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AMERICAN CHEMICAL SOCIETY

Council Agenda

**Wednesday, August 28, 2019
8:00 AM**

**Sapphire Ballroom
Hilton San Diego Bayfront Hotel
San Diego, California**

COUNCIL, AMERICAN CHEMICAL SOCIETY
 8:00 A.M., August 28, 2019
 Sapphire Ballroom
 Hilton San Diego Bayfront Hotel
 San Diego, California

AGENDA

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**DRAFT
MINUTES
COUNCIL
AMERICAN CHEMICAL SOCIETY**
April 3, 2019
Orlando, Florida

The Council of the American Chemical Society met in Orlando, Florida, on April 3, 2019, beginning at 8:00 a.m. Bonnie A. Charpentier, 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, William F. Carroll, Jr., Bonnie A. Charpentier, Thomas M. Connelly, Jr., Peter K. Dorhout, Luis A. Echevoyen, Rigoberto Hernandez, Catherine T. Hunt, Paul W. Jagodzinski, Wayne E. Jones, Jr., Lee H. Latimer, Katherine L. Lee, Flint H. Lewis, Ingrid Montes, E. Ann Nalley, Donna J. Nelson, Gordon L. Nelson, Attila E. Pavlath, Dorothy J. Phillips, Barbara A. Sawrey, Diane Grob Schmidt, Kathleen M. Schulz, Bassam Z. Shakhshiri, Marinda Li Wu.

Divisions: *Agricultural & Food Chemistry*, Michael Appell, John W. Finley, Michael C. Qian*, Michael H. Tunick. *Agrochemicals*, Rodney M. Bennett, Jeanette M. Van Emon. *Analytical Chemistry*, Michelle V. Buchanan, Bryant C. Nelson, Susan J. Olesik, Emily A. Smith. *Biochemical Technology*, Arindam Bose, Cynthia H. Collins, Sadettin Ozturk, Sharon P. Shoemaker. *Biological Chemistry*, Barbara L. Golden, Robert E. Minto*, Andrew S. Murkin, 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, Sheila M. Murphy. *Chemical Education*, Roxana Allen, Laura J. Anna*, Iona Black, Sally B. Mitchell. *Chemical Health & Safety*, Debbie M. Decker, Frankie K. Wood-Black. *Chemical Information*, Svetlana Korolev, Bonnie A. 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, Terry R. Stouch. *Energy & Fuels*, Joe D. Allison, Elise B. Fox, Lisa Houston, Randall E. Winans*. *Environmental Chemistry*, V. Dean Adams, George P. Cobb, III, Alan W. Elzerman, Jillian L. Goldfarb*. *Fluorine Chemistry*, David A. Dixon. *Geochemistry*, Anastasia G. Ilgen. *History of Chemistry*, Roger A. Egolf, Mary Virginia Orna. *Industrial & Engineering Chemistry*, Spiro D. Alexandratos, Mary K. Engelman, Janet Smith*, Peter M. Smith. *Inorganic Chemistry*, Debbie C. Crans, Karen Goldberg, Clark R. Landis. *Medicinal Chemistry*, Jane V. Aldrich, William J. Greenlee, Carrie Haskell-Luevano, Michael A. Walters*. *Nuclear Chemistry & Technology*, Silvia S. Jurisson, Graham F. Peaslee. *Organic Chemistry*, David A. Conlon, Huw M.L. Davies, Karl B. Hansen, Katherine N. Maloney. *Physical Chemistry*, Victor S. Batista, Judy E. Kim, Theresa L. Windus. *Polymer Chemistry*, Mary Ann Meador, Laura M. Stratton*, Gregory N. Tew, Kathryn E. Uhrich. *Polymeric Materials: Science & Engineering*, Anthony J. Dias, Benny D. Freeman, 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*, Patrick Tomco*. *Ames*, Javier Vela-Becerra. *Auburn*, Anil C. Banerjee*. *Baton Rouge*, Bryan K. Franklin. *Binghamton*, Alexsa Silva. *Brazosport*, Carolyn Ribes. *California*, G. Bryan Balazs, Michael T.H. Cheng, Mark D. Frishberg, Sushila Kanodia, Alex M. Madonik*, Eileen M. Nottoli, James M. Postma, Elaine S. Yamaguchi. *California Los Padres*, Justin A. Russak. *Carolina-Piedmont*, Matthew K. Chan, Marilynn J. Sikes. *Central Arizona*, Douglas J. Sawyer. *Central Arkansas*, Martin D. Perry, Jr. *Central Massachusetts*, Meledath Govindan. *Central New Mexico*, Alexander S. Edgar*, Donivan R. Porterfield. *Central New York*, Alyssa C. Thomas. *Central North Carolina*, Robert A. Yokley. *Central Ohio Valley*, Gary D. Anderson. *Central Pennsylvania*, Lori R. Stepan. *Central Texas*, Raychelle M. Burks, Barry J.

*Alternate Councilor

**Temporary Substitute Councilor

Streusand. *Central Utah*, Jennifer B. Nielson. *Central Wisconsin*, David E. Lewis**. *Chattanooga*, Rebecca Riggs. *Chemical Society of Washington*, Allison A. Aldridge, Alan J. Anderson, Joseph M. Antonucci, Christopher W. Avery*, John M. Malin, Sara V. Orski, Judith F. Rubinson, Bradley A. Scates, Jennifer Y. Tanir. *Chicago*, Charles E. Cannon, Kenneth P. Fivizzani, Russell W. Johnson, Fran K. Kravitz, Josh W. Kurutz*, Margaret S. Levenberg, Milton Levenberg, Inessa Miller, Susan Shih. *Cincinnati*, Kathleen Gibboney, Susan A. Hershberger, Richard J. Mullins. *Cleveland*, Dwight W. Chasar, Michael J. Kenney. *Coastal Georgia*, Will E. Lynch. *Colorado*, Lawrence J. Berliner, Sandra J. Bonetti, Connie Gabel, Brian W. Michel*, Susan M. Schelble, Rebecca Shircliff. *Columbus*, Joan M. Esson, Edmund T. King, Virginia H. Songstad. *Connecticut Valley*, Kevin R. Kittilstved, Michael Knapp, Julianne M.D. Smist, Frank J. Torre. *Corning*, Roger F. Bartholomew. *Dallas-Fort Worth*, Mary Anderson, Jason L. McAfee, Linda D. Schultz, E. Thomas Strom. *Dayton*, Steven Trohalaki. *Decatur-Springfield*, Harry J. Elston. *Delaware*, John Gavenonis, Tiffany N. Hoerter, Martha G. Hollomon, Margaret J. Schooler. *Detroit*, Mark A. Benvenuto, Mary Kay Heidtke, James M. Landis, Jr. *East Central Illinois*, Amy Nicely. *East Tennessee*, Alan A. Hazari, John Z. Larese. *East Texas*, Michael Sheets*. *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*, Holly L. Davis*, Lissa Dulany, David S. Gottfried, Mark B. Mitchell, Joseph P. Stoner. *Greater Houston*, Carolyn A. Burnley, Lawrence W. Dennis, Amber S. Hinkle, Mamie W. Moy, Laurent Pirolli, David M. Singleton, Sunny C. Tang. *Green Mountain*, Willem R. Leenstra. *Hampton Roads*, Lisa S. Webb. *Huron Valley*, Ellene T. Contis, Lawrence H. Kolopajlo. *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*, Jeff Seyler. *Inland Northwest*, Jeffrey A. Rahn. *Kalamazoo*, Lydia E.M. Hines. *Kanawha Valley*, Madan M. Bhasin. *Kansas City*, Gary E. Clapp*, Sarah J. Leibowitz. *Kansas State University*, Viktor Chikan. *Kentucky Lake*, Robbie Montgomery. *LaCrosse-Winona*, Molly Wilker*. *Lake Superior*, Donald K. Harriss. *Lehigh Valley*, Jeanne R. Berk, Kelley C. Caflin. *Lexington*, Margaret Ndinguri*. *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*, Steven E. Keinath*, Dale J. LeCaptain. *Milwaukee*, Katherine Bichler, Scott A. Schlipp. *Minnesota*, Marilyn D. Duerst, Rebecca Guza, Lynn G. Hartshorn, Sarah M. Mullins, James Wollack. *Mississippi*, Leslie Robinson. *Mobile*, William M. Reichert. *Mojave Desert*, Peter Zarras. *Mo-Kan-Ok, The Tri-State*, Khamis S. Siam. *Montana*, John W. Hartman. *Nashville*, Judith M. Iriarte-Gross. *Nebraska*, James M. Takacs. *New Haven*, Olivier Nicaise, Gerald J. Putterman. *New York*, Brian R. Gibney, Barbara R. Hillery, Alison G. Hyslop, Neil D. Jespersen, Pamela K. Kerrigan, Patricia A. Redden, JaimeLee I. Rizzo, Frank Romano, Marc A. Walters. *North Alabama*, Katherine M. Bazemore*. *North Carolina*, Dorian A. Canelas, C. Clair Claiborne*, Melissa A. Pasquinelli, Laura S. Sremaniak. *North Jersey*, Amjad Ali*, Jeannette E. Brown, Mohammed R. Elshaer*, Jacqueline A. Erickson, Miriam Gulotta, Elizabeth M. Howson, Diane Krone, Amanda K. Mann, Les W. McQuire, Monica R. Sekharan, Steven M. Silverman*. *Northeast Georgia*, Trevor R. Mitchell*. *Northeast Tennessee*, John Engelman II. *Northeast Wisconsin*, Martin D. Rudd. *Northeastern*, Catherine E. Costello, Michael P. Filosa, Thomas R. Gilbert, Patrick M. Gordon*, Morton Z. Hoffman, Leland L. Johnson, Jr., Patricia A. Mabrouk, Carol Mulrooney, Ashis K. Saha*, Sofia A. Santos, Andrew Scholte, Mary Jane Shultz, Michael Singer, Anna W. Sromek, Ruth E. Tanner. *Northeastern Indiana*, Dennis A. Roberts. *Northeastern Ohio*, Sarah S. Preston. *Northern New York*, Rajesh Sunasee. *Northern Oklahoma*, Randall L. Heald. *Northern West Virginia*, Edwin L. Kugler*. *Northwest Central Ohio*, Amelia Anderson-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*, Georgia Arbuckle-Keil, Melissa B. Cichowicz, Deborah H. Cook, Judith Currano, Ella L. Davis, Rick Ewing, Mark A. Forman*, Kathryn A. Lysko, Marge A. Matthews,

Christine McInnis, Kathleen A. Thrush Shaginaw. **Pittsburgh**, Richard Danchik*, Robert Mathers, Kimberly A. Woznack, Edward P. Zovinka. **Portland**, Angela Hoffman. **Princeton**, Allen N. Jones, Louise M. Lawter. **Puerto Rico**, Angel G. Colón*, Jorge L. Colón, Edmy Ferrer Torres, Brenda J. Ramos-Santana*. **Puget Sound**, Carole A. Berg*, A. M. Ranjika P. Bopegedera, Gary D. Christian, Craig B. Fryhle, Despina Strong. **Purdue**, George M. Bodner. **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. **Rock River**, William J. Doria. **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, Natalie A. LaFranzo. **San Antonio**, Larry C. Grona. **San Diego**, Thomas R. Beattie, Hui Cai, Desiree Grubisha, J. Kenneth Poggenburg, Jr., John W. Schindler*, David M. Wallace. **San Geronio**, Eileen M. DiMauro, J. Ernest Simpson. **San Joaquin Valley**, Hubert Muchalski. **Savannah River**, Christopher J. Bannochie. **Sierra Nevada**, Lawrence T. Scott. **Silicon Valley**, Linda S. Brunauer, Jane E. Frommer, Matthew J. Greaney, George J. Lechner, Natalie L. McClure, Sally B. Peters, Ean Warren. **Sioux Valley**, Jetty L. Duffy-Matzner. **Snake River**, Don L. Warner. **South Carolina**, William H. Breazeale, Jr., Scott R. Goode. **South Central Missouri**, Nathan D. Leigh. **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, Veronica I. Jaramillo*, Sofia Papatheodorou, Armando M. Rivera-Figueroa*, Eleanor D. Siebert, Barbara P. Sitzman. **Southern Illinois**, Lichang Wang. **Southern Nevada**, Tammy L. Jones-Lepp. **Southwest Georgia**, Linda de la Garza. **Susquehanna Valley**, Dee Ann Casteel. **Tampa Bay**, Susan E. Del Valle, Kimberly B. Fields. **Texas A&M**, David E. Bergbreiter. **Toledo**, Frank J. Butwin. **Trenton**, Benny C. Chan, Matthew C. Crowe. **University of Arkansas**, Robert H. Coridan. **University of Missouri**, Justin R. Walensky. **Upper Ohio Valley**, Kevin Pate. **Upper Peninsula**, Glenn M. Larkin. **Virginia**, Janet A. Asper*, Ann M. Sullivan, Linette M. Watkins. **Virginia Blue Ridge**, W. Gary Hollis, Jr. **Wabash Valley**, Edward A. Mottel. **Wakarusa Valley**, Joseph A. Heppert. **Washington-Idaho Border**, Richard V. Williams. **Western Carolinas**, Timothy W. Hanks, George L. Heard. **Western Connecticut**, L. Kraig Steffen. **Western Maryland**, James D. Stickler. **Western Michigan**, Mark A. Thomson. **Wichita**, D. Paul Rillema. **Wichita Falls-Duncan**, Keith R. Vitense. **Wilson Dam**, Amanda Hofacker Coffman. **Wisconsin**, Allen D. Clauss, Scott A. Wildman. **Wyoming**, Brian M. Leonard.

Nonvoting Councilors: Jens Breffke, Amber Charlebois, Brian D. Crawford, Kate Fryer, Arlene Garrison, LaTrease E. Garrison, Matthew Grandbois, Albert Horvath, Mary M. Kirchhoff, Martin G. Kociolek.

Noncouncilors: Magid Abou-Gharbia, Elizabeth P. Beckham, Kimberly Browne, H.N. Cheng, Carol A. Duane, Alicia E. Harris, Steven R. Meyers, Christi Pearson, Barbara F. Polansky, Max B. Saffell, David T. Smorodin, Frank E. Walworth, Marleen G. Weidner, Christopher Welch.

The preceding list of attendees at the Council meeting includes the following: 25 Ex- Officio Councilors; 85 Division Councilors (76 elected, 9 alternate); 336 Local Section Councilors (303 elected, 32 alternate, 1 temporary); and 24 Nonvoting/Noncouncilors. Approximately 55 observers were in attendance.

Resolutions

The Council ADOPTED the following resolution as presented by Council Policy Committee (CPC) Vice-Chair Lisa Houston:

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. Edward M. Burgess, known for the Burgess reagent that is used for selective dehydration of alcohols, and Councilor for the Organic Division from 1979 to 1989.

- Mr. William F. Kuhn, Retired Director of Applied Research at Philip Morris USA, and Councilor for the Virginia Section from 1992 to 1997.
- Dr. Claude A. Lucchesi, Emeritus Sr. Lecturer and Director of Analytical Services, Northwestern University, and Councilor for the Chicago Section 1974 to 2009.
- Dr. Glenn A. Crosby, Retired Professor, Washington State University, and Councilor for the Chemical Education Division from 1989 to 1991, and Councilor Ex Officio, District VI from 1994 to 2002.
- Dr. Paul R. Jones, Retired Professor of Organic Chemistry, University of New Hampshire, and Councilor for the Huron Valley Section from 2004 to 2009.
- Dr. C. Marvin Lang, Emeritus Professor of Chemistry, University of Wisconsin-Stevens Point, and Councilor for the Central Wisconsin Section from 1973 to 1988 and 1997 to 2019, and Councilor Ex Officio, Director-at-Large from 1989 to 1994.

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 22, 2018.

Report of Interim Action, Council Policy Committee

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

Nominations and Elections

Amber S. Hinkle, 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 2020: Magid Abou-Gharbia, H. N. Cheng, Carol A. Duane, and Christopher J. Welch.

4. After the nominees spoke to Council, the Council selected by electronic ballot H. N. Cheng and Carol A. Duane as candidates for President-Elect 2020.

Dr. Hinkle introduced the candidates for the Board of Directors, chosen by voting Councilors in District II and District IV for the election to be conducted this fall for the term 2020-2022: District II, Christina C. Bodurow and Dawn Mason; and District IV, Rigoberto Hernandez and Lisa Houston.

Dr. Hinkle then announced the following candidates for Director-at-Large on the Board of Directors: Harmon B. Abrahamson, G. Bryan Balazs, D. Richard Cobb, and Dorothy J. Phillips. The two successful candidates will fill 2020-2022 terms.

Reports of Society Officers

President Bonnie A. Charpentier reviewed her overarching presidential theme of collaboration across ACS units, and with external partners including scientific societies in the U.S. and around the world. Dr. Charpentier reported on her international collaboration including participating in the International Year of the Periodic Table of Chemical Elements (IYPT) celebration in Paris, a chemistry festival at the new Jordan International Chemical Sciences Chapter, and the 84th Israel Chemistry Society Meeting. At the Orlando meeting, she met with representatives of the Organization for the Prohibition of Chemical Weapons (OPCW). Dr. Charpentier also reported meeting with members at the Columbus, Northeastern and Georgia Local Sections.

Dr. Charpentier highlighted her efforts in the area of advocacy, including requesting local sections to reach out to their state legislators to seek proclamations for IYPT, and working with staff to develop an online toolkit for members who are considering running for office.

She shared the details on the second ACS Safety Summit that she co-sponsored with Immediate Past President Peter K. Dorhout, and asked Councilors to read her ACS Comment on the outcomes of the summit, which will be published in C&EN on April 15, 2019. She concluded her report by highlighting her presidential symposia, both in Orlando and upcoming in San Diego.

Dr. Charpentier invited Councilors to continue to send their ideas and suggestions to her.

President-Elect Luis Echegoyen reported on his desire to leverage his international travel to support ACS initiatives. He is looking to host a member event while on a trip in Spain, and is working with staff to develop a multi-leg trip through Latin America to visit with students, international chapters, and sister chemical societies in countries where ACS does not currently have strong ties.

Referencing his Council written report, Dr. Echegoyen stated that he is working to develop a Lasting Encounters between Aspiring and Distinguished Scientists (LEADS) meeting for younger scientists in the United States. The meeting would be modeled off other similar ones including the Lindau Meeting in Germany, the GYSS Meeting in Singapore, and the HOPE Meetings in Japan. The LEADS Meeting would align with the ACS strategic goals, link with the United Nations 2030 Sustainable Development Goals, and potentially attract new members to the Society.

He concluded his report by encouraging Councilors to contact him with advice and ideas regarding his presidential initiatives.

Immediate Past-President Peter K. Dorhout provided an update on the ACS Scholars Program, which he has been promoting during his term in the Presidential Succession.

He reported on a symposium he organized at the Orlando meeting on inclusive excellence in leadership development to build diverse leadership in chemistry and physics programs. Dr. Dorhout mentioned that inclusiveness and respect allow researchers to pursue their passions in chemistry without discomfort or fear of intimidation. He reported that following the ACS meeting in Boston, a group of leading societies, including the American Geophysical Union (AGU), the American Association for the Advancement of Science (AAAS), and ACS came together to form a consortium that is working together to create model policies and procedures for society honors and awards, behavior at meetings, and developing an environment of respect in academic and professional settings.

He concluded his report on the theme of safety, referencing a safety webinar he moderated and his continued work with various committees and divisions to promote a culture of safety.

Board Chair John E. Adams briefed the Council on the issues discussed and actions taken at the Board of Directors meetings on Friday and Saturday, March 29 and 30.

Among the actions taken by the Board at this meeting were the approval of recommendations from its Committee on Executive Compensation; reappointments of Editors-in-Chief for several ACS journals; and screened lists of nominees for the 2020 Priestley Medal and the ACS Award for Volunteer Service.

The Next Generation ACS Leadership Program Task Force, which was appointed to reassess the leadership development needs of our members, their employers, and the Society, updated the Board on its progress to date and summarized future activities. The task force is expected to have a framework for professional development that is reflective of the ACS core values ready for preliminary discussion at the Regular meeting of the Board in San Diego, during which members' input and reactions to the framework will be invited.

The Board was briefed on the challenges to ACS's Information Services units, CAS and Publications, stemming from the rapid evolution of the publishing and information aggregation environment within which these units operate. The Board will hold a retreat in June to further delve into this topic.

Dr. Adams reported that he commissioned a second task force, which will address the formats of and support for ACS meetings of the future. He is urging this task force, consisting of representatives of the Board and a broad range of Council committees, to step back and take a fresh look at meetings and then to define a structure that will address the needs of our members as we move into the third decade of the millennium.

Dr. Adams concluded his report by thanking Dr. Susan Butts for the review of the data regarding STEM workforce immigration and its effect on the U.S. economy, which she presented during the Regular Session of the Board on March 31.

Executive Director & CEO Thomas M. Connelly, Jr., reported that the Society had a highly successful year in 2018. He mentioned that last December, the Board adopted ‘Respect’, alongside Diversity and Inclusion, as a core value of the Society. Symposia at national meetings, C&EN articles and comments, staff training, government affairs efforts, and activities with sister scientific societies have all reinforced this core value.

Dr. Connelly noted that ACS joined as a charter member an AAAS-led Consortium on Sexual Harassment in STEM, partnered with the National Science Foundation in a Bridge Program to increase the number of chemical science PhDs awarded to underrepresented minority students, and partnered with the National Organization of Black Chemists and Chemical Engineers (NOBCCChE) on a Bridge Travel Award Program.

Dr. Connelly reported that for the first time in nearly a decade, membership grew in 2018, with success from the test initiatives from the Committee on Membership Affairs to attract new members and retain existing ones.

He noted that the Society’s strong financial position was driven by record performances by both CAS and Publications, where the Society achieved record revenue. He reported that the Society received an unmodified, clean audit opinion from KPMG. He noted that 2018 was the 15th consecutive year of positive net from operations, and the second consecutive year where all five financial guidelines have been met. Dr. Connelly introduced the new Treasurer and CFO, Mr. Albert Horvath, who joined ACS in February after having served as the Smithsonian Institution’s CFO and Chief Operating Officer.

Dr. Connelly concluded his report by asking Councilors to visit www.acs.org/acshighlights to seek more information on other 2018 ACS achievements.

Reports of Elected Committees

Council Policy Committee (CPC)

Lisa Houston, committee Vice-Chair, reported that the Long Range Planning Subcommittee hosted a New Councilor Orientation and Reception on March 30, with 33 new Councilors and Alternate Councilors in attendance.

The CPC Working Group on Future Council Representation continued its discussions on how to design a Council that best serves the Society in its advisory role to the Board of Directors. The Working Group discussed the function that Council currently serves, and what its function should be in the future.

Ms. Houston reported that CPC had set the divisors for allocation of Councilors among Local Sections and Divisions for 2020-2023. The formula is based on membership numbers as of December 31, 2018. Official notification of the Councilor divisor and the number of Councilors will be sent to Local Sections and Divisions, well in advance of the required May 1 deadline, in order to accommodate elections in 2019.

She noted that along with the Board of Directors, CPC had created the Task Force on Governance Design, whose work led to the Petition to Streamline the ACS Governing Documents. Ms. Houston reiterated that CPC supports the petitioners’ intent to amend the ACS Governing Documents by moving text from the

Constitution to the Bylaws and from the Constitution and Bylaws to Standing Rules. CPC believes that these changes will simplify our governing documents and make it easier for committees and members to propose changes. CPC voted to reaffirm their support of this petition.

5. VOTED, on a motion from the floor, to approve a request for a recorded vote on an amendment to the Petition to Streamline the ACS Governing Documents.

6. VOTED, to approve the adoption of the amendment, that Standing Rule II, Sections 2, a; 2, b; and 2, g be moved to the Bylaws as new Sections 2, a; 2, b; and 2, c of proposed Bylaw III with appropriate renumbering of the other sections of Bylaw III and Standing Rule II. (377 in favor; 50 opposed)

7. VOTED, not to record the vote to approve the Petition to Streamline the ACS Governing Documents as amended.

8. VOTED, on the recommendation of the Council Policy Committee, to approve the Petition to Streamline the ACS Governing Documents, as amended.

Committee on Committees (ConC)

Carolyn Ribes, committee chair, reported that the Committee on Committees (ConC) began developing its recommendations for 2020 committee chair appointments and reappointments for consideration by the President-Elect and the Chair of the Board of Directors. The committee also participated in an orientation session that was held at this meeting for new Councilors and Alternate Councilors to better acquaint them with the Council and its structure.

9. VOTED, on the recommendation of the Committee on Committees, and with the concurrence of the Council Policy Committee, that the Committee on Nomenclature, Terminology, and Symbols be continued, and that the Committee on Senior Chemists, subject to concurrence by the Board of Directors, be continued.

Dr. Ribes reported that as part of ConC's continuing effort to learn about the composition of ACS committees, broaden ACS member awareness, and provide an update on the survey conducted in 2016, the second committee demographic survey was launched February 25. The survey was sent to more than 750 committee participants of the 32 Council-related committees. As of April 2, the survey has a participation rate of 70 percent. Councilors serving on committees were encouraged to complete the survey, and were reminded that it is not ConC's intention to make the diversity topics listed in the survey the basis for an assignment on an ACS committee, but to support the ACS Core Value of "Diversity, Inclusion, and Respect".

She concluded her report by reminding Councilors to complete their online preference forms for 2020 during the period from March 18 to June 7, 2019, at www.yellowbook.acs.org, where they can also check their contact information for accuracy.

Nominations and Elections (N&E)

Amber S. Hinkle, committee chair, reported the results of the morning's elections for President-Elect 2020 (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.

Dr. Hinkle reported that a successful Town Hall Meeting was held on Sunday, March 31 with the nominees for President-Elect. She noted that N&E has begun to consider a new focus and strategy around the identification of candidates for ACS national offices, the challenge of cultivating a more diverse leadership pipeline that befits inclusive governance, and ultimately, the screening process for candidates.

Dr. Hinkle announced that N&E reviewed the distribution of the member population within the six electoral districts to determine equitable representation as required in the Bylaws, and found the Society to not be in compliance with the Bylaws. N&E will recommend to Council in August 2019 redefined District boundaries as necessary to satisfy the provisions of the Bylaws.

She reminded Councilors that their Division and Local Section elections must be conducted in compliance with their bylaws and with ACS Bylaws.

Dr. Hinkle reported that N&E developed slates of potential candidates for CPC and ConC for the 2020-2022 terms. The names of the candidates will appear in the fall San Diego Council agenda.

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.

Dr. Hinkle concluded by reporting that N&E had voted to endorse the Petition to Streamline the ACS Governing Documents.

Reports of Society Committees and the Committee on Science

Budget and Finance (B&F)

Joseph A. Heppert, committee chair, reported that for 2018, ACS generated a net from operations of \$41 million, which was \$13.3 million higher than 2017. Total revenues were \$572 million, increasing 6.4 percent over 2017. Driving this strong performance were the Society's Information Services units, CAS and Publications, and a continued emphasis on expense management across the ACS. Expenses ended the year at \$531 million, 4.1 percent higher than the prior year.

He briefly reviewed the Society's sources of net contribution, which totaled \$101 million and included Information Services and Investments. These sources funded net expenses associated with Society Programs and other activities.

Dr. Heppert reported that the Society's financial position strengthened in 2018. Unrestricted Net Assets, or reserves, increased by \$8 million to \$292 million at year-end 2018. The increase was the result of \$41 million net from operations, which was partially offset by \$35 million in investment losses and non-cash accounting charges related to the Society's two closed postretirement benefit plans.

He reported that the five Board-approved financial guidelines and their corresponding targets were met in 2018, which is the second year in a row that the Society achieved full compliance.

Councilors were directed to the ACS public website where the Society's audited financial statements, IRS Form 990 filings, and other financial resources are posted.

Dr. Heppert reported that the committee received a presentation on the calculation of the 2020 fully escalated dues rate of \$180. Due to the Society's strong financial position, and in support of efforts to attract more members, the committee voted to suspend the dues escalator for one year.

10. 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 2020 at the current rate of \$175.

Dr. Heppert concluded his report by recommending that steps be taken to ensure that this pause in dues does not negatively impact allocations to Local Sections and Divisions of the Society.

Education (SOCED)

Jennifer Nielson, committee chair, reported that the committee ratified the vote to approve its 2019-2021 strategic plan. She noted that SOCED was pleased to be among the committees and divisions represented on the organizing committee for the 2019 Safety Education Summit held by the Committee on Chemical Safety.

Dr. Nielson reported that the committee voted to pilot a recognition program for ACS's international Student Chapters, further promoting inclusive global student engagement in the SOCED awards program.

She noted that a record number of 151 Local Sections and International Chemical Sciences Chapters are participating in the 2019 U.S. National Chemistry Olympiad, and the New Faculty Workshop continues to expand with two workshops being offered in 2019.

The committee voted to establish a new Outstanding Partnership with the American Association of Chemistry Teachers (AACT) award and to change the name of the Outstanding Kids & Chemistry award to Outstanding Engagement with K-8 Students.

Dr. Nielson concluded by reporting that SOCED voted to propose that the Board of Directors adopt the Workforce Immigration statement as public policy of the Society. Revisions to the ACS Science Education Policy Statement, which expires at the end of 2019, are being considered.

Science (ComSci)

Martin G. Kociolek, committee chair, reported that ComSci voted to endorse the Workforce Immigration statement. ComSci plans to make minor updates to the existing forensic science policy statement, and continues its work to develop a new policy statement on synthetic drugs. Several policy statements will expire in 2020, and ComSci has formed review teams to begin gathering background information on the issues underlying these statements.

He stated that he met with the chair of the Committee on Divisional Activities (DAC) to share information about DAC's work and identify potential areas for collaboration.

ComSci discussed chemistry's role in the UN Sustainable Development Goals (SDGs), and considered how ACS might address the SDGs. Dr. Kociolek reported that the committee organized a symposium in Orlando on "Exploring the Frontiers of Chemistry through NASA Research", and is planning a "Water for Two Worlds" symposium in San Diego.

ComSci is preparing nominations for the U.S. National Medal of Science and the National Medal of Technology and Innovation. The committee submitted a nomination for the Dreyfus Prize on behalf of the Society earlier this year.

Dr. Kociolek concluded by noting that ComSci voted to support the Petition to Streamline the ACS Governing Documents.

Council Special Discussion

President Charpentier introduced and led a special discussion on "ACS Relevance to Current and Future Members: Challenges and Opportunities". There were two goals for the discussion: to receive input from Councilors to help design better ways to understand members' needs and aspirations, and to hear from Councilors on what they had heard from their Local Section and Division constituents. She noted that ACS membership has been trending downward for several years and a significant number of members, around 25,000, do not renew each year. President Charpentier noted that the Society needs to do more to demonstrate value to our current and potential members to ensure growth and membership renewal.

To help inform the discussion, prior to the Council meeting Councilors were asked to solicit input from their constituents and bring forth their ideas to add value to ACS membership. Councilors were asked to speak to three different questions for the special discussion:

- How can we improve the value that ACS provides to its members?
- What benefits does ACS provide that our members want and need? What should we provide that we are not providing today?
- How can we attract future members of the chemistry enterprise to join ACS?

Twenty-nine Councilors shared their observations, comments, and suggestions. Dr. Charpentier concluded the discussion by thanking the Council for contributing to this important conversation, and encouraged more communication to a dedicated email address at engage@acs.org.

Reports of Standing Committees

Membership Affairs (MAC)

Brian M. Mathes, committee chair, reported that MAC continues to focus on the value provided to ACS members. He noted that in 2018, the Society saw a net membership growth of one tenth of one percent. This is the first membership growth that ACS has recorded in the better part of a decade.

Mr. Mathes noted that about 20 percent of the 25,000 new members last year were incentivized by market testing initiatives; without these new members, the Society would have seen continued declines.

He elaborated on the international country pricing test that provides reduced dues for international members residing in emerging nations. It is estimated by MAC that the test's financial impacts have been minimal to positive. The market test of the international dues discount program based on the World Bank's country income levels is set to expire in August 2019.

11. VOTED, on the recommendation of the Committee on Membership Affairs, and with the concurrence of the Council Policy Committee, that the market test of the international dues discount program based on the World Bank's country income levels be extended for an additional three years.

