning for this conference dedicated to science around the Atlantic.

Information Technology (IT)

Information Technology is critically important to ACS. It is the means by which the Society communicates with our membership, and it is also the route for ACS Publications and CAS to deliver their products to our customers. Not surprisingly, IT is an area where we must continue to invest in order to expand our offerings and to improve the user experience.

IT costs continue to be a challenge. At my last oral report to Council, I mentioned the aggressive tactics of Microsoft (MSFT) as they used the dominant market position to impose dramatic price increases on the Society. Although Windows™ has changed little in 20 years, MSFT uses its market strength to force conversions from Windows™ “the product” to Windows™ “the service”. Ironically, one of their strongest arguments for the conversion is cyber security. The susceptibility for Windows™ to attack necessitates frequent ‘patches’ issued by MSFT – ‘the service’.

For the Society, we recognize the need for constant vigilance in face of the cyber threats. Our recent hiring of Joe Greene as our first Chief Information Security Officer is just part of our response. We will incur additional expenses as we take further steps to enhance our IT security.

ACS Staff Organization

Late last year, we announced senior leadership succession, with Kate Fryer joining as lead for Membership, Mary Kirchhoff taking the lead of the newly-formed Scientific Advancement unit, and LaTrease Garrison was promoted to lead Education. We are now approaching six months with this new structure, and I am pleased to report that the new structure is having positive impact.

Kate is bringing fresh ideas to the membership challenge, drawing on her prior experience with the Society for Neuroscience. Mary is making good headway in defining the work of her new unit. We want to strengthen the ACS interface with the Technical Divisions and to support collaboration between divisions. LaTrease has brought new skills and her network from Membership to her new role leading Education.

A year ago, I mentioned that our streamline and simplify activities are not limited to our internal functions. We have recently turned our attention to finding ways to improve our delivery of Society programs to ACS stakeholders. Kate, Mary, and LaTrease are joining with ACS Secretary and General Counsel Flint Lewis, to examine ways to collaborate in the delivery of products, programs and services to our members. Our internal functions are working with our program offices in this effort.

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 June 2016.

21st Annual Green Chemistry & Engineering Conference (GC&E)

The GC&E conference was held on June 13-15, 2017 in Reston, VA. This year's theme was "Making our Way to a Sustainable Tomorrow", which focused on the making and manufacturing of chemicals and products. More than 500 registrants attended the conference, with 35% from industry, 28% from academia, 15% students, 9% NGO, 7% government, and 6% other.

There were over 40 technical sessions covering a variety of green chemistry and engineering topics, including bringing greener products to market, developing greener processes and syntheses, greener nanomaterials, greener plastics, biorenewable feedstocks, designing safer molecules, the circular economy, and the societal and educational benefits of green chemistry. Keynote lectures were delivered by William Feehrey, President, Industrial Biosciences at DuPont; Jillian Buriak, Editor-in-chief, *Chemistry of Materials*, and Professor of Chemistry, Canada Research Chair of Nanomaterials for Energy at the University of Alberta; and Paul Chirik, Editor-in-chief, *Organometallics*, and the Edwards S. Sanford Professor of Chemistry at Princeton University.

This year's GreenX plenary highlighted early-career women in green chemistry. The participants were nominated and selected by the advisory committee as Rising Stars in green chemistry and engineering. Other events include a full-day student workshop, the 7th Annual ACS GCI Industrial Roundtable Poster Reception, an exhibition hall, and unique networking opportunities.

Education and Outreach

- **ACS GCI Awards:** Financial awards, in recognition of student work and for travel to conferences and seminars, are available to students world-wide. This year eight students won awards and attended either the ACS National Meeting or the GC&E Conference to present their work.
- **Green Chemistry Challenge Awards & Reception:** ACS GCI recruited judges for the 2017 U.S. EPA Green Chemistry Challenge Awards and hosted the reception for this prestigious national award, which was held in conjunction with the Green Chemistry & Engineering Conference.
- **ACS Summer School on Green Chemistry and Sustainable Energy:** This year's summer school was held June 20-27 at the Colorado School of Mines. Fifty-three graduate students and postdoctoral scholars from the U.S., Canada, and Latin America participated in the program.
- **Green Chemistry Education Roadmap:**
 - The green chemistry Core Competencies have been reworked to highlight the chemistry connections and reordered to clearly articulate the context of green chemistry. These Competencies will serve as the foundation of the roadmap.
 - The ACS GCI partnered with the ACS Exams Institute to gather chemistry educators and green chemistry experts at the ACS National Meeting in San Francisco to begin building green chemistry into the Anchoring Concept Content Maps (ACCMs). Two workshops were held: one focusing on building out the 11th Big Idea in Chemistry, Systems Thinking, and a second focused on integrating green chemistry concepts into the published general chemistry and organic chemistry ACCMs.
 - ACS GCI has continued to support the Committee on Environmental Improvement's efforts to develop a supplement to the ACS Guidelines for Bachelor's Degree Programs on green and sustainable chemistry.
- **ACS GCI Website:** In 2016 there were 190,891 unique visitors to our websites, 14% more than in 2015, exceeding our goal of 185,000. These visitors viewed 526,917 pages, 16% more than in 2015, which also exceeded our goal of 500,000.

- **Webinars:** ACS GCI held a series of webinars through the ACS Webinars program on topics such as greener cosmetics, nanomaterials, and sustainable bioenergy systems.
- **Outreach:** Staff presented talks, organized symposia, and participated in a variety of conferences and events including ACS National Meetings, AIChE, Faraday Discussions, GC3 Roundtable, and the Korean Environmental Ministry.

ACS GCI Industrial Roundtables

- **Pharmaceutical Roundtable**
 - AbbVie, Biogen and Pharmaron joined the Roundtable, bringing the total membership to 18 companies.
 - Michael Kopach, Eli Lilly, and Frank Rochanger, Boehringer Ingelheim, were elected the new co-chairs.
 - The Roundtable awarded four Ignition grants to spur early research: 1) Zacharias Amara, Conservatoire National des Arts et Métiers, 2) Jeffery Byers, Boston College, 3) Dennis Hall, University of Alberta, and 4) Oana Luca, University of Colorado, Boulder. [The award winners were announced in C&EN.](#)
 - The Roundtable released three RFPs: “Increasing the Utility of Photoredox Catalysis in Medicinal Chemistry,” “Greener Peptide, Oligonucleotide and Antibody-Drug Conjugate Synthesis,” and a second round of Ignition grants.
 - In order to expand its influence and membership in India, the Roundtable held a conference in India, with support from the Green ChemisTree Foundation, on February 20-21, 2017. Following the conference, Roundtable members met with CEO's of various Indian Pharmaceutical companies.
 - In 2017 the Roundtable published “Sustainable Practices in Medicinal Chemistry Part 2: Green by Design” in ACS's *J. of Med. Chem.*
 - The Roundtable hosted a one-day symposium in Cambridge, MA with six speakers and a student poster session.
- **Chemical Manufacturer's Roundtable**
 - The Roundtable is leading an initiative to develop more energy efficient alternatives to separations, holding three workshops in support of fleshing out the AltSep Roadmap. Progress was presented at the AIChE national meeting and GC&E Conference. [C&EN covered work to date on this project in June 2017.](#) This work is supported by a grant from the Department of Energy (DOE) on high-performance modeling of separation technologies in support of a more sustainable and less-energy intensive chemical manufacturing.
- **Formulators' Roundtable**
 - The Roundtable elected new co-chairs Clement Choy, Seventh Generation, and Tobias Futterer, Johnson & Johnson Home Care.
- **Hydraulic Fracturing Industrial Roundtable**
 - New members include Blentech, Canadian Energy Services, and Innospec.
- **Biochemical Technology Leadership Roundtable (BTLR)**
 - The BTLR collaborated with the Delaware Sustainable Chemistry Alliance (DESCA) to hold a two-day conference, “Be the solution: bio-based & renewable chemicals” in Wilmington, Delaware in May 2017. Governor John Carney and Rep. Lisa Blunt Rochester addressed the 75 attendees, which included a variety of scientific and business leaders.

Kent Voorhees, Chair

DRAFT
MINUTES
COUNCIL POLICY COMMITTEE
AMERICAN CHEMICAL SOCIETY
San Francisco, California
April 4, 2017

The Council Policy Committee (CPC) of the American Chemical Society met in San Francisco, California, on April 4, 2017, beginning at 8:00 a.m. Chair Allison Campbell presided. Other voting members present were: Harmon B. Abrahamson, Lawrence Barton, Frank D. Blum, Karl S. Booksh, Mary K. Carroll, Thomas M. Connelly, Jr., Ella Davis, Peter K. Dorhout, Lissa Dulany, Lisa Houston, Donna J. Nelson, Sally B. Peters, Martin D. Rudd, 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, Rick Ewing, Joseph A. Heppert, Wayne E. Jones, Diane Krone, Les McQuire, Jason E. Ritchie, and Margaret J. Schooler. 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 2018-2020 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 23, 2016, meeting of the committee.

Report of Interim Action of the Council Policy Committee

4. CPC 2-2016. VOTED to elect Dr. Mary K. Carroll as Vice-Chair of the Council Policy Committee for 2017.

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.; Allison Campbell, Frank Blum (for Donna Nelson), Peter Dorhout, and Mary Carroll 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 April 5. 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 the Joint Board-Council Committees on Chemistry and Public Affairs, Science, Professional Training, and on Women Chemists; including reports on progress and recommendations resulting from their work during their sessions held in San Francisco, 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 April 5 Council meeting. All references in these minutes to Council actions and reports relate to the April 5, 2017 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, Chemistry and Public Affairs, Committees (ConC), Constitution and Bylaws, Divisional Activities, Economic and Professional Affairs, Local Section Activities, Membership Affairs, Meetings and Expositions, Nominations and Elections, and Women Chemists.

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 Committee on Budget and Finance.

8. VOTED that the Council Policy Committee authorizes the Chair of the Board of Directors and the Committee on Local Section Activities to place brochures or cards on the seats at the Council meeting, subject to reversal when CPC consider a policy prohibiting placement of items on the seats of Council later in this meeting.

9. VOTED that the Council Policy Committee concurs with the Committee on Budget and Finance's recommendation to Council that the 2018 dues be set at the fully escalated amount of \$171.

10. VOTED that the Council Policy Committee concurs with the Committee on Committees' recommendation that Council approve, subject to Board concurrence as to three committees, the continuation of four Council-related committees.

11. VOTED that the Council Policy Committee concurs with the Committee on Constitution and Bylaws' recommendation that Council approve revisions to the charter bylaws for International Chemical Sciences Chapters.

12. VOTED that the Council Policy Committee concurs with the Committee on Membership Affairs' recommendation that Council approve extension of the International Chapter Recruitment marketing test.

Report of the Council Policy Committee Vice-Chair

Vice-Chair Mary Carroll reported that she will not duplicate information that will come out of various subcommittee reports but provided an overview of the activities of the Board-CPC Task Force on Governance Design, which has been meeting with committees and caucuses at this national meeting and will serve as the subject of this meeting's Council Special Discussion. The task force has developed a short video on its activities, which might be shown at Council tomorrow, and will deliver a roadmap of its recommendations by the end of this year.

13. VOTED that the Council Policy Committee authorizes the co-chairs of the Board-CPC Task Force on Governance Design to present to Council with projected graphics on the special discussion topic "ACS Yesterday and Today: Paving the Way to Tomorrow" 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 the day before and discussed three petitions on the Council agenda (two for action and one for consideration). The subcommittee recommended: (1) that CPC endorse the petition for Removal of Officers and Councilors (noting that CPC had previously endorsed its accompanying procedures document, which is also before Council at this meeting for action); and (2) that CPC take no position on the Petition on the Rights of Affiliates. The subcommittee discussed the Petition on International Chemical Sciences Chapters but has no recommendation for CPC at this time.

14. VOTED that the Council Policy Committee, on recommendation of its Subcommittee on Petitions, Constitution and Bylaws, endorse the petition for Removal of Officers and Councilors.

B. Report of the Subcommittee on Long-Range Planning

Subcommittee chair Mary Carroll reported on the following actions by the subcommittee: Twenty-seven new Councilors, eight Alternate Councilors, 21 committee leaders, 10 mentors, and 5 staff members attended the New Councilor Orientation, which was held April 1. The participants gave the orientation an overall rating of 4.4 out of a possible 5 score. Earlier, a pre-national meeting webinar was hosted and 15 Councilors and 20 Alternate Councilors participated. The mentorship program continued this year and 26 ACS leaders volunteered to be mentors. Back 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. Those discussions have continued with representatives from other ACS committees. During the subcommittee's discussions, many comments were made, including the following: international members would like a voice at the table; whenever a new division is formed, there are fewer Councilors available for other divisions; ACS members may not be sufficiently aware of the current governance structure; we should seek input outside of Council on what our governance structure should look like; we could offer a tiered level of Council, perhaps with regional boards; we could consider a federation model; face-to-face versus virtual meetings is an important issue; and Council could be populated in a manner that is more representative of our membership.

C. Working Group on Handouts at Council

Working group chair Lawrence (Lol) Barton presented the group's report, which noted the contrast between the Society's efforts to be green and sustainable and the piles of paper and other items often left in the Council room at the end of a meeting. The working group defined handouts as being "materials or other items placed on the chairs at council to promote or highlight a committee program or activity" and considered 5 options before making its recommendation that handouts be placed at a table in the back of the room rather than on the chairs.

15. The Council Policy Committee VOTED, on recommendation of its Working Group on Handouts at Council, to make the following amendment to the "Handouts" section of the committee's Guidelines for Visual Presentations and Handouts and to retitle the document as Guidelines for Visual Presentations and Supplemental Material to Council:

Handouts-Supplemental Material

~~Handouts refer to materials or other items placed on the chairs at Council to promote or highlight a committee activity or program. The decision to use handouts should be made judiciously and serve to summarize major points of an oral report to reduce presentation time. Permission to use handouts should be requested at the meeting of the CPC Subgroup to review oral reports to Council. Copies of the handout should accompany the oral report submitted to the Governance office prior to the CPC meeting. If approval is given by CPC, the committee (coordinated by the staff liaison) is responsible for placing the items on the chairs once the Council meeting room is set. We suggest 600 copies for distribution.~~

Supplemental material refers to items intended as background for oral reports and not included in the Council agenda. It may consist of information accessible electronically, paper handouts, or promotional items (brochures, buttons, pins, etc.) intended to promote or highlight a committee activity or program.

In the interest of promoting good practices for sustainable meetings, the distribution of paper handouts at Council meetings is not allowed. Committee chairs are urged instead to include URLs and links to the materials in their oral reports and graphics. These links will be captured by staff and made available in the talking points issued to all Councilors after the meeting.

