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# **AMERICAN CHEMICAL SOCIETY**

## **Council Agenda**

**Wednesday, April 5, 2017  
8:00 AM**

**Grand Ballroom B**

**Hilton San Francisco Union Square Hotel**

**San Francisco, California**

COUNCIL  
 AMERICAN CHEMICAL SOCIETY  
 8:00 A.M., April 5, 2017  
 Grand Ballroom B  
 Hilton San Francisco Union Square Hotel  
 San Francisco, California

AGENDA

<u>ITEM</u>	<u>PAGES</u>
I. RESOLUTION HONORING DECEASED COUNCILORS	
II. APPROVAL OF MINUTES OF MEETING OF AUGUST 24, 2016 (attached).....	4-17
III. REPORT OF INTERIM ACTION, COUNCIL POLICY COMMITTEE (attached) .....	18
IV. NOMINATIONS AND ELECTIONS	
<b>FOR COUNCIL ACTION</b> { A. Nominations for President-Elect (attached).....	19-27
(1) Introduction of nominees for 2018 President-Elect (oral)	
B. Announcement of nominees, District Directors III and VI (attached).....	28
(1) Announcement of candidates, District Directors III and VI (oral)	
C. Announcement of candidates, Directors-at-Large (attached).....	29-32
D. Request for suggestions, 2019 Society director and officer nominations (attached).....	33-36
E. Ballot counts, previous elections (attached) .....	37
V. REPORTS OF OFFICERS	
A. President (attached and oral) .....	38
B. President-Elect (attached and oral) .....	39-40
C. Immediate Past President (attached and oral) .....	41
D. Chair of Board of Directors (attached and oral).....	42
(1) Minutes of the August 21, and Report from the December 2016 Board meetings (attached) .....	43-47
E. Executive Director (attached and oral) .....	48-56
(1) Report of the Governing Board for Publishing (attached).....	57
VI. REPORTS OF ELECTED COMMITTEES OF THE COUNCIL	
A. Council Policy Committee	
(1) Minutes of the August 23, 2016 meeting (attached) .....	58-61
(2) Oral report on current activities, Vice-Chair	
(3) Approval of Procedures for Removal of Officers and Councilors .....	62-63
(contingent on approval of the following petition)	
(4) Amendment to ACS Bylaws (attached)	
(a) Petition for Removal of Officers and Councilors .....	64-67
Bylaw III, Sec. 1, i; Bylaw VII, Sec. 1, c; Bylaw VIII, Sec. 4, d	
B. Committee on Committees (attached).....	68
(1) Oral report on current activities	
<b>FOR COUNCIL ACTION</b> ⇨ (2) Recommendation for continuation of selected committees (oral)	
(3) Request for suggestions for committee assignments (attached) .....	69
C. Committee on Nominations and Elections (attached) .....	70
(1) Oral report on current activities	
VII. REPORTS OF SOCIETY COMMITTEES AND THE COMMITTEE ON SCIENCE	
A. Committee on Budget and Finance (attached).....	71
(1) Oral report on current activities	
<b>FOR COUNCIL ACTION</b> ⇨ (2) Recommendation on membership dues for 2018 (attached) .....	72
B. Committee on Education (attached) .....	73
(1) Oral report on current activities	
C. Committee on Science (joint with Board) (attached) .....	74
(1) Oral report on current activities	

VIII. **Special Discussion Item**

- A. Joint Board-CPC Task Force on Governance Design:  
ACS Yesterday and Today: Paving the Way to Tomorrow (attached)..... **75**

IX. **REPORTS OF COUNCIL STANDING COMMITTEES**

- A. Committee on Economic and Professional Affairs (attached) ..... **76-77**  
(1) Oral report on current activities

- B. Committee on Meetings and Expositions (attached) ..... **78**  
(1) Oral report on current activities

- C. Committee on Divisional Activities (attached)..... **79**  
(1) Oral report on current activities

FOR COUNCIL  
ACTION

- ⇒ (2) Approval of the distribution formula for Division funding ..... **80**

- D. Committee on Local Section Activities (attached) ..... **81**  
(1) Oral report on current activities

FOR COUNCIL  
ACTION

- ⇒ (2) Change in Local Section Name  
(a) Santa Clara Valley (attached) ..... **82**

- E. Committee on Membership Affairs (attached) ..... **83**  
(1) Oral report on current activities

FOR COUNCIL  
ACTION

- { (2) Approval to extend the International Chapter Recruitment test (attached)..... **84**  
(3) Amendment to ACS Bylaws

- { (a) Petition on the Rights of Affiliates..... **85-87**  
Bylaw II, Sec. 1, a, 2, a, 3, b, (3) and (4)

- F. Committee on Constitution and Bylaws (attached) ..... **88**  
(1) Oral report on current activities

FOR COUNCIL  
ACTION

- ⇒ (2) Revision to Charter Bylaws for International Chemical Sciences Chapters ..... **89-98**

- (3) Amendment to ACS Bylaws

FOR  
CONSIDERATION  
ONLY

- { (a) Petition on International Chemical Sciences Chapters ..... **99-101**  
Bylaw IX, Sec. 4