Meetings and Expositions (M&E)

Kevin J. Edgar, committee chair, reported that 12,830 scientific contributions have been made at this national meeting. As of April 2, the total attendance for this meeting was 15,605. The Exposition had 369 booths with 235 exhibiting companies, including the Career Fair; the mobile app had received more than 11,000 downloads, the highest number since its inception; and the online planner had been accessed nearly 160,000 times.

Due to the success of ongoing meeting cost reduction efforts, including concentration of the program in the convention center, M&E recommended not to enact the final \$15 registration escalator, therefore setting the Early Member Registration Fee for the 2020 national meetings at \$505.

Dr. Edgar reported that the Technical Program subcommittee is focusing on setting later deadlines by enacting early room assignments for the fall 2020 meeting. He noted that the technology used to provide audio in the theaters proved to be unexpectedly insufficient to deliver needed performance. M&E apologized for any inconvenience that this caused speakers and organizers, and ensured that the situation will improve for San Diego.

The Exposition and Industry subcommittee continues to work on the M&E strategic goal of increasing industrial participation in the Exposition. Over 40 different industry-recommended programs and events were identified in Orlando, many of which took place on the show floor in the theaters, the ACS booth, and in the Career Fair area.

Dr. Edgar reported that more than 4,400 attendees participated in nine regional meetings in 2018. The Regional Meeting subcommittee and ACS staff will continue to create and implement resources to support Local Section volunteers, who create the regional meetings. The Regional Meeting Planning Conference once again took place in conjunction with the Leadership Institute, held this past January in Atlanta.

He concluded his report stating that M&E voted unanimously to endorse the Petition to Streamline the ACS Governing Documents.

Divisional Activities (DAC)

James M. Takacs, committee chair, reported that DAC is working with staff to develop novel approaches to persuade a higher percentage of new ACS members to join Divisions.

The committee voted to fund nine Innovative Project Grants (IPG) totaling \$59,904; has continued a poster board and table event at Sci-Mix called "Division Row"; and is developing tools to enhance collaborative programing between Divisions on emerging topic areas.

Dr. Takacs noted that DAC continues to collect data on Division participation in ACS regional and international meetings, and a new formula for allocating dues to Divisions would not be proposed in Orlando.

DAC acknowledged the efforts of the Divisions and the Multidisciplinary Program Planning Group in organizing and delivering a wide range of excellent programming in support of the Orlando theme: “Chemistry for New Frontiers”.

Local Section Activities (LSAC)

Jason E. Ritchie, committee chair, recognized the following sections for their anniversaries in 2019: 25th: Tampa Bay; 50th: Central Utah; 75th: Hampton Roads, Northeastern Ohio, Southern Nevada, Wabash Valley; 100th: Midland and Oklahoma; and 125th: Lehigh Valley.

He reported that the committee approved the funding of 13 Innovative Projects Grants (IPG) for sections totaling nearly \$38,000; Local Section annual reports for 2018 have been completed by 153 Sections; and a joint meeting was held with the Committee on Community Activities (CCA) to organize around the theme of this year’s Chemists Celebrate Earth Week.

Dr. Ritchie concluded his report noting that M&E reviewed the procedures for calculating Local Section allocations and recommended maintaining the existing allocation formula.

Economic and Professional Affairs (CEPA)

Frank Romano, committee chair, reported that there was a low response rate to the employment survey, which will be reverting to previous methodology this year to increase the number of responses, and requested that all Councilors complete the survey.

He noted that the onsite Career Fair continued to improve, with members now being able to select career counselors to match with their professional goals. Mr. Romano concluded his report by asking Councilors to recommend career consultants to the committee, and to give input on the draft, “The Chemical Professional Code of Conduct”, for which Council’s action will be sought in San Diego.

Constitution and Bylaws (C&B)

V. Dean Adams, committee chair, reported that C&B certified three unit bylaws since the beginning of this year, in addition to the eight that were certified after ACS’s national meeting in Boston last year.

Bulletin 5 (ACS Governing Documents) was updated as of January 1, 2019. The online version is the authoritative version. Councilors were reminded that certified bylaws and status reports are posted for referral on ACS’s website at www.acs.org/bulletin5.

Dr. Adams thanked Councilors for voting in favor of the Petition to Streamline the ACS Governing Documents.

He reminded Councilors that new petitions to amend the Constitution or Bylaws must be received by the Executive Director no later than May 8 to be included in the Council agenda for consideration in San Diego.

Reports of Other and Joint Board-Council Committees

Chemical Safety (CCS)

Ralph Stuart, committee chair, reported on three key activities: the committee organized a second Safety Summit in March; working with the Division of Chemical Health and Safety (CHAS) and ACS’s Office of Safety Programs, the committee has been developing short videos to address key chemical safety concepts in the laboratory; and the committee has partnered with CHAS and the Division of Chemical Information to develop a teaching exercise for risk assessment in undergraduate organic teaching laboratories.

Dr. Stuart concluded his report by mentioning that the committee will hold a strategic retreat, and asked all Councilors to send ideas and suggestions to the committee.

International Activities (IAC)

Jens Breffke, committee chair, reported that at this meeting the committee welcomed dignitaries from sister societies and partners from Brazil, Israel, and the European Chemical Society (EuChemS), as well as representatives from the Organization for the Prohibition of Chemical Weapons (OPCW).

He noted that the committee reviewed an application from the Republic of Georgia to establish an ACS International Chemical Sciences Chapter and recommended it move forward for Council consideration and action in San Diego. Also, the International Welcome Reception was a success with several hundred attendees.

12. VOTED, on the recommendation of the Committee on International Activities, and with the concurrence of the Council Policy Committee, to approve the establishment of the Pakistan International Chemical Sciences Chapter, subject to concurrence by the Board of Directors.

Women Chemists (WCC)

Kimberly A. Woznack, committee chair, reported that the committee partnered with ACS Webinars on the program, “Advocating for Yourself: Stop Looking for Yoda to Advance your Career”. She noted that the committee is celebrating the 30th Anniversary of the WCC/Eli Lilly & Company Travel Award, which has supported more than 700 scientists to attend and present at ACS’s national meetings.

Dr. Woznack noted that WCC luncheon speaker, Dr. Lisa McElwee-White, was honored during a multi-day symposium sponsored by the Division of Inorganic Chemistry; Dr. Ruth Baltus, recipient of the 2019 ACS Award for Encouraging Women into Careers in the Chemical Sciences, was honored during a half-day symposium; and the winners of the 8th annual WCC Rising Star award spoke at a half-day symposium.

She reported that the committee continued to advocate in the areas of nominating women for national technical awards, supporting non-tenure track faculty members, sexual harassment prevention and awareness, and supporting the rights and safety of women chemists who are pregnant or breastfeeding.

New Business

Resolution

The Council adopted the following resolution:

13. BE IT RESOLVED That the Council of the American Chemical Society expresses to the officers and members of the Orlando Local Section, host Section for the 257th 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 conveys special thanks to the divisional program chairs and symposium organizers responsible for the outstanding technical sessions, as well as headquarters staff, for the planning and execution that have assured the success of the 257th National Meeting.

There being no further business, the meeting adjourned at 12:00 p.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. George M. Bodner | 6. Joseph A. Heppert |
| 2. James C. Carver | 7. Lydia E. M. Hines |
| 3. Dee Ann Casteel | 8. Will E. Lynch |
| 4. Kenneth P. Fivizzani | 9. Sally B. Peters |
| 5. Anne M. Gaffney | 10. Margaret J. Schooler |

The Council must elect five individuals: The four candidates receiving the highest numbers of votes will be declared elected for the 2020-2022 term, and the candidate receiving the fifth highest vote will be declared elected for a one-year term for 2020. 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, 2019, are as follows:

Harmon B. Abrahamson, Red River Valley Section
Karl S. Booksh, Analytical Chemistry (Delaware Section)
Will E. Lynch, Coastal Georgia Section
Sally B. Peters, Santa Clara Valley Section
Andrea Twiss-Brooks, Chemical Information (Chicago Section)

Harmon B. Abrahamson, Karl S. Booksh, and Andrea Twiss-Brooks are ineligible for reelection.

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

2018 - 2020

Mark D. Frishberg, California Section
Zaida C. Morales Martinez, South Florida Section
Linette M. Watkins, Virginia Section

2019-2021

Ella L. Davis, Philadelphia Section
Lissa Dulany, Georgia Section
Lisa Houston, Energy & Fuels (Greater Houston Section)
Martin D. Rudd, Northeast Wisconsin Section

BODNER, GEORGE M. *Purdue Section.* Purdue University, West Lafayette, Indiana.

Academic Record: State University of New York, Buffalo, B.S., 1969; Indiana University, Ph.D., 1972.

Honors: ACS Award for Achievement in Research for the Teaching and Learning of Chemistry, 2018; Morrill Land-Grant University Award for Outstanding Achievements in Research, Teaching and Service, Purdue University, 2013; James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry, ACS Northeastern Section, 2010; Royal Society of Chemistry Fellow, 2010; ACS Fellow, 2009; ACS Pimentel Award in Chemical Education, 2003; Nyholm Prize, Royal Society of Chemistry, 2003; Clifford C. Furnas Distinguished Alumni Award, the University at Buffalo, 2003; Named the Arthur E. Kelly Distinguished Professor of Chemical Education at Purdue, 2000; Chemical Manufacturers Association Catalyst Award in Chemical Education, 1989; NASA Predoctoral Fellow, 1969-72; NSF Predoctoral Fellow, 1968; Purdue University, ten teaching awards at the departmental, college and university level; Alpha Chi Sigma; Phi Lambda Upsilon.

Professional Positions (for past 10 years): Purdue University, Arthur E. Kelly Distinguished Professor (Emeritus), 2019 to date; Arthur E. Kelly Distinguished Professor of Chemistry, Education and Engineering, 2000-19; Professor, 1989-2000; Associate Professor, 1981-89; Assistant Professor, 1977-81.

Service in ACS National Offices: Board of Directors, Director District II, 2011-16; Councilor, ex officio, 2011-16; Board Committee on Grants & Awards, 2011-16, Chair, 2016; Board Committee on Public Affairs & Public Relations, 2011-15; Board Awards Review Committee, Chair, 2012-15; Committee on Ethics, 2009-11, Committee Associate 2007-08; Committee on Publications, 2000-08, Committee Associate, 1999; Society Committee on Education, 2015-16, Committee Associate, 2015-16, 1993, Committee on Divisional Activities, 1987-92, Committee Associate, 1986.

Service in ACS Offices: *Purdue Section:* Councilor, 2018-19, 1985-2010, Chair, 1983, Chair-Elect, 1982, Vice-Chair, 1981, Secretary-Treasurer, 1978-81. *Chemical Education Division:* Immediate Past Chair, 2013, Chair, 2012, Chair-Elect, 2011. *Great Lakes Regional Meeting:* Chair, 1985. *Biennial Conference on Chemical Education:* Co-Chair, 1988, Treasurer and Exhibits Chair, 2006.

Member (current): Member ACS since 1969. American Association of Chemistry Teachers; American Association for the Advancement of Science; Royal Society of Chemistry; National Association for Research in Science Teaching; Association for Science Teacher Education; Phi Lambda Upsilon; Sigma Xi. *ACS Division:* Chemical Education.

Related Activities: Associate Editor: *Chemistry Education Research and Practice*, 2004-19; *Journal of Science Teacher Education*, 2006-10; *Journal of Research in Science Teaching*, 1993-98; organized and/or chaired 30 symposia at ACS meetings; 241st ACS National Meeting (Anaheim, 2011); 233rd ACS National Meeting (Chicago, 2007), Chemical Education, Program Chair for the 201st ACS National Meeting (Atlanta, 1991), and published 150 papers, eight textbooks, and a book on research methods in discipline-based educational research; presented 590 invited lectures and 549 papers at technical conferences, including almost 200 talks at ACS local section meetings.

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; Salute to Excellent Award from CHAL, 2014; 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; Paul Harris Fellow, Rotary Foundation, 2016.

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, 1989-94, Partner, 1995-2008; Registered Patent Attorney, 2008 to date.

Service in ACS National Offices: Committee on Membership Affairs, 2018-19; Task Force on Governance Design, 2016-17, Subcommittee Chair-Governance Documents; Committee on Constitution and Bylaws, 2014-17, 2007-12, Chair, 2015-17, Consultant, 2018-19, Committee Associate, 2006; Council Policy Committee, (Nonvoting), 2015-17; Committee on Divisional Activities, Committee Associate, 2013.

Service in ACS Offices: *Chemistry & The Law Division:* Councilor, 2005-21, Alternate Councilor, 2001-04, Chair, 1995, Chair-Elect, 1994.

Member (current): Member ACS since 1971. 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.

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

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

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

Professional Positions (for past ten years): Bucknell University, Department Chair 2015 to date, Associate Professor, 1998 to date, Associate Dean, 2008-14, Assistant Professor, 1994-98.

Service in ACS National Offices: Committee on Committees, 2014-19; Committee on Constitution and Bylaws, Committee Associate, 2013; Council Policy Committee, (Nonvoting), 2012; Committee on Meetings and Expositions, 2006-12, Chair, 2012, Chair-Elect, 2011, Subcommittee Chair 2009-11, Committee Associate, 2005-06; Women Chemists Committee, 1989-97, Committee Associate, 1988.

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

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

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

FIVIZZANI, KENNETH P. *Chicago Section*. Retired, Nalco Company, Naperville, Illinois.

Academic Record: Loyola University Chicago, B.S. Chemistry 1972; M.S. Inorganic Chemistry, 1976; University of Wisconsin-Madison, Ph.D., Inorganic Chemistry, 1981; University of St. Mary of the Lake - S.T.B. Theology, 1974.

Honors: ACS Division of Chemical Health and Safety Lifetime Achievement Award, 2019; Distinguished Service Award, Chicago Section, ACS, 2016; Tillmanns-Skolnick Award, ACS Division of Chemical Health and Safety, 2012; ACS Fellow, 2011; ACS Chemical Health and Safety Fellow, 2004; Chemistry Alumni of the Year Award, Loyola University Chicago, 2012; Nalco Inventors' Hall of Fame, 1993.

Professional Positions (for past ten years): Retired, Nalco Company (now Ecolab), 2009; Research Scientist 2004-09; Technical Director 2000-02; Chemical Hygiene Officer 1990-2009; National Registry of Certified Chemists, Certified Chemical Hygiene Officer, 1997-2015.

Service in ACS National Offices: Committee on Community Activities, 2013-21, Committee Associate, 2011-12; Committee on Chemical Safety, 2002-10, Chair, 2002-04, Committee Associate, 2001; Safety Culture Task Force, 2011-12; Task Force for Safety Education Guidelines, 2014-15; Presidential Task Force on Chemical Hygiene Officer Certification, 1996-97.

Service in ACS Offices: *Chicago Section:* Councilor, 2017-19, 2013-15, 2009-10; Alternate Councilor, 2007-08; Past Chair, 2019, Chair, 2018, 2010, 2007; Chair-Elect, 2009, 2006, Vice-Chair, 2018; Trustee, 2011-19. *Division of Chemical Health & Safety:* Chair, 2014, 2011, 2000; Chair-Elect, 2013, 2010, 1999; Co-Program Chair, 1996-99. *Journal of Chemical Health & Safety:* Board of Editors, 2000-19; Columnist, 2002-15.

Member (current): Member of ACS since 1975. Sigma Xi, Chair of Nalco Chapter, 1988-89; American Industrial Hygiene Association; Industrial Research Institute Environmental Health and Safety Directors' Network, Chair, 1999-2001. *ACS Divisions:* Chemical Health and Safety; and Inorganic Chemistry.

Related Activities: Chemical Safety Consultant, College of Chemistry, University of California, Berkeley, 2013; National Research Council, Committee on Prudent Practices in the Laboratory, 2008-11; National Institute of Standards and Technology (NIST) Blue Ribbon Commission on Management and Safety (U.S. Secretary of Commerce), 2008 and 2010; Fifty-two presentations made at ACS National Meetings (CHAS, CHED, HIST, I&EC); three presentations at Regional Meetings; and 5 US Patents.

GAFFNEY, ANNE M. *Division of Catalysis Science & Technology (Idaho Section).* Idaho National Laboratory, Idaho Falls, Idaho.

Academic Record: University of Delaware, Ph.D., Physical Organic Chemistry, 1981; Mount Holyoke College, B.A., Chemistry and Mathematics, 1976.

Honors: ACS Energy & Fuels Distinguished Researcher Award in Petroleum Chemistry, 2019; ACS Fellow, 2010; ACS Distinguished Service Award, Division of Petroleum Chemistry, 2010; ACS Industrial Chemistry Award, 2013; Eugene J. Houdry Award of the North American Catalysis Society, 2015; Chemical Heritage Foundation, Women in Science Inductee, 2014; University of Delaware, Wall of Fame Inductee, 2014; Service & Leadership Award, 7th World Congress on Oxidation Catalysis, 2013; Honorary Committee for the 100th Anniversary of Girl Scouting, 2012; Industrial Colloquium Series Distinguished Lecturer Award, Center for Environmentally Beneficial Catalysis, CEBC, The University of Kansas, 2011; Mount Holyoke College Alumnae Achievement Award, 2011; Recipient of the Tribute to Women and Industry Award, sponsored by YWCA, honoring women and corporations in New Jersey, 2007; Recipient of the DOW/Union Carbide Reaction Engineering and Catalysis Seminar Series Award, 2006; Recipient of the Catalysis Club of Philadelphia Award for outstanding contributions to the field of catalysis, 1999; Take the Lead in Science and Technology Award, for outstanding leadership, awarded by the Girl Scouts of Pennsylvania, 1993.

Professional Positions (for past 10 years): Idaho National Laboratory, Chief Science Officer, Laboratory Fellow, 2014 to date; Director of R&D, Specialty Materials, INVISTA, 2011-13; Lummus Technology, Vice President of Technology, 2005-10.

Service in ACS National Offices: Committee on Science, 2019-20; Committee on Economic and Professional Affairs, 2008-13, Committee Associate, 2007.

Service in ACS Offices: *Division of Catalysis Science & Technology:* Councilor, 2016-21, 2011-14. *Division of Energy & Fuels:* Councilor, 2012-13. *Division of Petroleum Chemistry:* Councilor, 2007-11; Alternate Councilor, 2005-06; Chair, 2000-01; Chair-Elect, 1999-2000; Treasurer, 1996-99; Region IV Representative, 1994-96. *Catalysis and Surface Science:* Secretary General Chair, 2003; Chair-Elect, 2002.

Member (current): Member ACS since 1976. Organic Reaction Chemical Society; North American Catalysis Society; Western States Catalysis Society; Philadelphia Catalysis Club; American Institute of Chemical Engineers. *ACS Divisions:* Catalysis Science and Technology; and Energy and Fuels.

Related Activities: American Institute of Chemical Engineers, Director of the Catalysis and Reaction Engineering Division, 2016 to date; North American Catalysis Society, International Fund Raising Co-Chair 2016 to date, International Meeting Chair 2005; International Representative for the U.S., 2018, and Co-Chair of the World Congress on Oxidation Catalysis, 2013; Selected “Woman of Influence”, Mount Holyoke College, 2012; Editorial Board Member, Catalysis Today, 2008-09; U.S. Representative to the Executive Committee of the 6th World Congress on Oxidation Catalysis, 2008-09; Advisor to the National Academies on Science, Engineering, and Medicine, 2008-10; DOE Workshop Writer on “Basic Research Needs in Catalysis for Energy Conversion”, 2007; NSF/DOE Workshop Writer on “Breaking the Chemical and Engineering Barriers to Lignocellulosic Biofuels”, 2007; Organic Reaction Chemical Society, Editorial Board, 2006-10, Director 2002-06; Rohm and Haas, Senior Research Fellow, 2000-05; Philadelphia Catalysis Club, National Representative, 1996-2015, Director 1989-95, Chair 1986-87, Chair-Elect, 1985-86; published 40 peer-reviewed journal articles, 65 conference proceeding publications, 3 book chapters, and 245 patent/publications.

HEPPERT, JOSEPH A. *Wakarusa Valley Section.* Texas Tech University, Lubbock, Texas.

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

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

Professional positions (for past 10 years): Texas Tech University, Vice President for Research 2017 to date; University of Kansas, Associate Vice Chancellor for Research, 2009-17; Chemistry Chair, 2005-09; Professor 2001-17; Director, Center for Science Education, 2001-09.

Service in ACS national offices: Committee on Budget and Finance, 2013-21, Chair, 2017-19, Vice Chair, 2014-16, Committee Associate, 2011-12; Committee on Education, 2002-10, Chair, 2004-06, Committee Associate, 2000-01; ACS Chemistry Teacher Education Coalition National Advisory Board, 2011-14; Governance Review Team A, 2007; ACS Program Review Advisory Group 2005–06; Task Forces on Program Valuation and Metrics, 2013-14; ACS Joint Board President’s Task Force on Education, Spring 2009-10; ACS President’s Task Force on Competitiveness, 2007-08.

Service in ACS offices: *Wakarusa Valley Section (formerly University of Kansas Section):* Councilor, 1997-2020; Alternate Councilor, 1994-96; Chair, 2004, 1993; Chair-Elect, 2003, 1992; Treasurer, 1991. *Midwest Regional Meeting:* General Meeting Co-chair, 2017, Program Chair, 2002; Financial Planning Conference, Co-organizer, 2017, participant 2011.

Member (current): Member ACS since 1979. Sigma Xi; American Association for the Advancement of Science; National Science Teachers Association. *ACS Divisions:* Chemical Education, Inorganic Chemistry, and Organic Chemistry.

Related activities: Participant, ACS Legislative Summit, April 2008; Past Member, Senator Pat Roberts Advisory Committee on Science, Technology and the Future; Past Director, University of Kansas’ Center for Science Education; Past Chair, University of Kansas Faculty and University Senate Executive Committees; Education Director of the Center for Environmentally Beneficial Catalysis (NSF-ERC); Past Member Board of Directors, the Advanced Academy of Georgia; University of Kansas Medical Center, Institute for Advancing Medical Innovation, Advisory Board Member, 2015-17.

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: Nominee for the Kalamazoo YWCA Woman of the Year Award, 2016; 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, 1989; 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 Constitution and Bylaws, 2019-20, 2004-11; Committee on Nominations and Elections, 2012-17, 1993-98, Secretary, 1995; 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: *Kalamazoo Section:* Councilor, 1984-2020; Alternate Councilor 1978-83; Chair, 1981; Chair-Elect and Program Chair, 1980; Publicity Committee Chair, 1986-2019; National Chemistry Day/Week Coordinator, 1987-2018; Museum Chemistry Day Organizer, 1987-2018; Chemists Celebrate Earth Day Coordinator, 2015-18, 2004-12; Pre-high school Science Education Coordinator, 2013-19, 1988-2001; Awards Committee, 1991-2019, Chair, 2008-19, 1992; Chemistry Promotion Committee, Chair, 1991-2001. *Great Lakes Regional Meeting:* General Chair, 2015, 1984; Kalamazoo Section representative to Great Lakes Region Board, 1984-19; Region Board Chair, 2015-19, 1985. *Indiana-Kentucky Border Section:* Publicity Committee Chair, 1974-75.

Member (current): Member ACS since 1968.

Related Activities: Mentor to KACS members for outreach in K-8 schools, 1982-2016; 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), 1986-2016.

LYNCH, WILL E. *Coastal Georgia Section.* Georgia Southern 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): Georgia Southern University, Department Chair, 2018 to date; Armstrong State University, Department Head, 2006 to 2018; Professor of Chemistry, 2005 to date.

Service in ACS National Offices: Council Policy Committee (Voting), 2019, (Nonvoting), 2005-07; Committee on Strategic Planning, 2019; Committee on Divisional Activities, 2017-18; Committee on Meetings and Expositions, 2011-16; Chair, 2013-15; Committee on Committees, 2008-10; Committee on Local Section Activities, 2002-07, Chair, 2005-07; Committee Associate, 2000-01; Committee on Planning, 2005-07.

Service in ACS Offices: *Coastal Georgia Section:* Councilor, 1999-2020; Chair, 2009, 1997; Chair-Elect, 1996; Noble Gas Editor, 2006, 1997-2000; Executive Committee, 1996 to date. *Southeastern Regional Meeting of the ACS:* SERMACS 2019, General Chair; X-ray Crystallography in the SE, Symposium Organizer 2019; Bioinorganic Modeling, Symposium Organizer, 2006; Technical Program Chair, 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, 2001; Symposium Organizer, Advances in Modern Inorganic Laboratories, 2001. *ACS Southeastern Region:* Past-Chair, 2018; Chair, 2017; Chair-Elect, 2016; Past-Chair 2006, Chair 2005, Chair-Elect 2004.

Member (current): Member ACS since 1987. Council on Undergraduate Research, American Crystallographic Association. *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.

PETERS, SALLY B. *Silicon Valley Section.* Retired, Xerox Palo Alto Research Center, Palo Alto, California.

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

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

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

Service in ACS National Offices: Council Policy Committee (Voting), 2017-19; Committee on Community Activities, 2014-17; Committee on Local Section Activities, 2004-09; Committee Associate, 2003; Committee on Meetings and Expositions, 1997-01, Committee Associate, 1995-96; Committee on Chemical Abstracts Service, 2002.

Service in ACS Offices: *Silicon Valley Section (formerly Santa Clara Valley):* Councilor, 1995-2021, Alternate Councilor, 1990-92; Chair, 2001, Chair-Elect, 2000; Chemistry Olympiad Committee, Chair, 2003-19; Hospitality & Membership, Chair, 2000-19.

Member (current): Member ACS since 1981. Special Libraries Association. *ACS Divisions:* Chemical Information; and Chemistry & the Law.

SCHOOLER, MARGARET J. *Delaware Section.* Avantor, Inc. (formerly VWRCATALYST), Radnor, Pennsylvania.

Academic Record: Miami University, B.S., 1993; The Ohio State University, M.S., 1996.

Honors: Golden Key National Honor Society.

Professional Positions (for past ten years): Avantor, Inc., Lab Science Manager, 2018 to date; Axalta Coating Systems, Senior Chemist, 2012-18; DuPont Performance Coatings, Associate Investigator, 2010-12; AstraZeneca Pharmaceuticals, Scientist, 1996-2010.

Service in ACS National Offices: Committee on Economic and Professional Affairs, Committee Associate, 2019; Council Policy Committee, ex officio (Nonvoting), 2017-18; Committee on Membership Affairs, 2013-18, Chair, 2017-18, Committee Associate, 2012.

Service in ACS Offices: Member ACS since 1994. *Delaware Section:* Councilor, 2011-19.

Member (current): *ACS Divisions:* Organic Chemistry; and Medicinal Chemistry.

Related Activities: National Chemistry Week, Outreach coordinator 2011-18; Chemists Celebrate Earth Week, Outreach coordinator, 2018; A3 Business Process training, 2019; Situational Leadership II training, 2018; Lean Six Sigma Green Belt certification, 2010; Excellence in Chemistry Awards Committee (AstraZeneca), 2008-10.

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. Satinder Ahuja | 6. Sarah M. Mullins |
| 2. Lisa M. Balbes | 7. Jason E. Ritchie |
| 3. D. Richard Cobb | 8. Susan M. Schelble |
| 4. Harry J. Elston | 9. Andrea B. Twiss-Brooks |
| 5. Emilio X. Esposito | 10. Stephanie J. Watson |

The Council must elect five individuals. The five candidates receiving the highest numbers of votes will be declared elected for the 2020-2022 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, 2019 are:

Dee Ann Casteel, Susquehanna Valley Section
D. Richard Cobb, Rochester Section
Emilio X. Esposito, Computers in Chemistry (Michigan State University Section)
Susan M Schelble, Colorado Section
Stephanie J. Watson, Maryland Section

Dee Ann Casteel is ineligible for reelection.

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

2018-2020

Mitchell R.M. Bruce, Maine Section
Jetty L. Duffy-Matzner, Sioux Valley Section
Martha G. Holloman, Delaware Section
Diane Krone, North Jersey Section
Robert A. Pribush, Indiana Section

2019-2021

Rodney M. Bennett, Agrochemicals (North Carolina Section)
Jacqueline A. Erickson, North Jersey Section
Judith M. Iriarte-Gross, Nashville Section
Donivan R. Porterfield, Central New Mexico Section
Carolyn Ribes, Brazosport Section

AHUJA, SATINDER *Eastern North Carolina Section.* Ahuja Consulting, Calabash, North Carolina.

Academic Record: University of the Sciences, Philadelphia College of Pharmacy & Science, Ph.D. Analytical Chemistry, 1964; Banaras University, M. Pharmacy, 1956; B. Pharmacy, 1955.

Honors: Outstanding Service Award, New York Section, ACS, 1979; Distinguished Chemists Award, Rockland Chemical Society, New York Section, ACS, 1989; Outstanding Service Award, Analytical Division, ACS, 1984; New York Chromatography Society, Service Award, 1980; Rho Chi; Fellow IUPAC, 2006.

Professional Positions (for past 10 years): Ahuja Consulting for Water Quality, President.

Service in ACS National Offices: Committee on Local Section Activities, 2018-20, Committee Associate, 2016-17; Committee on Environmental Improvement, 2011-13, Committee Associate, 2007-10; Committee on Divisional Activities, 1993, Committee Associate, 1992; Committee on International Activities, 1983-91, Consultant, 1992-96; Committee Associate, 1982; Joint Task Force on International Scientific Chapters, Chair, 1990.

Service in ACS Offices: *Eastern North Carolina Section:* Councilor, 2006-19; Chair, 2005; Chair-Elect, 2004. *New York Section:* Alternate Councilor, 1998-2000, 1984-90, 1979-80; Councilor, 1995-97, 1991-93, 1981-83, 1976-78; Chair 1990; Chair-Elect, 1989. *Chromatography and Separation Chemistry Subdivision:* Founder and Chair, 1984. *Middle Atlantic Regional Meeting:* Program Chair, 1997. *Analytical Chemistry Division:* Chaired Symposia in San Francisco, 2010. *Environmental Chemistry Division:* Chaired Symposia in: Orlando, 2019; New Orleans, 2018; Washington DC, 2017; Philadelphia, 2016; Denver, 2015; San Francisco, 2014; New Orleans, 2013; Indianapolis, 2013; San Diego, 2012; Philadelphia, 2012; Denver, 2011; and Boston, 2010.

Member (current): Member ACS since 1964. *ACS Divisions:* Agricultural and Food Chemistry; Analytical Chemistry; Energy and Fuels; and Environmental Chemistry.

Related Activities: Novartis Corporation 25 years in various leadership positions in R&D of drugs and simultaneously served as Adjunct Professor, PACE University. For the last fifteen years helped to solve water quality problems worldwide, e.g., arsenic contamination of groundwater in Bangladesh/ India and GenX contamination in the U.S. As a founder of the Ahuja Academy of Water Quality at UNC Wilmington, has encouraged research on various water quality issues. Given plenary lectures around the world and has published numerous papers and over thirty books. Latest books are entitled *Advances in Water Purification Techniques* (Elsevier, 2019); *Chemistry and Water: The Science Behind Sustaining the World's Most Crucial Resource* (Elsevier, 2017); *Global Water Challenges and Solutions* (ACS, 2015); *Water Reclamation and Sustainability* (Elsevier, 2014); *Food, Energy, and Water: The Chemistry Connection* (Elsevier, 2014); *Monitoring Water Quality: Pollution Assessment, Analysis, and Remediation* (Elsevier, 2013); *Novel Solutions to Water Pollution (ACS Symposium Volume, 2013)*; and *Arsenic Contamination of Water: Mechanism, Analysis, and Remediation* (Wiley, 2008); served on a distinguished panel for UN to address hunger problems in Africa and on the panel of AAAS for NSF review; *Chaired the EIC Subcommittee on Mini-grants for Sustainability* for several years; *ACS Division of Analytical Chemistry* gave Satinder Ahuja Award for Young Investigators in Separation Science at Pittcon.

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

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

Honors: Fellow, ACS 2017; ACS St. Louis Local Section Outreach Volunteer of the Year, 2016; ACS Division of Chemistry and the Law, Howard and Sally Peters Award, 2015; ACS E. Ann Nalley Midwest Regional Award for Volunteer Service 2012; Best Local Section Career Program, ChemLuminary Award, ACS, 2014, 2011, 2004; Salute to Excellence, Outstanding Service as Webmaven, St. Louis Section, ACS, 1996-04; Silver Beaver, BSA, 2014, Presidential Outstanding Service Award, St. Louis Section Society for Technical Communication, 2002-03; Service Award, St. Louis Web Developers Organization 2001; Fellow, Royal Society of Chemistry, 2013.