Permission to provide promotional items (brochures, buttons, pins, etc.) at Council should be requested at the appropriate meeting of the CPC Subgroup to review oral reports to Council. If approval is given by CPC, the committee (coordinated by its staff liaison) is responsible for placing the items on the table provided for this purpose at the entrance to the Council meeting room, where Councilors can obtain them during check-in. Arrangements are to be coordinated with the ACS governance staff. It is suggested that 500 copies/items be made available. The committee (coordinated by its staff liaison) is also responsible for retrieving any remaining materials at the conclusion of the Council meeting.

D. Joint Board-CPC Task Force on Governance Design

(This update was covered in Dr. Carroll's Vice Chair's Report.)

Summary of Councilor Travel Expenses

Dr. Campbell called attention to the Councilor travel reimbursement program summary for the fall 2016 national meeting and noted that it's in the committee's agenda. A committee member noted that the totals were inconsistent between the two listings of the number of Bylaw Councilors and the costs for Past Presidents. The Secretary promised the review the two columns.

Summary of Non-Councilor Travel Expenses

Dr. Campbell reported that the summary of travel expenses reimbursed for Non-Councilors was available in the agenda for the committee's information. She called on Assistant Secretary Frank Walworth who reported on a previous request from Non-Councilor committee chairs that they be eligible for a higher reimbursement level when they have to stay at the national meetings past their committee meetings to report orally at the Council meeting. Mr. Walworth said that providing these reimbursements would add \$9,000 to the annual cost of the Non-Councilor Travel Reimbursement program.

16. The Council Policy Committee VOTED, on a motion from the floor, to amend the Non-Councilor Travel Reimbursement to allow Non-councilor committee chairs who are delivering their committee's oral reports at Council to receive the full Councilor-level reimbursement for that meeting.

Vice chair Mary Carroll raised for discussion whether Non-Councilors who do not seek the full reimbursement at the Spring national meeting should be allowed to “carry over” the amount of that underage to the fall national meeting reimbursement limit. Dr. Campbell agreed to form a working group, chaired by Dr. Carroll, to review the issue of whether Non-Councilors should be allowed to carry over unused reimbursement amounts from a spring to a fall national meeting.

Schedule of Business Sessions

The following schedule of activities at the fall 2017 national meeting is the result of previous authorization by the Council Policy Committee:

Board of Directors:	Sunday, August 20
Council Policy Committee:	Tuesday, August 22
Council:	Wednesday, August 23

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

17. VOTED that the Council Policy Committee approves the Council Agenda, as amended to add the report of the Committee on Chemistry and Public Affairs for the April 5, 2017 meeting of the Council.

CPC and Council 2017 Budgets

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

Open Forum

Bonnie Charpentier asked if the committee was tracking the numbers of new ACS Councilors and was told that it was.

New Business

Dr. Connelly introduced the Executive Vice President of Membership, Kate Hawker Fryer, to the committee.

Dr. Campbell briefed the committee on how closed captioning will be implemented at the Council meeting tomorrow to assist those who have difficulty hearing the oral reports. The captioning will be shown on one of the two screens used at Council and will be placed in a location that shouldn't interfere with the projection of the PowerPoint presentations. Dr. Carroll noted the Committee on Chemists with Disabilities was pleased with this new accommodation and felt it would add to the quality of the meeting for some Councilors.

There being no additional new business or old business, the meeting was adjourned at 11:40 a.m.

Flint H. Lewis
Secretary

REPORT OF THE COMMITTEE ON COMMITTEES

At its meeting in San Francisco, CA, April 3-4, 2017, the Committee on Committees (ConC) approved its new vision and mission statements, as well as strategic goals created during its strategic planning retreat held in February. Out of this retreat, ConC formed a new subcommittee on Committee System and Structure. This subcommittee is charged with reviewing committee charges and strategic goals relative to the ACS Bylaws, vision and mission; along with identifying skills and expertise needed by members who wish to serve on ACS committees.

ConC also developed its recommendations for 2018 Chairs of the Council Standing and Other Committees for approval by the President-Elect in June 2017.

In Washington, D.C., the committee will bring forth a petition for consideration at the Council Meeting to amend the section of the ACS Bylaws relating to Society Committees. ConC 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 Washington, D.C., 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 Chemical Safety, Chemistry and Public Affairs, Community Activities, Environmental Improvement, Ethics, International Activities, Minority Affairs, Nomenclature, Terminology & Symbols, Professional Training, Publications, Senior Chemists, and Younger Chemists.

ConC will engage in a variety of recognition activities in Washington, D.C.: (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 23, 2017, ConC will recognize Councilors who will have served the statutory limit or have otherwise completed their service on committees at the end of 2017; 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 21, 2017, in the Marriott Marquis Washington, DC 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
 Michelle V. Buchanan
 Dee Ann Casteel
 D. Richard Cobb
 Alan B. Cooper
 Peter K. Dorhout
 Jetty L. Duffy-Matzner

Emilio X. Esposito
 Donna G. Friedman
 Bonnie Lawlor
 Zaida C. Morales Martinez
 Robert A. Pribush
 Carolyn Ribes
 Stephanie Watson

Flint H. Lewis, Staff Liaison

RECOGNITION OF SERVICE
Council Meeting, August 23, 2017

1. The following members will have served the statutory limit or have otherwise completed their service at the end of 2017 on the ACS governance committee shown below:

Douglas J. Sawyer	Divisional Activities
John A. Berg	Economic and Professional Affairs
Roger F. Bartholomew	Local Section Activities
Will E. Lynch	Meetings and Expositions
Ruth E. Tanner	Membership Affairs
Donna Neal	Technician Affairs
Arlene A. Garrison	Budget and Finance
John V. Clevenger	Education
Joan A. Laredo-Liddell	Education
Scott R. Goode	Chemical Safety
Elizabeth M. Howson	Chemical Safety
Carl Picconatto	Chemistry and Public Affairs
Robert A. Gates	Chemists with Disabilities
Todd E. Pagano	Chemists with Disabilities
Marilynn J. Sikes	Chemists with Disabilities
Judith A. Summers-Gates	Chemists with Disabilities
Ellene T. Contis	International Activities
Andrew H. Berks	Patents and Related Matters
Bob A. Howell	Professional Training
David E. Bergbreiter	Publications
J. Kenneth Poggenburg, Jr.	Public Relations and Communications
Laura S. Sremaniak	Women Chemists
Navneet Goyal	Younger Chemists
Bonnie Lawlor	Committees
Zaida C. Morales Martinez	Committees
Lawrence Barton	Council Policy
Lydia E.M. Hines	Nominations and Elections

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

James C. Carver	Constitution and Bylaws
Rick Ewing	Economic and Professional Affairs
Diane Krone	Education
Keith R. Vitense	Ethics
Anna G. Cavinato	Project SEED
Elizabeth M. Howson	Chemical Safety
John J. Johnston	Chemists with Disabilities
Madeleine Jacobs	Minority Affairs
Sadiq Shah	Patents and Related Matters
Thomas J. Wenzel	Professional Training
Laura S. Sremaniak	Women Chemists
Wayne E. Jones, Jr	Committees

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

Fifteen (15) Years

Anthony W. Addison	Philadelphia	(2003-2017)
Joe D. Allison	North Central Oklahoma	(1994-1996; 2002-2008)
	Northern Oklahoma	(2010-2011)
	Energy & Fuels	(2015-2017)
Georgia Arbuckle-Keil	Philadelphia	(2002-2010; 2012-2017)
Michelle V. Buchanan	Analytical Chemistry	(2003-2017)
Charles P. Casey	Ex Officio	(2003-2017)
Robert S. Cohen	Orange County	(2003-2017)
Peter K. Dorhout	Inorganic Chemistry	(1999-2001)
	Colorado	(2001-2009)
	Ex Officio	(2010-2012; 2017)
Jetty Duffy-Matzner	Sioux Valley	(2003-2017)
V. Michael Mautino	Pittsburgh	(2003-2017)
Michael J. Morello	Agricultural & Food Chemistry	(2003-2017)
Donovan R. Porterfield	Central New Mexico	(2003-2017)
David M. Singleton	Greater Houston	(2003-2017)

Twenty (20) Years

Linda Brunauer	Santa Clara Valley	(1998-2017)
Mary K. Carroll	Eastern New York	(1998-2017)
Alvin L. Crumbliss	North Carolina	(1998-2017)
Jurgen H. Exner	Environmental Chemistry	(1998-2017)
Donald K. Harriss	Lake Superior	(1995-2003; 2007-2017)
John M. Long	Rubber	(1998-2017)
Jeffrey A. Rahn	Inland Northwest	(1998-2017)
Keith R. Vitense	Wichita Falls-Duncan	(1998-2017)
Edel Wasserman	Ex Officio	(1998-2017)
Darrell G. Watson	Heart O' Texas	(1998-2017)

Twenty (25) Years

John E. Adams	University of Missouri	(1993-2002)
	Physical Chemistry	(2003-2012)
	Ex Officio	(2013-2017)
Paul S. Anderson	Medicinal Chemistry	(1991-1993)
	Ex Officio	(1996-2017)
Daryle H. Busch	Columbus	(1976-1978; 1986-1988)
	Ex Officio	(1999-2017)
James L. Chao	North Carolina	(1993-2017)
Warren D. Hull, Jr.	Eastern New York	(1993-2017)
Melanie J. Moser	Industrial & Engineering Chemistry	(1993-2017)
David P. Nalewajek	Western New York	(1993-2017)
Peter M. Schaber	Western New York	(1993-2017)

Thirty (30) Years

Frank D. Blum	South Central Missouri	(1988-2010)
	Polymer Chemistry	(2011-2016)
	Bylaw	(2017)

Forty-Five (45) Years

Gordon L. Nelson	Eastern New York	(1972-1976)
	Ex Officio	(1977-1985; 1987-2017)
Attila E. Pavlath	California	(1973-1990)
	Ex Officio	(1991-2017)

REPORT OF THE COMMITTEE ON NOMINATIONS AND ELECTIONS

During its spring meeting in San Francisco, 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 2018-2020. Information about the candidates and the elections appears under Item III of this agenda book. At the fall Council meeting in Washington, DC, N&E will announce the names of the candidates for the three Elected Committees of Council, and their photos will be projected on screen to assist Councilors with name recognition prior to voting.

Also at the spring meeting, N&E approved a change to the balloting process for national elections. Starting with the fall 2017 elections, electronic balloting will be the default method for all district and national offices, with paper ballots available only by voter request. Announcements of the change will be made in C&EN and other Society media, and specific information will be sent to all members eligible to vote prior to the fall 2017 balloting period.

On Sunday afternoon, August 21, N&E will present a moderated question and answer session that features candidates running for Director-at-Large 2018-2020. This Town Hall Meeting is designed to facilitate communication among candidates, Councilors and members. The forum begins at 4:30 p.m. in the Marriott Marquis 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 Walter E. Washington 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, 2019; Directors-at-Large, 2019-2021; and Directors, Districts I and V, 2019-2021.

N&E welcomes suggestions from Councilors of names of qualified members as potential candidates for all elected ACS offices. There will be 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 p.m., 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.

Les W. McQuire, Chair

Lisa M. Balbes
 Alan M. Ehrlich
 Mary K. Engelman
 Alan A. Hazari
 Lydia E. M. Hines

Amber S. Hinkle
 Roland F. Hirsch
 Neil D. Jespersen
 Thomas H. Lane
 C. Marvin Lang

Robert L. Lichter
 Mamie W. Moy
 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, April 1, 2017, to review the Society's 2016 financial performance. The Society ended 2016 with a net contribution from operations of \$23.8 million, on revenues of \$526.7 million and expenses of \$503.0 million. This was \$10.4 million favorable to the 2016 Approved Budget. After including the results of the Member Insurance Program, the Society's overall net contribution for 2016 was \$24.1 million, which was \$11.1 million favorable 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 2016 with unrestricted net assets increasing from \$163.3 million at December 31, 2015, to \$206.5 million at December 31, 2016. The year-end balance includes the aforementioned \$23.8 million net from operations, investment gains of \$15.2 million, and a \$4.2 million partial reversal of previously recorded accounting charges for the Society's underfunded postretirement benefit.

In other actions, the committee elected Dr. William Greenlee as Vice Chair and voted to recommend to Council that dues for 2018 be set at the fully escalated rate of \$171.00, an increase of \$5.00 versus the 2017 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 2018 New Program Funding and Program Funding Reauthorization Requests. The Subcommittee on Financial Impacts of Constitution & Bylaw Amendments reported on the financial impact of the two bylaw petitions up for action and the one bylaw petition up for consideration at Council. Lastly, the committee received a report on the actual 2017 expenses for the Society's postretirement benefit plans as compared to the expenses included in the 2017 Approved Budget.

Joseph Heppert, Chair

Bryan Balazs
William F. Carroll, Jr
Pat N. Confalone
Alvin L. Crumbliss
Peter K. Dorhout
Arlene A. Garrison
Kathleen Gibboney
William J. Greenlee
Sharon L. Haynie

Rigoberto Hernandez
Paul W. Jagodzinski
Andrew D. Jorgensen
Valerie J. Kuck
Willem R. Leenstra
Kristin M. Omberg
Joseph P. Stoner
Marinda Li Wu

Associates

Judith H. Cohen
Carol A. Duane
Janet M. 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 to during the San Francisco national meeting, and highlights significant accomplishments of the Society's education programs.

The task force creating the 2017 ACS Guidelines and Recommendations for the Teaching of Middle and High School Chemistry has drafted a revised document and will distribute to selected ACS committees and relevant stakeholders for review during summer 2017. The task force will report on its progress at the Washington, D.C. national meeting.

The American Association of Chemistry Teachers (AACT) ended May 2017 with a total of 4,314 members. Of this total, 88% are K-12 teachers of chemistry. In June, the fourth Dow & AACT Teacher Summit was held in the Philadelphia, PA area.

The ACS High School Chemistry Club program ended the 2016-2017 school year with 540 clubs, compared to 524 at the end of the 2015-2016 school year. More than 230 clubs have already renewed for the 2017-2018 school year.

Since launching in the fall of 2010, *middleschoolchemistry.com* has received nearly 11 million visits from 234 countries and territories. This represents an increase of nearly 3 million visits compared with the same time last year.

There are currently 19,433 undergraduate student members, compared to 19,645 in June 2016. There are currently 449 active student chapters (1,149 in total), with 30 international student chapters chartered. There were 20,609 undergraduate student members at year end, compared to 19,862 in December 2015. There are currently 513 active student chapters (1,123 in total), with 28 international student chapters chartered.

ChemIDP™ continues to be a highly-valued tool for graduate students and postdoctoral scholars. There have been over 1,850 logins to the web-based tool, and 11 workshops were held during the spring/early summer to increase use and understanding of the tool directed toward graduate students and postdoctoral scholars.

