

MINUTES
COUNCIL
AMERICAN CHEMICAL SOCIETY
August 22, 2018
Boston, Massachusetts

The Council of the American Chemical Society met in Boston, Massachusetts, on August 22, 2018, beginning at 8:00 a.m. Peter K. Dorhout, President of the Society and of the Council, presided. The following Councilors, Alternate Councilors, and accredited representatives were present:

Ex-Officio: John E. Adams, Bruce E. Bursten, Allison A. Campbell, William F. Carroll, Jr., Charles P. Casey, Bonnie A. Charpentier, Thomas M. Connelly, Jr., Peter K. Dorhout, Teri Quinn Gray, Ned D. Heindel, Rigoberto Hernandez, Catherine T. Hunt, Nancy B. Jackson, Paul W. Jagodzinski, Wayne E. Jones, Jr., Thomas H. Lane, Lee H. Latimer, Flint H. Lewis, Ingrid Montes, E. Ann Nalley, Donna J. Nelson, Attila E. Pavlath, Laura E. Pence, Dorothy J. Phillips, Elsa Reichmanis, Barbara A. Sawrey, Diane Grob Schmidt, Kathleen M. Schulz, Bassam Z. Shakhshiri, Edel Wasserman, Marinda Li Wu.

Divisions: *Agricultural & Food Chemistry*, Michael Appell, Alyson Mitchell*, Michael C. Qian*, Michael Tunick*. *Agrochemicals*, Rodney M. Bennett, Jeanette M. Van Emon. *Analytical Chemistry*, Karl S. Booksh, Michelle V. Buchanan, Roland F. Hirsch, Susan J. Olesik. *Biochemical Technology*, Arindam Bose, Cynthia H. Collins, Aaron Noyes*, Sharon P. Shoemaker. *Biological Chemistry*, Barbara L. Golden, Andrew S. Murkin, Lana Saleh, Coran Watanabe. *Business Development & Management*, Janet L. Bryant. *Carbohydrate Chemistry*, Anthony S. Serianni. *Catalysis Science & Technology*, Anne M. Gaffney, Aditya Savara. *Cellulose and Renewable Materials*, Kevin J. Edgar, Sheila M. Murphy. *Chemical Education*, Iona Black, Patrick L. Daubenmire*, Daniel B. King. *Chemical Health & Safety*, Debbie M. Decker, Frankie K. Wood-Black. *Chemical Information*, Svetlana Korolev, Bonnie Lawlor, Andrea B. Twiss-Brooks. *Chemical Toxicology*, Silvia Balbo, Penny Beuning. *Chemistry & The Law*, James C. Carver, Alan M. Ehrlich. *Colloid & Surface Chemistry*, Nicholas L. Abbott, Jennifer A. Hollingsworth, Maria M. Santore. *Computers in Chemistry*, Christine M. Aikens, Christopher J. Cramer, Emilio X. Esposito. *Energy & Fuels*, Joe D. Allison, Semih Eser, Elise B. Fox, Lisa Houston. *Environmental Chemistry*, V. Dean Adams, Todd A. Anderson, Alan W. Elzerman, Jurgen H. Exner. *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, Peter M. Smith. *Inorganic Chemistry*, Debbie C. Crans, Karen Goldberg, Clark R. Landis, Silvia Ronco. *Medicinal Chemistry*, Jane V. Aldrich, William J. Greenlee, Carrie Haskell-Luevano, Amy S. Ripka. *Nuclear Chemistry & Technology*, Silvia S. Jurisson, Graham F. Peaslee. *Organic Chemistry*, David A. Conlon, Huw M.L. Davies, Katherine N. Maloney, Cynthia A. Maryanoff. *Physical Chemistry*, Judy E. Kim*, Christine K. Payne. *Polymer Chemistry*, Joseph M. Mabry, Mary Ann Meador, Gregory N. Tew, Kathryn E. Uhrich. *Polymeric Materials: Science & Engineering*, Michael Jaffe*, Julie L.P. Jessop, Theodore Provder*, 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. *Alaska*, Lisa A. Hoferkamp. *Auburn*, Christian R. Goldsmith. *Baton Rouge*, Bryan K. Franklin. *Binghamton*, Julien A. Panetier*. *Brazosport*, Carolyn Ribes. *California*, G. Bryan Balazs, Michael T.H. Cheng, Mark D. Frishberg, Sheila Kanodia, Alex M. Madonik*, Eileen M. Nottoli, Paul F. Vartanian, Elaine S. Yamaguchi. *California Los Padres*, Justin A. Russak. *Carolina-Piedmont*, Matthew K. Chan, Marilynn J. Sikes. *Central Arizona*, Kathryn Kitzmiller**. *Central Massachusetts*, Meledath Govindan. *Central New Mexico*, Bernadette A. Hernandez-Sanchez, Donovan R. Porterfield. *Central New York*, Alyssa C. Thomas.