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

Service in ACS National Offices: Committee on Nominations and Elections, 2014-19, Secretary, 2017-19; Committee on Economic and Professional Affairs, 2008-13, Chair, 2011-13, Chair-Elect, 2010, Committee Associate, 2007; Council Policy Committee, (Nonvoting), 2011-13.

Service in ACS Offices: *St. Louis Section:* Councilor, 2010-present, Treasurer, 2005-06, Alternate Councilor, 2004-06, Chair, 2002, Chair-Elect, 2001; Career Resource Coordinator 2003 to date; Scout Clinic Chair 2004 to date. *Business Development & Management Division:* Chair, 2017. *Joint Midwest/Great Lakes Regional Meeting:* Exhibits Co-Chair, 2011. *Chemical Information Division:* Chair, Career Committee, 2006-08. *Computers in Chemistry Division:* WebMaven, 2000-08. *Professional Relations Division:* Newsletter Editor, 2007-15. *Columbus Section:* Public Relations Chair, 1993-94, Nominating Committee, Chair 1994, National Chemistry Week Committee 1992-95.

Member (current): Member ACS since 1986. Fellow, Royal Society of Chemistry; American Medical Writers Association; Author's Guild; BSA. *ACS Divisions:* Business Development & Management; Chemistry & the Law; Professional Relations; Small Chemical Businesses.

Related Activities: ACS Career Consultant, 1992 to date; Greater St Louis Area Council BSA STEM Committee, 2012 to date; National BSA STEM in Scouting Committee 2014 to date; Research Triangle Institute, North Carolina, Research Associate, 1990-92, Postdoc Computational Chemistry, 1989-90; University of North Carolina, Chapel Hill, Research Assistant, 1985-89. Published book “Nontraditional Careers for Chemists” (Oxford University Press, 2006) authored over 200 articles, and presented over 100 invited talks (US, Canada, and Scotland) on career development for scientists since 2007.

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

Honors: ACS Volunteer Service Award 2017; ACS Fellow, 2017; Northeast Region ACS Volunteer Award, 2006; Special Recognition Award, ACS Division of Chemical Technicians, 2005, 2002; ACS Rochester Section Award, 2005, 2001; ACS Rochester Section, “Salutes to Excellence” Award, 2004.

Professional Positions (for past 10 years): Retired, Eastman Kodak Company, Senior Research Associate, 1969-2011; Division Health, Safety and Environmental Director, 2000-11.

Service in ACS National Offices: Committee on Committees, 2017-19; Committee on Nominations and Elections, 2011-16, Chair, 2015-16; Council Policy Committee (Non-voting), 2014-16, 2008-10; Committee on Membership Affairs, 2008-11, Chair, 2008-10, Committee Associate, 2007; Board of Trustees, Group Insurance Plans, 2008-10, ex officio, 2008-09; Committee on Admissions, 2002-07, Consultant, 2008, Chair, 2003-05, Committee Associate, 2000-01; Committee on Technician Affairs, 1998-03, Chair, 2000-02, Committee Associate, 1997; ACS Governance Review Taskforce, 2005; Board Oversight Group on Leadership Development, 2005.

Service in ACS Offices: *Rochester Section:* Councilor, 2008-19, 1999-03; Chair, 2007, Chair-Elect, 2006; Secretary, 2005; Alternate Councilor, 2004, 1998-99; Treasurer, 1995-97. *Division of Business Development & Management:* Immediate Pat Chair, 2016, Chair, 2015, Chair-Elect 2014. *Division of Chemical Technicians:* Councilor, 2007-09, Chair, 1997; Chair-Elect, 1996; Membership Committee, Chair, 1998. *Northeast Regional Board of Directors:* Chair, 2013-2016; Vice Chair, 2007-2012. *Northeast Regional Meeting:* On-Site Coordinator 2020; Organizing Committee 2012; General Chair, 2004.

Member (current): Member ACS since 1994. *ACS Division:* Business Development & Management.

Related Activities: Facilitator for ACS Leadership course on “Collaborating Across Boundaries”

ELSTON, HARRY J. *Decatur-Springfield Section.* Midwest Chemical Safety, LLC, Dawson, Illinois.

Academic: Hillsdale College, B.S. (Chemistry/Physics), 1984; Indiana University, M.S. (Physical Chemistry), 1992; Columbia Pacific University, Ph.D., 1996.

Honors: Tillmanns-Skolnik Award, ACS Division of Chemical Health and Safety, 2019; ACS Fellow, 2015; Howard Fawcett Chemical Health and Safety Award, ACS Division of Chemical Health and Safety, 2003; Chemical Health and Safety, Fellow 2003.

Professional Positions (for past 10 years): Midwest Chemical Safety, LLC, Principal and Senior Scientist, 1996 to date; Illinois Emergency Management Agency, Radiochemistry Laboratory Supervisor and Senior Scientist, 1992-2013.

Service in ACS National Offices: Committee on Environmental Improvement, Committee Associate, 2019; Committee on Chemical Safety, Committee Consultant, 2005-09.

Service in ACS Offices: *Decatur-Springfield Section:* Councilor, 2015-20; Alternate Councilor, 2009-11; Chair-Elect, 2019, 2014; Chair, 2017-18, 2015. *Chemical Health & Safety Division:* Immediate Past Chair, 2018; Chair, 2017, Chair-Elect, 2016. Editor-in-Chief *Journal of Chemical Health and Safety*, 1999-2019.

Member (current): Member ACS since 1991. American Industrial Hygiene Association; Project Management Institute.

Related Activities: Publications Committee Member, American Industrial Hygiene Association, 2003 to date; Certified Industrial Hygienist, 2002 to date.

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

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

Professional Positions (for past ten years): *exeResearch LLC*, Chief Science Officer and Founder, 2008 to date; *Journal of Molecular Graphics and Modelling*, Editor, 2017 to date; *The Chem21 Group, Inc:* Senior Consulting Computational Chemist, 2006-15; *Community Structure-Activity Resource Project, University of Michigan:* Visiting Assistant Research Scientist, 2010-11.

Service in ACS National Offices: Committee on Committees, 2017-19; Committee on Meetings and Expositions, 2011-16, Committee Associate, 2009-10.

Service in ACS Offices: Member ACS since 1999. *Computers in Chemistry Division:* Councilor, 2009-19, Alternate Councilor, 2008, Program Chair, 2011-15, Assistant Program Chair 2006-10. *Red River Valley Section:* Chair-Elect, 2006.

Member (current): American Statistical Association, 2012-present; Sigma Xi - The Scientific Research Society, 1998-present; *ACS Divisions:* Computers in Chemistry, Chemical Information, and Medicinal Chemistry.

Related Activities: Teach-Discover-Treat, Steering Committee, 2013-19; Chemistry Day at Impression 5 Museum, Lansing, Michigan, 2005, 2008 to date; *American Chemical Society's Presentations on Demand*, Associate Editor, 2013-17; American Chemical Society's *PACS Advisory Board*, 2010-15.

MULLINS, SARAH M. *Minnesota Section.* 3M Company, St. Paul, Minnesota.

Honors: ACS Fellow, 2017; Outreach Volunteer of Year, Minnesota Section, 2018; ACS ChemLuminary Award Best Local Government Affairs, 2007; 3M Golden Step Award, 2015; 3M Discover Award, 2007; 3M National Volunteer of Year, 2003; United States Environmental Protection Agency, National Award for Achievement in Environmental Justice, 2010.

Academic Record: Northwestern University, B.A., 1996; University of California, Berkeley, Ph.D., 2001.

Professional Positions (for past 10 years): 3M Company: Abrasive System Division, Advanced Research Specialist, 2015-present; Research Specialist, 2008-14

Service in ACS National Offices: Committee on Minority Affairs, 2017-19, Committee Associate, 2019; Committee on Chemists and Public Affairs, 2006-16; Committee on Public Relations and Communications (liaison), 2012-2016. 50 Forward Volunteer Committee, 2018.

Service in ACS Offices: *Minnesota Section:* Councilor, 2006-20; Coordinator, Project SEED, 2011-20; Chair, Government Affairs Committee, 2004-10; 50 Forward Volunteer Committee, 2018.

Member (current): Member ACS since 1993. National Organization for Professional Advancement of Black Chemists and Chemical Engineers. *ACS Division:* Inorganic Chemistry.

Related Activities: ACS video, "What Chemists Do"; Board Member, Minnesota Academy of Sciences, 2009-10. Governing Board Member, 3M Technical Forum, 2009-10. Chair, 3M Technical Teams Encouraging Career Horizons, 2005-08. Board member, 3M STEM Encouragement Coordinating Council, 2007-08.

RITCHIE, JASON E. *Ole Miss Section.* The University of Mississippi, Oxford, Mississippi.

Academic Record: University of California, San Diego, B.S., 1994; University of Texas, Austin, Ph.D., 1998.

Honors: Electrochemical Society, Department of Energy Summer Research Fellow, 1998; Cora Lee Graham Award for Outstanding Teaching of Freshmen, The University of Mississippi, 2007; SEC-Academic Consortium Academic Leadership Development Program, Fellow, The University of Mississippi 2010-11.

Professional Positions (for past ten years): University of Mississippi, Faculty Fellow for Undergraduate Research in the Office of Research and Sponsored Projects 2017 to date, Assistant Dean for Undergraduate Research, 2012-14, Associate Professor, 2006 to date, Assistant Professor, 2000-06.

Service in ACS National Offices: Committee on Local Section Activities, 2014-19, 2013, Chair 2017-19; Council Policy Committee, 2017-19 (non-voting); Committee on Committees, 2013; Leadership Advisory Board, 2014-16, Committee Associate, 2013; Committee on Membership Affairs, 2006-12, Committee Associate, 2005; Younger Chemists Committee, 2002-07, Committee Associate, 2000-01; ACS Board Oversight Group on Leadership Development, Pipeline Implementation Team, 2005-10.

Service in ACS Offices: Member ACS since 1997. *Ole Miss Section:* Councilor, 2002-19; Chemistry Olympiad Coordinator 2018 to date. *North Carolina Section:* Younger Chemists Committee, Chair 1998; Career Program Liaison, 1998.

Member: Alpha Chi Sigma; Electrochemical Society. *ACS Division:* Inorganic Chemistry.

Related Activities: *American Chemical Society:* Facilitated two Leadership Development classes in the ACS Leadership Development System: Coaching and Feedback, and Collaboration Across Boundaries, 2009 to date; ACS Leadership Institute, Local Section Leaders Track, lead facilitator, 2018-19; Committee on Chemistry and Public Affairs, YCC Liaison, 2001-06; ACS Science and Technology Congressional Visits Day in Washington, DC 2001-03. *University of Mississippi:* MS Region VII Science Fair, Chair, Scientific Review Committee, 2006-09, 2011 to date; UM Innovations in STEM Education Initiative, Chair, Innovative Teaching & Learning Working Group, 2012-13; Goldwater Nomination Advisory Committee, 2014 to date; UM Faculty Senate,

Vice-President 2009-10, Chair, General Academic Affairs Committee, 2008-09; UM Intercollegiate Athletics Committee, Chair, Academic Subcommittee 2007-15, Conducted the review of the Office of Student Athlete Academic Support for the NCAA Certification Self-Study (2008 and 2011). *UM Department of Chemistry & Biochemistry*: Prepared and submitted the University of Mississippi Academ, 2017 and the ACS Committee on Professional Training Periodic Report for Recertification of our B.S. Degree in Chemistry, 2016; Freshman Chemistry Committee, Chair 2009 to date; Active Learning Advocate and POGIL practitioner.

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 and Biochemistry, 2005 to date; University of Illinois, Laboratory Instructor, and Visiting Researcher, 2014-15.

Service in ACS National Offices: Committee on Committees, 2017-19; Committee on Ethics, 2005-14, Consultant, 2015-17; Committee on Meetings and Expositions, 2015-17; Strategic Planning Committee for Committee on Ethics, 2013; Committee on Community Activities, 2004; National Chemistry Week Task Force, 2001-03.

Service in ACS Offices: *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, 2011-19. *Division of Chemical Education*: ACS Examinations Institute, Board of Trustees, 2009-11, 2013-15; Committee on Personnel and Nominations, 2015-20. *Division of Professional Relations*: Secretary, 2010-18; Strategic Planning Committee, 2017; *Rocky Mountain Regional Meeting*: Planning Committee, 2012, 2016.

Member (current): Member ACS since 1986. 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: Organizer 2020 Pacifichem Symposium: *Ethics in the Chemical Profession*, 2019-20; Reviewer, *Journal of Chemical Education*, 2005-19; Organizer, Organic Teaching Symposia, ACS National Meetings, 2012 and 2001; Publications: 19, 2005-19.

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

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

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

Professional Positions (for past ten years): University of Chicago, Research and Learning, Co-Associate University Librarian (interim), 2018 to date; Research and Teaching Support, Director, 2016 to date; Science Libraries Division, Co-Director, 2006-16; John Crerar Library, Chemistry Librarian, 1993-06.

Service in ACS National Offices: Council Policy Committee, 2015-19; Committee on Nominations and Elections, 2009-14, Vice-Chair, 2014; Committee on Chemical Abstracts Service 2003-08, Chair, 2004-06, Committee Associate, 2002; Committee on Community Activities, 2007-09, Committee Associate, 2006; Taskforce on Third Party Web Collaborations, ACS Governing Board for Publishing, 2005-06.

Service in ACS Offices: *Chemical Information Division:* Councilor, 2006-20; Chair, 2001; Program Committee, 2016, 2006-08; Awards Committee, 2007-15, Chair, 2012-15, Assistant Chair, 2011; Bylaws and Procedures Manual Committee, 2003-06, Chair, 2003-06. *Committee on Community Activities:* Evaluation and Technology Subcommittee, Co-Chair, 2007-08. *Chicago Local Section:* Director, 2015-16, Program Chair, 2018-2019.

Member (current): Member ACS since 1996. *ACS Division:* Chemical Information.

Related Activities: Library Advisory Board, American Association for the Advancement of Science (AAAS), 2017 to date; Library Advisory Board, New England Journal of Medicine, 2015-19; Academic Round Table, American Chemical Society Publications, 2014-19; Royal Society of Chemistry Publishing Library Advisory Board, 2010-16; American Library Association's *Resources for College Libraries*, Geology section co-editor, 2004-13; Geoscience Information Society, Secretary, 2007-08; National Federation of Abstracting and Information Services (NFAIS), Conference Planning Committee, 2006-07; GDCh (German Chemical Society) Computers in Chemistry group/ACS Division of Chemical Information collaboration steering committee, 2005-14; Editorial Committee XCITR instructional materials repository, 2010-14; Chemical Information Instructor feature editor, *Journal of Chemical Education*, 2002-10; Academic Library Advisory Committee, Chemical Abstracts Service, 2002-10; Symposium organizer at ACS National Meetings, 1999 to date; Library Advisory Group, ACS Publications Division, 1998-10; Cornell University, Editorial Associate, *Accounts of Chemical Research*, 1986-88; Cornell University, Wiley/NBS Spectral Database, Database Project Manager, 1985-86.

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

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

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

Service in ACS National Offices: Committee on Committees, 2017-19, Secretary, 2019; Committee on Meetings and Exhibitions, 2016, Committee Associate 2016; Committee on Local Section Activities, 2010-15, Committee Associate, 2009.

Service in ACS Offices: *Maryland Section:* Councilor, 2007-20; Chair-Elect, 2015, 2005; Chair, 2017, 2007; Vice-Chair, 2016, 2006; Secretary, 2002-04. *Middle Atlantic Regional Meeting:* General Co-Chair, 2012.

Member (current): Member ACS since 1989. Sigma Xi. *ACS Divisions:* Analytical Chemistry and Colloid & Surface Chemistry.

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

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. V. Dean Adams | 6. Alan M. Ehrlich |
| 2. Mark A. Benvenuto | 7. Alan A. Hazari |
| 3. Michelle V. Buchannan | 8. Amber S. Hinkle |
| 4. Charles E. Cannon | 9. Thomas H. Lane |
| 5. Alan B. Cooper | 10. Joseph P. Stoner |

The Council must elect five individuals: The five candidates receiving the highest numbers of votes will be declared elected for the 2020-2022 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 & Elections 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, 2019, are as follows:

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)

Lisa M. Balbes is ineligible for reelection.

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

2018-2020

Michael Appell, Agricultural & Food Chemistry (Illinois Heartland Section)
Neil D. Jespersen, New York Section
Mamie W. Moy, Greater Houston Section
Eleanor D. Siebert, Southern California Section
Julianne M.D. Smist, Connecticut Valley Section

2019-2021

Allison Aldridge, Chemical Society of Washington Section
Christopher J. Bannochie, Savannah River Section
Mary K. Engelman, Industrial & Engineering Chemistry (Northeast Tennessee Section)
Silvia Ronco, Inorganic Chemistry (Southern Arizona Section)
Frankie K. Wood-Black, Chemical Health and Safety (Northern Oklahoma Section)

ADAMS, V. DEAN *Division of Environmental Chemistry (Salt Lake Section)*. Utah State University, Logan Utah.

Academic Record: Idaho State University, B.S., 1966; Utah State University, Ph.D., 1972.

Honors: Distinguished Service Award, Division of Environmental Chemistry, ACS, 1990; Friends of Honors Award, Utah State University, 2015; Excellence in Student Advocacy and Support Award, Utah State University, 2015; Alumni Hall of Honor, Utah State University, 2005; Nevada Board of Regents' Academic Advising Award, 2004; Elliott Award for Exemplary Service in the California/Nevada American Water Works Association (AWWA), 2002; Prestigious Chair's Award, California/Nevada, AWWA, 1999; Sigma Xi Research Award, Tennessee Technical University (TTU), 1990; Performance Par Excellence Award, TTU, Tennessee Higher Education Commission, 1987; Professional Achievement Award, Idaho State University Alumni Association, 1986.

Professional Position (for past ten years): Utah State University, Professor of Civil & Environmental Engineering, Chair, Department of Engineering Education, 2012-18; Executive Associate Dean, 2012-18; Professor and Executive Associate Dean Emeritus 2018; University of Nevada Reno, Associate Dean, College of Engineering, 2003-10; Professor of Civil & Environmental Engineering, 1996-2011; Associate Dean and Professor Emeritus, 2011.

Service in ACS National Offices: Committee on Constitution and Bylaws, 2014-19, Chair, 2018-19; Council Policy Committee, (Nonvoting) 2018-19; Committee on Meetings & Expositions, 2007-12, Committee Associate, 2005-06, 1996-97; Committee on Divisional Activities, 1998-04; Committee on Environmental Improvement, 1994-99, Committee Associate, 1993; Committee on Science, Committee Associate, 1991.

Service in ACS Offices: *Division of Environmental Chemistry:* Councilor, 1992-21; Alternate Councilor, 1988-91; Chair, 2010-11, 1988-89; Chair-Elect, 1986-87; Program Committee Chair, 1991-92; Secretary, 1984-85; Assistant Secretary, 1983.

Member: Member ACS since 1967. Water Environmental Federation; Utah Water Pollution Control Association; Association of Environmental Engineering & Science Professionals; American Water Works Association; Utah American Water Works Association; International Water Association; American Society for Engineering Education, National Academic Advising Association.

Related Activities: Peer Review Panel – Chair/Vice Chair of the Universities Space Research Association and Information Dynamics/NASA ES 3.2A, Biological and Physical/Chemical (Air/Water/Food) Regeneration (BPCR) (Washington, DC), 1996–99; Peer Review Panel (Chair, ES 3.2 A, Physiochemical and Biological Air/Water/Food Regeneration), AIBS/NASA Life and Biomedical Sciences Division, Washington, D. C., 1994-95; Peer Review Panel - Environmental Science and Engineering, Advanced Research and Technology Program, Texas Higher Education Coordinating Board, Austin, TX., 1991-93; IAWPRC Water Research Journal Founders Award Selection Committee, 1990-96; AWWA Lars Scholarship Committee, 1990-98; Chairman, Governor's Committee on Water and Wastewater Treatment, Utah Science and Technology Council, Salt Lake City, 1982-84.

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, 2009 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: *Detroit Section:* Councilor, 2018-20, 2008-20, 2001- 03; Chair, 2006-07; Chair-Elect, 2005-06. *Central Regional Meeting:* Chair, 2017-18; Chair, 2013-14; Meeting General Chair, 2017, 2012. *Chicago National Meeting:* Undergraduate Programming Chair, 2007. *Environmental Division:* Archivist, 2016 to date, Member-at-Large 2017 to date.

Member (current): Member ACS since 1988. National Education Association; National Science Teachers Association; Michigan Science Teachers Association; Michigan College Chemistry Teachers Association; Council for Chemical Research; Royal Society of Chemistry. *ACS Divisions:* Catalysis Science and Technology; Chemical Education; Chemical Toxicology; Energy and Fuels; 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.

BUCHANAN, MICHELLE V. *Division of Analytical Chemistry (East Tennessee Section)* Oak Ridge National Laboratory (ORNL), Oak Ridge, Tennessee.

Academic Record: University of Kansas, M.S., 1973; University of Wisconsin, Madison, Ph.D., 1978.

Honors: ACS Fellow, 2010; AAAS Fellow, 2015; TMS 2019 Ellen Swallow Richards Diversity Award; Hall Lecturer, Vanderbilt University, 2008; UT-Battelle Excellence Award, 2002; UT-Battelle Leadership Award, 2000; ORNL Technical Achievement Award, 1998, 1993, 1989, 1985; McElvain Lecturer, University of Wisconsin, 1990; American Women in Science Technical Award (East Tennessee Chapter), 1988; IR-100 Award, 1986.

Professional Positions (for past ten years): ORNL Deputy Director for Science and Technology, 2017 to date; Associate Laboratory Director, Physical Sciences, 2004–17; Director, Chemical Sciences Division, 2000–04.

Service in ACS National Offices: Committee on Economic and Professional Affairs, Committee Associate, 2019; Committee on Committees, 2013–18; Committee on Divisional Activities, 2012–13, Committee Associate, 2011; Committee on International Activities, Committee Associate, 2007–09; Editorial Board, *Analytical Chemistry*, 1991–93.

Service in ACS Offices: *Analytical Chemistry Division:* Councilor, 2009–20; Alternate Councilor, 2000–02; Treasurer, 1995–98. *East Tennessee Section:* Chair, 1995; Chair-Elect and Program Chair, 1994.

Member: ACS member since 1975. American Association for the Advancement of Science; Sigma Xi; Alpha Chi Sigma. *ACS Division:* Analytical Chemistry.

Related Activities: Dallas 2014 ACS Spring National Meeting, Technical Organizer; NAS Board on Chemical Sciences and Technology, 2014 to date; NSF Mathematics and Physical Sciences Advisory Committee (MPSAC) Subcommittee on Food Security, Chair, 2014; NRC Chemical Science Roundtable, 2003–05; Co-Chair, DOE Basic Energy Sciences Workshops on Hydrogen, 2002; Electrical Energy Storage, 2007; Carbon Capture, 2010; Environmental Management, 2015, and Future Nuclear Energy, 2017; Associate Editor, *Biological Mass Spectrometry*, 1990–95; American Society for Mass Spectrometry, Treasurer, 1988–90. *Editorial Boards:* *Journal of Mass Spectrometry*, 1995–2000; *Biological and Environmental Mass Spectrometry*, 1986–90; *Organic Mass Spectrometry*, 1989–94; *Fresenius Journal of Analytical Chemistry*, 1998–2000. *Advisory Boards:* Brookhaven National Laboratory Board of Directors, 2018 to date; Oak Ridge Associated Universities, 2018 to date; Cornell University EFRC, 2010 to date; University of North Carolina EFRC, 2010–14; University of Wisconsin Department of Chemistry, 2011 to date; Argonne Advanced Photon Source, 2007–10; Vanderbilt University Engineering School, 2006–12; Sandia Biotechnology Council, 2004–05; University of Tennessee Department of Chemistry, 2000 to date; National High Magnetic Field Laboratory, 1999–2001; Boston University School of Medicine NIH Mass Spectrometry Center, 1997–2010; National Institute of Justice, 1995–97.

CANNON, Charles E. *Chicago Section.* Columbia College-Chicago, Chicago, Illinois.

Academic Record: Alabama A&M University, B.S., 1968; University of Wisconsin-Milwaukee, Ph.D., 1974.

Honors: ACS 50 Year Member, 2018; ACS Fellow, 2013; Alabama A&M University Alumnus of the Year 2004; Award of Merit, Chicago Association of Technological Societies Award of Merit, 1998; International Who's Who of Professionals 1995; Who's Who Among African-Americans, 1995; Citation National Association for Equal Opportunity in Higher Education; Who's Who in Black America, 1993; Who's Who in the Midwest, 1993; Who's Who in Science and Engineering, 1993; Alpha Kappa Mu; 1965-68; Beta Kappa Chi. 1965-68.

Professional Positions (for past ten years): Columbia College, Professor of Distinction-Chemistry 2006 to date; Chair, 1992-2006.

Service in ACS National Offices: Committee on Local Section Activities, 2014-19, Committee Associate, 2013, 2002; Committee on Economic and Professional Affairs, 2007-12, Committee Associate, 2004-06.

Service in ACS Offices: *Chicago Section:* Councilor, 2001-20; Alternate Councilor, 1980-2000; Vice-Chair, 2013, Chair, 2011-12, 1987-90, 1984-86, 1982-83, 1980-81; Chair-Elect, 1981-82; Secretary, 1979-80; Co-Chair, 2000-02.

Member (current): Member ACS since 1969. National Association for the Advancement of Black Chemists and Chemical Engineers; National Science Teachers Association; American Association of University Professors; National Association of Negro Musicians, Inc.; Alabama Agricultural and Mechanical University Alumni Association, Inc.; Chicago Council on Science and Tech. *ACS Divisions:* American Association of Chemistry Teachers; and Chemical Education.

Related Activities: FY2004 Improving Teacher Quality State of Illinois Grant Program (\$250,000) "The Chicago Bilingual Summer Mathematics Laboratory Using Instruction in English-as-a-Second Language and Art to Expand Access to Standards-Based Mathematics Teaching and Learning"; Duke Ellington School of Performing Arts Interdisciplinary Curriculum Development Task Force (Initiation-February 1992, Wash., D.C.) IMSA and DESPA (recipients-\$250,000 Congressional Grant administered by the Smithsonian Institute); Consultant for Satellite Outreach Enrichment Program funded by the Alfred P. Sloan Foundation (East St. Louis, Illinois); Illinois Agricultural Education Curriculum Development Program (Writing Science Lessons "Soil Chemistry"), Published by the Illinois State Board of Education, Department of Vocational and Technical Education through the University of Illinois at Urbana-Champaign; Board Member, National Consortium for Specialized Secondary Schools of Mathematics Science and Technology Representative

COOPER, ALAN B. *North Jersey Section.* Merck Research (Retired), Cooper MedChem Consulting, Montclair, New Jersey.

Academic Record: Rutgers University, B.S., 1973; M.S., 1977; Ph.D., 1984.

Honors: Burton C. Belden Distinguished Service Award, 2018; ACS Fellow, 2010; E. Ann Nalley Regional Award for Volunteer Service to ACS, 2010; Schering-Plough Research Institute Presidents Award for Outstanding Scientific and Technical Achievement, 1988.

Professional Positions (for past ten years): Cooper MedChem Consulting, 2012 to date; Montclair State University, Adjunct Professor, 2012 to 2015; Retired, Merck Research Labs, 2011 to date, Research Fellow, 2009-11; Schering-Plough Research Institute, Research Fellow, 2003-09.

Service in ACS National Office: Committee on Membership Affairs, 2019; Committee on Committees, 2013-18; Committee on Local Section Activities, 2013-15, 2003-08; Canvassing Committee, George and Christine Sosnovsky Award for Cancer Research, 2014-15; Canvassing Committee, Earle B. Barnes Award for Leadership in Chemical Research Management, 2013 to date; Task Force on Financial Goals for National Meetings & Expositions, 2013; Committee Associate, 2002; Committee on Analytical Reagents, 2013-15; Committee on Meetings and Expositions, 2009-12; Committee on Divisional Activities, 1996-01; Task Force on Local Section/Division Interactions, 2002-04.

Service in ACS Offices: *North Jersey Section:* Councilor 1995-20; Program Chair, 2013-15; Chair, 1998, Chair-Elect, 1997; Professional Relations Committee, Chair, 2006; Finance Committee, 1999-06; Executive Committee, 1997-08; Program Planning Committee, Chair, 1999-08; National ACS Award for Team Innovation, 2001-02; Lifetime Achievement Award Subcommittee, 1998; Website Committee Chair, 2000 to date; Nominating Committee Member, 2000-05, Chair, 2000; *Indicator* Committee, 1999-03; Planning Committee, 1998 to date; Baekeland Award Jury, Foremen, 1997; “*From Bench to Pilot Plant Symposium*,” Organizing Committee, 2000, 1997-98; Topical Group Planning Committee, Chair, 1996 to date; Organic Topical Group, Chair, 1995. *Middle Atlantic Regional Meeting (MARM):* Councilor Caucus, Chair, 2010 to date; General Co-Chair, 2005; Alternate Delegate, 2005 to date; Program Chair, 1999.

Member: Member ACS since 1974. American Association for the Advancement of Science; New York Academy of Science. *ACS Divisions:* Medicinal Chemistry; and Organic Chemistry.

Related Activities: LSAC-DAC Joint Subcommittee, 2004-08, Co-Chair, 2006-08; Medicinal Chemistry Division, Session Chair, 2005 ACS Spring National Meeting (“Targeting Kinase Inhibition for Cancer Therapy”); Montclair State University Visiting Committee Chair, 1999; Chemistry Olympics Judge (New Jersey Institute of Technology and North Jersey Section), 1999-07 & 2012 to date; Poster Session Judge at New York Academy of Sciences/ACS New York Section Annual Chemistry Graduate Poster Session, 1997; 58 publications & presentations and 66 patents and patent applications.

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

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

Honors: ACS Fellow, 2011; Roger Middlekauff Award, ACS Division of Chemistry and the Law (CHAL), 2008; Peters Award for Outreach, CHAL, 2017; Salute to Excellence, CHAL, 2014; Environmental Protection Agency (EPA): Silver Medal for Superior Service, 2002; Bronze Medals for Commendable Service, 1996, 1997, 2001, 2004; George Washington University Law School: Who's Who Among American Law Students, 1989-91; Dean's Fellow, 1990-91; Moot Court Board, 1989-91 (Judge's Chair, 1990-91); George Washington American Inns of Court, 1989; Consumer Product Safety Commission: Chairman's Special Citations, 1977; Distinguished Safety Glazing Award, 1975; Malanos Prize for Academic Excellence, 1972; Beta Gamma Sigma, 1972; Sigma Xi, 1966; National Science Foundation, Summer Science Fellow, 1965; Phi Eta Sigma, 1960.

Professional Positions (for past ten years): Retired 2016. Of Counsel, Stein IP, LLC, 2006-16; Weiss, Moy and Harris, 2005-06; EPA Patent Counsel and Patent Attorney, 1991-2004; Environmental Scientist/Physical Scientist, government agencies, 1973-1991.

Service in ACS National Offices: Committee on Nominations and Elections, 2017-19; Council Policy Committee (voting), 2011-16, ex officio (non-voting), 2009-10, Vice-Chair 2014-16; Committee on Constitution and Bylaws, 2004-10, Chair 2009-10; Committee on Patents and Related Matters, 1993-06, Consultant, 2004-06, Chair, 2000-02; Member, 1994-2003, Associate Member, 1993-94; Committee on Science, 2007-09.

Service in ACS Offices: *Division of Chemistry and the Law:* Councilor, 2002-19; Immediate Past-Chair, 2001; Chair, 2000; Chair-Elect, 1999; Regulatory Affairs Committee Chair, 1997-98. *Chemical Society of Washington:* Board of Managers, 2012-17.

Member: ACS Member since 1964. *Professional Societies in Law:* American Bar Association and its Intellectual Property Law Section; District of Columbia Bar Association and its Intellectual Property Law Section; Maryland State Bar Association; American Intellectual Property Law Association; Government Intellectual Property Law Association (President, 1999-2000, President-Elect, 1998-99). *ACS Divisions:* Business Development and Management; Chemistry and the Law; Nuclear Chemistry and Technology (Charter Member); Professional Relations; and Small Chemical Businesses.