On June 6 - 21, the U.S. National Chemistry Olympiad study camp was hosted at the U.S. Air Force Academy in Colorado where twenty students worked to prepare for the international competition. At the conclusion of the camp, four high school students were selected to represent the U.S. in the 49th International Chemistry Olympiad in Nakhon Pathom, Thailand, which will be held on July 6-15. The students are Steven Liu of Monta Vista High School (California); Joshua Park of Lexington High School (Massachusetts); Harrison Wang of Hinsdale Central High School (Illinois); and Brendan Yap of Carmel High School (Indiana). Two alternates were also selected: Jeffrey Shi of Marcellus High School (New York) and Aniket Dehadrai of the Oklahoma School of Science and Mathematics.

Diane Krone, Chair

Iona Black
Simon Bott
John Clevenger
Deborah Cook
Milagros Delgado

Carmen Gauthier
Joan Laredo-Liddell
Matthew Mio
Jennifer Nielson
Joshua Pak

Susan Shih
Kristine Smetana
Donald Wink
Ellen Yeziarski

Associates

Jesse Bernstein
George Bodner
Sandra Bonetti
Jeremy Garritano
Tracy Halmi
Pamela Kerrigan
Irvin Levy
Richard Nafshun
Jane Nagurney
Samuel Pazicni
Laura Pence
Sarah Preston
Danae Quirk Dorr

Consultants

Michael R. Adams
MaryKay Orgill
Norbert J. Pienta

Staff Liaison: LaTrease Garrison

REPORT OF THE COMMITTEE ON SCIENCE

This report updates the Council on the Committee on Science (ComSci) activities since the ACS National Meeting in San Francisco.

ComSci is organizing a symposium on “Sustaining Water Resources: Environmental and Economic Impact” at the Washington, DC National Meeting. This symposium is featured as part of the Multidisciplinary Program Planning Group (MPPG) programming. The symposium, covering aspects of water purification technology and needs in locations around the world, will be held on Monday, August 21 in rooms 203 A/B in the Convention Center, beginning at 8:30 AM. In addition, ComSci is sponsoring the “Transformative Research & Excellence in Education Award” symposium on Monday, August 21 in room 155 in the Convention Center from 1:30-5:25 PM.

ComSci members have provided input to the writing teams on two policy statements: *A Competitive U.S. Business Climate: Innovation, Chemistry, and Jobs* and *Scientific Integrity in Public Policy*. ComSci will also offer comments on the draft policy statement on *Sustainability and the Chemistry Enterprise*. The Committee is expected to take action on all three statements in Washington.

On behalf of ACS, ComSci submitted a nomination for the National Medal of Science to the National Science Foundation in April.

Mark C. Cesa, Chair

Rudy M. Baum
Michael R. Berman
Steven M. Bonser
Matthew A. Fisher
Brian R. Gibney
Robin J. Hood

Martin G. Kociolek
Adam C. Myers
Tina M. Nenoff
Hessy L. Taft
Ralph A. Wheeler

Associates

Charles P. Casey
Marilyn Duerst
Diana J. Gerbi
Lewis Whitehead
Janet E. Nelson
Brian J. Walker
Dorothy J. Miller

Staff Liaison: Mary M. Kirchhoff

REPORT OF THE COMMITTEE ON MEMBERSHIP AFFAIRS

The Committee on Membership Affairs (MAC) continues its efforts to attract and retain members. More than 23,000 new members joined the Society in 2016, including 3,685 members recruited through the continuing success of the Member-Get-a-Member campaign. More than 50,000 members received gifts in recognition of their years of service to the Society, resulting in a renewal rate of 58.4% among these members. The ACS Insight Lab continues to provide an avenue for assessing the needs and opinions of members. Over 4,000 members have joined the Insight Lab with 2,638 active participants. MAC is considering strategies to better utilize the Insight Lab to serve our members. To add your voice to the conversation, visit www.acsinsightlab.com/joinnow.

In 2013, MAC began a series of market data collection tests. According to the current by-law provisions, the duration of any market data test is limited to a three-year period. MAC is required to report on the results of these tests annually. Several of the market test periods are now coming to a close, and MAC is actively collecting data from others.

1. In 2013, MAC launched a test extending the maximum benefit period of dues waivers for unemployed members from two to three years. This test was deemed a success and Council passed a bylaw in 2016 at the fall meeting in Philadelphia to make this change permanent.
2. ACS International Chemical Sciences Chapters (ICSCs) were challenged in 2013 to recruit new members, and a \$15 commission was offered for each new paid ACS member recruited. Since that test began, nine ICSCs have recruited 64 new ACS members. At the spring meeting in San Francisco, Council approved MAC's request to extend this test. This extension will enable MAC to collect a larger data set and track the retention of members gained through such incentives. Data collection will now continue through April 2019.
3. In November 2014, a campaign was launched to increase the number of reinstating Regular Members. As of December 2016, 576 members rejoined the Society as a result of this program.
4. Based upon the success of the introductory program in India, MAC approved a test to implement the World Bank model ranking of discounts in countries with an established International Chemical Sciences Chapter in 2016. Furthermore, as reported in San Francisco, MAC approved the merger of the India-specific testing with the broader global program to ease the tracking of membership data. The World Bank model allows for dues rate discounts of 50, 66 or 75%. Currently, the majority of ICSCs receive a discount of 50%. Following implementation of web-based membership applications and payment capabilities, the Society has increased international membership as follows: Australia (832), Brazil (352), China (2,579), Hungary (70), Malaysia (254), Nigeria (633), Peru (42), Romania (87), Saudi Arabia (226), South Africa (161), South Korea (784), Thailand (98), and the United Arab Emirates (61).
5. In 2016, MAC approved a framework for testing enterprise offerings to include memberships as part of institutional packages with other offerings of the Society. Such offerings include bundled packages that encompass not only ACS membership, but also professional education, publication subscriptions, and CAS products. Initially, the test markets included new and existing enterprise accounts within China, India and Brazil. However, these bundles have now been expanded to include the US and other strategic global targets. As of year-end 2016, the test accounted for the addition of 3,121 new members of the Society across sixteen nations. This testing is ongoing, and staff will continue to update MAC annually on the progress of these programs.
6. Finally, in 2016, MAC approved a test to discount dues by a percentage or dollar amount based on industry best practices as part of promotional offers for annual or multi-year dues packages. MAC has commissioned staff to report back on the efforts under this umbrella annually.

The Committee on Membership Affairs is dedicated to exploring the results and recommendations outlined by a 2016 working group on bylaw simplification. This group examined the practical aspects of implementing permanent bylaw changes for MAC tests with successful outcomes. With six tests, plus the evolving Enterprise Business Model initiatives, the number of potential bylaw changes is growing quickly. Representatives from MAC, the Committee on Constitution and Bylaws, and the ACS Secretary's Office are working to draft wording for the bylaws that would allow greater flexibility in the area of membership dues and categories for marketing purposes.

Margaret Schooler, Chair

Mary Anderson
Robert Cohen
Thomas Gilbert
Alison Hyslop
Judith Iriarte-Gross
Julie Jessop
Brian Mathes

Claude Mertzenich
Melanie Moser
Kevin Pate
David Singleton
Ann Sullivan
Ruth Tanner

Associates

Heather Abbott-Lyon
Alvin Bopp
Jeannette Brown
Eckhard Hellmuth

Staff Liaison: Francisco Gomez

FOR ACTION

Petition on International Chemical Sciences Chapters

Bylaw IX, Sec. 4

Petition

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

REVISED

VERSION

FOR

COUNCIL

ACTION

**Bylaw IX
International Chemical Sciences Chapters**

...
Sec. 4.

An International Chemical Sciences Chapter **may receive financial support** ~~shall receive no allotment of funds from the SOCIETY and shall not be entitled to elected representation on the Council.~~ A Chapter may assess local dues to be expended for its own purposes in harmony with the objects of the SOCIETY. (11/18/94)

Explanation

This section of the Bylaws was written more than twenty-five years ago when the concept of an International Chemical Sciences Chapter (ICSC) was created. It included financial and representation restrictions on ICSCs to see how they fit into an organization that operates thousands of miles away. The results proved successful, and it is time to bring these ICSCs closer to the Society. This amendment is the first step in that process. It would eliminate the financial and representation restrictions outlined in Bylaw IX. These changes would pave the way for various committees and task forces to determine and propose the conditions under which ICSCs could be helped financially and participate in the decision-making processes of the Society.

ICSCs have been part of the ACS for more than two decades. The first chapter was formed in Saudi Arabia by a number of ACS members, mostly Americans, who were working in the country and seeking to establish some type of group comparable to an ACS Local Section in the country. Since its inception, a number of local chemists have become ACS members and joined the group. This was followed by Hong Kong in 2000 and Hungary in 2003. Presently, there are 19 chapters operating on every inhabited continent of the world.

ICSCs are governed and operated in a manner similar to that of Local Sections. They have meetings and conduct numerous activities in their own areas benefitting chemists and chemical enterprises as well as the ACS. While total ACS membership rose by 0.6 percent in 2015, foreign membership increased by 3.85 percent. Each ICSC, with the exception of those in China, represent all ACS members located in their respective countries with memberships ranging from 50–250 members.

Currently, there are 9,108 ACS members represented by ICSCs, which is about one-third (1/3) of the Society's total international membership of 27,697.

International members are taking an active and increasing role in the Society. For example, the number of members belonging to at least one Division is 39.6 percent for international ACS members vs. 35.4 percent for ACS members in the United States. Moreover, the number of international members increased by 1,000 during the past three years, while the total membership of the Society declined by 1,800 members. This trend will likely continue in the future, and the Society's membership will become even more international.

As the globalization continues, the ACS must maintain its interaction with the international community of chemistry professionals if it wants to continue to be the premier scientific society in the world. ICSCs can play an important part in this effort. The removal of the financial and representation restrictions of Bylaw IX is the logical next step in welcoming these international members to play an even bigger role in the life and activities of our Society. This petition is signed by Past Presidents of the Society.

Signed:

Dr. Paul. Stanley Anderson	Dr. Ned D. Heindel	Dr. Brian Mandel Rushton
Dr. Thomas J. Barton	Dr. Nancy B. Jackson	Dr. Paul H.L. Walter
Dr. Ronald Breslow	Dr. Elizabeth Ann F. Nalley	Dr. Marinda P. Li Wu
Dr. Charles P. Casey	Dr. Attila E. Pavlath	

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

***Committee having primary substantive responsibility**

FINAL STATEMENT OF FINANCIAL IMPACT

The Society Committee on Budget and Finance has examined this petition and concludes that it will have no impact on the finances of the Society (\$0).

FINAL REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS

The Committee on Constitution and Bylaws and the petitioners agreed to remove "in some form" after "financial support" because the wording was not necessary and the removal of this text did not change the meaning and intent of the petition. International Chemical Sciences Chapters currently may receive financial support without making this Bylaw change. Removing the phrase, "shall receive no allotment of funds," does not entitle Chapters to receive an allotment. Also, by removing the phrase, "and shall not be entitled to elected representation on the Council," does not entitle Chapters to have Councilors; changes to a number of Constitution Articles and Bylaws would have to be made to permit this.

The Committee finds the revised petition to be legal and consistent with other provisions of the Society's documents.

A two-thirds (2/3) vote of Council is required for approval of amendments to the Bylaws. If approved by Council, the amendments will become effective upon confirmation by the Board of Directors.

Dr. James C. Carver
Chair

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.

To ensure that the committee is able to continue to meet its objectives in service of ACS members for years to come, a strategic planning retreat was held in April. The resulting output of revised mission, vision, goals, and objectives are being reviewed by the committee and it is likely that by the time of our Washington, DC oral report, we will be able to share more details.

In the last three years, the Chemical Professional's Code of Conduct (CPCC), the Academic Professional Guidelines (APG), and Professional Employment Guidelines (PEG) have all been approved by Council and adopted by the Board of Directors. CEPA recognizes that since the CPCC last underwent the revision process in 2015 and approval in 2016, the Society has continued to strengthen the position of safety in the totality of its prevailing documents. This committee is therefore committed to an expedited and rigorous review of all three documents, with particular focus on the CPCC, to ensure that safety is adequately addressed throughout. Any comments or feedback about the process or guidelines is appreciated at cepa@acs.org.

The ACS policy statement on Retirement Security is set to expire at the end of 2017. CEPA is presently reviewing its options on this statement. The committee plans to submit any recommended revisions to the ACS Board of Directors before year end for their consideration.

Layoffs continue to be a concern. To monitor and appropriately respond to these job actions, CEPA has worked with ACS staff to provide information to ACS Local Section leaders about ACS resources that may be available to them should a mass layoff occur in their section. The first such information sharing happened at the Leadership Institute in January. Any Councilors or Section Officers that do know of a layoff in their geography should contact careers@acs.org to discuss response options.

CEPA is also pleased to announce that the portfolio of online career service programming is sustainably expanding in 2017 with additional virtual events and workshops being offered online for ACS members. The response to date has been encouraging. While these programs will continue to be offered physically at various venues throughout the year, the increase in virtual opportunities will ensure that all ACS members will have access to these important member benefits regardless of where they live.

Changes were initiated for the ACS Career Fair at the Spring meeting in San Francisco and decade-long records were set for the number of publicly accessible booths, numbers of employers opting to recruit with a booth, private interview offices booked, and revenue for a Spring career fair. Due to the inaugural co-location of the fair with the exposition and the resulting increase in foot traffic, and the record number of employers opting for a public presence, it is estimated that meeting attendees in San Francisco had the most opportunities to speak to employers for any fair in recent memory. The fair revisions initiated in the Spring are continuing at the upcoming meeting in Washington, DC. All Councilors, ACS Leaders, Members, and meeting attendees are invited to visit the rejuvenated ACS Career Fair without the need for advanced registration for the event.

Following actions taken at the Spring ACS National Meeting, CEPA has convened a cross-committee working group to investigate if an ACS policy statement on the topic of immigration and work-related visas could be recommended to the ACS Board of Directors. The working group has representation from the ACS Committees on: Chemistry and Public Affairs, Corporation Associates, Economic and Professional Affairs, Education, International Activities, and Science. This working group has held initial

discussions and is presently examining how best to gauge the voice of ACS members to determine if a consensus position can be reached. Any comments on their efforts or on the topic of immigration and work visas should be sent to policy@acs.org.

At the spring meeting in San Francisco, CEPA reported on challenges with our existing member surveying techniques to gain information on the economic condition of ACS membership. In response, ACS has changed survey methodologies to improve data validity, reliability, and response rates. The new method called a modular survey is a shortened, personalized survey that is in the field continuously instead of a once a year process as was the previous case. Every quarter some questions are removed and others added. This new method increases the proportion of regular and newer members that complete the survey, and it also limits the number of “frequent responders” that can adversely impact survey results. At the upcoming meeting in Washington, CEPA will again be able to report to Council the unemployment and wage numbers for ACS members collected using this improved methodology.