X. **REPORTS OF OTHER COMMITTEES**

- A. Younger Chemists (joint with Board) (attached) ..... **102**

- B. Women Chemists (joint with Board) (attached and oral) ..... **103**

- C. Senior Chemists (joint with Board) (attached) ..... **104**

- D. Publications (joint with Board) (attached) ..... **105**

- E. Professional Training (joint with Board) (attached and oral) ..... **106**

- F. Nomenclature, Terminology, and Symbols (attached and oral) ..... **107**

- G. Minority Affairs (joint with Board) (attached) ..... **108**

- H. International Activities (joint with Board) (attached) ..... **109-110**

- I. Community Activities (joint with Board) (attached) ..... **111**

- J. Chemists with Disabilities (joint with Board) (attached) ..... **112**

- K. Chemistry and Public Affairs (joint with Board) (attached) ..... **113-114**

- L. Chemical Safety (joint with Board) (attached) ..... **115-116**

XI. **OLD BUSINESS**XII. **NEW BUSINESS**

- A. Resolution(s)

DRAFT  
MINUTES  
COUNCIL  
AMERICAN CHEMICAL SOCIETY  
August 24, 2016  
Philadelphia, Pennsylvania

The Council of the American Chemical Society met in Philadelphia, Pennsylvania, on August 24, 2016, beginning at 8:20 a.m. Donna J. Nelson, President of the Society and of the Council, presided. The following Councilors, Alternate Councilors, and accredited representatives were present:

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

**Bylaw:** Lynne P. Greenblatt, Anne T. O'Brien.

**Divisions:** *Agricultural & Food Chemistry*, Michael Appell, John W. Finley, Michael J. Morello, Agnes M. Rimando. *Agrochemicals*, Rodney M. Bennett, Jeanette M. Van Emon. *Analytical Chemistry*, Kimberly Agnew-Heard, Karl S. Booksh, Michelle V. Buchanan, Roland F. Hirsch. *Biochemical Technology*, Arindam Bose, Cynthia H. Collins\*, Sadettin Ozturk, Sharon P. Shoemaker. *Biological Chemistry*, Christine S. Chow, Wendy L. Kelly, Aimin Liu\*, Thomas J. Magliery. *Business Development & Management*, Janet L. Bryant. *Carbohydrate Chemistry*, Anthony S. Serianni. *Catalysis Science & Technology*, Anne M. Gaffney, Charles Peden, Israel E. Wachs. *Cellulose and Renewable Materials*, Kevin J. Edgar, Lucian A. Lucia. *Chemical Education*, Cheryl B. Frech\*, Sally B. Mitchell, Richard S. Moog\*. *Chemical Health & Safety*, Samuella B. Sigmann\*, Frankie K. Wood-Black. *Chemical Information*, Charles F. Huber\*, Svetlana Korolev, Bonnie Lawlor. *Chemical Toxicology*, Frederick A. Beland, Penny Beuning. *Chemistry & The Law*, James C. Carver, Alan M. Ehrlich. *Colloid & Surface Chemistry*, Jennifer A. Hollingsworth, John N. Russell, Jr.\*, Maria M. Santore. *Computers in Chemistry*, Luke E.K. Achenie\*, Terry R. Stouch\*, Ralph A. Wheeler. *Energy & Fuels*, Joe D. Allison, Semih Eser, Elise B. Fox, Lisa Houston. *Environmental Chemistry*, V. Dean Adams, Alan W. Elzerman, Jurgen H. Exner, Martha J.M. Wells. *Fluorine Chemistry*, David A. Dixon. *Geochemistry*, James D. Kubicki. *History of Chemistry*, Roger A. Egolf, Mary Virginia Orna. *Industrial & Engineering Chemistry*, Martin A. Abraham, Spiro D. Alexandratos, Mary K. Engelman, Melanie J. Moser. *Inorganic Chemistry*, Debbie C. Crans, Marina A. Petrukhina, Silvia Ronco, Sheila R. Smith\*. *Medicinal Chemistry*, Jane V. Aldrich, William J. Greenlee, Amy S. Ripka. *Organic Chemistry*, Huw M.L. Davies, Robert E. Maleczka, Jr.\*, Cynthia A. Maryanoff, Brian M. Stoltz. *Physical Chemistry*, Teresa L. Head-Gordon, Judy E. Kim\*, Kirk A. Peterson. *Polymer Chemistry*, Frank D. Blum, Mary Ann Meador, Robert B. Moore, John Pochan. *Polymeric Materials: Science & Engineering*, Benny D. Freeman, Julie L.P. Jessop, Theodore Provder\*, Dean C. Webster. *Professional Relations*, R. Daniel Libby. *Rubber*, John M. Long. *Small Chemical Businesses*, Joseph E. Sabol.

**Local Sections:** *Akron*, James E. Duddey, Daryl L. Stein. *Alabama*, Tracy P. Hamilton. *Ames*, Maria Bohorquez\*. *Auburn*, Christian R. Goldsmith. *Baton Rouge*, Bryan K. Franklin. *Binghamton*, Wayne E. Jones, Jr. *Brazosport*, Carolyn Ribes. *California*, G. Bryan Balazs, Mark D. Frishberg, Sheila Kanodia, Alex M. Madonik, Eileen M. Nottoli, Paul F. Vartanian, Xiaoxi Wei\*, Elaine S. Yamaguchi. *California Los Padres*, Payam Minoofar\*\*. *Carolina-Piedmont*, Matthew K. Chan, Daniel Rabinovich. *Central Arizona*, Douglas J.