Related Activities: Organizer or Co-organizer, 9 ACS Symposia from 1999-19; 2 Government Intellectual Property Law Association Symposia, 1999-2000; George Washington University: Associate Professorial Lecturer in Law, 1992-97 (teaching Seminar in Law, Science and Technology); Environmental Scientist/Physical Scientist, government agencies, 1973-91; Industrial laboratory scientist, 1967-73; ACS Student Affiliate, 1961-63. Over 100 publications and presentations.

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

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

Honors: Outreach Volunteer of the Year, ACS, 2014; ACS Fellow, 2011; David A. Shirley Award, ACS East Tennessee Section, 2004; Helen M. Free Award for Public Outreach, ACS, 2000; Science Educator of the Year, Tennessee Science Teachers Association, 2002; University of Tennessee Chancellor's Citation for Community Service, 1995.

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

Service in ACS National Offices: Committee on Nominations and Elections, 2017-19; Committee on Community Activities, 2015-17, Committee Associate, 2012-14; Committee on Chemical Safety, Consultant, 2011, 2001-10, Chair, 2005-07, Committee Associate, 2001; Committee on Local Section Activities, Committee Associate, 2011.

Service in ACS Offices: *East Tennessee Section:* Councilor, 2000-20, Chair, 1996, Chair-Elect and Program Chair, 1995, Secretary, 1993-94; Tennessee Government Affairs Committee, 2008 to date; ACS Tour Speaker, 1998 to date.

Member: Member ACS since 1972. Institute for Chemical Education; National Science Teachers Association; Tennessee Science Teachers Association; Institute for Inquiry. *ACS Division:* Chemical Education.

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

HINKLE, AMBER S. Greater Houston Section. Plant Manager, Covestro LLC, Channelview, Texas.

Academic Record: University of Utah, B.S., 1990; University of Washington, M.S., 1992; Ph.D., 1995; Prosci Change Management Certification, 2009.

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

Professional Positions (for past ten years): Vice President, Plant Manager PET Channelview & PO JV NAFTA Operations, 2017 to date; VP Health, Safety, Environment, and Quality (HSEQ) for Covestro Baytown Site, 2015-17; Director HSEQ for Bayer MaterialScience Baytown Site, 2010-15; Lab Manager and Quality Lead for Bayer Polycarbonate Manufacturing, 2003-10; Additional responsibilities as Baytown Site Change Management Team Lead, 2009-10.

Service in ACS National Offices: Committee on Nominations and Elections, 2017-19, Chair, 2019; Committee on Committees, 2011-16; Committee on Planning, Consultant, 2016, 2019; Strategic Planning Retreat Facilitator, 2012 to date; Committee on Community Activities, 2010, Committee Associate, 2009; Women Chemists Committee, 2001-08, Chair, 2006-08, Committee Associate, 1997-2000; Leadership Advisory Board, Co-Chair, 2009-14; Facilitator for two Society Leadership Courses, 2008 to date; ACS Presidential Task Force on Women in the Chemical Profession.

Service in ACS Offices: *Greater Houston Section:* Councilor, 2010-21; Alternate Councilor, 2008-09; Director, 2007-08; Organized Annual Strategic Planning Sessions, 2008 to date. *St. Joseph Valley Section:* Chair 1997 (partial), Chair-Elect, 1996.

Member (current): Member ACS since 1993. Association for Change Management Professionals.

Related Activities: Co-facilitated 30 ACS strategic planning retreats; Member Review Board for Chemical Sciences Programs at East Texas Technical College; Editor of Book *Successful Women in Chemistry*, Oxford and ACS, 2005; chaired over 15 Symposia at ACS National Meetings; given over 25 talks at ACS National Meetings; Speaker at 2010 Prosci Global Change Management Conference; facilitated over 50 leadership courses for ACS at local and national level; spoke at University of Washington on Careers in Chemistry, 2007; Member of Planning Board for Council for Chemical Research 2008, National Meeting; perform community outreach with annual chemistry demonstrations for students in the Barbers Hill Independent School District, Mont Belvieu, TX; 10 journal publications and 1 patent for sensor technology.

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

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

Honors: ACS Henry F. Whalen Jr. Award for Excellence in Business Development & Management in the Chemical Enterprise (2018); ACS Midland Section Special Recognition Award (2018); ACS Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences, 2016; ACS Henry Hill Award, 2016; ACS Fellow, 2011; Doctor of the University (honoris causa), Open University (2011); Purdue University Distinguished Alumni Award, 2009; Elected, Charter Scientist, The Science Council (UK), 2004; Central Michigan University Distinguished Alumni Award, 2002; Award for Outstanding Achievement and Promotion of the Chemical Sciences, Midland Section, ACS, 1994, 1991; Dr. Martin Luther King, Jr., Recognition Award, 1995; Elected, Fellow, Royal Society of Chemistry, 1994; Lynn Heatley Award for Distinguished Service, Delta College, 1986.

Professional Positions (for past ten years): Retired; Delta College, CAO and Vice President of Instruction and Learning Services, 2010-13; Retired, Dow Corning Corporation, S&T Director and Senior Research Scientist, 1974-2009.

Service in ACS National Offices: Board of Directors, 2008-10; Ex Officio Councilor, 2008 – Lifetime; Past President, 2010; President, 2009; President-Elect, 2008; Committee on Nominations and Elections, 2017-19; Committee on Education, 2011-16; Executive Committee, 2008-10; Committee on Planning, 2008-10; Council Policy Committee (Voting), 2008-10, Chair, 2009; Committee on Committees, Member Ex Officio, 2008; Committee on Grants and Awards, 2008-09; Committee on Public Affairs and Public Relations, 2008; Committee on Executive Compensation, 2008-10, Chair, 2010; Committee on Budget and Finance, 2007-16, Vice-Chair 2010, Committee Associate, 2006; Committee on Corporation Associates, 2000-07, Chair 2005-07, Vice-Chair 2002-04, Consultant 2010-15; Board of Trustees, Group Insurance Plans for ACS Members, 2002-10, Chair, 2007-10, Vice-Chair and Chair Pro Tem 2006; Development Advisory Board, 2008-10; Leadership Advisory Board, 2011-19.

Service in ACS Offices: *Midland Section:* Councilor, 2005-07, Alternate Councilor, 2003-05; Past Chair, 1997, 1987, Chair, 1996, 1986, Chair-Elect, 1995, 1985; Secretary, 1982; Board of Directors, 1984-95, 1982, 2015, Ex Officio Director, 2016-lifetime; Executive Committee, 1996-97, 1985-94, 1982, 2015, Ex Officio; ACS National Science Foundation Network Member, 1991-00.

Member: Member ACS since 1973. American Association of Chemistry Teachers; Alpha Chi Sigma; Royal Society of Chemistry; Sigma Xi; The Scientific Research Honor Society, President Midland Chapter, 1988-89, North Central Region Associate Director, 2015-2021; American Indian Science and Engineering Society (Sequoia Fellow), Society for the Advancement of Hispanic/Chicanos & Native Americans in Science (Life Member). *ACS Divisions:* American Association of Chemistry Teachers; Industrial and Engineering Chemistry; and Professional Relations.

Related Activities: Trustee and Past Chairman of the Board of Trustees, (1999-2010) Delta College; Trustee, Delta College Foundation Board; Trustee and Vice President, Dow Corning Foundation; Director, Midland Rotary, 2015-17; Rotary Assistant Governor District 6310 (2019-2022).

STONER, Joseph P. Georgia Section. Retired, Shimadzu Scientific Instruments.

Academic Record: Georgia Tech, B.Ch.E., 1966; University of Georgia, M.B.A., 1971.

Honors: ACS Fellow, 2011; Georgia Section Outstanding Service Award, 2010; Director's Award for Advancing ACS Public Policy in R&D Funding, 1998; Georgia Tech Alumni Association, Ramblin' Wreck Volunteer Award, 1998; Phi Kappa Phi; Beta Gamma Sigma.

Professional Positions (for past ten years): Habitat for Humanity, DeKalb, Executive Director, 2005-10.

Service in ACS National Offices: Committee on Budget and Finance, 2011-19, Committee Associate, 2009-10; Committee on Economic and Professional Affairs, 1998-99, 1995-96, Committee Associate, 2008-10; various subcommittee chairs on both committees; ACS Board-Presidential Task Force on Society Services and Associated Dues Pricing Models. 2010-14.

Service in ACS Offices: Member ACS since 1972. *Georgia Section:* Councilor, 2019-21, 2007-12; Alternate Councilor, 2013-15; Secretary, 2004-06; Chair, 2003. *North Jersey Section:* Councilor, 1998-99, 1994-96; Chair, 1995; Alternate Councilor, 2000-01, 1997, Chromatography Topical Group, Chair 1992-1993; Treasurer 1991-1992; Secretary 1990-1991. *Business Development & Management Division:* Chair, 2016. *Professional Relations Division:* Chair, 2014, Ethics Subdivision Chair, 2012. *Middle Atlantic Region:* Caucus, Chair, 1995-96.

Related Activities: American Baptist Historical Society, Treasurer, Board of Directors, 2010-19; DeKalb History Center, Board of Directors, 2013-19; Decatur Cooperative Ministries, Board of Directors, 2010-13; Atlanta Enterprise Center, Board of Directors, 2003-10; Leadership DeKalb, Class of 2009.

REQUEST FOR SUGGESTIONS FOR 2021 ELECTED COMMITTEES

A Reminder

At the Council meeting in San Diego, California, Councilors will elect members to the Committee on Committees, Council Policy Committee, and Committee on Nominations and Elections to fill 2020-2022 terms. The process to select nominees for 2021-2023 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, 2020, 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. Amber S. Hinkle, nomelect@acs.org.

COMMITTEE ON COMMITTEES

Members of the Committee on Committees (ConC) whose terms end on December 31, 2020, are:

Mitchell R.M. Bruce, Maine Section
Jetty L. Duffy-Matzner, Sioux Valley Section
Martha G. Holloman, Delaware Section
Diane Krone, North Jersey Section
Robert A. Pribush, Indiana Section

Mitchell R.M. Bruce, Jetty L. Duffy-Matzner, and Robert A. Pribush are ineligible for reelection.

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

Term ending December 31, 2021

Rodney M. Bennett, Agrochemicals (North Carolina Section)
Jacqueline A. Erickson, North Jersey Section
Judith M. Iriarte-Gross, Nashville Section
Donivan R. Porterfield, Central New Mexico Section
Carolyn Ribes, Brazosport Section

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)
Susan M Schelble, Colorado Section
Stephanie J. Watson, Maryland Section

ConC nominees for 2020-2022 terms are listed in this Council agenda under "Election to Committee on Committees." Names of those elected will be announced at that meeting. Dee Ann Casteel is ineligible for reelection.

COUNCIL POLICY COMMITTEE

Members of the Council Policy Committee whose terms end on December 31, 2020, are as follows:

Mark D. Frishberg, California Section
Zaida C. Morales Martinez, South Florida Section
Linette M. Watkins, Virginia Section

Linette M. Watkins is ineligible for reelection.

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

Term ending December 31, 2021

Ella L. Davis, Philadelphia Section
Lissa Dulany, Georgia Section
Lisa Houston, Energy & Fuels (Greater Houston Section)
Martin D. Rudd, Northeast Wisconsin Section

Term ending December 31, 2019

Harmon B. Abrahamson, Red River Valley Section
Karl S. Booksh, Analytical Chemistry (Delaware Section)
Will E. Lynch, Coastal Georgia Section
Sally B. Peters, Santa Clara Valley Section
Andrea Twiss-Brooks, Chemical Information (Chicago Section)

CPC nominees for the 2020-2022 term are listed in this Council agenda under "Election to Council Policy Committee." Names of those elected will be announced at that meeting. Harmon B. Abrahamson, Karl S. Booksh, and Andrea Twiss-Brooks 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, 2020, are as follows:

Michael Appell, Agricultural & Food Chemistry (Illinois Heartland Section)
Neil D. Jespersen, New York Section
Mamie W. Moy, Greater Houston Section
Eleanor D. Siebert, Southern California Section
Julianne M.D. Smist, Connecticut Valley Section

Mamie W. Moy and Eleanor D. Siebert are ineligible for reelection.

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

Term ending December 31, 2021

Allison Aldridge, Chemical Society of Washington Section
Christopher J. Bannochie, Savannah River Section
Mary K. Engelman, Industrial & Engineering Chemistry (Northeast Tennessee Section)
Silvia Ronco, Inorganic Chemistry (Southern Arizona Section)
Frankie K. Wood-Black, Chemical Health and Safety (Northern Oklahoma Section)

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)

N&E nominees for the 2020-2022 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. Lisa M. Balbes is ineligible for reelection.



Dr. Amber S. Hinkle
nomelect@acs.org

Dear Dr. Hinkle:

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. Hinkle no later than October 31, 2019

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 3, 2019, meeting of the Council for selection of candidates for 2020 President-Elect. Also reported are the results of balloting (March 4, 2019) for the selection of candidates for Director from District II and for Director from District IV for 2020-2022 terms. Nominees selected as the candidates are identified by an asterisk.

President-Elect, 2020^a

Nominee	1 st Round	2 nd Round	3 rd Round
Magid Abou-Gharbia	72	-	-
*H.N. Cheng	145	168	191
*Carol A. Duane	125	147	177
Christopher J. Welch	82	107	-

^a424 valid electronic ballots were cast, with 213 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 subsequent rounds. Those marked with an asterisk (*) were declared elected as candidates.

DISTRICT II^a

Nominee	1 st Round	2 nd Round	3 rd Round
*Christina C. Bodurow	39		
Mark E. Jones	2	12	
*Dawn Mason	12	24	29
Angela K. Wilson	3	15	22

DISTRICT IV^b

Nominee	1 st Round	2 nd Round	3 rd Round
Lissa A. Dulany	12	14	
James C. Carver	9		
*Rigoberto Hernandez	27	30	35
*Lisa Houston	22	26	35

^a The results of the first preference vote totals are shown in the 1st round column. One 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 as candidates.

^b 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 asterisk (*) were declared elected as candidates.

* Individuals selected as candidates

REPORT OF THE PRESIDENT

I'm looking forward to seeing you in San Diego!

It is difficult to keep this brief because there is so much to talk about, but I'll try. I'm happy to note that throughout the projects and activities reported below, there is a strong theme of collaboration across ACS units, and with our external partners.

In the area of **Advocacy**, I participated in visits to Capitol Hill in early May. In addition to encouraging participation in the Chemistry Caucus, we urged members to support the following legislation, and I urge you to encourage support by your members of Congress:

- H.R. 36/S.1067 – The Combating Sexual Harassment in Science Act of 2019
- H.R. 2051/S. 999 – the Sustainable Chemistry Research and Development Act of 2019
- H.R. 1396/ S. 590 – the Hidden Figures Congressional Gold Medal Act
- Reauthorization of the Higher Education Act

To encourage advocacy for chemistry and science education at the state level, I sent an “easy ask” to local sections to encourage them to request resolutions from state and local governments in support of the International Year of the Periodic Table of Chemical Elements (IYPT). It is my hope that this activity will help local sections become more active in advocacy at the state level where so many decisions are made regarding support of science education. I'm working with the Committee on Public Affairs and Public Relations to develop other programs and communication tools to energize government affairs committees within and across local sections. I am also happy to report that a tool kit has been developed to assist members who are interested in running for political office at any level. This tool kit will reside on the Act4Chemistry website, and is a non-partisan resource to guide members through the process.

As a strong supporter of ACS **Regional Meetings**, it was great to participate in three regional meetings in the first half of this year, the Great Lakes Regional Meeting (GLRM) in Lisle, Illinois, the Central Regional Meeting (CERM) in Midland, Michigan and the Northwest Regional Meeting (NORM) in Portland, Oregon. A highlight of GLRM was to present the Gibbs Medal from the Chicago Section to Professor Marcetta Darensbourg. In conjunction with CERM, I participated in the designation of a National Historic Chemical Landmark in honor of Gas Chromatography-Mass Spectrometry, recognizing the seminal work of Fred McLafferty and Roland Gohlke. At NORM, we held a well-attended Advocacy Workshop, particularly fitting since NORM was the site of the first advocacy workshop held at a regional meeting in 2018 sponsored by Past President Allison Campbell.

Since my last report to you, my local section visits included the South Florida Local Section, where I participated in the section Awards Luncheon, and visited the campuses of Florida International University and the University of Miami to give presentations and discuss chemistry careers with students. I also had the opportunity closer to home to speak at a joint meeting of the Silicon Valley and California Local Sections. I'm looking forward to the first Bay Area Chemistry Symposium which is a collaboration of these two sections and local Bay Area industry and universities.

In the realm of **International Collaborations**, I met with the Board of the Canadian Society of Chemistry in Quebec City in early June. We discussed areas of continued collaboration such as Pacifichem, and potential new collaborations including IYPT and a focus on programs directed toward the United Nations Sustainable Development Goals (SDG) <https://sustainabledevelopment.un.org>. IYPT and the SDGs were also themes at the Symposium on Women in Chemistry arranged by the Organisation for the Prohibition of Chemical Weapons (OPCW). I was honored to represent ACS as one of six speakers/facilitators at this symposium, which was aligned with our core values of Diversity, Inclusion and Respect. The aims of the symposium were “to illustrate the strength and depth of the contribution of women to chemical safety and security management; to raise awareness of the opportunities for capacity and knowledge development for women in chemistry; and to promote international solidarity and cooperation to develop human capital for the future of peaceful chemistry, be it international organisations, government, industry or academia. I look forward to our continued collaborations with this Nobel Prize winning organisation.

Safety and the Environment as a theme this year is reflected in my Presidential programming for San Diego, which involves joint programming of multiple Divisions and other ACS units working together. These include The Chemistry of Disasters, which will focus on wild fires and earthquakes; Keeping Water Safe; and From Oceans to Clouds: The Environmental Chemistry of Water. Other Presidential Symposia are Collaborating for the Greater Good: What Works and What Doesn't which will offer analyses of industry/academia collaborations, an ACS Chemistry Teachers Reception, and of course, the outreach event “ACS Kids Zone – A Presidential Outreach Event Celebrating the International Year of the Periodic Table.” Please also watch for the President Recommends events and symposia.

Thank you for your ideas and support. Feel free to contact me at any time at b.charpentier@acs.org.

Bonnie A. Charpentier

REPORT OF THE PRESIDENT-ELECT

After a productive (and very busy) ACS National Meeting in Orlando, where I interacted and made presentations to the Committees on Younger Chemists and International Activities, among many others, a more clear idea emerged about my plan to develop a Lindau-like conference under the auspices of the ACS, called "Lasting Encounters between Aspiring and Distinguished Scientists" (LEADS). With the help of ACS staff, an initial concept paper was submitted followed by a full proposal to the ACS to hold the pilot conference in conjunction with the National Meeting in San Francisco in 2020. A teleconference was held with a subcommittee of the Committee on Budget & Finance to discuss the proposal and we soon expect some feedback. Based on my priorities and in preparation for the San Diego meeting I have asked for 10 to 15 minute meetings with the Committees on Chemistry and Public Affairs, International Activities, Minority Affairs, Women Chemists, and Younger Chemistry; and the and Division of Small Chemical Businesses Executive Committee to get their input for consideration during my 2020 initiatives.

One of the Presidential Symposia for the Philadelphia 2020 meeting is being planned with a title: "Running for Public Office: Guidelines and Experiences", with the aim of encouraging and helping scientists and engineers to run for public office positions. Scientists who have run for office and either won or lost their election will offer detailed advice about what to do and not to do to try to be elected.

While in Spain in May, we hosted a reception for ACS members in Madrid, which was attended by about 40-50 people. I made many new contacts and heard multiple ideas about how to engage the Spanish Chemical Society with the ACS. Some of the ideas involve faculty and student exchanges which are very interesting to me and would like to consider implementation in a pilot fashion.

I also attended Northwest Regional Meeting in Portland, Oregon and met and had serious idea exchanges with many of the attendees. Of particular interest for me was the plenary lecture by Professor Geraldine Richmond on the structure of surface water, and special events organized by the Women Chemists Committee (lunch) and the Senior Chemists Committee, and an LGBT reception, which were all very informative. I also participated in an ACS Science Advocacy Workshop which taught me a few things I did not know.

Finally, I am currently planning a trip to Mexico in the fall to attend their chemical society conference, along with visits to South America, mainly Argentina, Chile and Peru, in an effort to establish closer links with these societies, which is also one of my top priorities.

Luis Echegoyen

REPORT OF THE IMMEDIATE PAST PRESIDENT

I wasn't censured after my oral report to Council in Orlando, but after this, my final report, I can safely say that I will soon join my venerated fellow Councilors on the floor in March 2020, as a formal Past President. Serving as your elected leader and member of the Board of Directors these three years has been exciting and rewarding. In this role, we don't accomplish anything without great volunteer members who are willing to grab an oar and row with you – some think the ACS President is the coxswain shouting cadence from the stern, but true leadership comes from the bow, holding an oar like everyone else, and discreetly signaling directions.

Not all my journeys this spring and summer have been by boat. I represented our place as a global professional scientific society at the 42nd Sociedade Brasileira de Química (SBQ) Meeting in Joinville, Brazil, and helped celebrate the International Year of the Periodic Table with hundreds of students who joined the meeting. I also had the pleasure of sharing time with over 100 members and guests in Kalamazoo, MI to celebrate the National Historic Chemical Landmark designation for the development of steroids at the Upjohn Company.

Consistent with my goal of supporting diversity in the chemical professions, I plan to travel with a number of other ACS members and staff to attend the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCChE) Meeting to solidify our partnerships to broaden participation in education and the professions by African-Americans and promote collaborations by our Boards of Directors. I will also represent ACS at the American Indian Science and Engineering Society (AISES), and the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Meetings this fall.

Promoting Safety

ACS continues to collect and archive information and resources from across the spectrum of education and regulatory compliance so that we are becoming the critical source for our members at our recently-updated web site: www.ACS.org/safety. This could only be accomplished with the many dedicated member volunteers who have served as subject matter experts, the corporate sponsors, and the many others who will continue to volunteer their time and talent to prepare our members for the workforce. To this end, I have continued to work with the Committee on Chemical Safety and the Division of Chemical Health and Safety to promote the recommendations from the spring 2019 Safety Summit and to consider updating the Chemical Safety Manual for Small Businesses.

Creating a Diverse & Inclusive Society

Including the diversity of experiences and viewpoints in our profession is key to its future successes – our teams are stronger and our ideas are more creative when we include different views. Inclusiveness was added to our ACS Core Values last year, and I have served as one of our Board Liaisons to the Diversity and Inclusion Advisory Board. Following on the heels of our Council discussion last August, ACS became one of the founding members of the Leadership Council of the Societies Consortium on Sexual Harassment in STEMM: An Initiative to Advance Professional and Ethical Conduct, Climate and Culture: <http://educationcounsel.com/societiesconsortium/>. In short order, this group has produced a policy and guidance document for Society Honors and Awards, which was shared with the ACS Board of Directors in June and is being acted upon by the Committee on Professional & Member Relations. We have also posted the volunteers and attendees conduct policy on the meetings website and initiated an anonymous meeting reporting hotline for both English and Spanish speakers, but there is more to do.

A special thanks to all the ACS volunteers and staff who have motivated excellence this year and have joined in rowing with me. You have inspired me to try to do great things for the members of the Society and the students and practitioners of the chemical professions.

Peter K. Dorhout

REPORT OF THE CHAIR OF THE BOARD OF DIRECTORS

Fellow Councilors:

Several strategic issues have captured the special attention of the Board in recent months, some of which involve potential threats to Society funding sources whereas others concern ensuring the relevance of ACS within an evolving chemistry enterprise.

1. Although ACS has provided leadership development resources of various sorts for many years, we know that changes in the chemistry enterprise, many of which are beyond our immediate control, will require that these resources evolve in parallel. The NextGen Leadership Development Program task force will be presenting a preliminary framework for the evolved program during the Regular Session of the Board of Directors at noon on Sunday, August 25. Please join the Board at that time and share your views on what ACS can do to prepare our members to thrive in the coming decades.
2. There is no doubt that the global journals publishing environment is changing, the only question being whether that change is evolutionary or cataclysmic. Even if Science Europe's Plan S, which is a proposal geared towards moving all scientific publishing to an open access model, is not adopted in the US, we recognize that some features of Plan S are gaining traction worldwide. The Board, in collaboration with the Governing Board for Publishing, is spending considerable time focused on how ACS should respond to this changing environment while maintaining the quality of our journals and adhering to the ACS mission.
3. The Board approved a modification to one of the ACS core values last year, specifically the addition of "Respect" to the "Diversity and Inclusion" core value, thereby emphasizing that we are committed to doing more than checking demographic boxes. We want to ensure that all who participate in the chemistry enterprise feel welcome within the ACS fold, that the concerns and aspirations of all are being heard and taken seriously, and that all are able to benefit from the spectrum of ACS programs and services. The question, though, is how best to move from aspirational goals to implementation strategies. I would be naïve to expect a quick and easy solution, but the Board will be working on developing additional strategies in the coming months.
4. I am sure you are aware that the Committee on Membership Affairs, in conjunction with ACS staff, is examining various revisions to the (more or less) one-size-fits-all membership model. In short, what should it mean to be an ACS member when we reach the 2026 sesquicentennial of the Society? Should there be a variety of models, each of which would be associated with a particular set of privileges? The Board will be providing input into this discussion and, of course, assessing how any such changes will impact other strategic initiatives of the Society.
5. The Task Force on the Future of Meetings, to which I alluded in my most recent reports to Council, is now in place and is in the process of soliciting input on how the entire portfolio of ACS meetings and conferences can better address the needs of members now and in the future. The Board devoted time during a retreat prior to its June meeting to providing preliminary thoughts on the topic, recognizing the difficulty associated with moving beyond a mere tweaking of the present meeting models to which we have become so accustomed. I hope that you will assist the task force in its work by sharing your ideas on how our meetings might and should look if they are to preserve their relevance and value in the coming decades.

My colleagues and I always welcome your input, whether it be related to the above topics or on entirely different issues. We are always listening at secretary@acs.org. Of course, you also can tackle us (so to speak) before or after the Council meeting.

John E. Adams

MINUTES
REGULAR SESSION
BOARD OF DIRECTORS
AMERICAN CHEMICAL SOCIETY
Orlando, Florida
March 31, 2019

The Board of Directors of the American Chemical Society (ACS) met in Orlando, Florida, on March 31, 2019, beginning at 12:00 p.m. John E. Adams, Chair, presided. Other Directors present for all or part of the meeting were Christina C. Bodurow, Bonnie A. Charpentier, Thomas M. Connelly, Jr., Peter K. Dorhout, Luis Echegoyen, Teri Quinn Gray, Rigoberto Hernandez, Paul W. Jagodzinski, Wayne E. Jones, Jr., Lee H. Latimer, Katherine L. Lee, Ingrid Montes, Dorothy J. Phillips, Barbara A. Sawrey, and Kathleen M. Schulz. Present for all or part of the meeting were Susan Butts, Albert G. Horvath, Flint H. Lewis, and Frank E. Walworth. More than 250 observers were present at various times during the meeting.

Call to Order and Chair's Report from Executive Session

John E. Adams, Chair, opened the meeting by welcoming the attendees and introducing his Board colleagues. In particular, he welcomed Albert Horvath, the new ACS Treasurer and Chief Financial Officer, to his first Board regular session meeting. Next, Dr. Adams summarized the actions and discussion points from the Board's executive session held March 29-30, where the Board considered and responded to a variety of key strategic issues facing ACS, ACS members, and the global chemistry enterprise.

The Board's Committees and Task Forces

The Board received and discussed reports from its committees on Executive Compensation, Professional and Member Relations, the Joint Board-Council Committee on Publications, the ACS Governing Board for Publishing, and the Next Generation ACS Leadership Program Task Force. In particular,

- The Board received an extensive briefing and approved several recommendations from its Committee on Executive Compensation. The compensation of the Society's executive staff continues to receive 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. Those appointments will be announced in C&EN once the appointed individuals have been notified and arrangements for their continued service have been made.
- On the recommendation of the Committee on Professional and Member Relations, the Board approved screened lists of nominees for the 2020 Priestley Medal and the ACS Award for Volunteer Service. The Board will select the recipients of these latter two awards from the screened lists provided.
- The co-chair of the Next Generation ACS Leadership Program Task Force gave an update on the efforts of the task force. The task force has reviewed and considered the history of ACS leadership efforts since 1965 in preparation for offering key considerations and principles for providing ACS members with the means to develop as individuals, professionals, and ACS volunteers. Next steps include continuing to gather feedback from various ACS entities and constituencies and developing a framework for professional development that is reflective of the ACS core values (focus on members; professionalism; diversity, inclusion, and respect; and safety and ethics).

The Executive Director/CEO Report

The Executive Director and CEO briefed the Board on issues relating to Focus on Members as a core value of the Society as well on ACS financial performance, Operational Excellence, and upcoming events and activities. His direct reports then engaged in strategic discussions with the Board relevant to the activities, opportunities, and challenges of the Membership and Society Services Division, the ACS Publications Division, and Chemical Abstracts Service (CAS).

Other Society Business

As is customary, the Board heard reports from the Presidential Succession on their current and planned activities for 2019. The Board also reviewed a proposed schedule for the Board retreat, meeting, and related activities in conjunction with the Central Regional Meeting in Midland, Michigan, June 3-9, 2019.

Reports of Officers

Dr. Adams then invited the members of the Presidential Succession and the Executive Director & CEO to provide brief reports.

President

ACS President Bonnie A. Charpentier reminded the audience that her overarching theme for 2019 is collaboration, both across ACS units and with external partners, including scientific societies in the US and around the world. She highlighted some recent international collaborations: participation in the Conference of Latin American Chemical Societies (Fall 2018); the opening ceremony for IYPT at UNESCO headquarters (January); a visit to the newest international chemical sciences chapter in Jordan for their first-ever Chemistry Festival; and participation in the 84th Israel Chemistry Society Meeting (February). Two broader areas of focus have been advocacy and safety. Dr. Charpentier has been working with the Board Committee on Public Affairs and Public Relations to both understand the status and grow the effectiveness of our advocacy efforts for science and education at the state level. She was pleased to cosponsor the second ACS Safety Summit in early March with its particular focus on safety education. Dr. Charpentier also highlighted presidential programming for this national meeting and concluded by inviting the audience to send ideas and suggestions to her at b.charpentier@acs.org.

President-Elect

ACS President-Elect Luis Echegoyen reported that although he is just beginning his time in the presidential succession, he is off to a good start. He expects his time in Orlando to be very productive as he continues to interact with committees, divisions, and governance entities to fulfill his presidential initiatives for 2020. He is working with staff to develop a multi-leg trip through Latin America to visit with students, international chapters, and sister chemical societies in countries where ACS does not currently have strong ties. His stated goal is to strengthen relationships between these chemical professionals and ACS. He is also working to establish an annual conference in the United States similar in format to several around the world focusing on younger scientists. These include the Lindau Conference in Germany, the Global Young Scientists Summit in Singapore, and the HOPE Conference held in Japan. As a result of his working with governance units and staff, the framework for a US based conference, called Lasting Encounters between Aspiring and Distinguished Scientists (LEADS), is beginning to take shape. Dr. Echegoyen concluded with an invitation to audience members to contact him with advice and ideas at lechegoyen@acs.org.

Immediate Past President

ACS Immediate Past President Peter K. Dorhout reported that he has had many opportunities to network with ACS members, including those members who also belong to sister societies. He recently attended the meeting of the Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS, October 2018). The Council special discussion on preventing sexual harassment in the sciences was productive, with numerous useful suggestions and comments. Since the discussion, ACS

has joined a consortium to address the topic with other societies, and a symposium book series by the Committee on Women Chemists will have a chapter on the Council discussion. He added that more needs to be done, however, to ensure our local sections and divisions adopt their versions of the national conduct policy. Dr. Dorhout also reported that he continues to support ACS's weekly promotion of ACS Scholars, which has featured over 90 Scholars to date. He has made numerous appearances at universities and ACS local section and regional meetings, the most recent being at the University of Illinois, Urbana-Champaign on Feb. 5, 2019 for a National Historic Chemical Landmark event to recognize St. Elmo Brady, the first African-American to receive a Ph.D. in chemistry.