*Alternate Councilor

**Temporary Substitute Councilor

Central North Carolina, Robert A. Yokley. *Central Ohio Valley*, Gary D. Anderson. *Central Pennsylvania*, Lori S. Stepan. *Central Texas*, Diane Kneeland*, Barry J. Streusand. *Central Utah*, Jennifer B. Nielson. *Central Wisconsin*, C. Marvin Lang. *Chemical Society of Washington*, Allison Aldridge, Joseph M. Antonucci, Christopher W. Avery, Darryl Boyd*, John M. Malin, Kim M. Morehouse, Sara V. Orski, Judith F. Rubinson, Jennifer Young Tanir. *Chicago*, Paul F. Brandt*, David S. Crumrine, Kenneth P. Fivizzani, Russell W. Johnson, Michael G. Koehler, Fran K. Kravitz, Josh W. Kurutz*, Margaret S. Levenberg, Milt Levenberg, Inessa Miller. *Cincinnati*, Kathleen Gibboney, Susan A. Hershberger, Richard J. Mullins. *Cleveland*, David W. Ball*, Stephanie L. Vivod*. *Coastal Georgia*, Will E. Lynch. *Colorado*, Lawrence J. Berliner, Sandra J. Bonetti, Connie Gabel*, Michael D. Mosher*, Susan M. Schelble, Rebecca Shircliff. *Columbus*, Joan M. Esson, Edmund T. King, Virginia H. Songstad. *Connecticut Valley*, Kevin R. Kittilstved, Michael Knapp, David R. Myers*, Julianne M.D. Smist. *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*, Betty Jo Chitester. *Florida*, Carmen V. Gauthier, Leslie J. Murray. *Georgia*, Heather L. Abbott-Lyon, Holly L. Davis*, Lissa Dulany, David S. Gottfried, Donald G. Hicks*. *Greater Houston*, Carolyn A. Burnley, Lawrence W. Dennis, Amber S. Hinkle, Mamie W. Moy, Laurent Pirolli, David M. Singleton, Crystal Young. *Green Mountain*, Willem R. Leenstra. *Hampton Roads*, Lisa S. Webb. *Hawaii*, T. Blake Vance. *Huron Valley*, Ellene T. Contis, Harriet Lindsay. *Idaho*, Joshua J. Pak. *Illinois Heartland*, Gregory M. Ferrence. *Illinois-Iowa*, Richard G. Rogers. *Indiana*, Beth Lorsbach, Brian Mathes, Robert A. Pribush, Robert E. Sammelson. *Indiana-Kentucky Border*, Jeffery W. Seyler. *Inland Northwest*, Jeffrey A. Rahn. *Kalamazoo*, Lydia E.M. Hines. *Kanawha Valley*, Madan M. Bhasin. *Kansas City*, Gary E. Clapp*, William G. Gutheil*. *Kansas State University*, Daniel Higgins**. *Kentucky Lake*, Robbie Montgomery. *LaCrosse-Winona*, Ben Haenni. *Lake Superior*, Timothy Trygstad**. *Lehigh Valley*, Jeanne R. Berk, Kelley C. Caflin. *Lexington*, Brent Eldridge**. *Louisiana*, Alvin F. Bopp. *Louisville*, James F. Tatera. *Maine*, Mitchell R.M. Bruce. *Mark Twain*, Dawood Afzal. *Maryland*, Merle I. Eiss, Dana Ferraris, Jan E. Kolakowski, Paul J. Smith, Stephanie Watson. *Memphis*, Laura M. Wolf. *Michigan State University*, Susanne M. Lewis*. *Middle Georgia*, Robert J. Hargrove. *Mid-Hudson*, Mary E. Dery. *Midland*, Tina M. Leaym, Dale J. LeCaptain. *Milwaukee*, Scott A. Schlipp. *Minnesota*, Marilyn D. Duerst, Rebecca Guza, Sarah M. Mullins, Nick Schlotter*, James Wollack. *Mobile*, William M. Reichert. *Mojave Desert*, Peter Zarras. *Mo-Kan-Ok, The Tri-State*, Khamis S. Siam. *Montana*, Janice E. Alexander. *Nashville*, Judith M. Iriarte-Gross, Ruth Ann Woodall. *Nebraska*, James M. Takacs. *New Haven*, Gerald J. Putterman, Kap-Sun Yeung. *New York*, Donald D. Clarke*, Ronald P. D'Amelia*, Barbara R. Hillery, Alison G. Hyslop, Neil D. Jespersen, Pamela K. Kerrigan, Patricia A. Redden, Frank Romano, Marc A. Walters. *North Alabama*, Anusree Mukherjee. *North Carolina*, C. Clair Claiborne*, Katherine C. Glasgow*, Melissa A. Pasquinelli, Laura S. Sremaniak, Jonathan S. Witzeman. *North Jersey*, Mirlinda Biba, Jeannette E. Brown, Alan B. Cooper, Jacqueline A. Erickson, Elizabeth M. Howson, Diane Krone, Yingchun Lu*, Les W. McQuire, Michael M. Miller, John J. Piwinski*, Steven M. Silverman*. *Northeast Georgia*, Maurice E. Snook*. *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, Patricia A. Mabrouk, Kenneth C. Mattes, Carol Mulrooney, Jacklyn J. O'Neil, Sofia A. Santos, Mary Jane Shultz, Michael Singer, Anna W. Sromek. *Northeastern Ohio*, Sarah S. Preston. *Northern New York*, Vinay C. Likhite. *Northwest Central Ohio*, Bradley Wile*. *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. *Ouachita Valley*, Danny E. Hubbard. *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 A. Arbuckle-Keil, Melissa B. Cichowicz, Deborah H. Cook, Judith Currano, Anne S. DeMasi, Rick Ewing, Margaret A. Matthews, Christine McInnis, Russell W. Phifer*, Kathleen Shaginaw. *Pittsburgh*, Richard S.

Danchik, Robert Mathers, Kimberly A. Woznick, Edward P. Zovinka*. **Portland**, Warren T. Ford*. **Princeton**, Allen N. Jones, Louise M. Lawter. **Puerto Rico**, Néstor M. Carballeira, Jorge L. Colón, Myrna R. Otano Vega. **Puget Sound**, Charity Flener-Lovitt*, Craig B. Fryhle, Gregory L. Milligan, David L. Patrick, Despina Strong. **Purdue**, Corey M. Thompson*. **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, Stephen G. Tajc. **Sabine-Neches**, John A. Whittle. **Sacramento**, Maria de la Paz Carpio-Obeso*, William J. Miller. **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, Valerie J. Kuck, J. Kenneth Poggenburg, Jr., David M. Wallace. **San Gorgonio**, Eileen M. DiMauro, J. Ernest Simpson. **San Joaquin Valley**, Elisabeth Schoenau**. **Savannah River**, Christopher J. Bannochie. **Sierra Nevada**, Laina M. Geary. **Silicon Valley**, Jane E. Frommer*, Matthew J. Greaney, Alex Klevay*, George J. Lechner, Natalie L. McClure, Peter F. Rusch, Jigisha Shah*. **Sioux Valley**, Jetty L. Duffy-Matzner. **Snake River**, Don L. Warner. **South Carolina**, William H. Breazeale, Jr., Scott R. Goode. **South Florida**, George H. Fisher, Zaida C. Morales-Martinez. **South Jersey**, Jennifer L. McCulley. **South Plains**, David M. Klein*. **South Texas**, Jingbo Louise Liu*. **Southeastern Pennsylvania**, Gregory P. Foy. **Southern Arizona**, Laura Stratton**. **Southern California**, Brian B. Brady, Robert M. de Groot, Virgil J. Lee, Sofia Pappatheodorou, Eleanor D. Siebert, Barbara P. Sitzman. **Southern Illinois**, Lichang Wang. **Southern Nevada**, Kazumasa Lindley. **Southwest Georgia**, Linda de la Garza. **Susquehanna Valley**, Donald E. Mencer*. **Tampa Bay**, Marie Bourgeois, Susan E. Del Valle. **Texas A&M**, David E. Bergbreiter. **Toledo**, Andrew D. Jorgensen. **Trenton**, Benny C. Chan, Jamie Ludwig*. **University of Arkansas**, Stefan M. Kilyanek. **Upper Ohio Valley**, Kevin Pate. **Upper Peninsula**, Glenn Larkin**. **Virginia**, Kristine S. Smetana, Ann M. Sullivan, Linette M. Watkins. **Virginia Blue Ridge**, Samrat Thapa**. **Wabash Valley**, Edward A. Mottel. **Wakarusa Valley**, Joseph A. Heppert. **Washington-Idaho Border**, Richard V. Williams. **Western Carolinas**, Timothy W. Hanks, George L. Heard. **Western Connecticut**, L. Kraig Steffen. **Western Maryland**, Peggy S. Biser. **Western Michigan**, Mark A. Thomson. **Western New York**, David P. Nalewajek. **Wichita**, D. Paul Rillema. **Wichita Falls-Duncan**, Keith R. Vitense. **Wilson Dam**, Amanda Hofacker Coffman. **Wisconsin**, Matthew D. Bowman*, Allen D. Clauss. **Wyoming**, Jane V. Thomas.