\*Alternate Councilor

\*\*Temporary Substitute Councilor

Sawyer. *Central New Mexico*, Kristin M. Omberg, Donovan R. Porterfield. *Central New York*, Alyssa C. Thomas. *Central North Carolina*, Robert A. Yokley. *Central Ohio Valley*, Gary D. Anderson. *Central Pennsylvania*, Lori S. Van Der Sluys. *Central Texas*, Debra A. Feakes, Barry J. Streusand. *Central Utah*, Jennifer B. Nielson. *Central Wisconsin*, C. Marvin Lang. *Chattanooga*, Maurice Smith\*\*. *Chemical Society of Washington*, Allison Aldridge, Joseph M. Antonucci, Christopher W. Avery, Regina J. Cody, Richard M. Goodman\*, Monika I. Konaklieva, N. Bhushan Mandava\*, Kim M. Morehouse, Jason E. Schaff. *Chicago*, Charles E. Cannon, David S. Crumrine, Russell W. Johnson, Michael G. Koehler, Fran K. Kravitz, Margaret S. Levenberg, Milt Levenberg, Inessa Miller, Barbara E. Moriarty, Susan M. Shih. *Cincinnati*, Bruce S. Ault, Susan A. Hershberger\*, Richard J. Mullins. *Cleveland*, Dwight W. Chasar. *Coastal Georgia*, Will E. Lynch. *Colorado*, Susan MacGregor Batenhorst, Lawrence J. Berliner, Sandra J. Bonetti, Connie Gabel, Helen B. Gerhard\*, Susan M. Schelble. *Columbus*, Joan M. Esson, Edmund T. King, Virginia H. Songstad. *Connecticut Valley*, Ronald D. Archer, Kevin R. Kittilstved, Julianne M.D. Smist, Frank J. Torre. *Corning*, Roger F. Bartholomew. *Dallas-Fort Worth*, Jason L. McAfee, Denise L. Merkle\*, Linda D. Schultz, E. Thomas Strom. *Dayton*, Steven Trohalaki. *Decatur-Springfield*, Harry J. Elston. *Delaware*, John Gavenonis, Tiffany N. Hoerter, Martha G. Hollomon, Margaret J. Schooler. *Detroit*, Mark A. Benvenuto, James M. Landis, Jr., Anthony F. Sky. *East Central Illinois*, Amy Nicely. *East Tennessee*, Alan A. Hazari, John Z. Larese. *East Texas*, Philip Verhalen\*. *Eastern New York*, Mary K. Carroll, Warren D. Hull, Jr. *Eastern North Carolina*, Satinder Ahuja. *Erie*, Matthew S. Heerboth\*. *Florida*, Béla S. Buslig, George Christou\*. *Georgia*, Lissa Dulany, David S. Gottfried, Mark B. Mitchell\*, Terence E. Say, C. David Sherrill. *Greater Houston*, Carolyn A. Burnley, Lawrence W. Dennis, Amber S. Hinkle, Valerie Moore\*, Mamie W. Moy. *Green Mountain*, Willem R. Leenstra. *Hampton Roads*, Dmitry Liskin\*\*. *Heart O'Texas*, Darrell G. Watson. *Huron Valley*, Ellene T. Contis. *Idaho*, Raymond P. Anderson\*. *Illinois Heartland*, Gregory Ferrence. *Indiana*, Christina Bodurow, Beth Lorschach, Brian M. Mathes, Robert A. Pribush. *Indiana-Kentucky Border*, Jeffery W. Seyler. *Inland Northwest*, Jeffrey A. Rahn. *Kalamazoo*, Lydia E.M. Hines. *Kanawha Valley*, Madan M. Bhasin. *Kansas City*, Eckhard Hellmuth, Sarah J. Leibowitz\*. *Kentucky Lake*, Charles M. Baldwin. *LaCrosse-Winona*, Claude L. Mertzenich. *Lake Superior*, Donald K. Harriss. *Lehigh Valley*, Jeanne R. Berk, Lorena Tribe. *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*, Timothy Shannon\*\*. *Middle Georgia*, Robert J. Hargrove. *Mid-Hudson*, George W. Ruger. *Midland*, Tina M. Leaym, Dale J. LeCaptain. *Milwaukee*, Joseph J. Piatt. *Minnesota*, Marilyn Duerst, Sarah M. Mullins, Danae R. Quirk Dorr, Michael Wentzel\*, Wayne C. Wolsey. *Mobile*, Larry Yet\*. *Mojave Desert*, Peter Zarras. *Mo-Kan-Ok, The Tri-State*, Khamis S. Siam. *Montana*, Janice E. Alexander. *Nashville*, Kara M. Allen\*, Ruth A. Woodall. *Nebraska*, James M. Takacs. *New Haven*, Gerald J. Putterman, Kap-Sun Yeung. *New York*, Ronald P. D'Amelia, Barbara R. Hillery, Neil D. Jespersen, Hiroko I. Karan, Pamela K. Kerrigan, Patricia A. Redden, Jaimelee I. Rizzo, Frank Romano, Justyna Widera. *North Alabama*, Yu Lei\*. *North Carolina*, James L. Chao, Alexandra B. Ormond\*, Melissa A. Pasquinelli, Laura S. Sremaniak, Alan E. Tonelli\*. *North Jersey*, Amy M. Balija, Jeannette E. Brown, Alan B. Cooper, Jacqueline A. Erickson, Stan S. Hall, Elizabeth M. Howson, Diane Krone, Les W. McQuire, Monica R. Sekharan, William H. Suits. *Northeast Georgia*, Maurice E. Snook\*. *Northeast Tennessee*, John Engelman, II. *Northeast Wisconsin*, Martin D. Rudd. *Northeastern*, Michaeline F. Chen, Mukund S. Chorghade\*, Michael P. Filosa, Patrick M. Gordon\*, Morton Z. Hoffman, Leland L. Johnson, Jr.\*, Doris I. Lewis, Robert L. Lichter, Patricia A. Mabrouk, Kenneth C. Mattes\*, S. B. Rajur\*, Andrew Scholte\*, Mary Jane Shultz, Michael Singer, Ruth E. Tanner. *Northeastern Ohio*, Sarah S. Preston. *Northern New York*, Rajesh Sunasee\*. *Northern Oklahoma*, Maziar Sardashti. *Northern West Virginia*, Edwin L. Kugler\*. *Northwest Louisiana*, Ernest W. Blakeney, Jr.\*\*. *Oklahoma*, Allen W. Apblett. *Ole Miss*, Jason E. Ritchie. *Omaha*, Richard Lomneth. *Orange County*, Robert S. Cohen, Sanda P. Sun, Sandra P. Thompson\*. *Oregon*, Richard L. Nafshun. *Orlando*, Darlene K. Slattery. *Ozark*, Eric Bosch. *Panhandle Plains*, Mary E. Graff. *Penn-Ohio Border*, Doris L. Zimmerman. *Pensacola*, Allan M. Ford. *Permian Basin*, Kathryn Louie. *Philadelphia*, Anthony W. Addison, Georgia Arbuckle-Keil, Melissa B. Cichowicz, Deborah H. Cook, Ella L. Davis, Anne S. DeMasi, Rick Ewing, Mark A. Forman, Kathryn Lysko, James K. Murray, Jr., John Tierney. *Pittsburgh*, Michelle Coffman\*, Richard S. Danchik, Robert Mathers, Vincent M. Mautino. *Portland*, Warren T. Ford\*. *Princeton*, Allen N. Jones, Louise M. Lawter. *Puerto Rico*, Néstor M. Carballeira, Jorge L. Colón\*. *Puget Sound*, Gary D. Christian, Craig B.