Executive Director and Chief Executive Officer

ACS Executive Director and Chief Executive Officer Thomas M. Connelly welcomed everyone to the national meeting. He reported that ACS ended 2018 with more than 151,000 members, a number up slightly from that of the prior year and representing the first increase in nearly a decade. Our numbers included additional members residing outside the U.S., who now comprise 19% of our total. He offered a few examples of ACS's commitment to bettering the member experience by providing additional value in the form of new products and services, especially for students nearing graduation. ChemID, an individual development plan tool, was designed to help graduate students and postdoctoral scholars to assess their strengths, identify areas meriting skills improvement, set goals, and explore careers. The Catalyzing Career Network (C2N) was launched at the national meeting in August 2018 to facilitate conversations between undergraduates and graduate students and prospective employers and to encourage career networking at our national meetings. The Career Pathways Course helps members discover their preferred career pathway, be it in industry, education, government, or entrepreneurship, and guides them through the application process unique to each pathway. He invited the audience to learn more about the many ACS programs, products, and services by visiting the 2018 Highlights of ACS Achievements at www.acs.org/acshighlights

Guest Presentation

Dr. Adams introduced a guest speaker for the meeting, Dr. Susan Butts, chair of the ACS Working Group on Immigration and Work Visas, who was invited to speak on "Workforce Immigration and its Relationship to the U.S. Economy, Innovation, and Global Competitiveness." Dr. Butts began by introducing the working group members, many of whom were present. She stated that the charge given to the group by the Committee on Economic and Professional Affairs in 2017 was to determine if there is a consensus among ACS members on immigration and to recommend an immigration policy statement to the Board of Directors. She gave an overview of the data compiled and reviewed by the working group: pathways to entry for recent US immigrants; statistics on citizenship status of doctoral degree recipients, including chemists; details of all Labor Condition Applications submitted to the US Department of Labor in support of H1B visa petitions; recent domestic unemployment trends; and the economic impact of high-skilled immigrants. The results of three ACS member surveys conducted in 2017 and 2018 were also shared. She also summarized the conclusions of the working group, saying that overall, legal, high-skilled immigrants are a net benefit to the US economy and the chemistry enterprise. She concluded by outlining the next steps, which should culminate in the presentation of a policy statement on workforce-related immigration to the Board of

Directors in June for consideration. Following the presentation, Dr. Adams moderated comments and questions from the audience. Dr. Butts and members of the working group remained after the meeting to speak with audience members individually.

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

There being no further business, the meeting adjourned at 12:55 p.m.

Flint H. Lewis
Secretary

**BOARD CHAIR'S REPORT
OF THE EXECUTIVE SESSION
ACTIONS AND DISCUSSION ITEMS
JUNE 2019**

The ACS Board of Directors met in Executive Session June 7-8, during which the Board considered a number of key strategic issues and responded with several actions.

The Executive Director/CEO Report

The Board received an extensive report from the Executive Director and CEO on issues relating to the Passion for Chemistry and the Global Chemistry Enterprise core values of the Society, as well as on Membership, ACS financial performance, and upcoming events and activities. His direct reports engaged in discussions with the Board on the activities, opportunities and challenges of the Office of the Secretary and General Counsel, Chemical Abstracts Service (CAS), and the ACS Publications Division.

The Board's Committees and Task Forces

The Board received and discussed reports from its committees on Public Affairs and Public Relations, Professional and Member Relations, Strategic Planning, the Governing Board for Publishing, and the Next Generation ACS Leadership Program Task Force. In particular,

- The Committee on Professional and Member Relations shared with the Board the names of the recipients of the 2020 Priestley Medal, and the 2020 Award for Volunteer Service to the ACS.
- The Board reappointed a member with executive experience from industry to the Governing Board for Publishing for a second term.
- On the recommendation of the Committee on Public Affairs and Public Relations, and with input from several ACS policy-related committees, the Board approved the ACS public policy statement on Workforce Related Immigration.
- The Committee on Strategic Planning received positive feedback from the Board on its efforts to align the process that takes the ACS Strategic Plan and translates it into operational objectives and areas of focus for Board consideration.
- The Next Generation ACS Leadership Program Task Force shared its mission, "Provide members the means to develop as individuals, professionals and ACS volunteers" and an overview of its proposed scope of work in the next two months. The results of these efforts will be presented to the Board in San Diego. At the Board Regular Session in San Diego, the task force will present a panel discussion to highlight critical skills needed to be successful in the chemistry enterprise. Members who have taken the courses and have leveraged the skills obtained via the ACS Leadership Development System will speak. At the conclusion of the meeting, the Board will recognize the tenth anniversary of the Leadership Development Program.
- The Board held a retreat immediately prior to the Board meeting focused on the future of ACS meetings and on future planning for ACS Publications.

Other Society Business

The Board confirmed action taken by the Council in Orlando on April 3, 2019 approving the continuation of the Joint Board-Council Committee on Senior Chemists. Furthermore, the Board approved establishment of the Pakistan International Chemical Sciences Chapter and approved the list of PRF Grant recommendations as submitted by the Committee on the ACS Petroleum Research Fund.

As is customary, the Board heard reports from the Presidential Succession on their current and planned activities for this year. Several presidential symposia and events incorporating and supporting the upcoming fall national meeting's theme of "Chemistry and Water" were highlighted in those reports.

The Board accepted with thanks a distribution of \$1.5M received from the Board of Trustees for the Group Insurance Plans and agreed that the funds should be used in concert with the Board-approved development goals of the Society.

The Board offered a resolution in memory of the passing of John Kistler Crum, recalling with deep appreciation his service to the Society as its Executive Director for twenty years (1983-2003) and as a member of the ACS staff for nearly forty years (1964-2003).

Strategic Issues Discussion

The Board engaged in a strategic issues discussion on the United Nations Sustainable Development Goals (SDGs) and what ACS can do to develop a framework for action. Seventeen aspirational goals and 169 associated targets were established by the United Nations in 2015 to stimulate action for people, planet, prosperity, peace, and partnership as part of a new sustainable development plan. As the premier organization for chemistry professionals worldwide, ACS can play a leadership role in harnessing the skills, experience, and knowledge of the chemistry community to address the grand challenges of sustainability. Seven of the SDGs are seen as being particularly strategic and relevant for the chemistry community. An additional five crosscutting SDGs reflect the Society's core values. The Society is already incorporating the SDGs into its Chemistry Enterprise Partnership agreements with other organizations.

John E. Adams

REPORT OF THE EXECUTIVE DIRECTOR

The theme of this meeting, *Chemistry & Water*, aligns well with the 6th Sustainable Development Goal (SDG)—“Clean Water and Sanitation”—and allows ACS to show how we can serve as a catalyst and a leader in bringing chemistry innovations to help solve the challenges facing our planet. As background, in 2015 the United Nations created a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030. This call to action has 17 aspirational goals known as the Sustainable Development Goals. The American Chemical Society, with more than 150,000 members in 140+ countries, has the ability to contribute both nationally and globally to the U.N. Sustainable Development Goals. ACS's mission—*advancing the broader chemistry enterprise and its practitioners for the benefit of Earth and its people*—is well aligned with these goals.

The ACS Meetings team is continuing to ensure the safety of our attendees and provide a harassment free meeting environment. ACS has added the ability for anonymous reporting of harassment; contact information will be provided via increased onsite signage, through the mobile app, and onsite staff support in designated ACS operations offices in multiple ACS assigned venues.

Additionally, we continue to provide increased offerings for industry attendees. ACS will launch the Entrepreneur Pitch Training and Competition in San Diego during the National Meeting and Expo. Selected teams will be on display in the new ACS Entrepreneur Pavilion during expo show hours Sunday through Tuesday. Team pitches will take place on the exhibit hall floor in the expo theater on Tuesday, August 27, and will be judged with monetary prizes being awarded at the conclusion of the competition.

In addition, an Essential Workplace Skills for STEM Industry Professionals workshop is being offered for the first time at this national meeting. A panel of four industry all-stars will present information on skills to sharpen four high-demand business communication and project management skills individuals need to get ahead in the first decade of their STEM industry careers. It will take place on Tuesday, August 27 from 9:00 – 4:00 p.m. at the Marriott Marquis San Diego Marina, Ballroom Salon B.

Finally, the ACS Meetings team is collaborating with the AGRO division in a pilot program for digital posters for the first time ever at this meeting, by offering AGRO students the opportunity to display their research in a new and innovative way. The AGRO division is also continuing to work closely with the ACS Meetings team to re-invent the Learning Theaters. All AGRO programming will take place at the San Diego Convention Center in one ballroom space with five theaters. In an effort of continuous improvement, we invite all attendees to participate in this alternative meeting room environment and provide feedback.

Please note we have addressed the issues that we experienced in Orlando with the theater-style venue for our presentations. Adjustments have been made to return to a similar approach that was taken in Boston, where attendees had a positive and successful experience.

I am delighted to report that membership continues to generate successful outcomes and our membership at the time of this writing was trending up and again over 150,000 members representing 99.35% of last year's closing count. While by no means certain in such a challenging environment for Associations, we continue to be confident that these successes will result in another year of ACS membership growth.

More important is that we have begun to take steps to ensure a better and more sustainable membership product in the near future. As we heard from you in the discussion at Council last Spring, flexibility in the programs, products, and services we offer and the speed at which we are able to move are both key to our success. We have begun concerted efforts to create new value for our membership and offerings are being piloted which we believe will add to a relevant and growing benefits portfolio. We have also begun

to inventory and roadmap our technologies that underpin membership to ensure we are able to sustainably change our business rules and initiatives to keep pace with the surrounding world. These improvements should produce a more valuable and frictionless membership experience which will improve our renewal rates and increase our new member joins.

In the same vein, I am aware of a governance-led initiative to amend how our membership and dues function, that will be discussed at the next few ACS National Meetings. If adopted, this measure will amplify our flexibility in addressing member needs. I am supportive of the general direction and intent of the petition.

ACS continues its collaborations with industry and is focusing on recruiting and retaining more industry members in 2019. Industry Member Programs (IMP) staff are launching multiple programs to provide new value to members in industry. In addition, staff is completing a chemical industry market analysis to provide the strategic blueprint to guide future activities. IMP re-launched its newsletter, *ACS Industry Matters*, which leverages the Society's access to industry executives and other leaders to provide our members with information, insights, and advice to advance their careers. Other initiatives include establishing a new LinkedIn group connecting four primary groups in the chemistry-connected entrepreneur space; piloting Korn Ferry Advance, online career tools at your fingertips; and re-branding the ACS Loyalty Reports, a quarterly publication designed and produced in conjunction with C&EN focusing on topics of particular interest to industry.

CAS continues to deliver increasing value for customers and strong performance. CAS recently launched a next-generation computer-aided retrosynthetic analysis tool capable of systematically identifying new pathways to chemical compounds. Now available to all SciFinder[®] users, this capability is empowering chemistry researchers around the world to rapidly identify and compare alternative synthetic pathways to speed up research, improve productivity, and get new products such as pharmaceuticals, agrichemicals, and performance chemicals to market faster. With SciFinder[®] adoption growing steadily, CAS is now prepared to accelerate SciFinder[®] access via a new "SciFinder Experience" strategy to ensure all customers have access to the best research and discovery solution available.

CAS is also progressing numerous Customer Experience (CX) initiatives, including implementation of CX best practices, metrics, organizational design and the plan to continue CAS's evolution to a customer centric organization. Best products and services, plus CX is a key part of our efforts to support our customers' ongoing success. The goal is for our customers to maximize their full value from their relationships with CAS.

The scholarly publications of the American Chemical Society (ACS) once again rank as the most cited and most impactful across their respective subject categories, as reported by the [2018 Journal Citation Reports](#) (JCR) from Clarivate Analytics' Web of Science Group that were released on June 20. The latest JCR rankings highlight the sustained quality, relevance and global prominence of the research published across the breadth of the Society's preeminent peer-reviewed journals.

The following indicators also demonstrate how ACS journals continued to be the most significant in chemistry during 2018:

- **Researchers:** Published 51,154 articles in ACS journals (up 11% annually)
- **Readers:** Downloaded ACS full-text articles more than 130 million times (up 27%)
- **Authors:** Cited ACS journal articles more than 3.4 million times (up 7%)

Taken together with the JCR rankings, these achievements emphasize the Society's influence and central role in publishing the highest-quality science on a broad scale, in close partnership with the global research community.

It is with mixed feeling that I inform Council of the pending retirement of Dr. Brian Crawford, President of ACS Publications. After 15-years of service, the last twelve of which were as President of ACS Publications, Brian's last day with the Society will be towards the end of the year. Under Brian's leadership ACS Publication's portfolio has grown from 36 journals to nearly 60, representing the ever-expanding horizons of our science. He managed this growth while enhancing our authoritative position. Brian's steady growth of ACS Publications underwrites/enables/makes possible many of the benefits we enjoy as members of ACS. While Brian and his contributions to the Society will be missed, we understand his desire to spend more time with his family and we wish him well in the next chapter of his life.

I have engaged a search committee comprised of auspicious members representing ACS, the publishing enterprise and other key stakeholders, and placed a full page ad in C&EN. As we all know, the traditional scientific publishing model is being challenged/going through a period of change. We have cast a wide net seeking new talent who can provide the vision, creativity and leadership needed to face the challenges that lay ahead. The committee has worked diligently to review and vet an impressive pool of candidates. I anticipate being able to announce our next President of ACS Publications in the coming months.

In another transition, I am pleased to inform you that we have hired the new Vice President of Development, Dr. Audrey Rogerson, who assumed the role back on June 3rd. She has 17 years' experience as a fundraiser and organizational strategist for nonprofits focused on scientific research and science education. Please welcome Audrey to the Society when you see her in San Diego.

In closing, the financial health of the Society remains strong, and we continue to invest in our infrastructure (IT, facilities, and organizational structure) to ensure long-term sustainability in providing valuable programs, products, and services that serve our members and benefit the chemistry enterprise.

Thomas M. Connelly, Jr.

DRAFT
MINUTES
COUNCIL POLICY COMMITTEE
AMERICAN CHEMICAL SOCIETY
Orlando, Florida
April 2, 2019

The Council Policy Committee (CPC) of the American Chemical Society met in Orlando, Florida, on April 2, 2019, beginning at 8:00 a.m. Chair Bonnie A. Charpentier presided. Other voting members present were: Harmon B. Abrahamson, Thomas M. Connelly, Jr., Ella Davis, Peter K. Dorhout, Lissa Dulany, Luis Echegoyen, Mark D. Frishberg, Lisa Houston, Will E. Lynch, Zaida Morales-Martinez, 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: V. Dean Adams, Kevin Edgar, Amber S. Hinkle, Brian M. Mathes, Jennifer B. Nielson, Carolyn Ribes, Jason E. Ritchie, Frank Romano, and James M. Takacs. 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 as amended the list of potential candidates, as presented by the Subcommittee on Nominations, for election to the Committee on Nominations and Elections for a 2020-2022 term.

Open Forum

Councilors from the local sections of North Jersey and the Chemical Society of Washington introduced themselves.

Approval of Minutes

2. VOTED that the Council Policy Committee approve the minutes of the August 21, 2018, meeting of the committee.

Report of Interim Action of the Council Policy Committee

3. CPC 3-2018. VOTED to elect Ms. Lisa Houston as Vice-Chair of the Council Policy Committee for 2019.

4. CPC 4-2018. VOTED to receive the final report of the Joint Board-Council Policy Committee Task Force on Governance Design with thanks and to endorse the distribution of the report to the appropriate committee for refinement and elaboration.

Reports of Committee Chairs and Society Officers

The Council Policy Committee divided into four subgroups to review the proposed oral reports to Council by officers and committee chairs. The subgroups met from 8:15 to 9:15 a.m.; Bonnie A. Charpentier, Peter K. Dorhout, Luis Echegoyen, and Lisa Houston served as chairs of the subgroups.

Upon reconvening at 9:15 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 3. 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; and the Joint

Board-Council Committees on Chemical Safety, International Activities, Science, and on Women Chemists; including reports on progress and recommendations resulting from their work during their sessions held in Orlando, Florida, 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 3, 2019 Council meeting. All references in these minutes to Council actions and reports relate to the April 3, 2019 meeting of the Council unless otherwise noted.

5. VOTED that the Council Policy Committee authorize the use of projected graphics as part of the reports to Council by the Committees on Budget and Finance, Education, Chemical Safety, Committees (ConC), Constitution and Bylaws, Economic and Professional Affairs, Local Section Activities, Membership Affairs, Meetings and Expositions, and International Activities.

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

7. VOTED that the Council Policy Committee authorize additional time for the reports to Council by the Immediate Past-President, Executive Director & CEO, and the Chairs of the Board of Directors and the Committee on Budget and Finance.

8. VOTED that the Council Policy Committee allow for supplemental materials or handouts to be placed on the resource table at the rear of the Council meeting room by the Chairs of the Board of Directors and the Committee on Local Section Activities.

9. VOTED that the Council Policy Committee concur with the Committee on Budget and Finance's recommendation to Council that the 2020 dues be set at the 2019 rate of \$175.

10. VOTED that the Council Policy Committee concur with the Committee on Committees that the Committee on Nomenclature, Terminology, and Symbols be continued, and that the Committee on Senior Chemists, subject to concurrence by the Board of Directors, as required, be continued.

11. VOTED that the Council Policy Committee concurs with the Committee on Membership Affairs that the market test of the international dues discount program based on the World Bank's country income levels be extended for an additional three years.

12. VOTED that the Council Policy Committee concur with the Committee on International Activities to approve the establishment of the Pakistan International Chemical Sciences Chapter, subject to concurrence by the Board of Directors.

Report of the Council Policy Committee Vice-Chair

Vice-Chair Lisa Houston reported that background material for a proposed Council Special Discussion topic was submitted and included in the Council agenda.

13. VOTED that the Council Policy Committee authorizes the ACS President to make a presentation to Council on "ACS Relevance to Current and Future Members: Challenges and Opportunities" including graphics; that the topic be introduced in a no more than five-minute presentation; that the discussion following the presentation be limited to thirty minutes, with no Councilor speaking for more than one minute, and with no Councilor speaking more than once; and that no motions be in order during consideration of this agenda item at the Council meeting.

Ms. Houston reported that the Long Range Planning Subcommittee hosted a well-attended and successful New Councilor Orientation; a new divisor was selected by the Councilor Divisor Task Force; the Working Group on Future Council Representation continues discussions on how to reimagine Council; and the Subcommittee on Petitions, Constitution and Bylaws provided their recommendations and proposed actions regarding the Petition to Streamline the ACS Governing Documents.

Reports of Subcommittees and Task Forces

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

Subcommittee chair Harmon B. Abrahamson began his report by recognizing the work of James C. Carver and V. Dean Adams for their time and effort on the Petition to Streamline the ACS Governing Documents.

14. VOTED that the Council Policy Committee, on recommendation of its Subcommittee on Petitions, Constitution and Bylaws, reaffirms its endorsement of the Petition to Streamline the ACS Governing Documents.

The subcommittee recommended that members of the Council Policy Committee be prepared to speak in favor of the petition from the floor of Council as a Councilor from their Local Section or Division, but not as a member of CPC.

Dr. Abrahamson recommended that CPC not invoke a rule against amendments from the floor, stating that he was aware that at least one amendment would be proposed.

B. Report of the Subcommittee on Long-Range Planning (LRP)

Subcommittee chair Lisa Houston began her report with the New Councilor Orientation. There were 86 attendees at the program, which included special presentations on the Role of Council, the Responsibilities and Benefits of Councilor Service, Elected Leadership Opportunities, Getting Involved with ACS Committees, and talks from Local Section and Division representatives on the “First Year: What I’ve Learned”.

There were 17 participants in the 2019 Mentorship Program for New Councilors. LRP discussed plans for assessing the program and reviewed a draft survey that will be conducted in September 2019, shortly after the ACS Fall National Meeting.

The subcommittee is planning to host a Strategy Café event for all Councilors at the ACS fall national meeting in San Diego. Discussions also continued on whether to resume hosting strategy cafés at the ACS Leadership Conference.

Ms. Houston concluded her report by stating that the 2012 edition of the *ACS Handbook for Councilors* was reviewed and there was consensus to prepare an updated version of the handbook that will be shared with the 2020 new Councilors.

C. Report of the CPC Working Group on Future Council Representation

Subcommittee chair Martin D. Rudd reported that the subcommittee held a vibrant discussion on the function that Council currently serves and what its function should be in the future. Ideas were brought forth on how to serve international members with Council representation, the best methods for allocating representation between Local Sections and technical Divisions, and how best to involve younger members into the national governance structure.

The Working Group will continue discussions via teleconference prior to the fall national meeting in San Diego to further explore opportunities to design a Council that best serves the Society in its advisory role to the Board of Directors.

D. Report of the CPC Task Force on Divisor Communications

Subcommittee chair Harmon B. Abrahamson reported that the CPC Task Force on Divisor Communications met via teleconference to review various potential divisors and discuss each one’s impact on Council, Local Sections, and Divisions. The task force voted to forward to CPC two scenarios.

15. VOTED that the Council Policy Committee set the Bylaw-required Divisor for Local Sections at 405, and set a Divisor for technical Divisions at 870 for 2020-2023.

Summary of Councilor Travel Expenses

Dr. Charpentier called attention to the summary of Councilor travel reimbursement for the fall 2018 national meeting, which was included in the committee's agenda.

Summary of Non-Councilor Travel Expenses

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

Schedule of Business Sessions

The following schedule of activities at the fall 2019 national meeting is the result of previous authorization by the Council Policy Committee:

Board of Directors:	Sunday, August 25
Council Policy Committee:	Tuesday, August 27
Council:	Wednesday, August 28

Society Committees: executive and open sessions shall 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's agenda contains any issue to be voted upon at the Council meeting.

Standing Committees of the Council: executive and open sessions shall 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's agenda contains any issue to be voted upon at the Council meeting.

Council Agenda

16. VOTED that the Council Policy Committee approve the Council agenda for the April 3, 2019 meeting of the Council.

CPC and Council 2019 Budgets

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

New Business

Dr. Carolyn Ribes, committee chair of ConC briefed CPC on the history, purpose, and use of the 2019 Committee Demographic Survey. Councilors were encouraged to complete the survey if they had not done so already.

Mr. David Smorodin, Assistant General Counsel, presented to CPC the "Society's Efforts to Prevent Sexual Harassment". This presentation is an effort to raise awareness of governance about sexual harassment and was delivered in various formats to the Board of Directors, multiple ACS committees, and staff.

There being no additional new business, the meeting was adjourned at 11:34 a.m.

Flint H. Lewis
Secretary

REPORT OF THE COMMITTEE ON COMMITTEES

During the meeting in Orlando, the Committee on Committees (ConC) gave presentations on the committee appointment process, as well as an update on the 2019 committee demographic survey to the 32 Council-related committees. ConC also voted to endorse the Petition to Streamline the ACS Governing Documents. ConC was pleased to host Committee Chairs during an interactive session to improve collaboration and communication between committees.

ConC participated in an orientation session that was held for new Councilors and Alternate Councilors to better acquaint them with the Council and its structure, and to encourage them to consider service through one of the Society's Council-related Committees.

Based on their performance reviews, ConC recommended to Council, and CPC concurred, that the Committee on Nomenclature, Terminology and Symbols be continued and that, subject to concurrence by the Board of Directors, the Committee on Senior Chemists be continued. Council approved these recommendations. The ACS Board of Directors approved the continuation of the Senior Chemists Committee at its meeting in June 2019

ConC also developed its recommendations for 2020 Chairs of the Council Standing and Other Committees for approval by the President-Elect in May 2019.

In San Diego, CA, the committee will receive reports and consider recommendations from its subcommittees on leadership development, committee systems and structure, and diversity. ConC will also receive updates on scheduled performance reviews for the Committees on Chemistry and Public Affairs; Community Activities; Environmental Improvement; Ethics; Minority Affairs; Patents and Related Matters, Science, and Technician Affairs; and will make a decision on the recommendation regarding the continuation of the Committee on Chemical Abstracts Service. ConC will seek Council approval in San Diego on a recommendation for the continuance of the Committees on International Activities and Professional Training. ConC will continue developing recommendations for all 2020 appointments to Council, Society, Other, and Joint Board-Council committees for consideration by the President-Elect and Chair of the Board of Directors.

Councilors and other interested members are invited to attend the committee's open meeting on Monday, August 26, 2019, in the Hilton San Diego Bayfront from 1:30-2:15 p.m., to offer their views on any topics on the agenda, or other matters of interest.

ConC will once again engage in a variety of recognition activities in San Diego: (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 28, 2019, ConC will recognize Councilors who will have served the statutory limit or have otherwise completed their service on committees at the end of 2019; and (3) Also at Council, ConC will recognize those Councilors observing significant anniversaries of years of service on Council.

Carolyn Ribes, Chair

Rodney M. Bennett
Mitchell R.M. Bruce
Dee Ann Casteel
D. Richard Cobb
Alan B. Cooper
Jacqueline Erickson
Luis Echegoyen
Emilio X. Esposito

Judith Iriarte-Gross
Martha G. Hollomon
Diane Krone
Jetty L. Duffy-Matzner
Donivan R. Porterfield
Robert A. Pribush
Susan M. Schelble
Stephanie Watson

Flint H. Lewis, Staff Liaison

RECOGNITION OF SERVICE
Council Meeting, August 28, 2019

1. The following members will have served the statutory limit or have otherwise completed their service at the end of 2019 on the ACS governance committee shown below:

V. Dean Adams	Constitution and Bylaws
T. Blake Vance	Constitution and Bylaws
Doris L. Zimmerman	Constitution and Bylaws
Mary Ann Meador	Divisional Activities
Dean C. Webster	Divisional Activities
Peter J. Bonk	Economic and Professional Affairs
Melissa B. Cichowicz	Economic and Professional Affairs
Jan E. Kolakowski	Economic and Professional Affairs
David M. Wallace	Economic and Professional Affairs
Charles E. Cannon	Local Section Activities
Barbara R. Hillery	Local Section Activities
Jason E. Ritchie	Local Section Activities
Elaine S. Yamaguchi	Local Section Activities
Arindam Bose	Meetings and Expositions
Kevin J. Edgar	Meetings and Expositions
Warren D. Hull, Jr.	Meetings and Expositions
Joseph P. Stoner	Budget and Finance
Simon G. Bott	Education
Michael P. Filosa	Chemical Abstracts Service
Charles F. Huber	Chemical Abstracts Service
Edward M. Movitz	Chemical Safety
Raymond E. Forslund	Chemistry and Public Affairs
Janan M. Hayes	Chemistry and Public Affairs
Russell W. Johnson	Chemistry and Public Affairs
Missy A. Postlewaite (8 years)	Chemists with Disabilities
Sanda P. Sun	Community Activities
Madan M. Bhasin	International Activities
Venera Jouraeva	International Activities
Kimberly M. Jackson	Minority Affairs
William G. Gutheil	Patents and Related Matters
David H. Jaffer	Patents and Related Matters
Laura L. Kosbar	Professional Training
Stephanie Brock (8 years)	Publications
Nicole S. Sampson	Publications
Gail H. Webster	Women Chemists
Matthew Grandbois	Younger Chemists
Dee Ann Casteel	Committees
Harmon B. Abrahamson	Council Policy
Andrea B. Twiss-Brooks	Council Policy
Lisa M. Balbes	Nominations and Elections

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

V. Dean Adams	Constitution and Bylaws
Jason E. Ritchie	Local Section Activities
Joseph A. Heppert	Budget and Finance
Kevin J. Edgar	Meetings and Expositions
Tom Tyner	Analytical Reagents
Raymond E. Forslund	Chemistry and Public Affairs
Matthew Grandbois	Younger Chemists

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

Fifteen (15) Years

Spiro Alexandratos	Industrial & Engineering Chemistry	(2005-2019)
Mark Benvenuto	Detroit	(2008-2019, 2001-2003)
James C. Carver	Chemistry & The Law	(2005-2019)
Linda Farber	Western Connecticut	(2010-2019, 2007-2008, 2003-2005)
Mark D. Frishberg	California	(2015-2019, 2007-2011)
	Rochester	(1991-1995)
Danny E. Hubbard	Ouachita Valley	(2005-2019)
Rabin D. Lai	Orange County	(2005-2019)
Thomas H. Lane	Ex Officio	(2008-2019)
	Midland	(2005-2007)
Frank Romano	New York	(2005-2019)
Susan M. Schelble	Colorado	(2005-2019)
Laura S. Sremaniak	North Carolina	(2005-2019)
Steven Trohalaki	Dayton	(2005-2019)
T. Blake Vance, Jr.	Hawaii	(2008-2019, 2002-2004)
Laura M. Wolf	Memphis	(2005-2019)
Doris L. Zimmerman	Penn-Ohio Border	(2005-2019)

Twenty (20) Years

Harmon Abrahamson	Red River Valley	(2000-2019)
Alan Hazari	East Tennessee	(2000-2019)
Elsa Reichmanis	Ex Officio	(2002-2019)
	Polymeric Materials: Science & Engineering	(2000-2001)
Linda D. Schultz	Dallas-Fort Worth	(2009-2019, 1997-2002, 1985-1987)
Khamis S. Siam	MO-KAN-OK, The Tri-State	(2000-2019)
Julianne M.D. Smist	Connecticut Valley	(2000-2019)
Ean M. Warren	Silicon Valley	(2000-2019)

Twenty (25) Years

Satinder (Sut) Ahuja	Eastern North Carolina	(2006-2019)
	New York	(1995-1997, 1991-1992, 1981-1983, 1976-1978)
Arindam Bose	Biochemical Technology	(1995-2019)
Alan B. Cooper	North Jersey	(1995-2019)
Sally B. Peters	Silicon Valley (formerly Santa Clara Valley)	(1995-2019)
Dorothy J. Phillips	Ex Officio	(2014-2019)
	Northeastern	(1995-2013)
Eleanor D. Siebert	Southern California	(1995-2019)
Maurice E. Snook	Northeast Georgia	(2019, 1986-2009)

Thirty (30) Years

Joseph Antonucci	Chemical Society of Washington	(1990-2019)
Mitchell R.M. Bruce	Maine	(1990-2019)
George H. Fisher	South Florida	(2008-2019, 1992-2000)
	Florida	(1983-1991)
S. Allen Heining	Ex Officio	(1990-2019)
Barbara A. Sawrey	Ex Officio	(2012-2019)
	San Diego	(1990-2011)
Elaine S. Yamaguchi	California	(1990-2019)

REPORT OF THE COMMITTEE ON NOMINATIONS AND ELECTIONS

During its spring meeting in Orlando, 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 2020-2022. Information about the candidates and the elections appears under Item III of this agenda book. At the fall Council meeting in San Diego, N&E will announce the names of the candidates for the three Elected Committees of Council, and their photos will be shown on screen to assist Councilors with name recognition prior to voting.

N&E is responsible for reviewing annually the distribution of member population within the six electoral Districts, as defined by the official membership count, to assure that the Districts have equitable voting representation, according to Bylaw V, Sec. 4 a. N&E was informed during its March meeting in Orlando that based on the official local section member count as of December 31, 2018, District III is out of compliance because it is under the permissible range minimum. The membership totals for January – March 2019, were also presented, which indicated District III was moving further out of compliance (by nearly 170 members). A working group was formed to offer a recommendation to bring District III back into compliance before January 1, 2020. Based on the report of the working group, the committee voted to recommend to Council that the Pittsburgh Local Section (year-end member total: 1696) be transferred from District II to District III. Under this recommendation, District III would be within the permissible range.

On Sunday afternoon, August 25, N&E will present a moderated question and answer session that features candidates running for Director-at-Large 2020-2022. This Town Hall Meeting is designed to facilitate communication among candidates, Councilors and members. Questions can be submitted before the meeting by sending them to nonelect@acs.org. The forum begins at 4:30 p.m. in the San Diego Hilton Bayfront Hotel in Sapphire Ballroom C/D, and will end at 5:30 p.m. so that members can attend Caucuses or other scheduled meetings. On Monday, August 26, 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 San Diego Convention Center in Exhibit Halls D&E.

While in executive session, the committee will receive reports or updates from its subcommittees. The committee will develop slates of potential candidates for President-Elect, 2021; Directors-at-Large, 2021-2023; and Directors, Districts III and VI, 2021-2023.