Non-Councilors: Edgar Arriaga, Elizabeth P. Beckham, Brian A. Bernstein, Jens Breffke, Mark C. Cesa, Kirby Drake, Raymond Forslund, Kate Fryer, LaTrease E. Garrison, Alicia E. Harris, John C. Katz, Ann C. Kimble-Hill, Mary M. Kirchhoff, Natalie A. LaFranzo, Jennifer L. Maclachlan, Michael B. McGinnis, Steven R. Meyers, Christi Pearson, Barbara F. Polansky, Max B. Saffell, James Schiller, Simanco R. Staley, Ralph Stuart, Frank E. Walworth, Marleen G. Weidner.

The preceding list of attendees at the Council meeting includes the following: 31 Ex- Officio Councilors; 85 Division Councilors (77 elected, 8 alternate); 329 Local Section Councilors (280 elected, 41 alternate, 8 temporary); and 25 Non-Councilors (staff and others). Approximately 55 observers were in attendance.

Resolutions

The Council ADOPTED the following resolution presented by the 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:

Dr. James A. Hammond, retired from NOVA Energy, and Councilor for the San Gorgonio Section from 2004 to 2014.

Dr. Robert Karl Grasselli, distinguished affiliated professor, Technical University of Munich, and Councilor for the Division of Petroleum Chemistry from 1988 to 1989.

Dr. Robert L. Lichter, Principal, Merrimack Consultants, LLC, Councilor for the Northeastern Local Section from 2008 to 2016 and Bylaw Councilor in 2017.

Dr. Robert S. Moore, retired Research Chemist/Laboratory Head at Eastman Kodak, and Councilor for the Polymer Chemistry Division from 1994 to 1996.

Dr. Agnes M. Rimando, research chemist, U.S. Department of Agriculture, and Councilor for the Agricultural and Food Chemistry Division from 2010 to 2018.

Professor Richard D. Cassetta, Professor Emeritus of the College of New Rochelle, and Councilor for the New York Section from 1987 to 1992, 1994 to 1996, and 2011 to 2013.

Dr. I. Dwaine Eubanks, retired Professor, Clemson University, and Councilor for the Oklahoma Section from 1975 to 1989.

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 March 21, 2018.

Report of Interim Actions, Council Policy Committee

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

Election of Members to Elected Committees

Les W. McQuire, chair, Committee on Nominations and Elections (N&E), introduced the candidates for election to the Council Policy Committee, the Committee on Nominations and Elections, and the Committee on Committees (ConC):

4. In accordance with the provisions of Bylaw III, Sec. 3, a, (3), the Committee on Nominations and Elections presented the following nominees for election to membership on the Council Policy Committee beginning in 2019: Lawrence J. Berliner, Michelle V. Buchanan, Alan B. Cooper, Ella L. Davis, Lissa A. Dulany, Lydia E. M. Hines, Lisa Houston, Will E. Lynch, Martin D. Rudd, and Barbara P. Sitzman. By electronic ballot, the Council ELECTED Ella L. Davis, Lissa A. Dulany, Lisa Houston, and Martin D. Rudd for three-year terms (2019-2021), and Will E. Lynch for a one-year term (2019) on the Council Policy Committee.

5. In accordance with the provisions of Bylaw III, Sec. 3, b, (3), the Council Policy Committee presented the following nominees for election to membership on the Committee on Nominations and Elections beginning in 2019: Allison Aldridge, Christopher J. Bannochie, Mary K. Engleman, Kenneth P. Fivizzani, Anne M. Gaffney, David S. Gottfried, James M. Landis, R. Daniel Libby, Silvia Ronco and Frankie K. Wood-Black. By electronic ballot, the Council ELECTED Allison Aldridge, Christopher J. Bannochie, Mary K. Engleman, Silvia Ronco, and Frankie K. Wood-Black for three-year terms (2019-2021) on the Committee on Nominations and Elections.

6. In accordance with the provisions of Bylaw III, Sec. 3, c, (3), the Committee on Nominations and Elections presented the following nominees for election to membership on the Committee on Committees beginning in 2019: Rodney M. Bennett, Richard S. Danchik, Jacqueline A. Erickson, Rick Ewing, Judith M. Iriarte-Gross, Russell W. Johnson, Donivan R. Porterfield, Carolyn Ribes, Frank Romano, and Peter Zarras. By electronic ballot, the Council ELECTED Rodney M. Bennett, Jacqueline A. Erickson, Judith M. Iriarte-Gross, Donivan R. Porterfield, and Carolyn Ribes for three-year terms (2019-2021) on the Committee on Committees.

Reports of Society Officers

President Peter K. Dorhout highlighted two of the many Presidential events scheduled for the Boston meeting: moving the safety values forward and Project SEED. Citing a personal accident while woodworking, he emphasized that one can recognize hazards and assess and minimize risks, but sometimes nothing is as important as planning for accidents. Dr. Dorhout expressed gratitude to the many volunteers from committees and technical divisions across the Society who have taken up this mantle. He announced that later this fall, he will issue a collaborative call to action with the Chemical Safety Board in a joint safety letter to all educators with important safety reminders, particularly for classroom demonstrations, along with references to important safety materials and best practices. He then recognized the 50th anniversary of Project SEED, which has served over 10,000 young people. Its complementary program, ACS Scholars, celebrated its 300th alumnus or alumna to attain a Ph.D.

President-Elect Bonnie A. Charpentier announced that her overarching theme for 2019 is Collaboration: establishing and growing collaborations, and developing understanding of what works and does not work in different types of collaborations. Two broad areas of focus are Advocacy, and Safety and the Environment. She met with Division program chairs at this meeting to discuss opportunities for co-sponsored symposia, future tools to facilitate program collaborations, and opportunities for Divisions to participate in regional meeting programming. As 2019 is the International Year of the Periodic Table of Chemical Elements, she has encouraged all Divisions to consider programming in this area. She intends to build on the work of her predecessors in ensuring the sustainable growth of ACS Advocacy programs, particularly Advocacy work for ACS members at the state level. Dr. Charpentier invited the Councilors to send ideas and suggestions to her at b.charpentier@acs.org.

Immediate Past President Allison A. Campbell, in her last meeting as part of the presidential succession, stated that she accomplished much of what she had planned for her term. Her initiative on Science Advocacy continues to grow with workshops offered at all national meetings between 2016 and 2018, the debut of the workshop at the regional meeting level, and a pilot program this fall for local sections. The *Communicating Science with the General Public* initiative resulted in co-hosted symposia with the Royal Society of Chemistry and the German Chemical Society, and the creation of a module for speaking simply about science offered at the ACS Leadership Institute. The initiative to bring together international chemical societies and communities around universal concepts led to the development of a Global Chemists Code of Ethics and associated training materials endorsed by the ACS Board of Directors. Finally, she plans to have a policy and process in place by the end of the year that will enable ACS local sections and their communities to recover after a disaster.

Dr. Campbell concluded by saying she has enjoyed engaging with members and learning about the impact that ACS members are having locally, especially when responding to disasters and rallying for diversity and inclusion. Members' enthusiasm for chemistry and the profession gives her great hope for the future of ACS.

Board Chair John E. Adams reported that at this national meeting, the Board of Directors discussed and acted on several items of strategic importance to the Society and carried out a number of administrative duties assigned to the Board by ACS Governing Documents. He briefly summarized the most significant of these actions. First, the Board voted to set the advance member registration fee at \$490 for national meetings in 2019. This amount is equal to the current fee adjusted for inflation; no additional incremental fee will be charged in 2019.