Fryhle, Gregory L. Milligan, Despina Strong, Mark Wicholas. *Purdue*, Suzanne C. Bart. *Red River Valley*, Harmon B. Abrahamson. *Rhode Island*, Peter J. Bonk. *Richland*, Richard A. Hermens. *Rio Grande Valley*, Michael D. Johnson. *Rochester*, D. Richard Cobb, Todd E. Pagano. *Rock River*, Dennis N. Kevill. *Sabine-Neches*, John A. Whittle. *Sacramento*, John R. Berg. *St. Louis*, Lisa M. Balbes, Lawrence Barton, Donna G. Friedman, Theodore C. Gast. *San Antonio*, Larry C. Grona. *San Diego*, Thomas R. Beattie, Hui Cai, Desiree Grubisha, John G. Palmer, J. Kenneth Poggenburg, Jr., David M. Wallace. *San Gorgonio*, Eileen M. DiMauro, J. Ernest Simpson. *San Joaquin Valley*, Hubert Muchalski\*\*. *Santa Clara Valley*, Bonnie A. Charpentier, George J. Lechner, Sally B. Peters, Peter F. Rusch, Herbert B. Silber, Heidi R. Vollmer-Snarr\*, Ean Warren. *Savannah River*, Christopher J. Bannochie. *Sierra Nevada*, Laina M. Geary. *Sioux Valley*, Jetty L. Duffy-Matzner. *Snake River*, Don L. Warner. *South Carolina*, William H. Breazeale, Jr., Scott R. Goode. *South Florida*, Milagros Delgado, Lisa V. Milenkovic\*, Zaida C. Morales-Martinez. *South Jersey*, Jennifer L. McCulley. *South Texas*, Jingbo Louise Liu\*. *Southeastern Pennsylvania*, Gregory P. Foy. *Southern Arizona*, Brooke B. Massani\*. *Southern California*, Brian B. Brady, Robert de Groot, Thomas R. LeBon\*, Sofia Pappatheodorou\*, Eleanor D. Siebert, Barbara P. Sitzman. *Southern Illinois*, Rachel Morgan Theall. *Southern Nevada*, Kazumasa Lindley. *Southwest Georgia*, Jesse G. Spencer. *Susquehanna Valley*, Dee Ann Casteel. *Tampa Bay*, Marie Bourgeois, Sidney S. White, Jr.\*. *Texas A&M*, David E. Bergbreiter. *Toledo*, Katherine A. Wall\*. *Trenton*, Benny C. Chan, Matthew C. Crowe. *University of Arkansas*, Colin Heyes\*. *University of Missouri*, Justin R. Walensky. *Upper Ohio Valley*, Kevin Pate. *Upper Peninsula*, Martin Thompson\*. *Virginia*, Kristine S. Smetana, Ann M. Sullivan, Linette M. Watkins. *Wabash Valley*, Edward A. Mottel. *Wakarusa Valley*, Joseph A. Heppert. *Washington-Idaho Border*, Richard V. Williams. *Western Carolinas*, Lucy P. Eubanks, George L. Heard. *Western Connecticut*, Linda Farber, L. Kraig Steffen. *Western Maryland*, Peggy S. Biser. *Western Michigan*, Mark A. Thomson. *Wichita*, D. Paul Rillema. *Wichita Falls-Duncan*, Keith R. Vitense. *Wilson Dam*, Michael B. Moeller. *Wisconsin*, Martha L. Casey, Ieva L. Reich. *Wyoming*, Jane V. Thomas.