N&E welcomes suggestions from Councilors of names of qualified members as potential candidates for all elected ACS offices. We will have a staffed N&E table at the rear of the Council meeting room, as well as an open meeting on Monday, August 25, from 11:30 a.m. to 12:00 noon, to receive your suggestions or hear your concerns. As an alternative means of communication with N&E, please visit the ACS Web Site at <http://www.acs.org/>; under “Governance” click on “Committees” and then select “Nominations & Elections”, or send an email to us at nonelect@acs.org.

Amber S. Hinkle, Chair

Allison Aldridge
Michael Appell
Christopher J. Bannochie
Lisa M. Balbes
Alan M. Ehrlich

Mary K. Engelman
Alan A. Hazari
Neil D. Jespersen
Thomas H. Lane
Mamie W. Moy

Silvia Ronco
Eleanor D. Siebert
Julianne Smist
Frankie K. Wood-Black

Flint H. Lewis, Staff Liaison

Proposal to Transfer Pittsburgh Local Section from District II to District III

The Committee on Nominations and Elections (N&E) is responsible for reviewing annually the distribution of member population within the six electoral districts to assure that the districts have equitable representation. According to Bylaw V, Section 4 a, the member populations of each district must be within ten percent of the result of dividing by six the number of members whose addresses lie within these districts.

Based on the official local section member count as of December 31, 2018, the district totals are as follows:

District I	--	19,749
District II	--	21,264
District III	--	18,187
District IV	--	21,730
District V	--	20,125
District VI	--	20,631
TOTAL		<u>121,686</u>
Average	--	20,281

Permissible Range (+/- 10% average) -- 18,253 to 22,309

During its meeting in March 2019 (Orlando), N&E learned from year-end 2018 membership figures that as of December 31, 2018 the total membership in District III was below the permissible minimum. The membership totals for January – March 2019, were also presented, which indicated District III was moving further out of compliance (by nearly 170 members). In such cases, ACS Bylaws mandate that N&E recommend to Council a redefinition of District boundaries to bring the District III member population back into compliance with the Bylaw provision regarding population.

ACTION Requested

The Committee on Nominations and Elections concurs with the recommendation (below) of the working group formed to review the issue: that the Pittsburgh Local Section be moved from District II to District III. N&E recommends Council adoption of the proposed realignment. This shift would meet the specified criteria for redistricting and it would bring the district within permissible range.

Working Group Recommendation:

In the process of considering the best path forward, the task force considered multiple options, looking at such key factors as:

- Present membership levels within the Districts
- Geographical locations of the Local Sections
- Already established relationships between Local Sections
- Potential membership levels within the Districts
- Local Section influence within each District
- Affecting as few local sections as possible to be in compliance.

In its final analysis, the working group recommends that the Pittsburgh Local Section (1696 as of 12-31-2018) be transferred from District II to District III. District II membership, after such a transfer, would equal 19,568 (as of 12-31-2018). District III membership, after such a transfer, would equal 19,883 (as of 12-31-2018). Under this recommendation, Districts II and III would be within the newly established permissible range for equitable representation.

REPORT OF THE COMMITTEE ON BUDGET AND FINANCE

The Society Committee on Budget and Finance (B&F) met on Saturday, March 30, 2019, to review the Society's 2018 financial performance. The Society ended 2018 with a net contribution from operations of \$41.1 million, on revenues of \$571.6 million and expenses of \$530.5 million. This was \$10.6 million favorable to the 2018 Approved Budget. After including the results of the Member Insurance Program, the Society's overall net contribution for 2018 was \$38.4 million, which was \$10.0 million favorable to the Approved Budget. In addition, the Society ended the year in compliance with all of the five Board-established financial guidelines. The Society's overall financial position improved in 2018 with unrestricted net assets increasing from \$284.4 million at December 31, 2017, to \$292.2 million at December 31, 2018. The year-end balance includes the aforementioned \$41.1 million net from operations, a distribution from the Member Insurance Trust of \$750,000, \$65,000 in proceeds from the dissolution of HDS, investment losses of \$25.2 million and an increase related to the Society's underfunded postretirement benefit liability of \$9.5 million.

In other actions, the committee elected Dr. Bryan Balazs as Vice Chair and voted to recommend to Council that the dues for 2020 remain at the current dues rate of \$175.00 versus the fully escalated rate of \$180.00. In addition, the committee received reports from the Subcommittees on Communications, Program Review, Program Funding Requests, and Financial Impacts of Constitution & Bylaw Amendments. The Subcommittees on Program Review and Program Funding Requests provided updates on the schedules and processes for their 2019 activities. The Subcommittee on Financial Impacts of Constitution & Bylaw Amendments reported on the financial impact of the one bylaw petition up for action at Council. The committee received a report on the actual 2019 expenses for the Society's postretirement benefit plans as compared to the expenses included in the 2019 Approved Budget. Lastly, the committee received strategic updates from the Presidents of the Publications Division and Chemical Abstracts as well as the Executive Vice President of the Membership & Society Services Division.

Joseph Heppert, Chair

Bryan Balazs
Christina C. Bodurow
Peter K. Dorhout
Carol A. Duane
Kathleen Gibboney
William J. Greenlee
Tiffany N. Hoerter
Rigoberto Hernandez
Paul W. Jagodzinski

Bonnie Lawlor
Willem R. Leenstra
Richard Lomneth
Kristin M. Omberg
Diane G. Schmidt
Janet M. Smith
Joseph P. Stoner
Marinda Li Wu

Associates

Richard S. Danchik
Dana Ferraris
Natalie A. LaFranzo
Angela K. Wilson

Staff Liaison: Al Horvath

REPORT OF THE COMMITTEE ON EDUCATION

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

Primary and secondary education

The team selected to represent the US at the [51st International Chemistry Olympiad](#) in Paris, France from July 21-30 consists of:

- Edward Jin, Arnold O. Beckman High School, CA, Orange County Local Section
- Albert Liu, North Hollywood High School, CA, Southern California Local Section
- Anton Ni, University High School, CA, Orange County Local Section
- Yajvan Ravan, Churchill High School, MI, Detroit Local Section

First and second alternates are Allen Ding (Stevenson High School, IL, Chicago Local Section) and Yannik Singh (Carmel High School, IN, Indiana Local Section). The team was selected from nearly 16,000 high school students who took the initial multiple-choice exam, the top 1,000 who advanced to take the National Chemistry Olympiad test, and the top 20 who went on to the study camp held at the University of Maryland, College Park. More information can be found in the [article in the June 14 issue of C&EN](#), and updates can be obtained via social media with #USNCO.

The American Association of Chemistry Teachers (AACT) continues to grow with over 6,100 members, 89% of whom are K-12 teachers of chemistry. Of these, over 300 are student members, and over 250 are international members. The general resource library has nearly 750 lesson plans, labs, and demos.

Post-secondary education

Six university departments have been selected as partners in the [ACS Bridge Program](#), an initiative that seeks to increase the number of graduate students from underrepresented groups in the chemical sciences. Two inaugural ACS Bridge Sites will offer masters or post-baccalaureate programs that support students on their way to a PhD in the chemical sciences:

- Georgia Tech School of Chemical & Biomolecular Engineering
- University of Wisconsin-Madison Department of Chemistry

Four ACS Bridge Partnership Departments will also enroll students who have submitted their graduate school applications to the ACS Bridge Program, providing a supportive, bridge-like environment for students from underrepresented groups:

- Indiana University, Department of Chemistry
- The Ohio State University Department of Chemistry and Biochemistry
- University of Arkansas, Department of Chemical Engineering
- University of Massachusetts at Amherst, Department of Chemistry

At the end of May 2019, there were 18,831 ACS student members, compared to 18,694 at the end of May 2018. There are currently 408 active domestic student chapters (out of 1,138). There are also now 66 international student chapters in 25 countries, surpassing the 2019 goal of 65 chapters. National Meeting Travel Grants were awarded to 14 international student chapters for the ACS Fall 2019 National Meeting in San Diego, CA.

In the first half of 2019, International Student Chapter Activity Grants were awarded to 11 student chapters. Grants awarded during this first 2019 funding cycle have supported projects ranging from a speaker series focused on chemistry-related startups to software training workshops, research symposia, industry visits in collaboration with fellow ACS student chapters, research presentation opportunities, and a lab safety seminar.

Twenty-two SCI Scholars were selected from 137 applicants for ten-week paid industrial summer internships at one of 13 participating SCI companies. These undergraduate sophomores and juniors, who are majoring in chemistry or chemical engineering and have a minimum GPA of 3.5, also receive \$1,000 for professional development and a certificate. Twenty SCI Scholars identified an influential high school chemistry teacher, each of whom will be recognized and receive a \$1,000 grant for their school.

The ACS Fall 2019 National Meeting Highlights

At the ACS Fall 2019 National Meeting in San Diego, events for students and educators will include the [Chemistry Teachers Day Program](#) (Sunday, August 25). Councilors and national meeting attendees are encouraged to attend the Undergraduate Research Poster Session and the Graduate and Postdoctoral Reception (both on Monday, August 26), along with other sessions focused on undergraduate and graduate students. The [ACS Catalyzing Career Networking program](#) will continue connecting job seekers with potential employers.

Through these and other activities, SOCED is fulfilling its mission to develop and implement policies and resources to advance chemistry education and to connect its diverse communities.

Jennifer B. Nielson, Chair

Jesse D. Bernstein
Sandra J. Bonetti
Simon G. Bott
Milagros Delgado
Jeremy Garritano

Carmen V. Gauthier
Tracy A. Halmi
Pamela K. Kerrigan
Matthew J. Mio
Joshua J. Pak
Jennifer B. Nielson

Samuel Pazicni
Sarah S. Preston
Susan M. Shih
Kristine S. Smetana
Ellen J. Yeziarski

Associates

Michael R. Adams
Roxie Allen
Meledath Govindan
Teri Quinn Gray

Judy Kim
Daniel King
Amy Nicely

Mary Kay Orgill
Laura Pence
Danae R. Quirk Dorr
Mary C. Roslonowski

Consultants

Michelle A. Boucher
Irvin J. Levy
Norbert J. Pienta

Staff Liaison: LaTrease Garrison

REPORT OF THE COMMITTEE ON SCIENCE

This report updates the Council on ComSci's activities since the ACS National Meeting in Orlando.

ComSci is organizing a symposium on "Water for Two Worlds" at the upcoming San Diego National Meeting. The day-long symposium will be held on Tuesday, August 27 and is being organized in collaboration with the ACS journal *Accounts of Chemical Research*, which published in May a special issue on this topic, focusing on both urban and rural communities. The subject of the symposium aligns with the National Meeting theme of "Chemistry of Water" and is co-sponsored by Multidisciplinary Program Planning Group.

ComSci members provided feedback to the Committee on Environmental Improvement (CEI) on a draft climate policy statement. ComSci and CEI are forming a writing team to develop a new ACS policy statement on critical materials. Critical materials, such as rare earth metals and helium, are of growing concern to policymakers, and an ACS policy statement will help inform lawmakers as they work on solutions to shortages and supply chain uncertainties.

On behalf of ACS, ComSci submitted nominations for the National Medal of Technology and Innovation and the Dreyfus Prize.

Martin G. Kociolek, Chair

Rudy M. Baum
Steven M. Bonser
Matthew A. Fisher
Diana Gerbi
Brian R. Gibney
Emily R. Grumbling

Robin J. Hood
Adam C. Myers
Janet E. Nelson
Brian J. Walker
Ralph A. Wheeler
Lewis Whitehead

Associates

Jane V. Aldrich
Mary K. Carroll
Katharine J. Covert
Marilyn Duerst

Navneet Goyal
James D. Kubicki
Carl Picconatto

Division Representatives

Maria-Jesus Blanco
Anne M. Gaffney
Young-Shin Jun
Mary Beth C. Koza
Michael J. Morello

Staff Liaison: Mary M. Kirchhoff

REPORT OF THE COMMITTEE ON ECONOMIC AND PROFESSIONAL AFFAIRS

The Committee on Economic and Professional Affairs (CEPA) continues to evaluate and implement the portfolio of career related programs, products, and services to ensure balance and alignment with members' needs. CEPA continues to monitor and evaluate the current state of employment for ACS members sharing this data at ACS local, regional and national levels.

Acting on the strategic plan established in 2017, CEPA has continued to focus on identifying, supporting, delivering, and evaluating, relevant programs; improving, updating, developing, curating and disseminating relevant policies and codes of conduct; and recommending, developing and evaluating critical resources and services to support members.

The updated Chemical Professional's Code of Conduct will be put before Council for action, after updates were approved by the committee at the Spring 2019 meeting in Orlando. CEPA is currently revising a working draft of the Professional Employment Guidelines which was last updated in 2014.

In the ongoing effort to expand virtual career services allowing members to have 24/7 access to programs, products and services, CEPA is piloting *Korn Ferry Advance* which allows ACS the opportunity to offer career services using modern technology at a time convenient for the member. The Korn Ferry Advance applications include a virtual resume parser, mock interviewing using a smartphone as well as virtual career consulting/live chatting. More information about Korn Ferry Advance can be found at <https://www.kfadvance.com>. CEPA will discuss the results of the two-year ACS Career Day Pilot to determine strategy in executing career advancement events at a local level, engaging current members and recruiting new ones.

CEPA has reimagined the National Meeting Career Fair by re-branding it to *Career Navigator Live!* Career Navigator Live will be an all-encompassing event that offers services for members at all career levels. New services include: guided meditation, retirement open chats with a career expert, interactive networking and a broader selection of career focused lightning talks. More information about Career Navigator Live! Can be found at www.acs.org/careers

In order to monitor services effectiveness and understand members needs, CEPA will continue to evaluate performance of career consultants and careers services offerings. Career consultants will also take part in a strategy meeting on Sunday August 25th to map out goals for 2020 and beyond. Additionally, CEPA will host a career consultant recruitment mixer that evening from 5:30 to 7:30 p.m. in the expo hall offering light refreshments and informative chats with existing consultants.

The comprehensive survey was relaunched in April of 2019 and is generating salary and employment data which CEPA will review in San Diego. We had over 7,000 responses resulting in a response rate of 7 to 8% which is encouraging for a relaunch. CEPA continues to evaluate ways to increase participation in member surveys.

Layoffs continue to be a priority for CEPA. They continue to work 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. Any Councilors or Section Officers that know of a layoff in their geography should contact careers@acs.org to discuss response options.

Frank Romano, Chair

Allen N. Jones
Anthony Serianni
David M. Wallace
Edmund T. King
Ellene T. Contis
Eric A. Bruton

Gregory M. Ferrence
James M. Landis
Jan E. Kolakowski
Lawrence W. Dennis
Melissa Cichowicz
Penny Beuning

Peter Bonk
Rabin D. Lai
Richard J. Mullins
Virginia H. Songstad

Associates

Alan J. Anderson
Christine McInnis
Margaret J. Schooler
Mary E. Dery
Matthew J. Greaney
Michelle V. Buchanan
Robbie Montgomery
Ruth E. Tanner

Staff Liaison: Kimberly Browne

The Chemical Professional's Code of Conduct

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

~~"The Chemist's Creed," was approved by the ACS Council in 1965. The principles of The Chemist's Code of Conduct were prepared by the Council Committee on Professional Relations, approved by the Council (March 16, 1994), and replaced "The Chemist's Creed". They were adopted by the Board of Directors (June 3, 1994) for the guidance of Society members in various professional dealings, especially those involving conflicts of interest. The Chemist's Code of Conduct was updated and replaced by The Chemical Professional's Code of Conduct to better reflect the changing times and current trends of the Society in 2007. A previous revision was approved by Council on March 28, 2012 and adopted by the Board of Directors on June 1, 2012. The current revision was approved by Council on August 24, 2016 and adopted by the Board of Directors on December 2, 2016.~~

Chemical Professionals Acknowledge Their Responsibilities

To the Public

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

To the Science of Chemistry

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

To the Profession

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

To Their Employer

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

To Their Employees or Subordinates

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

To Students

Chemical professionals should regard the tutelage of students as a trust conferred by society. They should promote professional development, learning, and safety, and treat each student fairly, respectfully, and without exploitation.

To Colleagues

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

To Their Clients

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

To the Environment

Chemical professionals should strive to do their work in ways that are safe for the environment. They have a responsibility to understand the total impact of their work, to recognize the constraints of limited resources, and to develop sustainable products and processes that protect the health, safety, and prosperity of future generations.

To Temporary Employees

Chemical professionals should establish clear job descriptions, scope of work, terms of contract, and appropriate compensation prior to start of work by contractors, interns, or consultants. They are also responsible for communicating safety concerns and providing necessary training associated with expected work. For more information about the Department of Career and Professional Advancement, please see our Contacts List.

Chemical professionals should seek to advance chemical science while striving for the highest standards of scientific integrity. This includes sharing ideas and information, keeping accurate and complete records, and giving due credit to the contributions of others. Undisclosed conflicts of interest and scientific misconduct, including fabrication, falsification, and plagiarism, are incompatible with this code.

Chemical professionals should be aware of laws and regulations related to the professional conduct of science to ensure that their profession is practiced safely and appropriately.

Chemical professionals should be actively concerned with the health and safety of co-workers, consumers, and the community. Professionals have a responsibility to serve the public interest and to further advance scientific knowledge. This includes ensuring that public comments are made with care and accuracy to avoid unsubstantiated, exaggerated, or premature statements.

Chemical professionals should treat others with respect and will not engage in discrimination, harassment, bullying, dishonesty, fraud, misrepresentation, coercive manipulation, censorship, or other misconduct. Such actions apply to all professional, research, and learning environments, regardless of whether or not the action alters the content, veracity, or meaning of research findings, and regardless of whether or not the action affects the planning, conduct, reporting, or application of science.

Chemical professionals should take responsibility to act or intercede where possible to prevent misconduct. This includes reporting suspected research misconduct, as well as any discrimination, harassment, bullying, dishonesty, fraud, misrepresentation, coercive manipulation, or censorship.

Chemical professionals should be mindful of Implicit Bias and Unconscious Bias and strive to avoid all bias based on race, gender, age, religion, ethnicity, nationality, sexual orientation, gender expression, gender identity, presence of disabilities, educational background, or other personal attributes.

Chemical professionals should strive to do their work in ways that are safe and sustainable for the environment. This includes continuing to work to develop sustainable products and processes that protect the health, safety, and prosperity of future generations.

Chemical professionals should serve clients faithfully and incorruptibly, respect confidentiality, advise honestly, and charge fairly. Additionally, they should promote and protect the legitimate interests of their employers, comply with safety policies and procedures, fulfill obligations, and safeguard proprietary and confidential business information.

Chemical professionals should strive for continual professional growth both personally and more broadly in the tutelage of others as a trust conferred by society. Professionals have a responsibility to understand limitations of their knowledge, remain current with developments in their field, learn with and encourage others.

History:

“The Chemist’s Creed”

Approved by the Council in 1965

“The Chemist’s Code of Conduct”

Approved by the Council March 16, 1994
Adopted by the Board of Directors June 3, 1994
"The Chemical Professional's Code of Conduct"
Approved by the Council March 28, 2007
Adopted by the Board of Directors June 2, 2007
"The Chemical Professional's Code of Conduct"
Approved by the Council March 28, 2012
Adopted by the Board of Directors June 1, 2012
"The Chemical Professional's Code of Conduct"
Approved by the Council August 24, 2016
Adopted by the Board of Directors December 2, 2016

REPORT OF THE COMMITTEE ON MEMBERSHIP AFFAIRS

As of the week of June 17, ACS had 150,023 members, which is 99.35% of last year's close and provides us an encouraging position to finish with a second consecutive year of membership growth. However, as with last year, a significant portion of the renewals and joins this year have been incentivized through various market testing initiatives chartered by the ACS Committee on Membership Affairs (MAC). We have been using these initiatives to determine additional information about the needs of the membership so that we can increase the value proposition and relevance of ACS provided to our membership.

The members of MAC keenly listened to the Council Special Discussions in Orlando around membership and its value. To paraphrase the discussion, a key tenet was providing greater flexibility in our membership to address what we have begun to term "the membership value gap". This discussion reinforced the information that we have been receiving from those participating in our market test initiatives, discussions with our constituencies, and surveys of our membership. While membership does have tremendous value, and every year 83% of our members chose to renew, the gap between what we are requiring from members in their dues and the perceived value of the benefits we provide are widening. The overwhelming reason that 17% of our members choose not to renew, and the millions of addressable chemists that interact with ACS on an annual basis choose not to join, comes down to not offering enough value for what we provide.

To address this we have begun discussing our actions on two fronts. First, we have begun to examine how the dues, at their current level, factor into members' decisions. As we saw last year when we reported growth, changes to the dues can provide an important factor in incentivizing behaviors while providing key data that can be used to make future decisions. Of course, this is not a sustainable exercise in that only small numbers of membership can be impacted and the expended effort is usually great. Greater flexibility will be needed in the future and the Committee is addressing this as will be described in more detail below.

Second, we are committed to encouraging additional value for members by creating new enhanced and exclusive offerings for members. This is a task that the entire Society has a role to play and we encourage all of our peers to consider how you can add member value to the program, products, and services that you and your committees oversee. The creation of member enhanced, exclusive, and first offerings is sustainable and creates a better ACS with a higher renewal rate and increased new member joins.

In regards to value creation we recognize that local sections and divisions have an important role to play in maintaining a vital membership. To the end, MAC is working with the Committees on Local Section Activities, Division Activities, and Budget & Finance to determine how we can best assist our components in creating local and sustainable value on behalf of the membership. As many of you may be aware, the total amount of dues collected and the average per member dues has been declining recently in both current and constant dollars. Divisions and local sections are therefore having to maintain the same service quality with less resources and that is concerning. This is a critical issue that must be addressed and we expect to be able to provide to this Council for its consideration a targeted solution at the Spring 2020 meeting. This solution will ensure that the available pool of funds remains steady and that our constituents will continue to receive the same level of quality engagement that they have come to expect. Should we not act on this we are concerned that a negative feedback loop will continue where the resources components receive will continue to be constrained, further eroding the value of membership, leading to a further reduction of the dues pool, and on and on.

Additionally, many members of MAC, B&F, and various Society leaders have worked together to examine and propose a petition on dues and membership that is included in this agenda book. We believe that such revisions to our governing documents will allow us to both address the question of membership pricing and value at the same time by enabling greater flexibility in how this governance body sets the Society's dues and also how it incorporates membership benefits in our various membership types. Following the success of the

streamline petition that was passed overwhelmingly by this Council at the Spring meeting, we hope that the petition on membership and dues will allow us to respond more quickly to changing externalities and provide flexibility that Council currently does not possess. It is important to note that petition does not change anything about the current state ACS and all future changes that may be proposed will require full approval of this body before coming into effect. However, it does create a mechanism and pathway for membership dues and benefits changes to be more rapidly brought to Council for discussion and action.

In light of the repeated calls by the membership and ourselves to add more flexible value to our membership, both of these changes—the shoring up of the section and division allocations and the petition on membership and dues—seem critical to enact to ensure an engaged and growing ACS membership in the future.

Brian Mathes, Chair

Mary Anderson
James Carver
David Conlon
Joan Esson
Thomas Gilbert
Bernadette Hernandez-Sanchez
Alison Hyslop

Julie Jessop
Michael Knapp
Sarah Leibowitz
Laura Sremaniak
Ann Sullivan
James Wollack

Associates

Alan Cooper
David Gottfried
J. Kenneth Poggenburg, Jr.
Justin Russak
Rebecca Shircliff
Darlene Slattery

Consultant

Ronald Hunter, Jr.

Staff Liaison: Steven Meyers

REPORT OF THE COMMITTEE ON MEETINGS AND EXPOSITIONS

The official attendance at the 2019 Spring National Meeting and Expo in Orlando, FL, totaled 15,754. Scientific contributions totaled 12,830, with 8,183 oral and 4,647 poster presentations, and 140 concurrent technical sessions on the peak day, Monday.

The Exposition was filled with energy and positive signs. Staff sold more than 95% of the hall with 236 participating companies occupying 369 booths. Expansion of the Career Fair continued with increased resume review area, live presentations, and 20-30 minute lightening talks. The exhibit floor also included a new Industry Pavilion that provided additional networking opportunities for exhibitors and industry attendees.

The Committee on Meetings and Expositions (M&E) continued to grow its sustainability plan. The committee was deliberate in efforts to guide and encourage attendees to access the meeting program using both electronic sources, the mobile app and online planner. The mobile app was downloaded more than 11,000 times and the online planner for Orlando was accessed more than 160,000 times.

The success of ongoing meeting cost reduction efforts, including concentration of the program in the convention center, has allowed M&E to recommend to not enact the final \$15 registration escalator. M&E recommended that the Early Member Registration Fee for the 2020 national meetings be set at \$505.

The M&E Technical Program subcommittee is focusing on setting later deadlines, after the spring meeting concludes, for meeting abstract submissions, by enacting early room assignments for the fall 2020 meeting. Discussions are being planned with divisions and program chairs to help plan a new process together.

The Exposition and Industry subcommittee continues to work on the M&E strategic goal of increasing industrial participation in the Exposition. Over 40 different industry-recommended programs and events were identified in Orlando, many of which took place on the show floor in the theaters, the ACS booth, and in the Career Fair area.

More than 4,400 attendees participated in nine regional meetings in 2018. The Regional Meeting subcommittee and ACS staff will continue to create and implement resources to support local section volunteers, who create the regional meetings. The Regional Meeting Planning Conference once again took place in conjunction with the Leadership Institute, held this past January in Atlanta.

The Department of Meetings & Exposition Services has continued to expand additional meeting logistic support offerings through the Specialty Meetings Department. Recent work has been done on meetings focused on many different specialty areas including green chemistry, international partnership development with other chemistry societies, leadership development, and chemistry education. To date in 2019 the specialty meetings have supported 1,000 attendees.

Kevin J. Edgar, Chair

Christine M. Aikens
Arindam Bose
Matthew K. Chan
Roger A. Egolf
Rick Ewing
Gregory P. Foy

Warren Hull
Silvia S. Jurisson
Kevin R. Kittilstved
Dale J. LeCaptain
R. Daniel Libby
Martin D. Perry, Jr.

D. Paul Rillema
Michael Singer
Barry J. Streusand
Frank J. Torre
Jeanette M. Van Emon

Associates

James E. Duddey
Merle I. Eiss
Christian R. Goldsmith

Margaret S. Levenberg
Robert E. Sammelson
Marilyn J. Sikes

Stephen G. Tadj
Kathryn E. Uhrich
Scott A. Wildman

Staff Liaison: Robin R. Preston

REPORT OF THE COMMITTEE ON DIVISIONAL ACTIVITIES

At the Council meeting in Orlando, Committee on Divisional Activities (DAC) reported that it wants to enhance collaborative programming between divisions on emerging topic areas. It is continuing to develop a concept - Convergence Research Communities (CRC) - to achieve this goal. The committee shared the idea with division officers and councilors in July and will review comments at the San Diego meeting.

In September 2018, a survey designed to identify key challenges related to collaboration, engagement, and the recruitment and retention of division membership was developed by the ACS Technical Divisions Office and sent to division leaders. The Committee reviewed the results of that survey and staff are contacting individual divisions for follow up discussions.

DAC once again hosted a breakfast meeting for Program Chairs on Monday of the Fall meeting. The purpose is to provide a venue for the program chairs to collaborate on programming, and discuss programming needs and aspirations.

DAC is working with staff to develop some novel approaches to persuade a higher percentage of new ACS members to join divisions. Since March 2018, new members have been given the option to join up to three divisions at no cost for the first year. Preliminary data indicate that many are taking advantage of this new offer. There were 13,331 free divisional memberships activated in 2018 compared to 6,787 in 2017. Enhanced efforts and new strategies are being sought. Starting in April 2019, individuals can join divisions outside the join/renewal cycle using a new mobile-friendly online form. This will aid divisions in recruitment through their websites and at live events.

The committee continues its initiative called "Division Row", placing divisional posters in a well-trafficked area of Sci-Mix. The objective is to provide divisions with more exposure to national meeting attendees - particularly, those younger chemists in attendance whom divisions are eager to engage. Fifteen divisions participated in Orlando.

The committee wishes to acknowledge the efforts of the divisions and the Multidisciplinary Program Planning Group in organizing and delivering a wide range of excellent programming in support of the San Diego theme: "*Chemistry and Water*".

James M. Takacs, Chair

Janet L. Bryant
Huw M.L. Davies
Alan W. Elzerman
John W. Finley
Jennifer A. Hollingsworth
John M. Long

Marge A. Matthews
Mary Ann Meador
Sheila M. Murphy
Mary Virginia Orna
Graham F. Peaslee
Dean C. Webster

Associates

Iona Black
Cynthia H. Collins
Lauren Jackson
Joseph M. Mabry
Susan J. Olesik
Elsa Reichmanis

Staff Liaison: Kevin McCue

REPORT OF THE COMMITTEE ON LOCAL SECTION ACTIVITIES

The Committee on Local Section Activities (LSAC) is completing its review of the 2018 local section annual reports from the 185 local sections. LSAC reviewer comments for completed reports have been posted in FORMS. Local section officers and councilors are encouraged to read the reviewer comments and to provide responses, if applicable.

LSAC received 22 proposals for the 2019 Science Café Mini-Grant initiative. These grants provide up to \$500 to local sections that wish to host science cafés in their local communities. Science Cafes are intended to promote scientific literacy in the local community by providing a casual and engaging educational forum in a public setting.

In San Diego, LSAC will complete its review of Innovative Program Grants (IPGs) that were received by the June 30 deadline. IPG award notifications will be sent to local sections following the Fall National Meeting.

In San Diego, the committee will focus attention on plans for the Local Section Track portion of the Leadership Institute (LI), which is prepared and presented by members of LSAC. The LI and the Local Section Track specifically are especially helpful to new section officers looking to better understand ACS services and structure, meet neighboring section officers, and hear dozens of tips for success.

LSAC will review procedures to identify local sections to participate in a pilot program supporting ACS Strategic Planning Retreat participation.

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

Jason Ritchie, Chair

Satinder (Sut) Ahuja
Gary D. Anderson
Jeanne R. Berk
Charles E. Cannon
Anna G. Cavinato
Betty Jo Chitester
Eileen M. DiMauro
John Engelman, II
Barbara R. Hillery
Elizabeth M. Howson

John Z. Larese
Louise M. Lawter
Beth Lorsbach
Kathryn Louie
W. Matthew Reichert
Paul J. Smith
L. Kraig Steffen
John A. Whittle
Elaine S. Yamaguchi

Associates

Lawrence J. Berliner
Nick O. Flynn
Desiree Grubisha
Robert J. Hargrove
Michael J. Kenney
Brooke B. Massani
Natalie L. McClure
Kim M. Morehouse
Eileen M. Nottoli

Staff Liaison: Mark O'Brien

REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS

In San Diego, the Committee on Constitution and Bylaws (C&B) will be meeting with petitioners of the Petition on Membership and Dues, which is up for consideration at this meeting. There are no petitions that are up for action by Council. The Board of Directors confirmed the Petition to Streamline the ACS Governing Documents, which Council approved at the spring meeting in Orlando. ACS members will be voting on the Constitution changes in the fall. If they approve these changes, then the entire petition will be effective and the ACS Governing Documents will be amended accordingly. Petitions, bylaws, and the ACS Governing Documents (Bulletin 5), are at www.acs.org/bulletin5.

C&B has certified six bylaws since January. Since the spring Council meeting in Orlando, we certified bylaws for the I&EC Division, the Northeastern Indiana Section, and the Pakistan International Chemical Sciences Chapter. Certified bylaws can be found at the above link, along with bylaws status reports for Divisions and Local Sections, and model bylaws in case you are considering updating the bylaws for your Division, Local Section, or International Chemical Sciences Chapter. You also have the option to use a questions document, for which C&B will prepare bylaws based on your responses. 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 25, from 1:15 to 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 or Bylaws must be received by the Executive Director (bylaws@acs.org) by **December 4** to be included in the Council agenda for the spring 2020 meeting in Philadelphia, PA. We encourage you to send your draft petition to C&B before you start collecting signatures so we can assist with wording and ensure that the petition is in accordance with the ACS Governing Documents.