Rick Ewing, Chair

John Berg
Peter Bonk
Melissa Betz Cichowicz
Dana Ferraris
Gregory Ferrence
Tiffany Hoerter
Allen Jones
Edmund King

Jan Kolakowski
James Landis
Katherine Lee
Michael Miller
Frank Romano
Anthony Serianni
Virginia H. Songstad
David Wallace

Associates

Lawrence Dennis
Valerie LaFitte
Rabin Lai
Richard Mullins

Staff Liaison: Steven R. Meyers

REPORT OF THE COMMITTEE ON MEETINGS AND EXPOSITIONS

The official attendance at the 253rd ACS National Meeting in San Francisco, CA, totaled 18,898. This was record attendance for San Francisco. The exposition in San Francisco had 430 booths with 285 exhibiting companies. More than 14,000 scientific contributions were made to the 253rd ACS National Meeting & Exposition in San Francisco, CA.

As part of M&E’s comprehensive sustainability plan, print copies of the program book for San Francisco were reduced and a limited number were available for sale. Stats show 2,466 program books were sold and the mobile app received 12,515 downloads with the online program accessed 17,408 times. In 2016, there were over 16,000 mobile app downloads (San Diego – 8,998 and Philadelphia – 7,004), a 25% increase in usership since 2015. In an effort to reduce paper use, printing costs and shipping emissions, we continue to encourage attendees to use the mobile app as an alternative to the printed program. To date, we have made a conscious effort to reduce printing whenever possible and have reduced our programs printed per attendee by more than 50% since 2011.

The Exposition Subcommittee confirmed that beginning in 2018, the Exposition’s booth fee will increase by \$100 and the schedule will remain the same for Sunday, Monday, and Tuesday. The Regional Meetings Subcommittee will investigate the feasibility of having the 2017 Regional Meeting Planning Conference (RMPC) during the 2018 Leadership Institute.

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 2018 national meetings be \$475.

After reviewing the National Meeting Study Group on Programming’s Future of National Meetings Report, M&E will work with DAC to further evaluate the following: monitor the impact of the immigration policy on technical programming participation; consider the elimination of Thursday technical programming; review overall meeting space and cost concerns; conduct a competitive analysis of the Exposition; improve the functionality of meeting mobile app, and evaluate Multi-disciplinary Program Planning Group MPPG’s mission of driving cross division collaboration. Further discussions will be held during the 254th ACS National Meeting & Exposition in Washington, DC.

M&E has prepared a request that the Board of Directors and the President of ACS send a letter to officials in the State Government of Texas indicating ACS’s intent to relocate the 2021 Spring National meeting, currently scheduled for San Antonio, if SB 6 (the bathroom bill) is adopted, because SB6 is in opposition to our Society’s commitment to diversity and inclusion.

Kevin J. Edgar, Chair

Arindam Bose
Matthew K. Chan
Gregory P. Foy
Robert J. Hargrove
Martha G. Hollomon
Warren D. Hull, Jr.

Silvia S. Jurisson
Kevin R. Kittilstved
Dale J. LeCaptain
Will E. Lynch
R. Daniel Libby
Martin D. Perry

D. Paul Rillema
Susan M. Schelble
Michael Singer
Frank J. Torre

Associates

Christine M. Aikens
James E. Duddey
Roger A. Egolf
Merle I. Eiss

Christian R. Goldsmith
Margaret S. Levenberg
Barry J. Streusand
Jeanette M. Van Emon

Staff Liaison: Robin R. Preston

REPORT OF THE COMMITTEE ON DIVISIONAL ACTIVITIES

The Committee on Divisional Activities (DAC) is working on a revised allocation formula it plans to bring to Council for action at the 2018 National Meeting in New Orleans. At this stage, the committee is attempting to integrate additional incentives for divisions to engage more actively both at ACS regional meetings, and also internationally.

DAC is working with staff to investigate ways to provide divisions with greater visibility on acs.org. DAC believes the current structure makes it difficult for website visitors to learn about divisions, particularly visitors who are unfamiliar with ACS.

On the related note of helping divisions increase their membership, DAC is also working with staff to investigate the feasibility of increasing from one to three the number of free - one-year - division memberships the Society offers to new members. DAC believes that this change, if it were to occur, will increase the percentage of new members who retain a division membership at the conclusion of their first year.

DAC continues to work with leadership of a proposed Division of Materials Chemistry. It is currently assessing the views of existing divisions, and will use that feedback to stimulate additional committee discussions on the matter during the Washington, D.C. National Meeting.

Rodney M. Bennett, Chair

Martin Abraham
Joe Allison
Michael Appell
Janet Bryant
Huw Davies
Semih Eser
John Finley
Mark Frishberg

John Long
Mary Ann Meador
Robert Moore
Mary Virginia Orna
Silvia Ronco
Douglas Sawyer
James Takacs
Dean Webster

Associates

Alan Elzerman
Jennifer Hollingsworth
James Kubicki
Graham Peaslee

Staff Liaison: John C. Katz

COUNCIL ACTION:
Request to form a new ACS Division of Space Chemistry

In 2016, the Committee on Divisional Activities (DAC) received a request to establish the Division of Space Chemistry. Since that time, the organizers of the would-be division met with the committee, and DAC shared key information on the proposed division with the leadership of all 32 existing divisions.

At this meeting, DAC will ask Council to act on the request from the organizers of the Division of Space Chemistry. After discussing the matter on several occasions, DAC voted to oppose the creation of this new division (8 opposed – 6 support). Justification for the opposition took several forms. The primary concern centered around a belief that the leadership of the proposed division was not sufficiently representative of the larger space chemistry community it hopes to serve. Other concerns included the absence of a compelling argument regarding the need for a new division, the viability of a division operating in this area of chemistry, and counter-productive competition for division memberships at a time when membership in several divisions is in decline.

Balancing that close DAC vote to oppose the creation of the Division of Space Chemistry, however, are the voting results from the divisions themselves. The divisions were asked to support, oppose, or take no position on the matter; the results of that vote appear below. As you can see, with nine divisions voting to support the new division, two opposing it, seven taking no position, and 14 not responding, DAC and the divisions the committee represents have different views on the merits of establishing this new division. Despite the opposition from DAC for the creation of the Division of Space Chemistry, the committee believes the general support of the divisions warrants asking Council to act on the matter.

Proposed Division of Space Chemistry

SUPPORTS

- 1 ANYL
- 2 BMGT
- 3 CHAS
- 4 COMP
- 5 GEOC
- 6 MEDI
- 7 ORGN
- 8 POLY
- 9 SCHB

OPPOSES

- 1 COLL
- 2 INOR

TAKES NO POSITION

- 1 AGFD
- 2 BIOT
- 3 CELL
- 4 FLUO

- 5 I&EC
- 6 PMSE
- 7 RUBB

NO RESPONSES RECEIVED

- 1 AGRO
- 2 BIOL
- 3 CARB
- 4 CATL
- 5 CHED
- 6 CINF
- 7 TOXI
- 8 CHAL
- 9 ENFL
- 10 ENVR
- 11 HIST
- 12 NUCL
- 13 PHYS
- 14 PROF

The leadership of the proposed Division of Space Chemistry provided rationale for why it should be established to DAC, which in turn, shared it with all 32 divisions. It was this rationale text, which appears indented below, that was provided to divisions to assist in their discussion and vote.

Why do we need a Division of Space Chemistry?

That one giant step for mankind took just a few minutes, but it was years of research based on chemistry which made it possible. If we want to really go to places where no one ever went before, we really have to enable even more developments combining various scientific research based on chemistry. Chemistry already is the key to characterizing our moon, the sun, and the other planets, or smaller objects in the solar system. Future exploration of space will require a deep understanding of chemical composition and reactivity of places to be visited, as any manned space mission must be carefully planned to accommodate the unique chemical conditions of the planet or moon, including atmosphere, if any, and composition of the surface and interior areas to be visited.

What is the goal of the Division of Space Chemistry?

In cooperation with other ACS Units, to play through symposia and discussions with appropriate organizations a leading role in:

- Identifying new solutions furthering long duration space flight and exploration.
- The creation of technologies, processes, and standards towards performing chemistry in primarily microgravity environments.
- Enabling new chemistry-based inventions that contribute to the economy.
- Educating and communicating with public policy makers and the general public about the importance of chemical research to further developments through space research.

Cooperation with Divisions

The success of addressing and solving space related problems requires close cooperation with various ACS Divisions. The following examples give some insight BUT NOT THE FULL LIST for the needed and planned cooperation

ENFL, FLUO, I&EC, INOR, PHYS, POLY, PMSE, RUBB for developing more powerful space vehicle, and rugged materials for them, space stations and colonies.

AGFD, AGRO, BIOL, CHAS, GEOC, TOXY, ENVR, MEDI for life conditions in space and colonies.

ANYL, BIOT, CATL, COLL, ORGN for chemical synthesis in space and colonies.

BMGT, CHAL, SCHB for the business and economic aspects of life in space and colonies.

What has chemistry done so far?

- Through astronomy using spectroscopy chemical composition of various heavenly bodies was determined.
- Chemistry made possible the determination of soil on the Moon and Mars.
- Special structural materials were created for space probes.
- Rocket fuels and compatible oxidizers were developed.

Exceptional opportunities waiting for realization

- *Exploiting unique conditions of space for chemistry*
- Studies into how the unique conditions of space (microgravity environment, vacuum, low temperature as examples) affect chemistry reactions and reaction mechanism.
- Exploration of chemistry to be performed using the extremities of space.
- *Chemical synthesis in space*
- Combining and adapting reactor, analytical, and purification systems towards performing chemistry safely in space.
- *Automated remote conducting of experiments*
- The ability to conduct experiments in space remotely from Earth.
- *Standardization of space chemistry*
- The standardization of technology, IT, and processes for operation in space.

Research and Technology Interest

The research and technology interests of the Space Chemistry Division are wholly centered on extending the boundaries of chemistry to enable new discoveries that meet the needs of industry and benefit humankind. The Space Chemistry Division is an interdisciplinary community, uniting engineers from different fields, scientists investigating both the micro-scale (biochemists), and macro-scale (space scientists). The harmonized work of the above mentioned experts will result in outstanding achievements that are likely to have a global impact and interest.

Research and technology interest within the Division

- Active use of the unique conditions of space (microgravity environment, high intensity UV, vacuum, low temperature as examples) for chemical reactions.
- Profiting from the unique discoveries of other fields related to space sciences.
- Combining and adapting reactors, analytical, and purification systems towards performing chemistry safely in space.
- To develop the ability to conduct experiments in space locally or remotely from Earth.
- To standardize all aspects of a chemistry laboratory for operation in space.
- Research into prolonging manned space missions through chemical conversion of waste products to useful and essential materials.
- Generation of on-demand pharmaceuticals and other chemicals in space.
- Utilization of natural resources on alien planets towards colonization.

International support

As the composition of the group requesting the formation of the Division shows, the interest is not limited to the United States. The signatures were quickly obtained from leading scientists from other countries. We already have over 100 ACS members who indicated to join the Division as soon as the probationary status will be approved and many more members will join within a short time. With the help of President Nelson plans are started to have a symposium at the 2017 Spring ACS Meeting in San Francisco. The Younger Chemists Committee and the Committee on Public Relations and Communication are sponsoring the symposium since the Division is not approved yet. We have secured already both domestic and foreign speakers.

Supporting scientists

As the composition of the group requesting the formation of the Division shows, the interest is not limited to the United States. The signatures were quickly obtained from leading scientists from other countries. We are certain that when a probationary Division will be approved many more members will join within a short time. Plans are started to have the first symposium at the 2017 Spring ACS Meeting in San Francisco.

Global network of prominent chemists interested in performing chemistry in space:

USA (in alphabetical order):

- Dr. Andrea Adamo, Zaiput
- Prof. Rigoberto Advincula, Case Western Univ.
- Prof. Aaron Beeler, Boston Univ.
- Dr. Stevan Djuric, AbbVie
- Prof. Frank Gupton, VCU
- Prof. András Guttman, Scripps Institute
- Prof. Klavs Jensen, MIT
- Dr. Daryl Sauer, Wisconsin Univ.

Europe (in alphabetical order by countries):

- Belgium: Prof. Christian Stevens, Ghent Univ.,
- France: Prof. Claude de Bellefon, Lyon Univ.
- Germany: Dr. Stefan Loebbecke, ICT Fraunhofer Institute, Prof. Holger Löwe, Mainz Univ.
- Hungary: Dr. Richard Jones, ThalesNano, Dr. Csaba Janáky, Szeged Univ.
- the Netherlands: Prof. Volker Hessel, Dr. Timothy Noel, Technical Univ., Eindhoven
- Switzerland: Dr. Ferenc Darvas, Flow Chemistry Society
- United Kingdom: Prof. Steve Ley, Dr. Claudio Battilocchio, Cambridge Univ., Prof. Thomas Wirth, Cardiff Univ., Dr. Mimi Hii, Imperial College

Africa:

- South Africa: Prof. Paul Watts, Nelson Mandela Univ.

Asia:

- Japan: Prof. Takehiko Kitamori, Prof. Shu Kobayashi, Tokyo Univ., Prof. Jun-ichi Yoshida, Kyoto Univ.

Australia:

- Prof. Michael Oelgemöller, James Cook Univ.

REPORT OF THE COMMITTEE ON LOCAL SECTION ACTIVITIES

The Committee on Local Section Activities (LSAC) is completing its review of the 2016 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 LSAC reviewer comments and to provide a response, if applicable.

LSAC received 25 proposals for the 2017 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 19 proposals for Bridging-the-Gap Grants. The 2017 theme for Bridging-the-Gap was new membership dues assistance. The awards of up to \$500 were offered to assist applying local sections with gaining new or retaining existing members by targeting a specific member audience for assistance in paying ACS membership dues. Proposals needed to include a specific event or program associated with granting membership dues in order to merit funding. Finally, LSAC has awarded \$1,800 to support a local section hosting an ACS Leadership Development System course in their local section.

LSAC is working on the Local Section Track for the Leadership Institute (LI) in January 2018. The LI, and the Local Section Track specifically, are very helpful to new section officers looking to better understand ACS services and structure, meet neighboring section officers, and hear dozens of tips for success. Timely reporting of Local Section election results helps LSAC to invite new local section chair-elects to the LI.

The committee also received a petition from the South Jersey Section to annex the unassigned and adjacent territory of Ocean County, NJ. LSAC approved the petition during the San Francisco national meeting. Since then, the South Jersey petition and LSAC's approval were shared with the councilors of all local sections neighboring Ocean County. If the petition is approved by Council in D.C., the annexation will be effective on October 31, 2017. The petition appears on page 94.