**Nonvoting Councilors:** Elizabeth P. Beckham, Brian A. Bernstein, Paul A. Bouis, Anna G. Cavinato, Mark C. Cesa, Wendy D. Cornell, Denise L. Creech, Alicia E. Harris, Madeleine Jacobs, Mary M. Kirchoff, Natalie LaFranzo, Jennifer Maclachlan, Michael B. McGinnis, Anthony M. Noce, Christi Pearson, Barbara F. Polansky, Max B. Saffell, David T. Smorodin, Simanco R. Staley, Frank E. Walworth, Marleen G. Weidner.

The preceding list of attendees at the Council meeting includes the following: 31 Ex- Officio Councilors; 2 Bylaw Councilors; 84 Division Councilors (71 elected, 13 alternate); 320 Local Section Councilors (271 elected, 43 alternate, 6 temporary); and 21 Nonvoting Councilors (staff and others). Approximately 55 observers were in attendance.

### Resolutions

The Council ADOPTED the following resolution presented by the Council Policy Committee (CPC) Vice-Chair Alan M. Ehrlich:

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

- Dr. Karl S. Vorres, retired from Argonne National Laboratory, Councilor for the Division of Fuel Chemistry from 1990 to 2000.
- Dr. Malcolm H. Chisholm, distinguished university professor and chair of the department of chemistry and biochemistry, Ohio State University, Councilor for the Southern Indiana Section from 1997 to 1999.
- Dr. George H Wahl, Jr., professor emeritus, North Carolina State University, Councilor for the Chemical Health & Safety Division from 1997 to 2005 and 2008 to 2010.

- Dr. Elizabeth M. Derrick, professor emeritus, Valdosta State University, Councilor for the Southwest Georgia Section from 1994 to 2011.
- Dr. Marshall Phillips, research chemist, U.S. Department of Agriculture National Animal Disease Center, Councilor for the Division of Agricultural and Food Chemistry from 1992 to 2009.
- Dr. John G. Verkade, university professor, department of chemistry, Iowa State University, Councilor for the Ames Section from 1974 to 1987 and Ex Officio Councilor (Board Member, District V) from 1987 to 1994.
- Dr. Mordecai D. Treblow, senior scientist, Mead Imaging, Councilor for the Pittsburgh Section from 1984 to 1992 and 1997 to 2002 and Ex Officio Councilor (Board Member, District II) from 1992 to 1995.
- Dr. Christine H. Jaworek-Lopes, associate professor of chemistry, Emmanuel College, Councilor for the Northeastern Section from 2006 to 2008 and 2015 to 2016.
- Dr. Kimberly O. Pacheco, professor, department of chemistry and biochemistry, University of Northern Colorado, Councilor for the Colorado Section from 2003 to 2011.

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

#### Approval of Minutes

2. VOTED to approve, as amended, the minutes of the meeting of March 16, 2016.

#### Election of Members to Elected Committees

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

3. In accordance with the provisions of Bylaw III, Sec. 3, a, (3), the Committee on Nominations and Elections presented the following nominees for election to membership on the Council Policy Committee (CPC) beginning in 2017: Harmon B. Abrahamson, Karl S. Booksh, Dwight W. Chaser, Ella L. Davis, Lissa A. Dulany, Gregory M. Ferrence, John W. Finley, Doris L. Lewis, Kim M. Morehouse, Barbara E. Moriarty, Sally B. Peters, Martin D. Rudd, Julianne M. D. Smist, and Andrea B. Twiss-Brooks. By electronic ballot, the Council ELECTED Harmon B. Abrahamson, Lissa A. Dulany, Andrea B. Twiss-Brooks, and Sally B. Peters for a 2017-2019 term, Martin D. Rudd for a 2017-2018 term, and Karl S. Booksh and Ella L. Davis for a one-year term, 2017.

4. In accordance with the provisions of Bylaw III, Sec. 3, b, (3), CPC presented the following nominees for election to membership on N&E beginning in 2017: Anthony W. Addison, Spiro D. Alexandratos, Lisa M. Balbes, Alan M. Ehrlich, Stan S. Hall, Alan A. Hazari, Amber S. Hinkle, Neil D. Jespersen, James M. Landis, Jr., Thomas H. Lane, Will E. Lynch, and V. Michael Mautino. By electronic ballot, the Council ELECTED Lisa M. Balbes, Thomas H. Lane, Amber S. Hinkle, Alan M. Ehrlich, and Alan A. Hazari for a 2017-2019 term and Neil D. Jespersen for a one-year term, 2017.