V. Dean Adams, Chair

Brian B. Brady
Dwight W. Chasar
David S. Crumrine
Donna G. Friedman
Donald K. Harriss
Lydia E.M. Hines
W. Gary Hollis, Jr.

Svetlana Korolev
Les W. McQuire
Steven Trohalaki
T. Blake Vance
Keith Vitense
Doris L. Zimmerman

Associates

Robert S. Cohen
Semih Eser
George J. Lechner
Virgil J. Lee
John M. Long
Kathryn Lysko

Consultant

James C. Carver

Staff Liaison: Barbara F. Polansky

Please attend the open meetings of any of the following committees to discuss this petition, ask questions or hear comments. This petition has been referred to the ***Committee on Membership Affairs**, Committees on Divisional Activities and Local Section Activities, 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 April 20, 2018.

ORIGINAL

FOR CONSIDERATION

Petition on Membership and Dues

Bylaw I, Sec. 3, b

Bylaw II, Sec. 3, a - c

Bylaw XIII, Sec. 3 a, d – 1

Petition

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

BYLAW I
Membership

...

Sec. 3

...

b. The Council Committee on Membership Affairs may approve for STUDENT MEMBER a person who is actively working toward an undergraduate degree in a chemical science or in a related field of natural science, engineering, technology, or science education from an appropriately accredited educational institution, or one acceptable to the Council Committee on Membership Affairs. A STUDENT MEMBER may retain such status only as long as that person is actively working toward such a degree. A STUDENT MEMBER who no longer meets the requirements for STUDENT MEMBER but does meet the requirements for MEMBER shall be reclassified no later than the beginning of the following membership year. (6/11/10)

~~A STUDENT MEMBER shall be entitled to all privileges of membership except that of holding an elective position of the SOCIETY, its Local Sections, or its Divisions, and the privilege of serving as Temporary Substitute Councilor; however, if the bylaws of the Local Section or Division so permit, a STUDENT MEMBER may hold an elective position of the Local Section or Division, other than Councilor or Alternate Councilor. (6/30/09)~~

...

...

Sec. 6.

a. Ten members or five voting Councilors may submit amendment(s) to the dues and benefits of membership to the Council Committee on Membership Affairs by written

petition, with at least five weeks prior notice to the committee's next official meeting. The Council Committee on Membership Affairs shall consider the proposed amendment(s) at an official meeting and may approve by a majority affirmative vote. After the meeting, the committee shall include the amendment(s) in the next release of the dues and benefits of membership.

b. If the amendment(s) are not approved by the Council Committee on Membership Affairs, the decision may be appealed to the Council Policy Committee by written petition of 25 voting Councilors at least eight weeks prior to the next Council meeting. The Council Policy Committee shall consider the proposed amendment(s) at an official meeting and may approve by a majority affirmative vote. If approved, after the meeting, the Council Policy Committee will mandate that the Council Committee on Membership Affairs include the amendment(s) in the next release of the dues and benefits of membership.

c. If the Council Policy Committee does not approve the amendment(s), an appeal may be brought to the Council floor for action if at least three-tenths (3/10) of voting Councilors agree to its consideration. The Council shall consider the proposed amendment(s) at an official meeting and may approve by a majority affirmative vote. If approved, after the meeting the Council will mandate that the Council Committee on Membership Affairs include the amendment(s) in the next release of the dues and benefits of membership.

BYLAW II

Affiliates and Associates

...

Sec. 3.

a. A person who is not eligible to be a member of the SOCIETY may become a Society Affiliate of the SOCIETY, hereinafter referred to as a "Society Affiliate," subject to the following conditions and limitations: (6/30/09)

(1) Such affiliation may be accorded by the Council Committee on Membership Affairs of the SOCIETY after application and recommendation by signature of two members of the SOCIETY in good standing. (6/11/10)

~~(2) A Society Affiliate shall retain affiliate status only so long as payment is made of Society Affiliate dues, which shall be equal to the full membership dues. A Society Affiliate shall not be eligible for any of the special dues categories specified elsewhere in these Bylaws. (3/24/09)~~

~~b. Society Affiliates shall have the following privileges: (11/2/02)~~

~~(1) Society Affiliates shall receive the official organ of the SOCIETY and may subscribe to SOCIETY publications at the same rates as members. (11/2/02)~~

~~(2) Society Affiliates shall be allowed to register and attend meetings (including regional meetings) of the SOCIETY at the same rates as members, and they shall be allowed to use all educational services of the SOCIETY at the same rates as members. (11/2/02)~~

~~(3) Society Affiliates shall be assigned to an appropriate Local Section in the same manner as members as provided in the Constitution and elsewhere in these Bylaws. Society Affiliates may~~

~~be assessed Local Section dues in the amount specified for Society Affiliates by the bylaws of that Section. In Local Sections, Society Affiliates may be appointed as Committee Chairs, if allowed by the Local Section bylaws, but may not hold an elective position of the Local Section, vote on Articles of Incorporation and bylaws of the Local Section, or serve as a voting member of its Executive Committee or equivalent policymaking body. In their bylaws, Local Sections may either provide or withhold the privilege of voting by Society Affiliates for an elective position (other than Councilor or Alternate Councilor) of the Local Section. (6/1/17)~~

~~(4) Society Affiliates may become Society Affiliates of any Division unless specifically prohibited by the bylaws of the Division and shall be subject to such dues as are specified by the bylaws of that Division for Society Affiliates. In Divisions, Society Affiliates may be appointed as Committee Chairs, if allowed by the bylaws of the Division, but may not hold an elective position of the Division, vote on Articles of Incorporation and bylaws of the Division, or serve as a voting member of its Executive Committee or equivalent policymaking body. In their bylaws, Divisions may either provide or withhold the privilege of voting by Society Affiliates for an elective position (other than Councilor or Alternate Councilor) of the Division. (6/1/17)~~

~~e. Society Affiliates shall have no vote in the national affairs of the SOCIETY and shall not be eligible for any elective office in the SOCIETY. Society Affiliates shall be entitled to those privileges of the SOCIETY which are herein specified. (11/2/02)~~

...

BYLAW XIII

Finances

...

Sec. 3.

~~a. For 1986 the base rate upon which membership dues shall be calculated shall be \$69. For each succeeding year the base rate shall be the dues established for the previous year. For 1986 and each succeeding year, an amount shall be calculated by multiplying the base rate by a factor which is the ratio of the revised Consumer Price Index for Urban Wage Earners and Clerical Workers (Service Category) for the second year previous to the dues year to the value of the index for the third year previous to the dues year, as published by the United States Department of Labor, with fractional dollar amounts rounded to the nearest whole dollar. At its spring meeting, the Council may set the dues **and benefits of membership** for the succeeding year at that calculated amount or at the amount of the previous year's dues or at some intermediate whole dollar amount using procedures and policies developed by the Council Committee on Membership Affairs and approved by the Council. The dues and benefits of membership as presented by the Committee on Membership Affairs in consultation with the Committee on Budget and Finance shall be voted on by Council without modification. Should the Council not act, the dues and benefits of membership shall default to the last approved version. dues shall become the rounded calculated amount. The dues and benefits of membership dues so determined shall be announced to the membership by the Treasurer of the SOCIETY in the official organ of the SOCIETY six months before the effective date of each change. Members not requesting any of the discounts provided elsewhere in these Bylaws may elect a dues period of one year, two years, or three years. The dues rate for two year or three year periods shall be two times or three times, respectively, the full annual dues rate established for the first year of the period. (9/15/09)~~

...

~~d.—A member of the SOCIETY who has accumulated at least thirty five years of paid membership, who is retired from full time professional employment, and is over seventy years of age, is eligible for emeritus status and upon request shall be given such status upon certification by the Executive Director. Such a member shall pay no membership dues, may receive upon annual request the official organ of the SOCIETY, and shall have all the privileges of membership that were held at the time of certification to emeritus status. (6/30/09)~~

~~All members who, prior to January 1, 1986, had accumulated thirty five years of paid membership are eligible for emeritus status upon retirement from full time professional employment or at seventy years of age. Such status shall be given following request by the member and certification by the Executive Director. (12/11/88)~~

~~e.—A member who becomes totally disabled may be granted a dues waiver. To be eligible for a waiver, the member must have paid dues for at least ten years, have been disabled for at least one year, and furnish proof of the disability. The request for a waiver shall be made to the Executive Director annually upon receipt of the dues statement. The Committee on Membership Affairs, acting for the Council, shall resolve any member's appeal from adverse action on such a request. (5/7/76)~~

~~f.—A person graduating with a bachelor's degree in a chemical science or in a related field of natural science, engineering, technology, or science education from an appropriately accredited educational institution, or one acceptable to the Committee on Membership Affairs, may apply for MEMBER status, by reclassification from STUDENT MEMBER or otherwise, and receive a half-year waiver of membership dues to begin at any time up to one year from the date of graduation. (6/11/10)~~

~~g.—A member who has accumulated at least thirty years of paid membership and is retired from full time professional employment shall, upon request to the Executive Director and affirmation of such status, be entitled to a discount of one half the membership dues for each year beginning on the member's anniversary date, and shall receive the official organ of the SOCIETY upon annual request. (10/4/99)~~

~~All members who, prior to January 1, 1986, had accumulated at least twenty five years of paid membership shall be entitled to this privilege upon retirement from full time professional employment. (9/21/90)~~

~~h.—A member who is serving actively in the Armed Forces of the United States of America or in another area of national service on temporary full time duty of not less than one year nor more than four years may, upon request to the Executive Director with affirmation of such status, be entitled to a discount of one half of the membership dues for each year of such service beginning on the member's anniversary date. (10/4/99)~~

~~i.—Student Discounts~~

~~(1)—A STUDENT MEMBER, upon affirmation to the Executive Director of qualification for such status, shall be entitled to a discount of five sixths of the membership dues. The dues so determined shall be rounded to the nearest whole dollar amount. A STUDENT MEMBER shall receive electronic access to the official organ of the SOCIETY. A STUDENT MEMBER wishing to receive a printed copy of the official organ shall pay an additional sum equal to one half of the~~

~~calculated per member amount of the allocation to the official organ described elsewhere in this Bylaw, rounded to the nearest whole dollar amount. (6/30/09)~~

~~(2) A member who is a graduate student majoring in a chemical science or in a related field of natural science, engineering, technology, or science education at an appropriately accredited educational institution, shall be entitled to a discount of one-half of the membership dues so long as the student is doing full time graduate work. "Full time" is to represent any combination of course work, research work, and teaching that the institution considers a full time load. (6/30/09)~~

~~The Committee on Membership Affairs shall have the power to interpret and apply these requirements, with the advice of the Society Committee on Education. (6/11/10)~~

~~j. Upon request from a member who is the spouse of a member, one of the two, with affirmation of their status to the Executive Director, shall be entitled to a reduction in membership dues equal to the prior year's per member allocation from dues revenue for the official organ of the SOCIETY in lieu of one subscription. (9/24/93)~~

~~k. After one year of paid membership, a member who is unemployed and is seeking full-time professional employment, upon request to the Executive Director and affirmation of such status, shall be entitled to an annual waiver of membership dues. Such annual waiver shall commence on the member's anniversary date and may be renewed each year for a total not to exceed three years so long as this status is reaffirmed each year. This provision may be invoked again only after a period of full time professional employment. (9/28/16)~~

~~l. After one year of paid membership, a member who has elected to discontinue full-time professional employment because of long-term obligations as a family care provider, upon request to the Executive Director and affirmation of such status, shall be entitled to a discount of one-half of the membership dues. Such discount shall commence on the member's anniversary date and may be continued for up to an additional two years so long as this status is affirmed annually. This provision may be invoked again only after a period of fulltime professional employment. (10/4/99)~~

~~d m.~~ The Committee on Membership Affairs may conduct membership recruitment and retention market testing of SOCIETY memberships, services and benefits, including special dues categories, to provide data as the basis for recommendations to the Council. The number of individuals included in any test related to dues discounts shall not exceed a number equal to 10 percent of the total membership. Each test shall be limited to three years' duration unless granted prior approval by Council. All test results will be reported to the Council at least once a year. (6/1/12)

...

Explanation

The ACS has been experiencing a decline in overall membership for more than a decade. In 2018, the Society was able to halt the decline and grow membership, but it required a great deal of effort for a small amount of growth – an increase of approximately 400 net members. In part, that strenuous effort was due to the limitations in the governing documents, which do not provide ample means to quickly adopt and sustain successful market-tested dues and benefit offers that attract new members. We recognize that we will need more flexibility with our processes and procedures to improve ACS membership for the future.

To that end, the Committee on Membership Affairs (MAC) has worked for several years to examine how we can meet the challenge of continued and sustainable growth through market testing initiatives. MAC continues to seek new ways to reconcile and deliver a valuable membership experience to our members by revisiting dues structures and exploring changes to provided benefits. Comments and observations offered at the Council special discussion in spring 2019 included asking the Society to be more nimble and tailored in its approach to membership. Our ability to deliver as such, and to provide members the value they seek in a professional association, has been hindered in many ways by a lack of control in both the dues setting process used for the last 30+ years and concurrently the benefits granted to our various membership types.

The partnership between MAC, the Society Committee on Budget and Finance (B&F), Council, other stakeholders, our members themselves, and staff – and the increased focus on enhancing our agility— are the keys to achieving our membership goals. The petitioners seek to amend the ACS Bylaws by moving intact sections relating to the associated benefits of membership, how dues are set, and the dues discounts available into a separate process and procedures document. MAC, with input from B&F, would use this new document to develop and manage these areas, with revisions continuing to require Council approval for implementation. The procedures would allow use of the dues escalator but give Council the flexibility to make changes (adaptations) not permitted currently.

Adopting separate processes and procedures would make it easier to produce nimble change in response to market tests and most importantly provide the Society flexibility in the dues setting process to ensure the value of ACS membership remains in line with the relevant benefits we are offering. Further, it would allow for changes around benefits for current membership categories and their pricing/discounts, with full Council discussion and approval, at a pace accelerated over what is currently permitted. Thus, the Society can conscientiously offer a more relevant approach to how benefits and dues are considered, but appropriately maintain proper oversight of the process.

The petitioners are aware of the timing of the petition with regard to the status of the recently approved Petition to Streamline the ACS Governing Documents and its pending ratification by the ACS membership in fall 2019. If ratified, the Bylaws in question would become Standing Rules, and this petition would then be out of order. The appropriate approach then would be to amend the Standing Rules to accomplish the objectives of this petition. Petitioners are prepared to proceed accordingly.

Signed:

Dr. Mary Elizabeth Anderson	Dr. Thomas R. Gilbert	Dr. J. Kenneth Poggenburg, Jr.
Dr. G. Bryan Balazs	Dr. Joseph A. Heppert	Dr. Carolyn Ribes
Dr. George M. Bodner	Dr. Alison Hyslop	Dr. Richard J. Rosso
Dr. David A. Conlon	Dr. Paul W. Jagodzinski	Dr. Barbara Sawrey
Dr. Alan B. Cooper	Dr. Neil D. Jespersen	Dr. Diane Grob Schmidt
Dr. Richard S. Danchik	Dr. Julie L. Jessop	Prof. Joseph M. Serafin
Dr. Peter K. Dorhout	Dr. Sarah J. Leibowitz	Dr. Darlene K. Slattery
Ms. Carol A. Duane	Mr. Brian M. Mathes	Dr. Laura Sremaniak
Dr. Joan M. Esson		

(This petition has been referred to the ***Committee on Membership Affairs**, Committees on Divisional Activities and Local Section Activities, 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 Bylaws of the SOCIETY. The proposed Bylaw amendment accomplishes the petitioners’ intent for the Society’s Bylaws to allow flexibility and to adopt separate processes and procedures with regard to dues for the benefit of current and new members. The separate processes and procedures would need to be approved by Council.

However, earlier this year, the Board of Directors and Council approved changes to the Bylaws and the creation of Standing Rules, as proposed in the Petition to Streamline the ACS Governing Documents. There are inconsistencies between this petition and the Bylaws that were approved by Board of Directors and the Council in the Petition to Streamline the ACS Governing Documents. This fall, ACS members will vote to ratify the Constitution changes. If members approve these changes, the Petition on Membership and Dues will be withdrawn since the changes in this petition will already be covered and effective by yearend 2019.

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

Dr. V. Dean Adams
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 consist of full committee meetings and various subcommittee meetings over a period of two days. 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 10 and 11, 2019.

During the two days prior to the committee's spring meeting, thirteen members of the committee participated in a Strategic Planning Retreat led by an ACS Leadership Development Team. The purpose of this activity was to create a strategic plan for CAR's future success and to assure that its plan is congruent with the ACS strategic plan. The work conducted during the retreat was then presented to the entire committee for discussion, approval and implementation.

The committee approved the following Vision and Mission statements developed during the strategic planning retreat.

Vision: Set the Global Standard for Chemical Integrity, Quality, and Purity.

Mission: Establish Specifications and Analytical Procedures for Reagent Chemicals.

The committee also approved the four following goals as a pathway to achieve both its Vision and Mission statements:

Goal 1: *Keep existing test methodology current and introduce new reagent specifications and test methodologies.*

Goal 2: *Expand testing capabilities through university collaborations.*

Goal 3: *Develop engaged populations of QA/QC analytical chemists who will influence the growth of subscriptions.*

Goal 4: *Ensure quality and integrity of ACS Reagent Chemicals content.*

To assure the committees commitment and success in achieving these vital goals, multiple strategies were developed for each goal and committee members have volunteered to "Champion" each one and drive, monitor and report on each ones on-going progress.

The committee also launched a Wikipedia article in December, [Reagent Chemicals](#), approved to help promote the work of CAR and the electronic platform of "Reagent Chemicals" that provides the official specifications and analytical test methods of ACS Reagent Grade Chemicals.

Tom Tyner, Chair

Subhra Bhattacharya
Rachel J. Blankenship
Eric Bosh
Louis DuPont
James N. Francis
Michael Jeitziner
Norman A. Johns

Robert W. Kramer
Huifang Lang
Terrance Lee
Avrom C. Litin
Tom J. Mancuso
Nelly N. Mateeva
Mary Beth O'Donnell

Richard J. Petroski
Nancy S. Simon
Robert Thomas
Shyam K. Verma
Wayne C. Wolsey

Associates

Regina Easley
William Green
Parul Modi

Rachel Nelson
Celia Williams

Consultant

Paul A. Bouis

Staff Liaison: Sara Tenney

B. Chemical Abstracts Service
(joint with Board)

The Committee on CAS (CCAS) met in Orlando in March, 2019 and heard an update from CAS management on new products and services. A member of ConC reviewed the committee appointment cycle as well as the recent demographic survey results. In addition, the ACS Code of Conduct Policy was reviewed with members.

Continued discussions to define a tangible work product for the committee were the focus of the spring session. The committee reviewed the CCAS “Stakeholder analysis” that has been discussed in the past including whom does CCAS speak to (CAS staff, GBP, BOD and Council as well as organizations within CAS such as CINF and other technical divisions) and ACS membership as a whole. Committee working groups then brainstormed potential impactful processes for CCAS including contacting various technical divisions to survey members regarding CAS services and products, marginal users and ACS member benefit awareness as well as barriers to access chemical literature. The committee believes that its partnership with CAS holds potential to deliver value to members as is seen with the many other partnerships across ACS between committees and staff units. Deliberations will continue as the committee works to define an effective work product.

Kevin Gable, Chair

Rachelle Bienstock

Wendy Cornell

Brian Eklov

Michael Filosa

Kevin Glaeske

Charles Huber

John Piwinski

Kent Voorhees

Consultant:

Judith Benham

Staff Liaison: Christine Casey

C. Chemical Safety
(joint with Board)

Committee on Chemical Safety (CCS) Strategic Planning

Over the last several years, as the level of ACS strategic activities around chemical safety issues has risen, and with the addition of full-time ACS staff to support safety programs in the ACS, it has become clear that there is a need to coordinate the activities of ACS staff, committees, local sections and technical divisions interested in this topic. It is important that specific efforts do not compete with each other for resources and attention, but that they can take advantage of synergies to maximize ACS's impact in the area of chemical safety. With this in mind, CCS led the organization of the 2018 and 2019 ACS Safety Summits. In addition to this engagement with internal ACS and external stakeholders, the committee is preparing for a CCS strategic planning retreat, which will take place this September. During this retreat, the committee leadership and representatives will outline the committee's role in contributing to the overall ACS strategy for chemical safety over the next 5 years.

2019 Annual Meeting of the Safety Advisory Panel

The CCS Safety Advisory Panel (SAP) is a technical environmental, health, and safety resource for the CCS, and ACS as a whole, in addressing emerging and complex chemical safety and regulatory issues on an as needed basis. The Panel meets annually, and during the 2019 June meeting it addressed three important projects:

- **eRAMP prototype** (collaboration between members of CCS and Divisions of Chemical Health and Safety (CHAS), Division of Chemical Education and Division of Chemical Information. CHAS has been awarded the Innovative Project Grant to support this project. The small working group has been working on designing an electronic hazard assessment tool for the undergraduate organic chemistry course.
- **User-centered systems to make safety information relevant and personal and to increase access to this information.** ACS produces many resources (and will produce many more) related to chemical safety, which are not easy for people unfamiliar with the ACS website to find. This project will identify keywords and categories that would most online ACS and ACS-recommended resources. The group working on this project also discussed search strategies that would enable ready access to needed resources.
- Review of **the ACS policy statement on [Safety in the Chemistry Enterprise](#)**. In collaboration with the ACS Office of External Affairs & Communications, the SAP will advise the full CCS on updates to this policy. The committee will discuss these recommendations during its upcoming meeting in San Diego.

Ongoing Success of *Safety in Academic Chemistry Laboratories (SACL)*

For over four decades, the Committee on Chemical Safety (CCS) has published a document entitled *Safety in Academic Chemical Laboratories*, affectionately known as SACL. Since the publication of the first edition, CCS has distributed more than 1 million copies. In 2017, the committee published the eighth edition, which was significantly updated and refocused to a more specific audience – students taking the first two years of the chemistry as undergraduates. In this way, ACS is showing leadership not only to chemists, but to many other science students who will work with chemicals in biology, engineering, geology and other laboratories. For this reason, the title of the document is now *Safety in Academic Chemistry Laboratories: Best Practices for the First- and Second- Year University Students*. The latest edition includes new sections on safety culture, the advent of the Globally Harmonized System (GHS), and additional reorganization for easier use in the classroom setting. The booklets can be purchased through the ACS online store or downloaded as the PDF from the ACS website. The eighth edition has also been translated into Arabic. Over 4,000 copies of SACL were already distributed in 2019.

Ralph Stuart, III, Chair

Allen W. Apblett
Georgia Arbuckle-Keil
Irene G. Cesa
Joseph M. Crockett
Matthew C. Crowe
Anna L. Dunn
David C. Finster
Kirk P. Hunter
Robin M. Izzo

Kimberly B. Jeskie
Michael G. Koehler
Nicholas F. Materer
Leah R. McEwen
Edward M. Movitz
Russell W. Phifer
Peter A. Reinhardt
Al Ribes
Weslene Tallmadge

Associates

Grace Baysinger
Jennifer L. Bishoff
Debbie M. Decker
Kendra Denlinger
Regis A. Goode
Daniel R.N. Jacques
Jennifer L. Maclachlan
Kali A. Miller
Samuella B. Sigmann

Consultants

Scott R. Goode
Ellen Sweet

Staff Liaison: Marta Gmurczyk

D. Chemistry and Public Affairs
(joint with Board)

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

Public Policy Fellowships

For the past 45 years, the American Chemical Society has sent chemists to Washington D.C. for an immersive experience in how the government works through the ACS Public Policy Fellowships. The purpose of the program is two-fold: to give chemists a better understanding of how government policy affects the chemical enterprise, and to inject some scientific knowledge into the policy-making process. ACS congressional fellows serve in the office of a congressional committee or personal office; science policy fellows work with ACS External Affairs and Communications (EAC) staff in the ACS headquarters in Washington DC.

To celebrate the 45th anniversary of the fellowship program, CCPA worked with the Division of Professional Relations to organize a symposium featuring past fellows from across the decades of the program's existence. All councilors are invited to attend "When Chemists Go to Washington: 45 Years of the ACS Public Policy Fellowships," which will take place on Monday, August 26 starting at 8:30 a.m. CCPA thanks PRES and SCHB for cosponsoring the symposium.

CCPA provides oversight of the ACS Public Policy fellowship program and guides the annual selection process that selects two congressional fellows. This year, 14 CCPA members and past fellows reviewed nearly 40 applications for the 2019-2020 fellowship term. I am pleased to share the results of that selection process: **Amy Hafez** and **Jennifer Novotney** will spend one year working as ACS congressional fellows on Capitol Hill as part of the broader AAAS Science & Technology Policy Fellowships program. **Leila Duman** was selected to be the ACS science policy fellow.

Amy Hafez earned a Ph.D. in Molecular Genetics and Microbiology from Duke University. While at Duke, Amy worked with the Duke Initiative for Science and Society and was awarded the Community Citizenship Award for her advocacy efforts on behalf of the graduate and professional student population at Duke. Jennifer Novotney completed her Ph.D. in Chemistry at Cornell University and currently is the Public Programs Coordinator at the MIT Museum. While completing her Ph.D., Jennifer won the inaugural American Chemical Society Chemistry Champions contest. Leila Duman is an organometallic chemist who earned her PhD in chemistry from the University of Maryland. Leila is active in the Chemical Society of Washington local section, leading the section's first Atlantic Regional Science Café Series. ACS members at all career stages are encouraged to apply for the fellowships. More information can be found at www.acs.org/policyfellows.

Member engagement in public policy

CCPA encourages and highlights ACS local section engagement in public policy activities by sponsoring the ACS President's Local Section Government Affairs Award presented at the annual ChemLuminary Awards Reception. CCPA would like to congratulate the Chicago, Indiana, and Nashville local sections, which have been nominated for their government affairs efforts. Stay tuned to learn which local section is crowned the winner in San Diego! Councilors are urged to include their local sections' advocacy activities in their annual local section reports so that they may be considered for the CCPA ChemLuminary award.

CCPA's vision statement is "Public policy that is much more informed by chemical professionals," and the Committee's mission statement is to "Increase ACS member engagement and effectiveness in impacting public policy." To those ends, one of CCPA's goals is to empower and engage ACS members to interact with

federal and state policymakers by providing tools, training, connections, and networks. CCPA continues to work with staff from External Affairs & Communications to ensure that the online materials to educate and train ACS members to become chemistry and science advocates remain updated and high quality. During my oral report to Council in San Diego, I plan to highlight some of those online materials, and I look forward to sharing that information in August.

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Janan Hayes
Russell W. Johnson
Kevin Kuhn

Zafra M. Lerman
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Jozef Stec
Jonathan Wilker
Matthew Windsor

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Mick Hurrey
Emily A. Lewis
James J. Moran
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Amy S. Ripka
Peter F. Rusch
Robert D. Sindelar
Hessy L. Taft
Heidi Vollmer-Snarr
Donald J. Wink

Consultant

Stephen Benn

Staff Liaison: Caroline Trupp Gil

E. 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 San Diego, CA national meeting are as follows:

CWD Travel Award for 2019 Fall National Meeting: CWD sponsors a travel award that will continue in 2019. 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 ACS-CWD student travel award has been given to Ph.D. candidate Kirin Furst from Stanford University for 2019. Kirin will be delivering an oral presentation entitled, “Is it time to move beyond the trihalomethane paradigm in developing countries? Lessons learned from wastewater-impacted drinking waters in South Asia” at the Fall ACS National Meeting.

CWD Strategic Planning Meeting 2019: Through the continued support of the American Chemical Society, CWD was recently provided the opportunity to engage in a strategic planning meeting to refresh our committee’s initiatives. The detailed output of the strategic planning session will be shared with our committee members at our upcoming national meeting in San Diego. The goals of the committee are centered around promoting awareness of the capabilities of persons with disabilities in the chemical sciences, leveraging internal and external alliances to increase our visibility and impact as well as being a resource for laboratory accessibility and accommodations.

CWD ChemLuminary Award 2019: The 2019 CWD ChemLuminary Award winner will be announced and awarded at the ACS national meeting in San Diego.

James Schiller, Chair

Debra A. Feakes
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Christian Hamann
George L. Heard
Carl E. Heltzel
Lee W. Hoffman
Kevin L. Kelly
Lucian A. Lucia
Ashley Neybert

Marcie J Merritt
Missy A. Postlewaite
Patricia Ann Redden
Annemarie D. Ross
Sharon Rozovsky
Rafael I. San Miguel
Henry Wedler
Theresa L. Windus

Associates

Michelle R. Cummings
Maria T. Dulay
Stefan M. Kilyanek
Mona Minkara

Amie Norton
Christine K. Payne
Rachel Elizabeth L. Scroggins
Dontarie Stallings

Consultant

Laureen Summers,

Staff Liaison: Paula H. Christopher

F. Community Activities
(joint with Board)

The 2019 Chemists Celebrate Earth Week (CCEW) theme is “Take Note! The Chemistry of Paper.” Materials will be available for Local Section CCEW Coordinators and all interested volunteers starting on February 1, 2019. CCEW 2019 will be celebrated around the world from April 21 to 27. All Local Sections are encouraged to celebrate CCEW through local outreach events, organizing local community events, and hosting an Illustrated Poem Contest. All Local Section CCEW coordinators will receive free printed copies of *Celebrating Chemistry*, in both English and Spanish, to distribute at their events. All International Chemical Sciences Chapters, International Student Chapters, and other interested volunteers can access free electronic copies of *Celebrating Chemistry* and useful resources and graphics to help host their events at www.acs.org/ccew.

CCA will celebrate the International Year of the Periodic Table (IYPT 2019) in addition to CCEW at all of its Orlando National Meeting and Exposition programming. This will begin with the biannual Presidential Outreach Event on Saturday, March 30 from 12 p.m. to 3 p.m. at the Orlando Science Center. The first 275 participants at this outreach event will also be given free entrance to the full science center for further academic exploration.

The annual workshop held in collaboration with Undergraduate Student Programming, designed to prepare future outreach volunteers to celebrate CCEW, will teach both CCEW and IYPT activities. This workshop, entitled “How to Celebrate the International Year of the Periodic Table and Chemists Celebrate Earth Week through Outreach” will be held on Monday, April 1 from 10:30 a.m. to 11:45 a.m. the Orange County Convention Center, West Hall F2.

CCA thanks the 169 coordinators and 91% of Local Sections who celebrated National Chemistry Week (NCW) 2018. The theme was “Chemistry is out of this World!” NCW 2019 will also celebrate IYPT 2019 with the theme “Marvelous Metals.”

Holly Davis, Chair

Neal Abrams	Ressano Machado
Janet Asper	Alex Madonik
Shawn Dougherty	Regina Malczewski
George Fisher	Verrill Norwood III
Kenneth Fivizzani	Richard Rogers
David Heroux	George Ruger
Veronica Jaramillo	Alexsa Silva
David Katz	Lori Stepan
An-Phong Le	Sanda Sun
Avrom Litin	Cary Supalo

Associates

Sara Delgado-Rivera	Keith Krise
William Doria	JaimeLee Rizzo
Tracy Hamilton	Monica Sekharan
Susan Hershberger	Faith Yarberry
Edith Kippenhan	

Consultant

E. Ann Nalley

Staff Liaison: Lily Raines

G. 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.

An example of this is the committee's long-standing partnership with the ACS Green Chemistry Institute® (GCI). We recently participated in the annual Green Chemistry and Engineering Conference (GC&EC) sponsored by ACS GCI, hosting or supporting several symposia and workshops. These included programs on green and sustainable chemistry in product supply chains, the relationship of chemistry to the United Nations Sustainable Development Goals (UN SDGs), as well as the challenges presented by single-use plastics. CEI will be sponsoring ongoing work on these topics, and any councilors interested in getting involved with these projects are encouraged to contact the committee at cei@acs.org.

At the fall national meeting in San Diego, the committee has organized the program theme related to the Chemistry of Water. There will be 79 symposia hosted by the technical divisions and related the three subthemes, People and Water, Land and Water, and Water's Effect on Chemistry. The theme has partnered with Chemists Without Borders (<http://www.chemistswithoutborders.org/>) and ACS members are encouraged to make a donation to their work in conjunction with the meeting registration process. The theme will involve several unique programming features including a film festival competition featuring juried short films related to water, a take-over of the monthly photo competition run by Chemical & Engineering News, an ACS Reactions video on desalination, and a tour of the Carlsbad desalination plant in San Diego County. CEI is proud of its leadership in theme planning for a National Meeting and hopes it will serve as an example for other units of ACS interested in taking an overarching organizational role in future meetings.