Second, the Board approved a program funding request that increases funding for the successful ACS *Festival Series* community outreach program and agreed to allocate on a pro-rated basis to qualified ACS Divisions any net revenues accrued to the Society from the 2020 Pacificchem Conference. Recognizing that this allocation of Pacificchem net revenues is in accordance with past practice, the Board voted to extend this allocation authorization to all future Pacificchem conferences.

Third, the Board expressed support for a refreshed operating model for the Board Standing Committee on Corporation Associates and for a statement indicating the importance of chemical industry to ACS; endorsed efforts to strengthen the global presence of ACS and the impact of Society activities, products, and services; and received an update on initial efforts geared towards the development of the next generation of the ACS Leadership Program.

Finally, the Board received extended briefings from the Committee on Executive Compensation and the Governing Board for Publishing, the latter of which has delegated responsibility and authority for the operations and performance of the Publications Division and CAS.

The Council ADOPTED the following resolution presented by the ACS Board of Directors Chair John E. Adams:

7. BE IT RESOLVED that the Board of Directors and the Council of the American Chemical Society express to Brian A. Bernstein on the occasion of his retirement as the Chief Financial Officer and Treasurer of the American Chemical Society its deep gratitude and appreciation for his nearly 40 years of dedicated service to the Society, including 34 years as ACS Treasurer. We note his high standards of ethics and principles; his key roles in delivering 14 consecutive years of positive financial results and in overseeing investments from under \$200M in 1986 to \$1.7B in 2018; his role in securing the transfer of the \$34M Hach Scientific Foundation assets to ACS; and his many years of able service as staff liaison to the Committees on Budget and Finance, Audits, and Pensions and Investments. We offer Brian our collective and sincere best wishes for a long and happy retirement shared with his wife Sue and their family, punctuated with occasional but consistently straight and long iron shots in the fairway and repeated championships by the Washington Capitals NHL team.

Executive Director & CEO Thomas M. Connelly, Jr., began his report by recalling the challenge with which he ended his report to Council in spring 2018: Membership is Everyone's Responsibility. At that meeting, he referenced the multi-year decline in overall membership and observed that 2018 must be the year when we reverse this trend. He then announced that ACS membership is now down by only a fraction of one percent vs. yearend 2017 and that this can be reversed during the next four months.

The membership team, working under the guidance and support of the Committee on Membership Affairs, the Governance Advisory Group, and the Committee on Professional and Member Relations, have launched unprecedented efforts to recruit and retain members. This includes better use of data to evaluate the impact of programs on membership and more personalized communications to members for everything from renewal notices to *ACS Matters* communications. Staff also have worked to reduce the "friction" associated with joining and renewing membership. Examples include fewer "clicks" for on-line renewal, and on-site renewal starting with this national meeting. He urged Councilors to work through their Local Sections and Divisions to attract new members.

Dr. Connelly announced the launch of a campaign to assure that all ACS staff members who are eligible for membership are, in fact, members. Later this year, ACS will offer joint membership to members of the American Association of Chemistry Teachers (AACT), and if successful, will look to extend the joint membership model to other organizations. ACS will also expand the circle by attracting more ACS Publications' authors, reviewers and Editorial Board members to the full benefits of ACS membership.

He concluded his report by acknowledging Director of Development Kathy Fleming, who is retiring after nearly 23 years of dedicated service to the Society. He also echoed Council's resolution for Treasurer and Chief Financial Officer Brian A. Bernstein for his nearly 40 years of exemplary service, including 34 years as the Society's Treasurer. Dr. Connelly will keep Councilors updated on the searches for suitable candidates to fill these positions.

Reports of Elected Committees

Council Policy Committee (CPC)

Mary K. Carroll, committee vice-chair, asked those Councilors and Alternate Councilors attending their first Council meeting to stand and be recognized. She reported that the CPC Long Range Planning Subcommittee hosted a Strategy Café for Councilors August 21, with more than 40 people in attendance. The subcommittee also reviewed a proposed newly designed Councilor site on the ACS Network. The CPC Working Group on Future Council Representation met recently to discuss setting deadlines for future deliverables, the importance of including various representatives to inform discussions, and the possibility of meeting face-to-face in 2019 outside of national meetings.

Dr. Carroll announced that the Joint Board-CPC Task Force on Governance Design is reviewing its final report. The Council-related portions of the report are in parallel with the ongoing efforts of the CPC Working Group on Future Council Representation. The first phase of the recommendations, which is to streamline the governing documents, is moving ahead with the petition in the Council agenda for consideration.

CPC voted to endorse the Petition on Affiliation with Other Technical Organizations and the Petition to Remove Restrictions for International Chemical Sciences Chapters. CPC also voted to endorse the Petition to Streamline the ACS Governing Documents. While this petition is presently up for consideration, CPC believes a timely endorsement of this petition is appropriate and important.

Dr. Carroll reminded Council that the Councilor Divisor, which sets representation on Council by Local Sections and Divisions for 2020-2023, must be established by May 1, 2019. A task force will be set up to begin work on this early next year.

Committee on Committees (ConC)

Carolyn Ribes, committee chair, reported that the ACS Bylaws require that ConC review each Joint Board-Council Committee and Other Committees of the Council no less often than every five years and advise the Board of Directors and Council whether they should be continued. In fulfilling the Bylaw mandate, a performance review for the Committee on Chemical Safety is complete. On behalf of ConC and with the concurrence of CPC, Dr. Ribes sought approval of continuation for the Committee on Chemical Safety.

8. VOTED to approve the continuation of the Committee on Chemical Safety, subject to confirmation by the Board of Directors.

ConC voted to endorse the Petition on Affiliation with Other Technical Organizations and voted to take no position on the Petition to Remove Restrictions for International Chemical Sciences Chapters.

Dr. Ribes announced that ConC will once again conduct a demographic survey in 2019 of those on the 29 Council-related committees. The very successful 2016 survey had a participation rate of 76% across the Council-related committees.

ConC hosted the first “Speed Networking for Committees” webinar focusing on “Networking and Advocacy Outside of the ACS”. ConC plans to organize future speed networking events around additional topics.

Following consultation with committee chairs, staff liaisons, and members, ConC is currently developing its recommendations for 2019 Committees including Chairs, members, associates, and consultant appointments for consideration by the President-Elect and the Chair of the Board of Directors. ConC will conduct its annual New Chairs Training Session in Atlanta, GA, January 25-27, 2019, as part of the ACS Leadership Institute.

On behalf of the ACS Office of the Secretary and General Counsel, Dr. Ribes announced that the 2018 Yellow Book is now available online. With continued upgrades, the expectation is to publish it biannually, and then quarterly by 2020. She demonstrated the enhancements.

On behalf of Council, ConC recognized 49 Councilors who will have served the statutory limit or otherwise completed their service on ACS governance committees at the end of 2018; 13 committee chairs who will have served the statutory limit on the committees they chair; and 37 Councilors observing 15, 20, 25, 30, 35, or 45 years of service as members of the Council.