**Les W. McQuire**, vice-chair, N&E, introduced the candidates for election to the Committee on Committees (ConC):

5. In accordance with the provisions of Bylaw III, Sec. 3, c, (3), N&E presented the following nominees for election to membership on ConC beginning in 2017: Gary D. Anderson, Sandra B. Bonetti, Dee Ann Casteel, D. Richard Cobb, Jacqueline A. Erickson, Emilio X. Esposito, Robert J. Hargrove, Martha G. Hollomon, Wayne E. Jones, Jr., and Stephanie J. Watson. By electronic ballot, the Council ELECTED Wayne E. Jones, Jr., D. Richard Cobb, Stephanie J. Watson, Dee Ann Casteel, and Emilio X. Esposito for a 2017-2019 term.

Reports of Society Officers

**President Donna J. Nelson** updated Council on several activities at this national meeting in Philadelphia. There were 10 presidential symposia at this meeting, each organized in response to the concerns of various ACS member communities. Five programs celebrated agreements signed between ACS and other scientific societies – the Chinese Chemical Society, National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCChE), the Mexican Chemical Society, the Chinese American Chemical Society, and the Atlantic Basin Conference on Chemistry.

Dr. Nelson also reported that in conjunction with the “Diversity - Quantification - Success” symposium held last March in San Diego, a video of Dr. Vaneica Young was created. Dr. Young is the first and currently the only female Black professor to have risen through faculty ranks and retired from a chemistry department of a top research university in the U. S. The theme of the San Diego meeting was “Computers in Chemistry.” Dr. Young and her computer scientist sister were filmed together because they were very close and influenced each other’s lives and careers significantly. Capturing histories of such role models who are the first to achieve such milestones helps to build minority communities in science.

Dr. Nelson concluded her report by providing background information on the special discussion item on the agenda later for this meeting. She stated that Council will hear some results selected as the most important from topics such as supply and demand, career opportunities for undergraduate professionals, preparing graduates for industry, unemployment challenges, and global factors. Councilors will be able to suggest additional points which merit attention.

**President-Elect Allison A. Campbell** provided an update on her presidential symposia and initiatives for 2017. For the spring national meeting next April in San Francisco, she has organized two symposia, “Science for a Sustainable Energy Future” and “Holy Grails in Chemistry - Celebrating the 50th Anniversary of *Accounts of Chemical Research*.” There will be two symposia at the fall meeting in Washington, D.C. - “The Chemistry of Our Planet” and “Building a Safety Culture across the Chemical Enterprise.”

Dr. Campbell has grouped her initiatives around science advocacy and literacy. She has established a working group to plan approaches to educate congressional stakeholders and advocate for the importance of chemistry. The group is partnering with the Committee on Public Affairs & Public Relations and the Office of Public Affairs to ensure alignment of effort and to reach the largest possible audience throughout the initiatives. Additionally, a course on teaching ACS members how to effectively communicate their science to the general public has been developed and will debut within the ACS Career Navigator in September.

As part of her presidential theme, “Chemistry as a Global Enterprise,” Dr. Campbell reported that she continues to work with the Committee on International Activities to further promote collaborations between ACS members and scientists around the globe. A successful workshop in Kuala Lumpur took place earlier this year to develop a Global Chemists’ Code of Ethics.

**Immediate Past President Diane Grob Schmidt** provided an update on several key agreements stemming from her October 2015 meeting with the Cuban Chemical Society. In June, ACS hosted Luis Montero, Dionisio Silva, and Carlos Rodriguez, members of governance from the Cuban Chemical Society, for a high-profile panel discussion at the National Press Club on U.S.-Cuba scientific collaborations. Panelists included Dr. Vaughn Turekian, Science and Technology Advisor to the U.S. Secretary of State, Dr. Luis Echegoyen from the University of Texas-El Paso, and Ms. Kathleen Larmett of the National Council of University Academic Researchers. The Cuban scientists were able to meet with senior leaders from the American Physical Society, Materials Research Society, American Society for Microbiology, American Association for the Advancement of Science, National Science Foundation, the House Science, Space and Technology Committee, and science attachés from dozens of



foreign embassies. Another outcome of this great collaboration has been the successful symposium in Philadelphia honoring the legacy of Dr. Ernest Eliel.

Dr. Schmidt also reported that the Kavli Symposium on Chemical Neurotransmissions held at this meeting was a great success. This session, co-organized by Drs. Anne Andrews and Paul Weiss, focused on the grand challenge put forth by the White House through the BRAIN Initiative – a comprehensive effort to accelerate technologies for studying the brain at the overlap between neuroscience, nanoscience, and big data.

Dr. Schmidt concluded her final report to Council as member of the presidential succession by thanking the Council and the Society as a whole, saying that serving the Society has been the most rewarding highlight of her career.

**Board Chair Pat N. Confalone** reported that at this national meeting, the Board of Directors considered a number of key strategic issues and responded with several actions. The Board received and discussed reports from the Task Force on Governance Design, the Committee on Grants and Awards, the Committee on Planning, the Society Committee on Budget and Finance, and the ACS Governing Board for Publishing.