Along with other ACS units, CEI is engaged in reviewing and recommending updates to ACS' public policy statements. We are updating the Climate Change policy statement and leading the update of the Chemical Risk Assessment and Regulatory Decision Making statement in conjunction with the Committee on Corporation Associates (CA). The committee also has begun the development of a proposed statement on critical materials, in conjunction with the Committee on Science (ComSci). In addition, CEI has begun planning for next year's review of the statements on sustainability in the chemistry enterprise, on scientific integrity, and on science and technology on the federal budget.

CEI continues to support and recognize the work of the ACS local sections related to sustainability. Thus far in 2019 the committee has provided mini-grants to both the North Carolina and Orange County Local Sections. Local Sections are encouraged to apply for grants to facilitate new programs and activities highlighting or advancing the relationship of sustainability to the chemical science, as well as to apply through their annual reports in order to be considered for the ChemLuminary Award for Outstanding Sustainability Programming.

CEI also continues its social media efforts to engage with a network of ACS members interested in environmental issues. To get more information or join the dialogue, please follow [@ACS_CEI](#).

Christopher W. Avery, Chair

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Marie Bourgeois
Edward Brush
George P. Cobb, III
Elise B. Fox
Robert J. Giraud

Jillian L. Goldfarb
Carol Henry
Catherine T. Hunt
John T. Jayne
Michael A. Matthews
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Staff Liaison: Ray Garant

H. Ethics

The Committee on Ethics (ETHX) has been hard at work since it last addressed Council. You may recall that the committee's 2016 SciMix interactive poster succeeded in collecting feedback about ethics issues of interest to ACS members attending that particular meeting; however, ETHX wanted to collect similar information from a broader swathe of the ACS membership. The Ethics Resources and Communications subcommittee constructed two questions that appeared as part of a recent distribution of the ACS Salary Survey. We have received over 2500 responses from the first round of surveys, and we plan to repeat the exercise on a regular basis so that we can learn about changes in member interests over time and respond by providing appropriate resources and programming.

For the first half of the year, the committee experimented with small working groups established to tackle a few short-term projects. These included drafting a committee handbook; performing background research in preparation to launch a revitalized ETHX Web site; continuing ETHX programming efforts in a variety of venues; collecting, curating, and constructing relevant case studies about ethical issues; and analyzing the data obtained from the Salary Survey. We were able to make concrete progress on most of these projects, with the committee handbook and the Web site recommendations being close to completion at the time of this writing and the other three endeavors forming the basis for ongoing work.

In the area of programming, Patricia Mabrouk and Kelly Elkins, along with colleagues Rosemarie Walker and Susan Schelbe, organized a SACNAS symposium on October 13, 2018, entitled, "What Do I Do? Voicing Your Values as a Scientist." A representative from ETHX was invited to participate in a meeting of the Council of Scientific Society Presidents on May 6, 2019, and we were represented by Karlo Lopez, who, in collaboration with an ethics officer from the EPA, delivered a talk entitled, "New funding opportunity: what does it really mean?" Finally, Patrick Knerr and Ron D'Amelia are hard at work on a second committee monograph, *Introduction to the Ethics of Scientific Conflict of Interest*.

In early 2019, ACS approved ETHX's request to hold a strategic planning retreat, and most of the committee members attended the retreat, held June 1-2, 2019, at ACS Headquarters in Washington, DC. Attendees worked enthusiastically throughout, and, at the end of a day-and-a-half of activities, the group proposed the following new vision and mission statements:

VISION: Leading a culture of ethics in chemistry

MISSION: To provide and promote resources and activities that educate, guide, and recognize chemists in ethical decision-making

The group also devised three new strategic goals in support of this mission and vision, and nine short-to-medium-term activities that, when implemented by the committee, will help to put these goals into action. The committee is in the process of voting to adopt the strategic plan, and individual committee members are preparing project plans for the nine goal-oriented projects. The next steps will be to prioritize the projects and begin work.

Judith N. Currano, Chair

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Patrick J. Knerr

Fran Kravitz
William W. Leong
Karlo M. Lopez
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L. International Activities
(joint with Board)

In fulfillment of its duties and responsibilities to the Society, the ACS Joint Board-Council Committee on International Activities (IAC) is responsible for studying and recommending appropriate participation and cooperation for the Society in international undertakings pertaining to chemical education, professional activities, and scientific matters of interest to chemists and chemical engineers, and coordinating its efforts with those of other organizations. Through the dedicated volunteer time and talents of IAC members and associates, the committee continues its work to help ACS be more welcoming to chemists and allied scientists and engineers with global interests and advance strategies to serve the international priorities of the Society.

Some notable highlights for IAC at the midyear point:

1. In June 2019, the ACS Board of Directors approved the establishment of ACS International Chemical Sciences Chapter in Pakistan, bringing the number of ACS International Chapters to 23.
2. IAC received and approved for ACS Council consideration in Orlando an application from Georgia to establish an ACS International Chemical Sciences Chapter. This application will be reviewed by Council in San Diego.
3. IAC will continue to promote co-alignment between ACS International Chemical Sciences Chapters, ACS International Student Chapters, and other relevant ACS entities active outside the U.S.
4. IAC supported activities of the International Younger Chemists Network (IYCN) at the IUPAC World Congress in Paris from July 5-12, most notably through co-sponsorship of a speed-networking event and reception.
5. IAC is conducting a strategic retreat prior to the San Diego National Meeting in order to better align with the ACS's increasingly globalized goals. Outcomes from that retreat will be reviewed at the IAC meeting in San Diego on Saturday, August 24.

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Csaba Janáky
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Staff Liaison: Lori Brown

FOR COUNCIL ACTION

Petition to Charter an International Chemical Sciences Chapter

One legal application has been received for the formation of a new international chemical sciences chapter to be known as the Georgia International Chemical Sciences Chapter. The Georgia International Chemical Sciences Chapter will consist of the territory of the republic of Georgia and is not part of any other Chapter or Local Section of the Society.

The petition was initiated and signed by ACS members in good standing and residing in the territory. The application meets all of the requirements of Bylaw IX of the Society, and includes a statement that the applicants are familiar with and will abide by all governing documents of the Society including specifically Bylaw IX Section 2(c), which states that the Chapter and its officers as representatives of the Chapter shall not engage in political activity, shall avoid any activities that may adversely affect the interests and/or public and professional image of the Society, and shall assure that all activities of the Chapter shall be open to all members of the Society. The application includes a proposed budget for the operation of the Chapter, which includes no allotment of funds from the Society. The petition has been reviewed by the ACS Joint-Board Committee on International Activities (IAC). This action seeks the approval of the Council and is contingent on the approval from the ACS Board of Directors, after which, the Chapter will begin operation.

J. Minority Affairs
(joint with Board)

The ACS Committee on Minority Affairs (CMA) is continuing towards achieving our objectives by focusing on three goals: (1) Sustain and dynamically develop a programmatic presence on-line and at ACS national & regional meetings; (2) Advocate for increased recognition of racially and ethnically under-represented chemical scientists for various ACS awards; and (3) Create a pipeline of under-represented peoples that are developed to participate in the chemical enterprise as practitioners and societal leaders.

CMA continues to work towards our goals of dynamic programming at ACS national meetings. We are sponsoring a symposium with the COMP division entitled **“Elucidating Reaction Mechanisms with Computational & Experimental Chemistry”** which includes speakers **Matthew Grayson, Seonah Kim, Robert Paton, Carlo Alberto Gaglioli, Osvaldo Gutierrez, Colin Yu-Hong Lam, Steven Lopez, and Heather J. Kulik**. We also invite you to attend our luncheon on Monday, August 26th, that will continue the symposium theme and highlight the work of both prominent and rising stars in the field of computational chemistry.

CMA continues to make strides towards our goal of broadening the cultural competency, awareness, and vernacular used by ACS members at large. Our communications over the last year have included topics such as intersectionality; microaggressions and microinsults; and intent vs. impact. We are launching the second phase of the pilot cultural competency workshop to advance ACS awareness of patronizing/marginalizing communication and planning reasonable accommodations for varying levels of conference participant ability. We also support the use of gender pronoun pins, and encourage all participants at this meeting to acquire their own pin at the Diversity Reception or the CMA luncheon.

See you in San Diego!

Ann C. Kimble-Hill, Chair

Seth Y. Ablordeppey
Dawood Afzal
Marie Little Fawn Agan
Kishore K. Bagga
Shanadeen C. Begay
Barbara L. Belmont
Comfort A. Boateng
Raychelle Burks
Benny C. Chan
Patrick M. Gordon

Julius Green
Christopher E. Hobbs
Robert M. Hoyte
Kimberly M. Jackson
Reni Joseph
Wasiu A. Lawal
Steven A. Lopez
Sarah M. Mullins
Donna Neal
Mary J. Ondrechen

R. Lee Penn
Tamiko M. Neal Porter
Juan Carlos Ramos
Armando M. Rivera-Figueroa
Lana Saleh
Michael Santiago
Thomas W. Smith
Alyssa C. Thomas
Javier Vela-Becerra
Donald C. Zapien

Staff Liaison: Benjamin Fiore-Walker

K. Nomenclature, Terminology and Symbols

In support of NTS's mission to educate, facilitate and advocate for the use of chemical representations that support a universal understanding of chemistry, here are highlights of some of the work the committee has been doing on projects in support of our three goals.

Goal 1: Achieve a common language of chemistry by educating its practitioners

The project team is in the process of developing a training workshop for K-16 educators on the teaching of chemical nomenclature. NTS intends to present the workshop at BCCE 2020. On the basis of the development work for this workshop, NTS plans on extending the reach through an AACT webinar.

Goal 2: Facilitate the interaction of chemists to implement appropriate chemical representations.

NTS and CNIF co-organized a symposium day and a half symposium in San Diego entitled: Chemical Nomenclature and Representation: Past, Present and Future. The symposium examined the importance of having a common language for chemistry from the inception of IUPAC 100 years ago to the need for chemical representation that can be read by both humans and computers today.

Goal 3: Advocate for the use of a common language of chemistry

NTS supported an update of the *ACS Style Guide* by reviewing and proposing updates to the sections focused on chemical nomenclature, terminology and symbols. A review of NTS' stakeholders was conducted and resulted in the creation of a stakeholder map. The map supports NTS' internal and external engagement, collaboration, education and advocacy efforts.

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Gail B. Karet
Paul J. Karol
Maria R. Kriz
Susanne M. Lewis
Sally B. Mitchell
Graham F. Peaslee
Daniel Rabinovich

Jeffrey A. Rahn
Douglas J. Sawyer
Michael Sheets
Timothy M. Trygstad
Philip Verhalen
Tad Whiteside
Wayne C. Wolsey
Robert A. Yokley

Associates

Hayley Brown
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Robert Lynch

Staff Liaison: Molly Strausbaugh

L. Patents and Related Matters
(joint with Board)

The Committee on Patents and Related Matters (“CPRM”) provides information and guidance about patents and other important intellectual property issues. CPRM seeks to reform and improve the patent system. CPRM is studying the pending bi-partisan Congressional proposal to amend the Patent Act. On this issue and others, CPRM continues to identify opportunities for ACS to advocate on the importance of intellectual property guided by ACS policy. One way that CPRM stays informed about legislation that may impact intellectual property and the chemical enterprise is through Act4Chemistry, ACS’s legislative network. If you are not already a member of the network, please join.

CPRM has created – and continues to develop – numerous educational materials to inform ACS members and the public about intellectual property as well as possible careers in intellectual property. The Committee has completed its revised version of the “What Every Chemist Should Know about Patents” booklet. CPRM is strategizing about use of webinars and social media to further its educational mission and reach more people. CPRM’s educational materials are available on its website, and CPRM welcomes suggestions on other areas in which it can provide education.

CPRM also proposes nominations of notable inventors for several external awards recognizing chemists and chemical engineers and is reaching out to Divisions to identify potential nominees, as they have more direct knowledge of inventiveness in their respective fields. We welcome any nominations or input on possible nominations.

CPRM continues to collaborate with the U.S. Patent and Trademark Office (USPTO) to improve the patent process for the benefit of the chemistry community by securing volunteer chemists and chemical engineers, both from industry and academia, to participate in USPTO’s Patent Examiner Technical Training Program. This valuable service helps patent examiners keep pace with the recent developments in chemistry. Please take the opportunity to participate in this outstanding program.

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

Kirby Drake, Chair

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Carlyn A. Burton
Joonhyung Cho
Andrew Coates
William G. Gutheil
David H. Jaffer

Richard D. Jordan
Diana F. Mederos
Xavier Pillai
Suguna H. Rachakonda
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Katherine Glasgow
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Justin Krieger
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Matthew S. Wellons

Staff Liaison: David T. Smorodin

M. Professional Training
(joint with Board)

In support of its vision to maintain and lead excellence in training chemistry professionals in the 2020s, the Committee on Professional Training's (CPT's) portfolio now contains 691 colleges and universities with ACS approved chemistry programs. In 2017-18, these programs graduated over 19,000 (19,667) students with bachelor's degrees in chemistry.

During its spring 2019 meeting, CPT reviewed 36 periodic reports from currently approved programs. CPT members also reviewed site visit reports from 5 programs seeking approval, 5 reports from approved program on probation, and 10 reports from institutions responding to an earlier outcome. Five new programs were approved by a unanimous vote. The time from application to approval for these programs averaged 1 year; this is a significant milestone for CPT as the previous time from application to approval was 2 years (with a range of 1 to 4 years).

Guidelines Revision: CPT's mission to provide guidelines and set standards for the training of chemistry professionals was furthered as the committee began its work on guidelines revision during the January, 2019 meeting. Focus for the revision, which is slated to be released in early 2021, is on curriculum, skills, and faculty workload. A Blue Ribbon panel, to be convened in January 2020, is being developed to understand how faculty workload can be measured effectively. A subcommittee, is reaching out to the community to understand how anchoring concepts in chemistry can be related back to the curricular requirements in the guidelines, while another subcommittee is using input from industry committee members to understand the range of skills needed for bachelor's degree chemists to be successful in a wide range of possible career paths. CPT continues to reach out to the community for input on the guidelines revisions through C & EN commentaries, focus groups, short surveys (see www.acs.org/cpt), and opportunities at national meetings (i.e. luncheons with department chairs from approved institutions).

Global Activities: In support of the ACS's vision for 2030, a "Bigger and Better ACS," the committee has commissioned a working group charged with exploring the options for the evaluation of undergraduate chemistry programs internationally. This committee has been working to identify the key indicators of recognition and accreditation in non-U.S. environments.

Improvements to the Approval and Review Process: In 2019, the committee voted to suspend the submission of periodic reports and delay the submission of annual reports in anticipation of the deployment of a new online reporting and reviewing system. The new system, CPARS (Chemistry Program Approval and Review System) went live on July 1, 2019 and will be used to complete reviews here in San Diego. Institutions will have access to their individual portals starting this fall with their 2019 annual reports. The Office of Professional Training will be releasing tutorials, holding webinars, and a live session in Philadelphia to help train institution users on the new system. This system will increase the efficiency of the process and provide a better user experience for both institutions and reviewers.

Edgar A. Arriaga, Chair

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Gina Frey
Jeffrey N. Johnston

Kerry K. Karukstis
Susan M. Kauzlarich
Laura L. Kosbar
Cora E. MacBeth
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Sunghee Lee
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Staff Liaison: Michelle M. Brooks

N. Project SEED

Last year, Project SEED celebrated 50 years of working with nearly 11,000 high school students from low-income households in university, industry, and government chemistry-related research projects across the United States and Puerto Rico. The program website (www.acs.org/Projectseed) was updated to include an interactive map of coordinator sites and streamline information sharing. The 50 Forward campaign successfully raised the Project SEED Endowment to \$8.78 MM with another \$1.39 MM in estate intentions.

As Project SEED shifts focus towards sustaining for the next 50 years, 2019 proves to be quite ambitious. The Project SEED Committee held a Strategic Planning Retreat with committee members, ACS staff, and liaisons from other ACS Committees, including the International Activities Committee, Local Sections, and AACT over the weekend of June 15th. This retreat focused on revamping the vision, mission, and goals for the committee to achieve over the next 3-5 years.

In addition to strategic planning, 2019 brought in 400+ SEED students to perform research at over 140 institutions. Thirty-four students were awarded a Project SEED one-year scholarship to fund their first year of college in a chemistry-related field. These scholarships were made possible with contributions from Alfred and Isabel Bader, the Ashland Inc. Endowment, the Bayer Foundation Endowment, and the Estate of Elizabeth Ernst Fosbinder. Three winners of the Project SEED Ciba Specialty Chemicals Scholarship - a 3-year renewable scholarship for students continuing in a chemistry-related field – will be selected over the summer.

Project SEED credits the numerous contributions from industry, academia, ACS local sections, ACS members, and the Project SEED Endowment.

Don L. Warner, Chair

Kimberly Agnew-Heard	Zachary S. Davis	Michelle L. Rivard
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Maria Bohorquez	Angela Hoffman	Barbara P. Sitzman
Bryan W. Boudouris	Susanne M. Lewis	Chuanbing Tang
Carolyn A. Burnley	Ajay V. Mallia	Alan E. Tonelli
Omar E. Christian	Terrence S. Neumann	Michelle L. Rivard

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Michael T.H. Cheng	Douglas S. Masterson	Judith F. Rubinson
Steven A. Fleming		

Consultant

Malcolm D. Prouty

Staff Liaison: Racquel Jemison

O. Public Relations and Communications
(joint with Board)

The Joint Board-Council Committee on Public Relations and Communications (CPRC) continues to focus on providing tools and resources for ACS members, local sections and divisions to more effectively communicate their activities and the value of chemistry to a variety of audiences. We have been working hard on the following:

- We have established a new subcommittee structure in an effort to focus energy on programming at national meetings (and regional meetings in the future) and to create communication best practices and tool kits for ACS members.
- The CPRC Public Relations Makeover Initiative is “up-and-running” and ready for business. Lead by the LSAC/DAC Public Relations Subcommittee, we have completed three local section (Richland, Philadelphia and Upper Peninsula) and two division (CHS and CHED) makeovers to date. We have received four new requests and we continue to look for local sections, divisions and committees who are interested in participating in the initiative. Interested groups should contact us at CPRCMakeovers@gmail.com.
- The 2019 Grady-Stack Award for Interpreting Chemistry for the Public was awarded to Sir Martyn Poliakoff, Ph.D., a research professor at the University of Nottingham (U.K.). A reception sponsored by CPRC in his honor will be held on Sunday, August 25, at the San Diego Convention Center, Pavilion Terrace from 5:15 pm – 6:45 pm.
- Any section that needs help communicating with public audiences is urged to contact CPRC staff liaison Sue Morrissey, ACS Director of Communications, for assistance (s_morrissey@acs.org).

Amber Charlebois, Chair

H.N. Cheng
Robert de Groot
Amina El-Ashmawy
Michael W. Fultz
Lynn Hogue
Hiroko I. Karan
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Preston MacDougall
John Malin
William Oliver
Susan D. Richardson
Alexa Serfis
Kathy Shaginaw
Brian G.R. Treco

Associates

Barbara L. Golden
Scott R. Goode
Steven C. Hayden
Mark E. Jones
Andrej Matsnev
Desiree Wineland

Consultant

Mike Lawrence

Staff Liaison: Susan R. Morrissey

P. Publications
(joint with Board)

The committee elected Jerzy Klosin as vice chair, who will serve in that capacity from March 29, 2019 to December 31, 2019.

The journal monitoring reports for *Biomacromolecules*, *ACS Biomaterials Science & Engineering*, *ACS Infectious Diseases*, *ACS Central Science*, *Organometallics*, *The Journal of Physical Chemistry A, B, C*, *The Journal of Physical Chemistry Letters*, *Environmental Science & Technology* and *Environmental Science & Technology Letters* were presented, discussed thoroughly and accepted with thanks. Editor reappointments were reviewed and recommendations to the ACS Board were made. The next publications to be monitored in Fall 2019 will be *Journal of Chemical & Engineering Data*, *Journal of Medicinal Chemistry*, *ACS Synthetic Biology*, and *Journal of the American Chemical Society*.

Division management reported on the ACS Conference of Editors that was held in January 2019, chaired by Professor Scott Miller, Editor-in-Chief of *The Journal of Organic Chemistry* and Vice Chair, Professor Jillian Buriak, Editor-in-Chief of *Chemistry of Materials*. Topics included updates on operational issues and a review of ongoing developments across all aspects of the Society's publishing activities. The theme for this meeting was "The Pursuit of Excellence" which featured speakers from among the editors, staff, and the president of the US National Academy of Sciences.

The committee briefly discussed the JBCCP Strategic Planning Retreat action items from its August 2018 meeting. Each sub-group will be prepared to report back at the committee's August 2019 Fall meeting.

Julia Laskin, Chair

Anthony W. Addison
Frank D. Blum
Stephanie L. Brock
Kay M. Brummond
Lin X. Chen
Paula Diaconescu
David A. Dixon
Jerzy Klosin

Xiaosong Li
Robert Y. Ofoli
John N. Russell, Jr.
Nicole S. Sampson
Gary B. Schuster
Richard V. Williams
Xueming Yang

Associate
Gregory N. Tew

Staff Liaison: Debra A. Davis

Q. Senior Chemists
(joint with Board)

The Senior Chemists Committee (SCC) is making significant progress toward achieving its Mission and Vision to address community needs and ambitions and improve lives using the knowledge and experience of senior chemists. SCC's theme for the year was highlighted in the July 15 issue of *Chemistry & Engineering News* in the article "Senior Chemists on the Move and Paying It Forward." The article shared the committee's new strategic goals and the pathway for accomplishing them. Local sections were encouraged to participate in a number of programs led by SCC to increase engagement and utilize the experience and expertise of senior chemists.

One of the highlights for the ACS San Diego Meeting is the "First 100 Years" celebration in honor of one of our most dedicated members, E. Gerald Meyer, who will become 100 years old this year. The program will take place on August 27; the Senior Chemists Committee and the ACS Divisions of Small Chemical Businesses, Business Development and Management, Chemical Education, Energy and Fuels, and the History of Chemistry will cosponsor the event.

SCC welcomes Dr. Ralph Keeling as the keynote speaker for the Senior Chemists Breakfast in San Diego on August 27. Dr. Keeling is a *Professor of Geochemistry at the Scripps Institution of Oceanography in LaJolla, CA*. His talk, "Let CO₂ Levels Do the Talking" will focus on the merit of framing the climate discussion around the buildup of CO₂ and its control. A clear understanding of what is happening with CO₂ is a useful starting point for appreciating what will be required to get the climate problem under control. Ralph is the son of Charles Keeling, creator of the famous Keeling Curve.

SCC is partnering with the Younger Chemists Committee for another "Networking with Chemistry Professionals Ice Cream Event" that will also take place during the ACS San Diego Meeting on August 25. Undergraduates, graduates, and younger professionals are invited to attend. Again, experienced chemists are asked to participate to provide guidance and information on careers in academia, industry, government, small businesses, and nonprofit sectors.

This year, 19 applications were received for the SCC Mini-Grant Program for Local Sections. All submissions were reviewed by the SCC Awards subcommittee and 16 were approved for funding. This program has been a valuable contributor to the increase of section senior chemists groups; 66 local section senior chemists committees were reported in 2018. Plans are underway for SCC visits to a few sections; a presentation on how to start a senior chemists group and plan activities will be made.

The Newsletter for Senior Chemists – A New Senior Chemists Chair, Glassblowing, Photography, and Chemical Angels – released in March before the ACS spring national meeting continued its success with 28.3% viewership. The summer issue of the newsletter was recently released in July and includes articles on diversity in retirement, teaching adults to read, conversations with international students, and updates from the ACS South Korean Chapter.

Arlene A. Garrison, Chair

Raymond P. Anderson
Ronald D. Archer
Roger F. Bartholomew
James L. Chao
Donald D. Clarke
Susan R. Fahrenholtz

Warren T. Ford
Herbert S. Golinkin
Lynn G. Hartshorn
Adriane G. Ludwick
E. Gerald Meyer
Kelly L. Moran

Anne T. O'Brien
J. Ernest Simpson
Jane V. Thomas
Edel Wasserman

Lawrence Barton
John R. Berg
John C. Freeman

Associates
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Valerie J. Kuck
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Sidney S. White, Jr.
Anna M. Wilson
Robert A. Yokley

Consultant
Thomas R. Beattie

Staff Liaison: Semora T. Johns Smith

R. Technician Affairs

The Fall meeting will be held on Sunday, August 25 at 8 AM at the Hilton Bayfront, and the open meeting will be held from 2 to 2:30 PM.

The committee over the past two years focus its attention on identifying and asking the question “Did you know: *there is a committee focused on industrial and academic non-PhD chemical professionals?*”

Historically, chemical technicians were considered to be “a pair of hands” in the laboratory, primarily tasked with routine or less-specialized work. The highest degree that “these hands” obtained was often a high school or perhaps an associate’s degree. In reality, the stakeholders of our committee are chemical technical professionals who typically possess BA, BS, or even MS degrees, and they play a vital role in production, quality control, and research laboratories.

Many of the stakeholders of the CTA committee are not only unaware of the benefits of ACS membership, attending national meetings, and our committee but don’t “self-identify” as a technician.

Through sponsored events and the activities of our three subcommittees (Professional Development, Awards and Recognitions, and Stakeholders Outreach Subcommittee), the committee is progressing towards its mission and vision statements.

At the 2019 spring meeting, we recognized a chemical technical profession, Laura Nielsen – Phillips 66, with the NCTA (National Chemical Technician Award) Laura has led the development of new synthetic pathways for the organic photovoltaic group. She developed an easily scalable procedure for making a new monomer, which led to a patent with her as lead inventor.

The committee selected the recipient the 2019 ChemLuminary, “*Best Event or Activity Organized by, or Benefiting, the Applied Chemical Technology Professional Community*” award, recognized at the ChemLuminary Award Ceremony in San Diego on August 27. CTA encourages all local sections and divisions that hold chemical technical professionals’ events to please submit information about them by self-nominate for the award, which recognizes activities focused on an audience of technicians and/or non-PhD Chemical Technical professionals. Some past winner awards have included: networking, industry tours, and career events.

The **Awards and Recognition Subcommittee** has increased awareness of CTA by reinvigorating and promoting the various awards the committee provides. In 2018, CTA launched its Leadership Development System Course Award. It covers the cost for two chemical technical professionals, who live within 200-miles of the location of each national meeting, to take an ACS Leadership Development System course at the meeting. We continued the program for the San Diego meeting. The subcommittee also continued the YCC/CTA travel award to the leadership institute.

We co-sponsored eight events at the Fall National meeting. These sponsorships serve not only to increase awareness of CTA but also build stronger connections with other parts of ACS, a critical component to a successful committee.

Professional Development Subcommittee, after two successful webinars, is planning the next activities in career development and benefits of ACS membership for the chemical technical professional.

Stakeholders Outreach Subcommittee, surveyed possible stakeholders, generated a list of the job titles and descriptions and plans to use the information for awards and other future activities development.

Contact us at cta@acs.org and join our **LinkedIn group: ACS Committee on Technician Affairs (CTA)** and follow us on **Twitter @cta_acs**.

Jennifer L McCulley, Chair

Kara M. Allen
Caleb J. Archambault
Kathy S. Clear
Erin M. Dotlich
Bryan K. Franklin
N. Eric Huddleston

Carol B. Libby
Jennifer R. McKenzie
John G. Palmer
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Associates

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Staff Liaison: Pierre “Cal” Trepagnier

S. Younger Chemists
(joint with Board)

Successful Spring Program

The Younger Chemists Committee (YCC) held a successful and productive meeting in Orlando, FL on March 30-31, 2019 that included the onboarding of new Associates that coincided with building on the initiatives from our strategic plan. After initial introductions and team building, the YCC welcomed Mindy Pozenel from Chemical Abstract Services (CAS) to discuss the role of her organization within the Society and to discuss CAS initiatives that impact younger chemists around the world. Following this discussion, President-Elect Luis Echgoyen met with the YCC to discuss his strategic initiatives and goals for his term within the ACS Presidential succession. We also had an engaging discussion with Assistant General Counsel Dave Smorodin on the ACS Sexual Harassment Prevention Policy, and how it relates to and is influenced by younger chemists. These discussions provided context, inspiration, and opportunities to work together on YCC activities planned over the next several months and years.

The Spring 2019 ACS National Meeting in Orlando highlighted numerous collaborations across the Society as the YCC continues to engage younger chemists on topics that matter to them. On Sunday, the YCC hosted a symposium on “Starting a Successful Research Program at a PUI” to help early career chemists start their academic careers on the right foot. That evening, we collaborated with the Diversity & Inclusion Advisory Board and several sister societies (*e.g.* NOBCCChE, AISES, SACNAS, *etc.*) during the Diversity Reception where we invited several young chemists from underrepresented minority groups to present their research and engage with invited industrial chemists. Monday morning kicked-off the traditional YCC Fun Run due in large thanks to our new corporate sponsor, DuPont. We continued our collaborative program by partnering with the Senior Chemists Committee (SCC) to host a “Networking with Chemical Professionals” social to huge success. The YCC also collaborated with the Division of Business Development and Management (BMGT) to host an installment of the BILL™ Talk Series on Tuesday evening before wrapping up the program on Wednesday with an all-day symposium featuring early career chemists working on research related to earth and space chemistry.

Looking Forward to Fall

The Fall 2019 ACS National Meeting in San Diego is poised to be another successful meeting as we have developed a program aimed at providing our constituents a memorable and impactful experience. On Sunday, the YCC will host a symposium, in collaboration with the International Activities Committee (IAC), celebrating the many younger chemists selected to be “elements” on the IUPAC Periodic Table of Younger Chemists in celebration of the International Year of the Periodic Table. The YCC will again hold the traditional Fun Run on Monday morning prior to hosting a panel discussion on “How to get your first industrial job” in collaboration with the Division of Professional Relations (PROF). The YCC program will conclude on Tuesday morning with another panel discussion on “Going with the Flow of Water: Career Paths and Journeys”.

New Career Program Proposed

The YCC continues to partner across the globe to address the needs of younger chemists on an international stage. The globalized chemical enterprise creates numerous challenges for younger chemists as they continue to develop leadership skills to improve their local communities. We have engaged in inclusive dialogue with partners, both inside and outside the Society, to better understand these challenges. The outcome is a new program we have proposed for permanent funding specifically tailored to help accelerate the careers of international younger leaders to bring the benefits of ACS to all members, both foreign and domestic. We welcome you to join us in continuing to foster the leaders of today to create the leaders of tomorrow.

Join us Online!

This fall, the YCC will be partnering with the ACS Webinars program to host our annual Catalyze the Vote Town Hall on Tuesday, October 1st at 2pm EST where younger members can engage candidates for ACS President-Elect on a variety of topics foundational to their campaigns prior to our official voting day on October 16th. We kindly ask you to encourage “younger chemists” of all ages to join us in “Catalyzing the Vote”!

The YCC website continues to be the best location to stay updated on activities for younger chemists on a local, regional, and national basis, so please visit <http://acsycc.org> to learn more about all the activities described above as well as ongoing events throughout the year. This, combined with our social media streams on [Facebook](#), [LinkedIn](#), [Instagram](#), and [Twitter](#) continue to serve younger chemists and their every changing needs, so please help us in connecting with our constituents and encourage younger chemists to reach out to us if ever in need. See you soon in San Diego!

Matt Grandbois, Chair

Juan C. Aponte-Santini
Ashley M. Blystone
Rajeev Chorghade
Christine E. Dunne
Katie J. Heroux
Jessica Hoy
John Kelly
Kristin M. Nuzzio
Jackie J. O’Neil

Stephanie K. Ramos
Marisa B. Sanders
Jennifer Schmitt
Jamie Schwarzbach
Dominique Williams
Katie Johnson
Michelle Brann
Phumvadee (Beau) Wangtrakuldee

Associates

Tabbatha Bohac
Joseph Houck
Felicia Lucci
Chris Miller
Logan Miller
Yuzki Oey

Stephanie Santos-Diaz
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Amber Wilson
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God’spower Onyenanu

Consultant

Allison Campbell

Staff Liaison: Michael David