Nominations and Elections (N&E)

Les W. McQuire, committee chair, reported the results of the morning's elections to the Council Elected Committees (see items 4-6).

N&E received positive feedback from those who attended the Director-at-Large Town Hall Meeting on Sunday.

Distribution of ballots for the 2018 fall national election will take place October 1-3, with a voting deadline four weeks later, on October 31. The election will take place via the internet with the option to request a paper ballot. Those members who do not have an email address on file will be sent a paper ballot with the option to vote electronically.

In its executive session, the committee developed slates of potential nominees for President-Elect for 2020, the Directors of Districts II and IV for 2020-2022, and a slate of potential candidates for Directors-at-Large for 2020-2022. The pertinent biographical information for candidates will appear in the Council agenda for the ACS National Meeting in Orlando next March, and posted on www.acs.org/elections. N&E is always interested in receiving names of qualified members to serve in nationally elected offices. Councilors can submit suggested names to nomelect@acs.org.

Reports of Society Committees and the Committee on Science

Budget and Finance (B&F)

Joseph Heppert, committee chair, reported that the Society's 2018 Probable 1 Projection calls for a Net from Operations of \$31.8 million. This is \$1.3 million favorable to the Approved Budget. Total revenues are projected to be \$565.1 million, which is \$5.7 million or 1.0% favorable to the Budget. Total expenses are projected at \$553.3 million, which is \$4.4 million or 0.8% unfavorable to the Budget.

The committee considered one 2019 program funding reauthorization request, and on its recommendation, the Board subsequently approved funding the *ACS Festival Series* for inclusion in the 2019 Proposed Budget and the 2020-2021 Forecast Budgets.

The Society is expected to end the year in compliance with each of the five Board-established financial guidelines. Additional information can be found at www.acs.org, at the bottom of the page, click on "About ACS", then on "Financial".

Education (SOCED)

Jennifer Nielson, committee chair, reported that graduate education was the special discussion topic for SOCED during its executive session and open meeting. The committee discussed the recommendations made to professional societies in the recent report, *Graduate STEM Education for the 21st Century: A Consensus Study Report of the National Academies of Science, Engineering and Medicine*. Strategies for supporting graduate students, faculty, and programs were identified. A task force consisting of SOCED members and other stakeholders will be established to identify competencies for graduate students in the chemical sciences in both Masters and Ph.D. programs through extensive consultation with the community. Coupled with the prior work of the ACS Presidential Commission on Graduate Education in the Chemical

Sciences, there is opportunity to consider how ACS can play an even greater role in advancing 21st century graduate education in STEM, broadly and in the chemical sciences, specifically.

The committee received updates on science education policy initiatives, including recent reauthorization of the Career and Technical Education Act. The committee will be considering revisions to the ACS Science Education Policy Statement, which expires in 2019.

SOCED voted to dismiss, with thanks, the Task Force on ACS Guidelines and Recommendations for Teaching Middle and High School Chemistry.

SOCED thanked leaders of ACS committees and divisions who responded to its questionnaire about educational activities and opportunities. Results from the questionnaire and consideration of strategic change drivers will inform the strategic planning retreat SOCED is holding in September.

Science (ComSci)

Mark Cesa, committee chair, reported that the committee met in Boston with the Editor-in-Chief of *Accounts of Chemical Research* to advance ComSci's goal to identify new frontiers for chemistry and share strategies for identifying emerging areas.

ComSci approved updated policy statements on energy and hydraulic fracturing. The committee organized the symposium, "DARPA Make-It Program: Automating Small Molecule Route Design, Optimization and Synthesis," for which colleagues at the Defense Advanced Research Projects Agency (DARPA) served as co-organizers. ComSci also co-sponsored a symposium on synthetic biology and the Presidential symposium on ion transport at the nanoscale.

Special Discussion Item

President Dorhout introduced and led a special discussion on what role(s) ACS should play in preventing sexual harassment in the sciences. He highlighted several recent articles, workshops and studies that have called attention to the issue, notably the symposium, "Science of Sexual Harassment," which was held during the ACS National Meeting in New Orleans (Spring 2018) by the Women Chemists Committee and *Chemical & Engineering News*; and the National Academies of Sciences, Engineering, and Medicine 2018 consensus study report, "Sexual Harassment of Women: Climate, Culture, and Consequences in Academic Sciences, Engineering, and Medicine." He directed Council's attention to existing ACS codes and initiatives to address sexual harassment that were included as background information in the Council agenda.

To help inform the discussion and stimulate input, a brief survey was conducted using the audience response system, with the results shown immediately on screen. The results were also to be reported in the Councilor Talking Points issued shortly after the meeting.

After the survey, Dr. Dorhout listed prompts for discussion or consideration for possible action and invited Councilors to address these in their comments from the floor: (1) more signage and information at national meetings regarding our policies; (2) trained volunteers at national meetings for reporting sexual harassment; (3) a webinar on preventing sexual harassment for local sections and divisions; and (4) additional suggestions on what other roles should ACS play in preventing sexual harassment in the sciences.

Twenty-nine Councilors shared their observations, comments, and suggestions. Dr. Dorhout concluded the discussion by thanking the Council for contributing to a difficult but very important conversation. A detailed summary of the discussion and additional information will be sent to Councilors later.

Reports of Standing Committees

Divisional Activities (DAC)

Rodney M. Bennett, committee chair, reported that at the spring Council meeting in New Orleans, a formula proposed by DAC for allocating dues funds to divisions was returned to DAC for further consideration. At this meeting, the committee agreed to maintain the current formula while DAC collects the requested data regarding division participation at ACS regional and international meetings.

The committee is developing a new initiative, “Convergence Research Communities,” to enhance collaboration among divisions and attract new science topics and audiences to the national meeting. DAC will share details on this initiative with divisions before year-end.

“Division Row”, which was designed to help divisions engage with the younger chemists who are prevalent at Sci-Mix, was held again at his meeting with 16 divisions participating.

The committee voted to fund 11 Innovative Project Grants totaling \$73,000. DAC will consider another set of IPG proposals next spring. The deadline for that round of submissions is February 1, 2019.

Mr. Bennett reported that as of July 31, the number of new ACS members who joined at least one division increased from 35% to 42%. The committee attributes this improvement to two factors: 1) staff is making a more concerted effort to promote division membership to new ACS members and 2) new ACS members can now obtain up to three complimentary, one-year division memberships.

Local Section Activities (LSAC)

Jason Ritchie, committee chair, reported that 174 of the 185 local sections have completed their 2017 annual reports; LSAC is working to assist the remaining sections. The 2018 Local Section Annual Report forms will be available beginning November 1, 2018. The deadline for submitting annual reports is February 15, 2019. Local sections were reminded that the Forms Online Report Management System is available year round for reporting activities and events as they occur.

Seventeen additional Innovative Program Grants (IPGs) for 2018 totaling \$42,350 have been awarded, bringing the total IPGs awarded in 2018 to \$86,320.

LSAC is pleased to announce the continuation of the Members Engaging Through Technology (METT) grants program. The grants assist local sections in harnessing technology to engage members and fulfill local section goals and activities. The call for applications will be issued after Labor Day with a mid-October deadline for applications.