The Board voted to approve the Society's nominees for the 2017 Perkin Medal, the 2017 National Science Board Public Service Award, and the 2017 Alan T. Waterman Award; the revised rescission procedures for the national awards and ACS Fellows designation; the reappointment of editors-in-chief for two ACS journals; the advance member registration fee of \$445 for national meetings held in 2017; and also authorized several program funding requests.

Dr. Confalone shared that the Board is seeking ways to engage ACS stakeholders to identify opportunities and issues for governance improvement that will enable ACS to advance its mission in a streamlined and simplified manner. The Board and CPC are creating a new task force that will look at the Society's future governance needs. Per the Board's discussion, the chair's report to Council provided additional details on a proposed Society-wide initiative to ensure an agile, efficient, and effective ACS. Additionally, the Board is considering proposed changes to certain Board committees' duties and roles.

The Board discussed the history, role, and contributions of its Standing Committee on Corporation Associates and the responsibility of ACS to effectively capture the needs of industrial members and their corporations.

The presidents of Chemical Abstracts Service (CAS) and the ACS Publications Division shared with the Board details on their financial performance and highlighted editorial and new product developments. Executive Director and Chief Executive Officer Thomas M. Connelly, Jr., and his direct reports updated the Board on issues relating to Human Resources, ACS Finances, and Education.

The Board heard reports from members of the presidential succession on their key priorities and activities as they relate to those of the Board and for the purposes of coordinating their ongoing activities on behalf of the Society.

**Executive Director and Chief Executive Officer Thomas M. Connelly, Jr.,** reported on a number of important developments across the Society. He stated that he is committed to reversing the five-year decline in membership; international membership now constitutes 17 percent of our total; the Corporation Associates program is being updated and strengthened; new alliances are being implemented with sister societies in Europe, Mexico, China, and India, and in the U.S. with the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE) and the Chinese American Chemical Society; the first-ever Atlantic Basin Conference on Chemistry will be held in January 2018; ACS Publications and CAS continue to perform well; chemical laboratory safety is receiving needed emphasis within the Society; and the Society's financial performance remains strong.

Reports of Elected Committees

Council Policy Committee (CPC)

**Alan M. Ehrlich**, committee vice-chair, reported that the committee agreed to participate in the joint Board-CPC Task Force on Governance Design, as reported previously by Board Chair Pat N. Confalone. Additionally, the first meeting of the CPC Future Council Representation Working Group was held to address the question: “What would Council look like if we created it from scratch?”

Dr. Ehrlich reported that CPC voted to concur with ConC’s proposal to increase the size of the Committee on Ethics from nine to 12 members; supported the Committee on Membership Affairs’ Petition To Extend the Unemployed Members’ Dues Waiver; continued to sponsor the Petition for Removal of Officers and Councilors, and approved at this meeting the edited procedures document; supported the Petition on the Rights of Affiliates and recommended that N&E develop guidance for units whose bylaws allow voting in their unit elections by affiliates. CPC voted to establish a working group to formalize procedures for Council handout approvals. CPC approved a request from the Committee on Nomenclature, Terminology, and Symbols to participate in the travel reimbursement program for Non-Councilors.

Committee on Committees (ConC)

**Wayne E. Jones, Jr.**, committee chair, reported that performance reviews for the Committees on Analytical Reagents and Chemical Abstracts Service have been completed and are on the Council agenda for action.

6. VOTED to approve the continuation of the Committee on Analytical Reagents; and to approve the continuation of the Committee on Chemical Abstracts Service, subject to confirmation by the Board of Directors.

Dr. Jones also reported that the ConC Subcommittee on Diversity has been conducting a demographic survey of the 29 Council-related committee personnel. On July 26, the survey was officially launched and was sent to 680 committee personnel that included committee chairs, members, associates, and consultants. The committee is currently developing its recommendations for 2017 committee chairs, members, associates, and consultant appointments for consideration by the President-Elect and the Chair of the Board of Directors. ConC will also conduct its annual New Chairs Training Session in Dallas, Texas, January 27-29, 2017, as part of the ACS Leadership Institute.

On behalf of Council, ConC recognized 38 Councilors who will have served the statutory limit or otherwise completed their service on ACS governance committees at the end of 2016; six committee chairs who will have served the statutory limit on the committee they chair; and 32 Councilors observing 15, 20, 25, 30, 35, or 40 years of service as members of the Council.

Nominations and Elections (N&E)

**D. Richard Cobb**, committee chair, reported the results of the morning’s elections to the Council Elected Committees (see items 3-5).

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

Ballots for the 2016 fall national election will be mailed on September 28, with a voting deadline four weeks later by October 28. Members will have the option to vote electronically or by paper ballot. Mr. Cobb then announced the names of candidates for President-Elect (2017), Directors-at-Large (2017-19), District II Director (2017-19), and District IV Director (2017-19).

The committee developed slates of potential nominees for President-Elect for 2018 and Directors of Districts III and VI for 2018-2020, as well as a slate of potential candidates for Director-at-Large for 2018-2020.

N&E received reports from its subcommittees and the Vote 2020 Task Force. The Vote 2020 Task Force is part of a multiyear, multiphase effort to take a holistic look at the entire ACS national election process and to seek input and study new concepts in which to run ACS elections by the year 2020.