Local Sections that would like the assistance of LSAC are encouraged to email lsac@acs.org.

Jason Ritchie, Chair

Gary Anderson
Roger F. Bartholomew
Charles Cannon
Betty Jo Chitester
Eileen M. Dimauro
John Engelman, II
Connie Gabel

Tracy P. Hamilton
Barbara R. Hillery
Louise Lawter
Kathryn Louie
V. Michael Mautino
Gregory L. Milligan
W. Matthew Reichert

Paul J. Smith
Ellen B. Stechel
L. Kraig Steffen
Lorena Tribe
Elaine S. Yamaguchi

Associates

Satinder (Sut) Ahuja
Ludivina (Ludy) Avila
Jeanne Berk
John Z. Larese
Vinay C. Likhite

Beth Lorsbach
Julianne Smist
John A. Whittle
Justyna Widera-Kalinowska

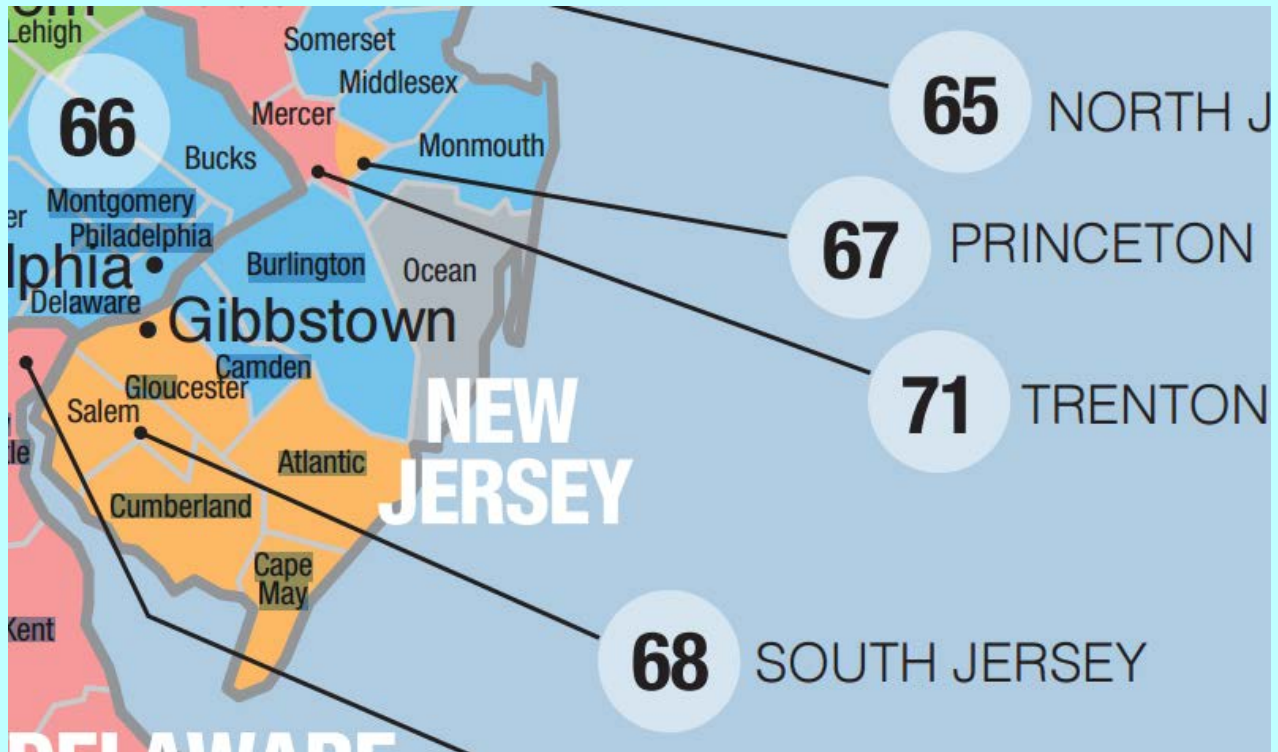
Staff Liaison: Debbie Fillinich

PETITION FOR CHANGE IN SECTION TERRITORY

South Jersey Local Section

The South Jersey Local Section requests approval for annexation of the unassigned territory of Ocean County, New Jersey.

During the Committee on Local Section Activities meeting in Boston in August 2015 there was discussion regarding the unassigned territory of Ocean County (New Jersey) and how to assist ACS members in this area with becoming affiliated with an ACS local section. The committee acted by revising its processes for the annexation of territories and invited sections in nearby New Jersey and Pennsylvania to express their interest in annexing the Ocean County territory by December 31, 2015. Two local sections, Princeton and South Jersey, responded. At its meeting in Philadelphia, in August 2016, LSAC determined that the members residing in Ocean County, which has a contiguous border with the South Jersey Local Section, would be better served by the South Jersey Local Section. Ocean County does not have a contiguous border with the Princeton Local Section. LSAC VOTED in favor of the petition at its meeting in San Francisco in April 2017.



REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS

The Committee on Constitution and Bylaws (C&B) will be meeting with petitioners of these petitions that are up for consideration at this meeting: Petition for Election of Committee Chairs and Petition on the Composition of Society Committees. Council will be voting on the Petition on International Chemical Sciences Chapters, which is up for action. Petitions, bylaws, and the ACS Governing Documents (Bulletin 5), updated as of July 1, are available at www.acs.org/bulletin5. The online edition of Bulletin 5 is the authoritative version.

C&B has certified ten bylaws since January. Since the spring Council meeting in San Francisco, CA, the committee certified six bylaws, including those for five Local Sections (Georgia, Rio Grande Valley, South Plains, St. Louis, and Wakarusa Valley) and one Division (BMGT). These and other certified bylaws can be found at the above link, along with bylaws status reports for Divisions and Local Sections. Further, model bylaws and the questions documents, in case you would prefer to answer questions instead of using the model bylaws, may also be found at that link. Both methods give the same results.

Forty-nine Local Sections, two Divisions, and one International Chapter have not updated their bylaws in twenty years or more. We encourage you to use the model bylaws or the questions document to update your bylaws. Contact C&B at bylaws@acs.org if you need help.

ACS members are invited to attend C&B's open meeting on Sunday, August 20, 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 petitions and other committee-related matters. If you have any questions or comments and are unable to attend this meeting, please send your email to bylaws@acs.org.

The petition deadline for new petitions to amend the Constitution and/or Bylaws must be received by the Executive Director (bylaws@acs.org) **by November 29** to be included in the Council agenda for the spring 2018 meeting in New Orleans, LA. C&B urges individuals to send the draft petition to C&B before starting to collect signatures so that the committee can assist with petition requirements and wording, and ensure that the petition is in accordance with the ACS Governing Documents.

James C. Carver, Chair

V. Dean Adams
Brian B. Brady
David S. Crumrine
Stan S. Hall
W. Gary Hollis, Jr.

Hiroko I. Karan
Svetlana Korolev
Virgil J. Lee
John M. Long
Steven Trohalaki

Blake Vance
Paul F. Vartanian
Doris L. Zimmerman

Associates

Dwight W. Chasar
Anthony F. Sky
John Tierney

Staff Liaison: Barbara F. Polansky

Please attend the open meetings of any of the following committees to discuss this petition, ask questions and/or hear comments. This petition has not yet been referred to the ***Committee on Committees**, Council Policy Committee, Society Committee on Budget and Finance, Society Committee on Education, and Committee on Constitution and Bylaws. (***Committee with primary substantive responsibility**)

For more information see www.acs.org/bulletin5 (click on petitions) or contact bylaws@acs.org. The deadline for written comments is September 22, 2017.

ORIGINAL

FOR CONSIDERATION

Petition on the Composition of Society Committees

Bylaw III, Sec. 3, e, (3), (4), and (8)

Petition

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

**Bylaw III
Council**

Sec. 3

Committees of the Council

...

e. Society Committees

...

(3) The Chair of each Society Committee shall be ~~a voting Councilor and~~ appointed jointly by the President and the Chair of the Board, with the advice of the Committee on Committees, for one calendar year, each individual being limited to three successive one-year terms as Chair of the same Committee. However, a Chair shall continue to serve until a successor has been appointed. (~~1/1/78~~)

(4) Each Society Committee annually shall elect one of its members ~~who is a voting Councilor~~ to serve as Vice-Chair. (~~1/1/82~~)

...

(8) Appointees shall be selected such that at the time of appointment ~~the Chair and at least two-thirds (2/3) of each Society Committee~~ **a majority of the members** are qualified voting Councilors. (~~1/1/78~~)

Explanation

Society Committees, which are the Committee on Budget and Finance (B&F), and the Committee on Education (SOCED), are composed of Councilors and non-Councilors. Committee appointments are

made adhering to the requirement that two-thirds (2/3) of the committee members are qualified voting Councilors. The Society's Bylaws also require the Chair and Vice-Chair of Society Committees to be Councilors.

B&F requires members with significant budget and financial experience and expertise. SOCED strives for a balance of members with expertise across many facets of chemical education. They include chemical education researchers as well as active educators at four-year colleges and universities, graduate schools, two-year colleges, and high schools. Councilors who are educators at two-year colleges or high schools are few in number.

To comply with the Society's Bylaws, it is not unusual for an active, contributing member of a Society Committee to be removed from the committee member roster as a result of a change in status from Councilor to non-Councilor. It is also not unusual for a non-Councilor to be removed from the committee member roster because of another committee member undergoing a change in status from Councilor to non-Councilor.

This petition changes the Councilor requirement of Society Committee members from at least two-thirds (2/3) to a majority in order to provide for greater flexibility in member appointments and continuity of committee membership.

Number of committee members	Minimum number of Councilors required by current Bylaws	Minimum number of Councilors required by this petition
12	8	7
13	9	7
14	10	8
15	10	8
16	11	9
17	12	9
18	12	10
19	13	10
20	14	11

This petition also removes the Councilor requirement for the Chair and Vice-Chair of a Society Committee. Committee members with expertise and strong leadership abilities should not be disqualified to serve as Chair or Vice-Chair because of status as a non-Councilor.

Signed:

Dr. Christopher J. Bannochie	Dr. Alan B. Cooper	Dr. Wayne E. Jones, Jr.
Dr. Iona Black	Dr. Milagros Delgado	Ms. Diane Krone
Dr. Mitchell R.M. Bruce	Dr. Donna G. Friedman	Ms. Bonnie Lawlor
Dr. Dee Ann Casteel	Dr. Carmen Gauthier	Dr. Carolyn Ribes
Dr. Bonnie A. Charpentier	Ms. Kathleen Gibboney	Ms. Susan M. Shih
Dr. Deborah Cook	Dr. Joseph A. Heppert	

(This petition has been referred to the ***Committee on Committees**, Council Policy Committee, Society Committee on Budget and Finance, Society Committee on Education, and Committee on Constitution and Bylaws.)

***Committee having primary substantive responsibility**

PRELIMINARY STATEMENT OF FINANCIAL IMPACT

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

PRELIMINARY REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS

The Committee on Constitution and Bylaws has reviewed the petition and finds it to be legal and not inconsistent with the Constitution of the SOCIETY. The proposed Bylaw amendment accomplishes the petitioners’ goal of not requiring that the Chair and Vice-Chair of Society Committees be voting Councilors. The petition also reduces the number of voting Councilors as members of Society Committees, from at least two-thirds (2/3) to a majority, for greater flexibility in member appointments, especially those with needed expertise.

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

Dr. James C. Carver
Chair

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

For more information see www.acs.org/bulletin5 (click on petitions) or contact bylaws@acs.org. The deadline for written comments is September 22, 2017.

ORIGINAL

FOR CONSIDERATION

Petition for Election of Committee Chairs

Bylaw III, Sec. 3, c, (1); d, 3, (3), (8); e, (3), (8); g, (3); i (3)

Petition

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

**Bylaw III
Council**

Sec. 3

Committees of the Council

...

c. Committee on Committees

(1) The duties of the Committee on Committees shall include:

(a) acting for the Council in the selection of Council-related SOCIETY bodies by assisting and advising in the appointment of the ~~chairs and~~ members of such SOCIETY bodies; (~~6/10/78~~).

...

(e) appointing members to fill vacancies that have existed longer than sixty days on Council-related SOCIETY bodies whose members ~~or chairs are~~ normally appointed by the President; (~~9/15/78~~)

(f) participating as members of a group which acts to fill vacancies that have existed longer than sixty days on Council-related SOCIETY bodies whose members ~~or chairs~~ are normally appointed jointly by the President and the Chair of the Board; all members of the Executive Committee of the Board of Directors who are not appointing authorities comprise the other members of said group. (~~9/15/78~~)

d. Standing Committees of the Council

...

(3) The Chair of each Standing Committee shall be ~~appointed by the President, with the advice of the Committee on Committees,~~ **elected by the voting members of said Committee** for one calendar year, each individual being limited to three successive one-year terms as Chair of the same Committee. (11/19/74)

...
(8) ~~The Chair and other~~ **Members** of each Standing Committee must be qualified voting Councilors when appointed. If any member of a Standing Committee becomes disqualified, that member shall be dropped and a vacancy declared, except that the President may postpone until the end of the calendar year dropping from the Committee a Councilor so disqualified and the simultaneous declaration of a vacancy if such postponement will significantly benefit the operations of the Committee. (6/8/91)

e. Society Committees

...
(3) The Chair of each Society Committee shall be a voting Councilor and shall be ~~appointed jointly by the President and the Chair of the Board, with the advice of the Committee on Committees,~~ **elected by the voting members of the same Committee** for one calendar year, each individual being limited to three successive one-year terms as Chair of the same Committee. However, a Chair shall continue to serve until a successor has been appointed. (11/78)

...
(8) Appointees shall be selected such that ~~at the time of appointment the Chair and~~ at least two-thirds (2/3) of each Society Committee are qualified voting Councilors. (11/78)

...
g. Other Joint Board-Council Committees

...
(2) The Chair of each Other Joint Board-Council Committee shall be ~~appointed jointly by the President and the Chair of the Board, with the advice of the Committee on Committees~~ **elected by the voting members of the same Committee** for one calendar year, each individual being limited to three successive one-year terms as Chair of a given Committee. However, a Chair shall continue to serve until a successor has been ~~appointed~~ **elected**. (3/1/79)

...
i. Other Committees of the Council

...
(3) The Chair of each Other Committee shall be ~~appointed by the President, with the advice of the Committee on Committees~~ **elected by the voting members of said Committee** for one calendar year, each individual being limited to three successive one-year terms as Chair of a given Committee. However, the President may waive this three-term limit in specific instances. A Chair shall continue to serve until a successor has been ~~appointed~~ **elected**. (11/12/87)

Explanation

The petitioners propose changes to the ACS's Bylaws to allow the voting members of all ACS Committees to select their own Chairs. The members of the Committees have the career and ACS experience as well as the judgment to select their own Chairs. This will free up the President, the Chair of the ACS Board, and the Committee on Committees to focus on priorities only they can

deliberate and act upon. The proposed Bylaw changes will also make the Society, in a small way, more representative and democratic, and less bureaucratic.