Dr. Ritchie announced that the Technology Resources Guide will be available on the ACS Network in September. This guide provides practical and detailed information for best practices on electronic elections, event marketing, social media, and overall communication strategies for ACS component groups.

LSAC is in the process of reviewing the procedures for the Local Section Dues Pool allocation and will present a recommendation to Council at the spring meeting.

Membership Affairs (MAC)

Margaret Schooler, committee chair, reported that as of August 21, ACS had 149,584 members, a decline of only eight-tenths of one percent from the over 150,000 members in 2017. She noted that five of the last seven months have, respectively, been the best months for membership since 2014. The current member count positions ACS for a strong close to the year. MAC is cautiously optimistic that ACS will see total membership growth for the first time since 2011.

Ms. Schooler called attention to two initiatives currently underway to ensure that membership remains healthy and robust in both the short and long term. The first, called the in-line membership program, provides non-member attendees at national meetings with the opportunity to purchase both their membership and registration in-line using the same form at the same time. She reported that as of today, 1,951 new members were created through this process, reducing the number of non-member attendees to 11% from the usual 15-20% of attendees who remain non-members.

The second initiative is the renewal drive test. All ACS members who attended the Boston meeting were eligible to renew their membership and receive a 20% discount on their national dues at the membership lounge in the convention center. Offering renewals onsite saves significant time and resources, removing the need to mail, email, and call members to remind them that their membership is expiring. Through August 21, 376 renewals were processed, which is a 1,200% increase over the 30 renewals usually handled at a national meeting.

MAC considered the Petition on Affiliation with Other Technical Organizations, which was up for action at this meeting. The committee supported the petitioners' intent to add DAC's and LSAC's respective responsibilities to approve affiliations with other technical organizations to Bylaw XI because these duties are already in their respective duties in Bylaw III. On behalf of MAC, Ms. Schooler recommended that Council approve the petition.

9. VOTED to amend Bylaw XI, Section 3, accordingly (additions **underlined**; deletions ~~struck through~~), subject to confirmation by the Board of Directors:

Affiliations of SOCIETY Local Sections or Divisions shall become effective upon authorization by their governing body, **approval by their respective Council committees governing Local Sections and Divisions**, and by confirmation by the Council Committee on Constitution and Bylaws acting for the Council, that the provisions of Section 1 of this Bylaw are met.

MAC considered the Petition to Remove Restrictions for International Chemical Sciences Chapters, which was up for action at this meeting. The committee supported the petitioners' intent to remove the allotment restriction for International Chemical Sciences Chapters and to remove the restriction that prevents International Chemical Sciences Chapters from having elected representation on the Council. On behalf of MAC, Ms. Schooler recommended that Council approve the petition.

10. VOTED [Yes 318 (81%) / No 77 (19%)] to amend Bylaw IX, Section 4, accordingly (additions **underlined**; deletions ~~struck through~~), subject to confirmation by the Board of Directors:

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

Economic and Professional Affairs (CEPA)

Tiffany N. Hoerter, chair, reported that the revision cycle has begun for the *Professional Employment Guidelines*. CEPA has identified key stakeholders and the final version will be submitted to Council for action in 2019. CEPA is also revising the language in the *Chemical Professional's Code of Conduct* to address harassment.

ACS launched a modular survey in 2017 and CEPA is evaluating the significance of the data collected. Unfortunately, the response rate to date for the new survey has been lower than anticipated and the committee is working to increase it. Ms. Hoerter stated that salaries in industry, academia, and government have been flat over the past three years, and when adjusted for inflation, appear to have declined slightly.

Median salaries reported by ACS members self-identifying as female are 80% of those reported by members self-identifying as male, which is in line with reported national trends. CEPA will continue to monitor this trend.

The ACS onsite Career Fair continues to be integrated with the exposition, with the ability for all exposition participants to share job-related information. To expand career services to all members, ACS jump-started a pilot local Career Fair tour to meet more members, connect with local employers, and expand the Career Fair beyond the national meeting. Trial events will occur later this year in Philadelphia, Berkeley, and Augusta, at the Southeast Regional Meeting.

Meetings and Expositions (M&E)

Kevin Edgar, chair, reported that 10,543 scientific contributions have been made to the 256th national meeting in Boston. As of August 20, the total attendance for the meeting was 14,235.

As part of M&E's sustainability plan, a limited number of print copies of the program book for Boston were available for sale. As of August 19, 869 program books were sold. Conversely, the mobile app had received more than 7,000 downloads and the online planner had been accessed over 20,000 times. Since the demand for the print program books has continued to decline, M&E voted to eliminate the print version of the national meeting program book for future meetings. The committee and ACS staff will investigate alternative, less expensive, self-printable options.

Because of continued improvements begun last spring, the show floor in Boston was 99% sold, with 441 booths and 301 exhibiting companies. Enhancements for Boston included an expanded Career Fair and the addition of a social media engagement area to the recharge lounge.

Nearly 1,100 attendees participated in four regional meetings this spring in the Northeast, Middle Atlantic, Central, and Northwest regions. Five additional regional meetings will take place this fall. The Regional Meeting subcommittee and ACS staff will continue to create and implement resources to support the local section volunteers, who create the regional meetings. The Regional Meeting Planning Conference will once again take place in conjunction with the Leadership Institute in January 2019.

M&E voted unanimously to support the Petition to Streamline the ACS Governing Documents.

Constitution and Bylaws (C&B)

V. Dean Adams, committee chair, reported that C&B certified 10 unit bylaws so far in 2018. The committee proactively contacted seven divisions and 58 local sections to notify them that their bylaws are out of date and not consistent with the ACS Governing Documents. All current bylaws, the model bylaws, and other options to update unit bylaws are available on ACS's website (www.acs.org/bulletin5) or you may contact C&B at bylaws@acs.org. If unit bylaws have not been updated in a while, they might require that election balloting be done by U.S. mail. The ACS Governing Documents, also known as Bulletin 5, were updated as of July 1, 2018. The online version is the authoritative version.

Dr. Adams directed Council's attention to the Petition to Streamline the ACS Governing Documents, which will be up for action in Orlando. Final reports from B&F and C&B will be in this petition in the spring Council agenda.

New petitions to amend the Constitution and/or Bylaws must be received by the Executive Director no later than December 12 for consideration by the Council at the spring meeting in Orlando.

Reports of Other and Joint Board-Council Committees

Younger Chemists (YCC)

Natalie LaFranzo, chair, highlighted several YCC initiatives at the local, regional, national, and international levels. YCC continues to involve younger chemists in the ACS National Election through its “Catalyze the Vote” initiative. On September 27, the committee will host an interactive Live Virtual Town Hall so younger members can ask the candidates for ACS President-Elect questions about future growth for the Society. Councilors were asked to encourage younger chemists to join YCC and vote on October 16.

Five younger chemists participated in the 2018 ACS Legislative Summit, visiting Capitol Hill with ACS Board members and practicing the training received in 2017 through Immediate Past President Allison Campbell’s Advocacy Training.

In Boston, YCC engaged the Committee on Professional Training and CEPA to collaborate and work together. The committee also organized two “Virtual Networking Events” where younger chemists could learn more about ACS and how to establish their own local section YCCs.