Signed:

Dr. Peter J. Bonk	Ms. Mary K. Engelman	Dr. Mary Jane Shultz
Dr. Mukund Chorghade	Dr. Sheila Kanodia	Dr. Kristine S. Smetana
Dr. Mary E. Dery	Ms. Jackie J. O'Neil	Dr. Ann M. Sullivan
Dr. Harry J. Elston	Dr. Mary Virginia Orna	Ms. Jane V. Thomas
Dr. John Engelman II	Dr. Roger Alan Parker	

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

***Committee having primary substantive responsibility**

PRELIMINARY STATEMENT OF FINANCIAL IMPACT

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

PRELIMINARY REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS

The Committee on Constitution and Bylaws has reviewed the petition and finds it to be legal and not inconsistent with the Constitution of the SOCIETY. The proposed Bylaw amendment accomplishes the petitioners’ goal of allowing voting committee members the right to elect their own chairs, instead of this being done jointly by the President of the Society and the Chair of the Board of Directors, with advice from the Committee on Committees.

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

Dr. James C. Carver
Chair

A. Analytical Reagents

The Committee on Analytical Reagents (CAR) convenes in formal session twice annually, each October and April, at ACS Headquarters in Washington D.C. Meetings are scheduled for two days, which consist of full committee meetings and various subcommittee meetings. The committee currently consists of four subcommittees: the Organic Subcommittee; the Inorganic Subcommittee; the New Reagent Subcommittee and the Validation Subcommittee. The most recent Analytical Reagents Committee meeting was held April 19 and 20, 2017.

2017 has been a year of major leadership transition for CAR. Paul Bouis, CAR Chair for more than 20 years resigned from his position and Tom Tyner, former CAR Co-Chair and Inorganic Subcommittee Chair is now the acting committee chair. Bob Hauserman, the CAR Staff Liaison for over the past 10 years retired from the ACS and Elizabeth Hernandez has been appointed the new Staff Liaison for CAR. Tom Tyner's appointment to CAR Chair opened the position of Inorganic Subcommittee Chair and Robert Kramer has been appointed to fill that vacancy.

The hard copy of the 11th Edition of *Reagent Chemicals* was published and became official as of June 2017. The electronic version of *Reagent Chemicals* was released on March 1st, 2017 with the tremendous effort and innovation ACS Publications. The ACS Publication team, led by Michael Woodruff, created a state of the art platform for *Reagent Chemicals* to become a "living publication" where updates/revisions/new additions can be instantly uploaded. This new format will also provide a complete audit trail of all changes providing a detailed timeline of changes and an explanation of why a change occurred. Initial feedback from users of the electronic version of *Reagent Chemicals* has been extremely positive.

The committee continues to work on the introduction of new technology to its existing and new methods of analysis and introduce monographs for new reagents that are required by laboratories worldwide. The greatest challenge the committee currently faces is its access to laboratory resources. Committee members are finding it more and more difficult to perform committee-related work in their company's laboratories due to the fact these companies are looking very closely at cost related issues in their laboratories. The committee must come up with creative ideas to help entice companies to support the analytical needs of CAR.

Tom Tyner, Chair

Subhra Bhattacharya
Rachel J. Blankenship
Louis E. DuPont
James N. Francis
Kenneth J. Herwehe
Michael Jeitziner
Robert W. Kramer

Huifang Lang
Avrom C. Litin
Tom J. Mancuso
Nelly N. Mateeva
Rajendra V. Mehta
Mary Beth O'Donnell
Richard J. Petroski

Nancy S. Simon
Robert Thomas
Tom Tyner
Shyam K. Verma
Wayne C. Wolsey

Associates

Eric Bosch
Norman A. Johns
Terrence A. Lee

Parul Modi
Pat Nandakumar

Consultant

Paul A. Bouis

Staff Liaison: Elizabeth Hernandez

B. Chemical Abstracts Service
(joint with Board)

The 2016 Committee on CAS (CCAS) report to Council described intentions to re-establish the committee's mission and set clear strategy and goals for the near future. An important opportunity exists to align with the current ACS Strategic Plan, with information provision as its number one goal, and to establish a working partnership with CAS similar to the partnerships in effect between other ACS committees and their associated staff units. To that end, on April 28-30, 2017 CCAS held a strategic planning retreat led by ACS Leadership Development System (LDS)-trained facilitators with representation from CCAS, CAS, and additional ACS members with experience in chemical information and ACS governance. Input was invited from attendees and additional stakeholders regarding ways in which CCAS and CAS could further serve members and fulfill the ACS mission, with CCAS as the responsible ACS body for ensuring ongoing input and feedback on these and future member-driven priorities.

It is important for CCAS and its stakeholders to do this hard work because a major differentiator for ACS with respect to other scientific societies is the engagement and commitment of our members through committees such as CCAS. ACS signature programs such as National Chemistry Week, ChemLuminary Awards, and Project SEED were conceived and implemented and continue to operate as a result of the combined contributions of members and ACS staff.

CAS has independently established or pursued a number of goodwill, or mission-related initiatives, which target the general population, the chemistry community, or ACS members in particular. These include:

- Creation with Wikipedia of the free resource Common Chemistry (commonchemistry.org), which includes names and CAS Registry Numbers for approximately 7,900 common chemicals
- Participation with the Membership and Publications Divisions in the "ACS on Campus" program, through which domestic and international colleges and universities are visited while offering in career development and planning; the publishing process; research resources such as SciFinder and ACS journals; and professional networking and scientific communication
- Establishment of the SciFinder Future Leaders program that annually hosts approximately 25 Ph.D. students and postdoctoral researchers for one week at CAS Headquarters and the Fall National Meeting
- Establishment of the ACS Member SciFinder Benefit, which provides 25 free searches per year

These activities demonstrate the potential of ACS and CAS products to impact the broad scientific community, but like other ACS committees, CCAS can use the insight of members and active volunteers to suggest new activities and help extend the reach of existing activities. It is interesting to consider, for example, how CCAS could partner with CAS and committees and technical divisions across ACS to contribute to important programs such as National Chemistry Week and regional meetings. Through such outreach, the committee could highlight the value of authoritative chemical information to professional chemists, students, and the general population. Information is integral to chemistry, and CAS is an integral part of ACS. CCAS encourages ACS Councilors and members to share their ideas for partnering within ACS to advance our ACS mission and the number one goal, to provide information to support better, smarter, faster, and safer decisions.

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C. Chemical Safety
(joint with Board)

MEETING OF THE SAFETY ADVISORY PANEL

On June 1-2 the Committee on Chemical Safety (CCS) Safety Advisory Panel met with a number of ACS staff members to discuss ACS Safety Web presence development plans, opportunities in promoting chemical safety in educational situations that occur outside lab facilities (public demonstrations, YouTube videos, outreach activities) as well as the Resource Conservation and Recovery Act (RCRA) challenges to smaller research laboratories. The group also discussed ACS involvement in the Laboratory Chemical Safety Summary (LCSS) project and the Pistoia Alliance Chemical Safety Library. The LCSS in PubChem contains pertinent chemical hazard and safety information for a given PubChem Compound record. The Pistoia Alliance Chemical Safety Library project is dedicated to sharing previously inaccessible hazardous reaction information in the interest of increased laboratory and personal safety across the chemical industries. Previously, this information may only have been available within the company where the incident occurred. The Pistoia Alliance has now developed a data submission tool to capture, store and search such hazardous reaction information, and it's free to use.

SAFETY IN ACADEMIC LABORATORIES (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 committee has finalized 8th edition titled *Safety in Academic Chemistry Laboratories. Best Practices for the First- and Second- Year University Students*. The new edition includes new sections on safety culture, changes in the OSHA Hazard Communication Standard to reflect the use of the Globally Harmonized System (GHS), and additional reorganization. The booklets can be purchased through the ACS online store or downloaded as the PDF from the ACS website. The 8th edition is being translated into Arabic. The committee will discuss the feasibility of additional translations at the national meeting in DC with members of the Committee on International Activities and the ACS International Activities staff.

ENGAGING COMMUNITY IN THE CONVERSATIONS ABOUT ACS SAFETY EDUCATION GUIDELINES

The committee hosted a community safety lunch during the 2017 San Francisco national meeting which was attended by over 100 faculty members. During this lunch the committee members engage the community in discussion about the recently published *Guidelines for Chemical Laboratory Safety in Academic Institutions*. The discussions focused around the following questions:

- **Content:** Are the guidelines helpful, and are there any clarifications needed, to help you incorporate safety education into your curriculum?
- **Implementation:** How are (or will) the guidelines being implemented to incorporate safety education into your curriculum? What steps have you already taken to implement safety education into your curriculum and to strengthen your safety culture?
- **Challenges/Barriers:** What challenges/barriers have you encountered (or anticipate) in implementing (or planning to implement) these guidelines. How did you overcome these challenges/barriers?
- **Resources:** What resources are available to implement these guidelines? Are there additional resources that you might want ACS to develop to assist you in your efforts to implement safety education into your curriculum and to strengthen your safety culture?
- **Development:** Are there unmet needs for professional development of faculty/staff in the area of safety education/chemical safety that should be addressed?

The feedback received during this lunch will guide the committee to develop tools related to the guidelines.

ACS WORKSHOP TO DEVELOP GUIDANCE FOR SUPPORTING SAFER CHEMISTRY IN SECONDARY SCHOOLS

The committee with collaboration from the ACS Education Division staff developed and conducted a workshop with representatives of various ACS groups involved in chemical safety at the secondary level. The workshop had the following goals:

- Establish connections among various ACS groups involved in chemical safety at the secondary level and exchange information
- Develop understanding about the safety education needs of high school teachers
- Identify strengths, challenges, and opportunities related to current ACS chemical safety resources (tools, programming and documents).
- Develop a plan for next steps.

The workshop took place on February 25 in Washington DC and representatives from American Association of Chemistry Teachers (AACT), CCS Safety Advisory Panel, DivCHAS, Division of Chemical Education, ACS Education, and ACS Web Strategy participated in very vibrant discussions about how ACS can support and contribute to creating safety cultures in high school education. As the result of the workshop a new working group has been established to create new tools that would enable teachers to integrate guidelines recommendations into the high school curricula.

SAFETY PUBLIC POLICY STATEMENTS

Members of CCS, DCHAS and ACS public policy staff developed two public policy statements regarding safety. *Safety in the Chemistry Enterprise* is targeted at regulators and policymakers to address the Society's position regarding laws and regulations concerning chemical safety issues. This policy statement was presented and accepted by the ACS Board of Directors. *Safety Guidelines for the Chemistry Professional – Understanding Your Role and Responsibilities* establishes guidelines for the ACS Membership and other interested parties on behalf of the community of safety professionals within ACS. The writing team has completed its task of generating a public policy statement and the final draft has been presented to the ACS Committee on Chemical Safety for its comments and approval during the San Francisco meeting. The comments received have been incorporated and the final document will be posted on the website before Washington DC meeting.

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D. 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.

Highlights for the Washington, DC national meeting are as follows:

CWD Travel Award for 2017 Fall National Meeting CWD has a new travel award. Its first offering is for the Washington, DC national meeting to get it off the ground and running. The purpose of the ACS-CWD (American Chemical Society – Committee on Chemists with Disabilities) Travel Award is to encourage the participation of undergraduate/graduate students and post-docs with disabilities who will present a talk or poster at the Fall ACS National Meeting. Up to \$3,000 will be awarded per recipient. The application deadline was June 29, 2017.

2018 AAAS Award for Public Engagement in Science The AAAS Award for Public Engagement with Science recognizes scientists and engineers who make outstanding contributions to the "popularization of science." CWD will consider nomination for the award for the committee's project, Chemists with Disabilities Travelling Posters that are displayed at each national meeting. These posters that showcase various chemists/scientists that have made great contributions to chemistry and science have been sent in classroom size and in bookmark form by request to K-12 schools, colleges/universities, displayed at the USDA in Denver for Disabilities Month, and have also been requested to be displayed (travel sized) at a few ACS regional meetings in 2018. A majority of these requests were a result of the posters being displayed outside the Council meeting room during national meetings. The traveling posters communicate a great deal of chemistry to the public at large and show ACS' commitment to engaging the disability community science.

American Political Science Association (APSA) CWD will meet with the Director of Diversity and Inclusion Programs to discuss the history of the Committee on Chemists with Disabilities and their function within ACS. APSA is venturing out to begin their own signature group of scientists with disabilities and is engaging with the CWD for any feedback or input the committee might have to help them in the process.

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E. Community Activities
(joint with Board)

The 30th Anniversary of National Chemistry Week (NCW) will be celebrated this October, featuring geochemistry articles and activities to celebrate the theme “Chemistry Rocks!” All local sections are encouraged to participate by leading hands-on activities in their local area, hosting an illustrated poem contest, and having other community events. All named local section NCW Coordinators will receive free printed copies of *Celebrating Chemistry* to distribute at their events. Any International Chemical Sciences Chapter wishing to participate in NCW can access free, electronic copies of *Celebrating Chemistry*, in addition to promotional graphics and additional educational resources, at www.acs.org/ncw. All NCW materials are available in both English and Spanish.

CCA will celebrate the 30th Anniversary of NCW at a reception during the 254th ACS National Meeting & Exposition, scheduled for Sunday, August 20 2017. All ACS volunteers interested in science outreach are invited to attend.

CCA will celebrate outstanding volunteers during the 2017 ChemLuminary Awards, which will be presented on Tuesday, August 22 2017.

The 14th year of Chemists Celebrate Earth Day (CCED) was observed this past April. The 2017 Theme, “Chemistry Helps Feed the World,” demonstrated the key role of chemistry in agriculture and in the food we eat each day. The 61% of Local Sections that named CCED Coordinators distributed 61,750 copies of the CCED 2017 edition of *Celebrating Chemistry* across the United States. The winning entries for the National Illustrated Poem Contest and all CCED 2017 materials can be found at www.acs.org/cced.

During the 2017 San Francisco National Meeting, CCA and Local Section volunteers reached 350 members of the public, including 200 children, at the CCA Outreach Event. This event was held at a local science museum, the Exploratorium, and featured seven hands-on activities in line with the 2017 CCED Theme. Approximately 60 undergraduate students were trained to lead these activities at their own local events during the CCA CCED Undergraduate Outreach Workshop the following Monday.