Internationally, YCC members presented a “Crash Course on Professional Development” and facilitated an Innovation-themed Networking Event at the inaugural ABCChem meeting in Cancún, Mexico in early 2018.

Senior Chemists (SCC)

Thomas R. Beattie, chair, reported that SCC’s programming activities and outreach continue to expand, providing increased engagement for ACS senior members. The *Newsletter for Senior Chemists*, emailed to 41,000 ACS seniors, is now issued three times annually. The new SCC webpage on ACS.org launched in May and experiences healthy user activity, as does the Senior Chemists Group on the ACS Network.

In Boston, SCC co-sponsored with YCC a pilot program, “Networking with Chemistry Professionals” Donut Sundae Bar, to engage undergraduates and younger chemists. There are plans for a similar event in spring 2019. The committee also hosted another sold-out Senior Chemists Breakfast; presented two ChemLuminary Awards (“Best Ongoing Senior Activity” and “Most Innovative Activity for Senior Chemists”); and cosponsored with the Polymer Chemistry Division, “The History of Polymer Chemistry” symposium.

Public Relations and Communications (CPRC)

Jennifer L. Maclachlan, chair, said that CPRC continues to champion bringing chemistry to the public, sharing the excitement of chemistry and science with non-scientists, and helping other ACS units communicate effectively with their constituents. CPRC collaborated with IUPAC’s Committee on Chemical Research Applied to World Needs to present a Social Media 101 workshop in Boston where well-known social media mavens gave short presentations and led roundtable discussions on various social media platforms. A Social Media 101 webinar is planned for the fall. The committee is assisting local sections and divisions to develop unique PR “makeovers”. Councilors were invited to contact pidgirl@gmail.com to learn more.

CPRC presented three ChemLuminary awards in Boston, notably, the Helen Free Award for Public Outreach, and two Outstanding Awards for new and continuing public relations programs.

Project SEED (SEED)

Don L. Warner, chair, reported that at this meeting, Project SEED held successful events on the program’s 50th Anniversary Celebration: a Presidential symposium, “Growing with Project SEED: 50 years and 10,000+ Students,” followed by a reception to honor mentors and coordinators. Both events were supported financially by the ACS Publications Division and Chemical Abstracts Service (CAS), and cosponsored by

more than two dozen of the Society's technical divisions and committees. The Committee on Minority Affairs luncheon honored the 50th Anniversary of Project SEED, and the ACS Development Office hosted a donor reception, "A Conversation with Sir Fraser Stoddart." At SciMix, approximately 70 students presented posters describing their research.

Project SEED approved projects this year that placed 426 high school students in nearly 120 academic, government, and industrial laboratories doing meaningful chemistry research, in 38 states, Washington, DC, and Puerto Rico. The estimated program cost was \$1.1M. The committee also awarded 28 one-year college scholarships, totaling \$140,000, and three renewable CIBA scholarships to former Project SEED students for the 2018-2019 academic year.

On behalf of Project SEED, Dr. Warner thanked those Councilors who financially contributed to the program in response to the 50th Anniversary appeal, "50 Forward". He concluded his report with a brief video that is used as part of Project SEED's fundraising efforts.

Professional Training (CPT)

Edward A. Arriaga, chair, stated that CPT's activities at this meeting included a review of 30 approved programs and the approval of two new undergraduate chemistry programs.

CPT has a new strategic plan that focuses on the value of outcome-based assessments, the skills and competencies needed to prepare students for successful careers, and the benefits of an ACS approved program. Information gathered in support of these goals will be essential in developing a new set of guidelines for ACS approval that will guide the undergraduate education system in the next decade. Information gathering at this meeting included a working lunch with the Younger Chemists Committee and another lunch meeting with 59 representatives from undergraduate and PhD granting institutions.

The committee reached out to undergraduate programs that are not ACS approved through a workshop focusing on the approval process and best practices. Participants attended from five institutions seeking approval.

CPT will work with the Committee on Minority Affairs to develop a Diversity Supplement to provide guidance to approved programs on welcoming, recruiting, hiring, and maintaining a diverse faculty.

Patents and Related Matters (CPRM)

Kirby B. Drake, chair, highlighted areas where CPRM focused on advocacy, education, and honors related to intellectual property (IP). The committee spearheaded the effort for ACS to adopt the Intellectual Property Policy Statement, which provides a vehicle for ACS to support actively the continued development of a robust IP system. CPRM collaborates with the United States Patent and Trademark Office (USPTO) in fostering innovation, and works to secure volunteer chemical scientists and engineers, both from industry and academia, to serve as guest lecturers in the USPTO's Patent Examiner Technical Training Program. The committee makes publications and informational materials on patents, trade secrets, copyrights, and technology transfer issues affecting chemistry, freely available through the ACS website. CPRM also works to promote recognition of chemistry-related inventors' contributions by recommending that the Board nominate deserving chemical scientists and engineers for external awards. Councilors seeking more information can contact CPRM at patents@acs.org.

Nomenclature, Terminology and Symbols (NTS)

Michael D. Mosher, chair, announced that a recent Strategic Planning session invigorated the committee structure and enhanced its capabilities better to serve the Council and membership.

In collaboration with the Braille Authority of North America, the committee has facilitated discussions with visually impaired chemists to standardize the Braille code for chemistry. This effort will improve the ability of the code to represent chemical structures, increase the usage of the code through advocacy and outreach, and remove redundancy in the existing code. The project is targeted for completion by the end of 2019.

NTS is preparing a series of educational materials on the nomenclature of the Periodic Table, the proper use of symbols in representing thermodynamic quantities, and the redefinition of the SI base units. These materials include worksheets for elementary, middle, and high school students that align with educational standards. In conjunction with the International Year of the Periodic Table of Chemical Elements, NTS is developing seminars, educational materials, and information packets for students and scientists that refer to and focus on the Periodic Table.

Minority Affairs (CMA)

Ann C. Kimble-Hill, chair, announced that CMA, in conjunction with the Diversity & Inclusion Advisory Board, is in the process of developing a new ACS Diversity and Inclusion workshop for the Leadership Institute to help future and current ACS leaders have a toolbox to develop diverse teams. At this meeting, the committee piloted a Diversity and Inclusion workshop for governance committee members.

CMA also discussed strategies to help the Council and Board of Directors actively practice the Society's diversity and inclusion core value, while keeping in mind the strategic drivers of the Society. Dr. Kimble-Hill stated that the committee thinks that being a welcoming Society requires diversity and inclusion to be incorporated more fully and completely into all of the functions, strategies, and key areas of collaboration within Society governance.

CMA heard highlights so far in 2018 from the ACS Scholars Program, particularly the high levels of success in supporting gifted students from under-represented groups to graduate from college in the chemical sciences. At this time, over 300 scholar alums have received their PhDs. The CMA Luncheon on Monday recognized the 50th Anniversary of Project SEED.

International Activities (IAC)

Jens Breffke, chair, highlighted several activities in Boston that supported IAC's efforts to serve ACS global initiatives. The IAC Welcome Reception hosted over 600 international meeting attendees and a networking event, for ACS members to meet scientists from research groups in developing nations, drew 150 attendees. At its luncheon and various meetings, IAC welcomed dignitaries of sister societies and partners from Australia, Canada, China, Germany, Mexico, and Taiwan, as well as leadership of the International Union of Pure and Applied Chemistry (IUPAC), and the Federation of Asian Chemical Societies, whose executive committee was also meeting in Boston. Also in attendance were the volunteer leaders of ACS International Chapters in Australia, China, South Korea, and Peru. Discussions focused on interests and priorities for the 100th Anniversary of IUPAC; the celebration of the International Year of the Periodic Table in 2019; and how ACS might improve co-alignment of activities among ACS International Chapters, International Student Chapters, and their respective national chemical societies.

The committee reviewed an application from Pakistan to establish an ACS International Chapter and recommended Council's consideration in Boston and action in Orlando.

IAC created a working group to ensure that the efforts of ACS International Student Chapters are nurtured and co-aligned with the interests of ACS International Chapters and the respective national chemical societies in their countries.

On behalf of the committee, Dr. Breffke recommended Council's approval for the establishment of an ACS International Chapter in Colombia.

11. VOTED, on the recommendation of the Committee on International Activities, to approve the establishment of the ACS International Chemical Sciences Chapter in Colombia, subject to confirmation by the Board of Directors.

Ethics (ETHX)

Judith N. Currano, chair, announced the online publication in June of the committee's first Symposium Series volume, *Credit Where Credit Is Due: Respecting Authorship and Intellectual Property*, which was co-sponsored with the Division of Chemical Information. In Boston, ETHX co-organized with the Division of Chemical Information a symposium on the "Ethics of Data Sharing", and is planning a session for the Orlando meeting entitled, "Publish, Patent, or Perish: Ethical Communication in Chemistry".

Ms. Currano stated that ETHX has received many communications from members, citing a variety of ethical concerns, and in some cases, requesting resolution to upsetting and troublesome situations. While the committee can provide members with resources and make referrals, its charge precludes it from adjudicating ethics cases raised by ACS members. She suggested that if this need by members cannot be filled through referrals to other entities, the Society might want to consider forming an adjudicatory body in the future.

Environmental Improvement (CEI)

Jurgen Exner, interim chair, reminded Councilors of CEI's efforts, begun 15 years ago, to address environmental problems. The committee addressed how to make sustainability part of everyone's decision-making. He said that because of the efforts of many chemists, then and now, we are now closer to this goal. Other organizations have picked up the theme; this year, the United Nations formulated 17 sustainable development goals for the year 2030. CEI's duty, as it was 15 years ago, is to address these. With other committees, CEI has completed policy statements on energy and hydraulic fracking. CEI also is examining the crucial issue of clean water and preparing a fact sheet on the emerging field of synthetic biology, which is the subject of the Presidential Symposium for the Boston meeting.

Community Activities (CCA)

Michael B. McGinnis, chair, reported that on August 18, a very successful ACS Presidential Outreach Event, "Exploring our World through Chemistry," which was led by CCA with volunteers from the Northeastern Section, was held at the Boston Children's Museum. Local organizations, including the Museum of Science and Beyond Benign, hosted additional hands-on activities for the 702 participants.

CCA has released for distribution the 2018 edition of the National Chemistry Week's children's publication, *Celebrating Chemistry*. This year's theme is space chemistry and titled "Chemistry is out of this World!"

The committee also announced that the ACS Chemistry Festival Series, also supported by the IAC and SOCED, was reauthorized in Boston by the Board of Directors.

Chemists with Disabilities (CWD)

James Schiller, chair, reported that the committee conducted a strategy meeting in Boston. He also provided informational updates on CWD's related activities and programs. The application deadline for the ACS-CWD Travel Award to the spring national meeting in Orlando is December 15, 2018. The award provides up to \$3,000 for an undergraduate, graduate student, or post-doc with disabilities to present a talk

or poster at an ACS national meeting. The committee is also seeking nominations for CWD's ChemLuminary award, which recognizes the outstanding efforts of a local section to design chemistry programs to increase the participation of people with disabilities.

CWD is developing content for its YouTube channel on promoting awareness of chemistry students and professionals with disabilities, and sharing best practices for teaching chemistry to students with disabilities. The goal is to model "what success looks like" for students and educators with unique content from ACS symposia and committee member video profiles. A promotional video highlighting the goals and objectives of CWD was also previewed in Boston.

Chemistry and Public Affairs (CCPA)

Raymond E. Forslund, chair, highlighted instances where CCPA works to motivate and support ACS members to advocate for science. The committee applauded the advocacy training that ACS Immediate Past President Allison Campbell has sponsored at national and regional meetings and via ACS webinars. Interested members who missed these opportunities can still attend the November 2 advocacy training session at the Southeast Regional Meeting.

ACS supports two Congressional Fellows who spend a year working in Congress for the U.S. Representative or Senator of their choice, and also supports a Science Policy Fellow, who gains broad exposure to policy issues in the federal agencies while working side-by-side with ACS staff. Dr. Forslund reminded Councilors that the fellowships are open not only to recent PhD graduates, but also to mid-career chemists, too.

Chemical Safety (CCS)

Ralph Stuart, III, chair, highlighted three key committee activities. At the request of President Dorhout, CCS and other ACS stakeholders and related professional organizations cosponsored the 2018 ACS Safety Summit to explore how the ACS Core Value of "Professionalism, Safety and Ethics" can be further integrated in the Society's strategic plan.

The committee, in partnership with the Division of Chemical Health and Safety (CHAS) and ACS staff, developed a workshop to help graduate students define and develop leadership skills around safety in laboratories. These workshops were offered at both national meetings this year; based on the success of these workshops, CCA expects to enhance this offering in 2019.

In June, the Safety Advisory Panel of CCS met with members of the Division of Chemical Information, experts from the National Library of Medicine, and safety professionals from leading research universities to identify opportunities to continue working to make chemical safety information as useful as possible in the academic environment.

New Business

Resolutions

The Council ADOPTED the following resolutions:

12. BE IT RESOLVED That the Council of the American Chemical Society expresses to the officers and members of the Northeastern Local Section, host section for the 256th 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 256th National Meeting.

13. BE IT RESOLVED That the Council of the American Chemical Society expresses to Peter K. Dorhout, President of the Society in 2018, its sincere appreciation for his service as its presiding officer, and its gratitude for his 33 years as a member of the Society. The Council appreciates his efforts to ensure that the next generation of chemists is more diverse and representative through his tireless advocacy on behalf of Project SEED and the ACS Scholars Program, and his leadership in representing the Society and its members at numerous international events. The Council also urges continued support for his resolve in ensuring that all chemistry is practiced safely for the well-being of the practitioner and the environment, his determination in addressing the global challenges of water scarcity and purity through chemistry to ensure a healthier and sustainable future, and his unyielding enthusiasm for engaging with younger chemists at all levels. The Council extends to President Dorhout and his wife Carolyn its best wishes in their future endeavors and for his continuing professional and personal achievements, especially the safe practice of woodworking.

There being no further business, the meeting adjourned at 12:32 p.m.

Flint H. Lewis
Secretary