In partnership with the Earth Day Network and the March for Science, ACS organized hands-on demonstrations for children and their families highlighting the 2017 CCED theme at the ACS Kids Zone. The ACS Kids Zone was held as one of eight teach-ins presented before the rally and march on April 22, 2017. Approximately 27 ACS members and staff volunteers across the northeastern U.S. met at the National Mall in Washington, D.C. and provided the only programming focused on children. Exit surveys showed that 904 people (372 children and 532 adults) participated in this three and a half hour event.

Next year, in honor of the 15th year of CCED, CCA will expand the program to Chemists Celebrate Earth Week (CCEW). The inaugural CCEW Theme will be “Diving into Marine Chemistry.” CCA approved a new logo to promote the expanded program and theme team members are actively working on CCEW 2018 material.

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F. 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.

In 2017, CEI is leading the process to review and update two ACS public policy statements: *Scientific Integrity in Public Policy* in partnership with the Committees on Corporation Associates (CA) and on Science (ComSci) and *Sustainability in the Chemistry Enterprise* with ComSci. CEI also is working with the Committee on Chemistry and Public Affairs and other committees to update the policy statement on S&T funding in the federal budget.

At the spring meeting, CEI approved a series of supporting documents to the ACS policy statement on Chemical Risk Assessment and Regulatory Decision Making that can be found under the fact sheet section of our website. The committee also recommended that the Board retire the statement on *Testing for Endocrine Disruption*. At its fall meeting, the committee will begin work to update the policy statements on energy and hydraulic fracturing, which expire at the end of 2018. Councilors with thoughts on the current versions of those documents that are found at www.acs.org/policy, can share the through cei@acs.org.

CEI also continues to support and recognize the work of the ACS local sections related to sustainability. At the spring meeting, the committee has approved mini-grants to the Red River Valley and Northeastern Local Sections and recognized past efforts by naming the Lehigh Valley, East Central Illinois, and Northeastern Local Sections as finalists for ChemLuminary Award for Outstanding Sustainability Activities.

To get more information or join the dialogue on environmental issues and activities, follow [@ACS_CEI](https://twitter.com/ACS_CEI).

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G. Ethics

Since its last report to Council, The Committee on Ethics (ETHX) has undergone a significant change in membership, increasing in size from nine to twelve members, and also from four to five associates. Because of this expansion the committee had a brief orientation regarding the operation of the committee for the new members and associates.

The **Subcommittee on Awareness and Education** updated the full committee concerning several symposia, including those at the current meeting, and plans for upcoming national meetings. The **Subcommittee on Resources and Communications** updated the committee concerning a publication designed for undergraduates highlighting ethics in the chemical sciences. Subsequent to ETHX spring meeting, the chair was asked about material concerning ethics education in the sciences at the primary/secondary level. The committee plans to meet with representatives from the AACT to discuss the possibility of development of materials appropriate for the primary/secondary level.

A preliminary discussion regarding the criteria for the new ChemLuminary award from the committee (Outstanding Local Section Programming Related to the Promotion of Ethics in Chemistry) was held. It was determined that ETHX would finalize criteria for the award at its fall meeting. Subsequent to the spring meeting information regarding criteria for another ChemLuminary award was distributed to the members and associates of the committee to facilitate the upcoming discussion.

The committee heard presentations regarding the recent Committee on Committees survey addressing committee diversity and also regarding the Governance Design initiative from the Board of Directors.

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H. International Activities
(joint with Board)

At its meeting in San Francisco on Saturday, April 1, 2017, the ACS Joint Board-Council Committee on International Activities (IAC) continued its work to help formulate and refine a pathway forward for ACS to be more welcoming of chemists, chemical engineers and chemistry educators with international interests and for connecting our members with the global practice of chemistry.

IAC welcomed dignitaries from our sister societies and partners from Brazil, Canada, South Korea, Germany, Japan, Nigeria, the UK and IUPAC, as well as leadership of ACS International Chemical Sciences International Chapters from China, South Korea, Saudi Arabia, and Hungary.

At its distinguished speaker luncheon, the committee welcomed the executive director and CEO of ACS who provided information on ACS global interests and priorities, followed by discussion on IAC synergies going forward.

During its subcommittee and open meetings, the committee heard reports on its key programs and activities, such as the 2017 ACS PITTCO Delegation from South America; 2016 ACS International Center usage; the ACS Chemistry Festival Series; our work with the US Department of State for early career scientist and engineer training in safety and chemical security in North Africa and the Maghreb and plans for similar offerings in East Africa and Australia; our 2016 Global Innovation Initiative program in Brazil, the ACS National Science Foundation (NSF) Chemical Sciences and Society Symposia and the NSF International Research Experiences for Undergraduates programs; and plans for the July 2017 IUPAC World Congress and General Assembly in Sao Paulo, Brazil; the ACS Saudi Chapter Labtech Conference in Doha, Qatar in November 2017; and the First Asia Pacific International Chapters Conference in Jeju, South Korea in November 2017. For further information and detail on these and other ACS International Activities endeavors, please visit www.acs.org/international.

In San Francisco, IAC approved Pakistan and India as the regional focus for the 2018 ACS PITTCO Delegation; unanimous endorsement of the ACS Bylaw IX revision for ACS International Chapters; support of committee plans to lead drafting a revised ACS Visa Policy Statement by the end of 2017; and support of exploring quality assurance for overseas first-degree chemistry programs. The committee also created a working group to explore its contributions to the international dimensions and the success of the celebration of Project SEED's 50th Anniversary.

At our IAC International Welcoming Reception, the committee was pleased to host over 400 international meeting attendees and ACS member volunteers with global interests.

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I. Minority Affairs
(joint with Board)

The ACS Standing Committee on Professional and Member Relations approved a newly revised and enhanced Statement on Diversity and Inclusion (D&I) at its June meeting. The ACS Committee on Minority Affairs (CMA) and the D&I Advisory Board worked for more than a year to revise the existing statement, which was a decade old and sorely out of date with current events and with the new 2017 ACS Strategic Plan. The statement is printed in its entirety in the June 26 issue of *Chemical & Engineering News* (C&EN, June 26, page 35). I urge you to read it.

Currently, CMA and the D&I Advisory Board are working to develop a module on diversity and inclusion for the ACS Leadership Development System, a suite of face-to-face and online courses in a wide variety of topics. The D&I module will embody the following paragraph in the aforementioned D&I statement: “We encourage inclusivity and oppose discrimination in scientific learning and practice based on - but not limited to - race, religion, country or ethnic origin, citizenship, language, political opinion, sex, gender identity and expression, sexual orientation, disability, age, and economic class in academic, industrial, and government workplaces. The Society believes that an enduring commitment to diversity enables excellence, innovation, and transformative action in current and future generations of chemical professionals.” Sex, gender identity and expression, sexual orientation, disability, age, and economic class are areas that are often overlooked in discussing diversity and inclusion.

While it will take some time to thoughtfully develop this module, CMA continues to program at national meetings and encourages technical divisions to consider D&I in its symposia speakers. At the meeting in Washington, D.C., ACS President Allison Campbell will be CMA’s luncheon speaker on Monday, August 21. She will speak on “Advice to my younger self: Tips and lessons for a career in science.” Also on Monday, CMA is sponsoring “Chemistry & Culture: How Native American Chemists Impact Their Community.” On Tuesday, CMA is co-hosting with the Analytical Chemistry Division “Why Not Me? Changing the Face of Leadership in Science,” which will celebrate the winner of the Earle E. Barnes Award in Chemical Research Management by featuring scientific leaders from across disciplines actively fostering STEM diversity and inclusion. Another symposium on Monday with the Division of Professional Relations (PROF) is titled “PROF: Ten Years and Counting, PROF’s Subdivisions.” On Wednesday, August 23, CMA co-hosts a morning symposium with the Environmental Chemistry Division on “Environmental Justice: The Role & Impact of Diversity on Environmental Stewardship.”

CMA’s subcommittees include the Subcommittee on ACS Scholars. At the time of this writing, ACS Scholars Program winners have been notified and the ongoing Scholars are going through the renewal process. This program, established in 1995 and directed by the ACS Education Division, continues to produce outstanding scientists in the chemical and related sciences from under-represented groups - and Scholar alumni with a Ph.D. number more than 280. There have been several notable events with this year’s selection process. There are 10 additional winners, bringing the total of new scholars to 160 and a substantially higher number of high school graduates were selected (84% of all winners), which means they will potentially receive the ACS Scholarship for all four years of college. An increase of 14 Native Americans in the ACS Scholar cohort brings the total to 33. The ACS Scholars Program is made possible through the support of ACS and the generosity of donors. The ACS Development Office is working hard to raise an endowment for the ACS Scholars by its 25th anniversary in 2020. To make a contribution, go to donate@acs.org or write to Mary Bet Dobson, m_dobson@acs.org to learn how you can endow an ACS Scholar in perpetuity.

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J. Nomenclature, Terminology and Symbols

The Committee on Nomenclature, Terminology, and Symbols (NTS) is charged with monitoring, evaluating, and recommending actions on developments in the field of nomenclature, terminology, and symbols. In pursuit of these goals, NTS continues its involvement with outreach to the ACS membership. This has involved presentations at national and regional meetings of the Society and publications in newsletters and journals on topics associated with nomenclature, terminology, symbols, and units. Activities planned for Washington, DC include a poster presentation on the redefinition of the base units of the SI system. The proposed definitions have important ramifications to the practice of chemistry, particularly with respect to our understanding of the base units, to publications within the field, and to the teaching of chemistry. Dissemination of this information is important to keep the membership informed of changes and updates to nomenclature issues.

NTS is also working to maintain a strong relationship with external agencies related to nomenclature, terminology, and symbols, such as IUPAC and USAN. After extended debate and evaluation, NTS has provided feedback to IUPAC on the recent selection of the names and symbols for the newly discovered elements and on the redefinition of the base units for the kilogram and the amount of substance.

NTS is currently convening a task force to work closely with the Braille Authority of North America to create and evaluate a Braille code that will accurately and adequately describe chemical symbols and units.

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K. Patents and Related Matters
(joint with Board)

The Committee on Patents and Related Matters (“CPRM”) provides information and guidance about patents and other intellectual property issues. CPRM has created numerous educational materials, many of which provide assistance about second careers in the area of intellectual property. The committee is completing its revised version of the very popular “What Every Chemist Should Know about Patents” booklet. In addition, CPRM has expanded its focus to encompass technology transfer and sponsored research. All of CPRM’s materials are available on its website. CPRM also proposes nominations of notable inventors for external awards recognizing chemists and chemical engineers. CPRM congratulates ACS member and ACS Central Science editor-in-chief Carolyn Bertozzi on her recent induction into the National Inventors Hall of Fame. We welcome your suggestions for future nominees.

CPRM seeks to reform and improve the patent system. The committee has begun collaborating with the U.S. Patent and Trademark Office by helping to provide 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. These efforts are continuing; if you would like to participate, please let us know.

CPRM has partnered with the Chemistry and the Law Division to provide patent-related programming at national and regional meetings. At this Meeting, CPRM co-sponsored the Division of Small Chemical Businesses’ symposium on Chemical IP Protection Enforcement in the Global Economy. CPRM is exploring additional possible collaborative efforts with ACS committees and divisions.

If you would like to work with us on these matters, please contact us at Patents@acs.org.

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L. Professional Training
(joint with Board)

The Committee on Professional Training (CPT) evaluated 28 periodic reports from currently approved programs and held conferences with seven departments applying for ACS approval at the spring 2017 meeting. CPT also evaluated a site visit report from a program seeking approval, four reports from approved programs on probation, and one appeal of an action to withdraw approval. CPT voted to withdraw approval of one program. There are currently 688 colleges and universities offering ACS-approved bachelor's degree programs in chemistry.

The committee published two new documents on the value of ACS approval to chemistry programs and the value of certification to students, which are posted on the CPT web page (www.acs.org/cpt). The committee also discussed mechanisms to deliver certificates to graduates who have completed the curriculum requirements described in the ACS Guidelines.

A survey to solicit information on the use of online courses and virtual laboratory experiences in undergraduate chemistry programs was launched in May, and a report on the results will be published later this year. The committee approved a short survey on undergraduate research funding that is included in the CPT 2016-17 annual report submitted by all ACS-approved chemistry programs. A CPT subcommittee developed plans for a special retreat meeting in June that is devoted to developing policies and procedures to improve the consistency of program reviews and better orient new members to the review process.

At the ACS national meeting in San Francisco, the committee met with representatives from 41 PhD-granting institutions. The new macromolecular science requirement and strategies for improving the diversity of the graduate student population were discussed. The committee also held a symposium on the role of undergraduate research experiences in the ACS-certified degree. Reports on both of these activities and the results of a short survey on international experiences for undergraduates were published in the spring issue of the CPT Newsletter. The newsletter is sent to all chemistry faculty at ACS-approved programs and the department chairs at chemistry programs that are not approved. The slides from the symposium are available on the CPT web page as is the CPT Newsletter.

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M. 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 10,300 students. This summer, about 420 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.

Sixteen application were received from the previous year's Project SEED College Scholarship recipients as candidates for the three -year renewable Ciba Specialty Chemicals Scholarships for the 2017, 2018, and 2019 academic-years. The committee will select three winners this summer; this in addition to the 27 first year-nonrenewable college scholarships awarded to Project SEED alumni in February for the 2017-2018 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.

The committee continued planning the activities for the 50th Anniversary celebration in 2018 in Boston. 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

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Carolyn A. Burnley
Angela Hoffman

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Staff Liaison: Cecilia C. Hernandez

N. 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:

- CPRC Chair Jennifer Maclachlan authored an ACS Comment, which appeared in the March 6, 2017, edition of C&EN. Titled [Expand the Reach of Your Outreach Activities](#), the comment described ways Local Section outreach activity organizers can connect with the community and garner press for their ACS events including digital and print news media, radio, community cable television and social media.
- The CPRC Chemistry Ambassador subcommittee held a Chemistry Ambassador Forum at the San Francisco National Meeting in March 2017. Facilitators led discussions of different ways that one may choose to be a Chemistry Ambassador. Topics included Speaking at Schools, Benefits of Outreach, and Motivating Volunteers.
- CPRC is in the process of creating a series of CPRC branded videos in 2017-2018 exploring topics like: How to host your own ACS science café and Slack as a Communication Tool for Chemists.
- CPRC is co-sponsoring PRES – Science Communications: The Art of Developing a Clear Message on Sunday, Aug. 20, 1:15 pm to 4:30 pm for the ACS DC national meeting. CPRC members are organizing a second symposia SCHB-Social Media for Science Advocacy in Public Policy on Monday Aug. 21 from 8:30am-11:50am
- Any section that needs help communicating with public audiences is urged to contact CPRC staff liaison Susan R. Morrissey for assistance, s_morrissey@acs.org. Our committee members are also happy to serve as mentors for ACS sections, divisions, committees, groups, etc. wishing to establish or expand their public relations efforts.

Jennifer Maclachlan, Chair

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Amber F. Charlebois
Amina El-Ashmawy
Micheal W. Fultz
Donald Hicks

Lynn Hogue
Patrick S. Lee
Preston MacDougall
John Malin
William Oliver
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Kenneth Poggenburg, Jr.
Terence Edwin Say
Alexa Serfis
Anne K. Taylor

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Doris I. Lewis
Kathy Shaginaw
Brian G.R. Treco
Desiree Wineland

Consultant

Mike Lawrence

Staff Liaison: Susan R. Morrissey

O. Publications
(joint with Board)

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

The committee voted unanimously to elect Jerzy Klosin as vice chair, who will serve in that capacity from March 31, 2017 to December 31, 2017.

The progress reports for *ACS Omega* and the *Journal of the American Chemical Society* and the editorial monitoring reports for *ACS Applied Materials & Interfaces*, *ACS Photonics* and *Bioconjugate Chemistry* were presented, discussed thoroughly and accepted with thanks. Editor reappointments were reviewed and recommendations were made.

C&EN staff highlighted the media group's increased focus on digital-first, share-worthy journalism, pointing to examples of multipart story features such as the Nobel Prize and the annual Year in Review, as well as a new monthly column by chemistry blogger Chemjobber and a chemistry cartoon series with chemist cartoonist Brendan Burkett. Staff also highlighted C&EN's strategic plan 2017-2020. The plan rests on five priorities that will position C&EN as an influential and innovative digital news media player; support increased recruitment of non-US-based, young, and industry-based new members; and lead to greater engagement with existing ACS members. Strategic savings and efficiencies in a number of areas are allowing ACS Publications to reinvest in support of this plan. Those investments include a number of ongoing technology projects aimed at improving the delivery and production of C&EN's journalism, including the launch of C&EN Global Enterprise, the transition to a new digital magazine vendor, an upgrade of content management system and production workflows, as well as redesign of cen.acs.org.

The Committee on Committees (ConC) presented the Committee on Publications demographic survey results along with a brief overview of how the Committee on Committee interacts and works to suggest ACS Councilors for committees.

The Joint Board-Council Policy Committee Task Force on Governance Design presented an update on the task force's charge to ensure flexibility in the ACS governance structure, processes and procedures to sustain ACS as the preferred place where scientists and engineers collaborate, publish, network, learn and volunteer. Over the next few months, the task force will collaborate with ACS governance groups to develop value-added approaches to assist ACS in fulfilling the purpose of our federal charter.

The committee heard a presentation and discussed a guidelines document developed by a group of volunteers from the ACS Division of Chemical Health and Safety (CHAS). The Division made recommendations for ACS Editors to consider in promoting chemical safety in ACS journals. The sample documentation was viewed as being a potentially important tool for researchers. The committee voted that the President of the Publications Division convene a group comprised of selected editors, CHAS members, Publications staff, and the Committee on Publications to refine reporting on safety recommendations in journals and to report back to the Publications Committee at a future meeting.

Nicole S. Sampson, Chair

David E. Bergbreiter
Stephanie Brock
Kay M. Brummond
David A. Dixon

Jerzy Klosin
Julia Laskin
Robert Y. Ofoli
Charles H. Reynolds

John N. Russell
Gary B. Schuster
Richard V. Williams
Xueming Yang

Associates

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Lin X. Chen

Paula Diaconescu
Xiaosong Li

Staff Liaison: Brian D. Crawford

P. Senior Chemists
(joint with Board)

The Senior Chemists Committee (SCC) continues efforts toward achieving its mission and vision to provide support for senior chemists and utilize their expertise and experience by encouraging engagement and collaboration across the Society with ACS groups and within the community. The committee has established goals to improve communication among senior chemists, increase the number of senior chemists' groups and the level of their engagement within local sections, and encourage the involvement of senior chemists in programs focused on K-12 education, undergraduate networking, and mentoring. Information regarding the committee's progress was highlighted in the SCC chair's comment on page 41 in the May 29 issue of *Chemical & Engineering News*.

SCC started this year with presence at the ACS Leadership Development Conference Resource Fair in Dallas, TX where we made numerous contacts with attendees, particularly new local section officers. It was a productive experience, so we will now have a booth in the Exhibition Hall at the ACS National Meeting in Washington, DC to meet and engage in discussions with our senior chemist colleagues.

During the San Francisco meeting in April, SCC co-sponsored along with the Younger Chemists Committee and the History of Chemistry Division a "golden age" symposium with five speakers who highlighted significant moments in industrial chemistry. SCC members co-sponsored and participated once again in the "Student Speed Networking with Chemistry Professionals." At the Senior Chemists Breakfast, Dr. Paul Alivisatos, UC Berkeley's Samsung Distinguished Professor of Nanoscience and Nanotechnology and Vice Chancellor for Research, presented an engaging talk focused on his journey through nanoscience.

The Senior Chemists Group on the ACS Network now has more than 245 members and active discussions. The group provides a platform for two-way communication with our constituents, promotes local section senior chemists' events, and highlights success stories. SCC has now changed its email address to seniorchemists@acs.org, a more recognizable contact point to respond to comments from our Network group and general inquiries sent to the SCC Inbox. It is another good way to share information, as done via the *Newsletter for Senior Chemists*. The change has increased our newsletter openings by 25%, a substantial increase for an email distribution of 45,000 recipients. Our most recent newsletter released in May 2017 included a travel section called "A Chemists' Bucket List", articles from senior chemist members, a book review, and a crossword puzzle.

The newsletter also included the article, "Help a Teacher, Help a Child", focused on ways senior chemists can become more involved with students and teachers at the K-12 level. The article shared information about the American Association of Chemistry Teachers (AACT) and the ACS Science Coaches program. This "call for action" was extended in a letter sent to the local sections in May.

With encouragement from SCC, for the first time this year, the packet of 50- and 60-year certificates sent annually to all local sections included 70-year certificates as well. A total of 118 members representing 70 local sections were identified, and SCC in a letter to all local section officers encouraged efforts to include these members in their recognition celebrations.

SCC has worked to arrange events at six ACS regional meetings in 2017 that may capture the interest of senior chemists. We have found no statistics regarding senior chemist attendance at regional meetings. An assessment will be made to determine if SCC efforts should be continued in 2018.

An increased number of sections reported having a senior chemists' committees in their FORMS annual report. As a result of self-nominations in FORMS, we will again be awarding a ChemLuminary Award for "Outstanding Local Section Senior Chemist Activity". We are also offering mini-grants to local sections to assist with establishing senior chemists' groups and coordinating activities with younger chemists and the public. The deadline to submit applications was July 14.

Thomas R. Beattie, Chair

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James L. Chao
Donald D. Clarke
Catherine E. Costello
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Warren T. Ford

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Staff Liaison: Semora T. Johns Smith

Q. Technician Affairs

After the Committee on Technician Affairs (CTA) met in San Francisco, CTA began planning its official fall meeting, which will be held on Sunday, Aug. 20, at the Marriott Marquis. The meeting will begin at 8 AM, and the open meeting will be held from 2 to 2:30 PM.

The committee selected the recipient of its 2017 ChemLuminary award, which will be recognized at the ChemLuminary Award Ceremony in Washington, D.C., on Tuesday evening, August 22. CTA encourages all local sections and divisions that hold technician-related events to please submit information about them for consideration for CTA's 2018 ChemLuminary award. They may nominate themselves for the award via their annual reports.

The committee has been working to better promote its ACS Chemical Technology Student Award program. The program allows professors to recognize outstanding students who are preparing to become professional chemical technicians.

CTA is currently accepting nominations for the 2018 National Chemical Technician Award. The deadline for submissions is September 30, 2017. This award was established in 1989 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. Beginning in 2016, CTA improved the visibility of its NCTA program by establishing an annual award luncheon at the spring national meeting and stepping up NCTA promotional efforts.

As I end my term as Chair of CTA, I would like to take this opportunity to thank the Committee for a successful two years.

In 2016, CTA launched a travel award for young technicians in partnership with the Younger Chemists Committee. This award provides funding for ACS members, who are technicians and under 35 years of age, to participate in the annual ACS Leadership Institute.

Late last year, CTA held a strategic planning retreat, during which we crafted a new mission statement, "support and advance the chemical technical professional through career development and recognition." The committee also drafted a new vision statement, "to be the essential resource for chemical technical professionals." CTA set a new goal to increase communication within CTA and ACS at large and outside ACS, and it affirmed two other goals: to highlight chemical technician accomplishments by providing established awards and to increase professional development resources available to chemical technicians over the next three years.

In addition, I appointed CTA's first program chair who will look for ways to work with other ACS Committees and Divisions to cosponsor and support programming at national meetings.

I look forward to seeing what CTA will accomplish in the future as I am sure there are many more successes to come.

For additional information on CTA, please contact the committee's staff liaison, Susan Ainsworth, at sainsworth@acs.org.

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Kathy S. Clear
Bryan K. Franklin
Aime'e L. Tomlinson

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Greglynn D. Gibbs
Eugenia Narh
Donna Neal
Richard E. Partch

Mark A. Thomson
Carol B. Libby
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Associates

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John Palmer
Jennifer R McKenzie
Aida Melendez

Staff Liaison: Susan Ainsworth

R. Women Chemists
(joint with Board)

The Women Chemists Committee, founded in 1927, is continuing to celebrate 90 years of attracting, retaining, developing, promoting, and advocating for women chemists.

WCC events to be held at the 254th ACS National Meeting in Washington, DC include the following:

- Amanda Bryant-Friedrich, Dean of Graduate Studies, The University of Toledo, will speak about scholarly recognition at the WCC Luncheon. We will also host the Overcoming Challenges Award Winner, Stacy Guzman, of the California State University, Fullerton.
- Recipients of the 2017 Fall WCC/Eli Lilly Travel Award will share their accomplishments at a poster session prior to the WCC luncheon.
- WCC Merck Research Awardees will present research talks at a half-day symposium.
- Our award winners will be honored at the WCC “Just Cocktails” networking reception, where the accomplishments of the committee and local section WCCs over the past 90 years will also be highlighted.
- Carolyn Ribes, Business Analytical Leader, The Dow Chemical Company, will discuss cultural competency in the global workplace at the Women in the Chemical Enterprise Breakfast.
- The WCC symposium “The Nons: Non-Tenure Track Faculty in a Changing Academic Landscape” will focus on an employment sector where women are overrepresented.
- WCC, in partnership with HIST, is co-sponsoring the symposium “Ladies in Waiting for Nobel Prizes: Overlooked Accomplishments of Women Chemists” and the theatrical production “No Belles,” which documents women overlooked for this honor and a few of the 16 who have received it.

The WCC Awards Task Force continues to encourage nominations for ACS National Awards. November 1 is the deadline for the 2019 awards.

WCC is considering steps that might be taken to minimize sexual harassment. It is monitoring the National Academies’ consensus study on the Impacts of Sexual Harassment in Academia, as well as the follow-up on the workshop “Sexual Harassment in the Sciences: A Call to Respond” hosted by the American Geophysical Union.

In May, WCC undertook its second formal strategic planning retreat, updating the prior plan put in place in 2012. A total of 12 participants, including representatives from the Committee on Committees, the Diversity & Inclusion Advisory Board, and the Division on Professional Relations attended the 2-day weekend workshop. Feedback from a variety of stakeholders was analyzed prior to drafting a new vision statement and revising the existing mission statement and goals. WCC is working to implement this plan and will have an official launch by December.

Your comments are always welcome and can be sent to: wcc@acs.org.

Laura Sremaniak, Chair

Samina Azad
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Christine S. Chow
Renée S. Cole
Amy C. DeBaillie
Kelly M. George

Maureen A. Kane
Lisa K. Kemp
Alice Lurain
Cecilia E. Marzabadi
Amy Nicely
Bevin W. Parks

Michelle M. Rogers
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Pamela D. Kistler
T. Angele Kwimi

Tina M. Leaym
Despina Strong
Ann E. Weber

Staff Liaison: Jodi L. Wesemann

S. Younger Chemists
(joint with Board)

The Younger Chemists Committee (YCC) had a productive meeting in San Francisco, CA on April 1-2, 2017. One of the most exciting outcomes from the meeting was a facelift for our YCC logo. The previous logo had served the committee well and was widely recognizable, yet our new logo aims to capture the same spirit – that young chemists strive to be leaders in their scientific, academic, and professional endeavors – while underscoring our passion for future possibilities. We've added the phrase, "The Future of Chemistry" to highlight our investment in the chemical enterprise and the world of tomorrow.

For the upcoming meeting in Washington, DC the committee is proud to have two Presidential-sponsored programs on the agenda, including, "Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy" and "The Road Less Traveled: Career Opportunities in the Government Sector." Members of the YCC will also participate in ACS President Allison Campbell's "ACS Chemistry on the Hill Advocacy Workshop" which will empower members with skills to better communicate and advocate for the tremendous value of science to policy makers. This theme demonstrates the passion that the younger members of the Society have – they are active and engaged in promoting science.



In 2017, the YCC is continuing its annual Catalyze the Vote initiative by hosting a live virtual town hall with the 2017 ACS Presidential Candidates. Please encourage the younger members of your Section or Division to register for this event, to be held on September 28, 2017 7:30 PM EDT at: http://bit.ly/CtV_2017a. We are grateful for the participation of both President-elect candidates and look forward to hearing more about their vision for the future of the Society!

As always, the location for the most up-to-date information on our efforts is the official YCC website (<http://ycc.sites.acs.org/>). Here, we 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) and a member of our Communications Subcommittee will provide assistance. We are happy to partner with you to raise awareness of your activities, awards, and resources within our younger chemist network.

We are constantly striving to communicate with younger chemists in new and different ways – and in San Francisco this included a Snapchat GeoFilter. This enabled us to connect with chemists near our YCC events by offering them a frame for their Snapchat photos – see image at right. Everyone is welcome at our YCC Social Events, held each National Meeting. Look for details on our website and social media streams - we hope to see you there!



Natalie LaFranzo, Chair

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Ashley M. Blystone
Jakoah R. Brgoch
Stephen M. Canham
Christine E. Dunne
Navneet Goyal

Matthew Grandbois
Jasmine N. Hunt
Jeff Klenc
Evijsola Llabani
Taina D. Matos
Christine McInnis

Kristin M. Nuzzio
Marisa B. Sanders
Jennifer Schmitt
Artrease Spann
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Associates

Rajeev Chorghade
Katie J. Heroux
Jessica Hoy
John Kelly
Jackie J. O'Neil

Stephanie K. Ramos
Jamie Schwarzbach
Phumvadee (Beau)
Wangtrakuldee
Michelle Brann

Katie Johnson
Chris Miller
Logan Miller

Consultant: Dawn Mason

Staff Liaison: Audley Burke