#### Reports of Society Committees and the Committee on Science

##### Budget and Finance (B&F)

**Kristen M. Omberg**, committee chair, reported that B&F reviewed the Society's 2016 probable year-end financial projection, which expects a Net Contribution from Operations of \$17.3 million, or \$3.9 million more than the Approved Budget. Total revenues are projected to be \$528.8 million, essentially on budget, and 3.3 percent more than the prior year. Total expenses are projected at \$511.5 million, which is favorable to the Approved Budget, and 3.3 percent more than 2015.

The committee considered several program funding requests for 2017, and on its recommendations, the Board subsequently approved funding for the Atlantic Basin Conference on Chemistry, the ChemIDP Program, and the International Student Chapter Program.

##### Education (SOCED)

**Diane Krone**, committee chair, reported that the committee received an update from government affairs staff in the Office of Public Affairs on federal science education policy and voted to continue the current Science Education Policy Statement.

The committee was informed of recent activities related to the American Association of Chemistry Teachers (AACT). More than 3,900 individuals, 88 percent of whom are K-12 teachers, are now AACT members. This represents a 20 percent increase in membership since spring.

SOCED discussed the process of Society Program Portfolio Management (SPPM) and passed a resolution that recognizes the value of regular review along with its concern that reporting requirements may be diverting staff time from education programs. SOCED recommends a careful review of the time needed for the SPPM process.

##### Science (ComSci)

**Mark C. Cesa**, committee chair, reported that ComSci recently completed a series of three forums on the emerging field of advanced materials, focused on energy, computation, and cross-sector partnerships, and featuring experts from academia, industry, and government. The committee is developing a document that would include key principles and success stories of strategic, chemistry-related university-industry collaborations. ComSci voted to recommend Board approval of a policy statement on forensics that updates the original statement from 2013 and to recommend Board approval of a revised policy statement on chemical regulation. The committee submitted an ACS Board-approved nomination for the 2016 Presidential National Medal of Science and has begun work on new nominations for both the 2017 National Medal of Science and the Dreyfus Award.

##### Special Discussion

The Council conducted a special discussion to gather input on proposed recommendations from the ACS Presidential Task Force on the U.S. Employment of Chemists. In her introductory remarks, Dr. Nelson stated that the task force has been examining and considering all known influences that can impact employment in the chemical sciences. In preparation for the report's expected release later this year, Councilors were invited to share their thoughts and comments on the proposed suggestions to date as shown

on the screens. Nearly 30 Councilors offered comments or made suggestions. Dr. Nelson concluded the discussion by thanking the Council and said a summary would be sent to the task force.

### Reports of Standing Committees

#### Meetings and Expositions (M&E)

**John Pochan**, chair, reported that M&E accepted more than 9,000 papers for the Philadelphia meeting. As of the Council meeting, total attendance for the meeting was 12,800. The Exposition had 432 booths with 300 exhibiting companies. As part of M&E's comprehensive sustainability plan, print copies of the program book for Philadelphia were significantly reduced and a limited number were available for sale. Statistics show that 1,248 program books were sold. The mobile application has received 4,891 downloads, and the online program has received 2,543 downloads.

#### Divisional Activities (DAC)

**Rodney M. Bennett**, committee chair, reported that the committee is pursuing three primary goals over the coming years: enhancing communication with divisions; developing better ways for divisions to communicate with one another; increasing the percentage of ACS members who belong to at least one division to 66 percent by 2020 (from 36 percent at year-end 2015); and enhancing collaboration and networking among divisions.

Mr. Bennett also reported that at the spring 2017 national meeting, DAC will present to Council for its approval an updated formula for allocating dues funds to the divisions; DAC has received proposals seeking the establishment of two new probationary divisions: the Division of Space Chemistry and the Division of Materials Chemistry; and the committee voted to fund 11 Innovative Project Grants (IPG) totaling nearly \$69,000.

#### Local Section Activities (LSAC)

**Martin D. Rudd**, committee chair, announced that LSAC presented the 2015 Awards for Outstanding Performance for Local Sections to six sections at the 18th Annual ChemLuminary Awards celebration.

LSAC will award 19 Innovative Project Grants (IPG) this year, totaling \$30,300. This brings the total for 2016 to \$69,230. A total of \$15,600 was awarded to eight local sections hosting Leadership Development courses.

The committee received two petitions from local sections wishing to annex unassigned and adjacent territory.

7. VOTED to approve a petition from the Permian Basin Local Section to annex the Texas counties of Pecos and Brewster.

8. VOTED to approve a petition from the Upper Peninsula Local Section to annex the unassigned Michigan counties of Alger, Delta, Dickenson, Schoolcraft, Luce, Mackinac, and Chippewa, and Menominee County that is currently assigned to the Northwest Wisconsin Local Section.

#### Membership Affairs (MAC)

**James M. Landis**, committee chair, reported that as of June 30, the ACS membership was just over 155,000, and the number of international members has increased to more than 26,000. The Society's overall retention rate is 84 percent. MAC discussed ways to serve technicians, high school and two-year college students, and faculty. MAC also discussed potential joint ACS and AACT memberships and requested staff to provide recommendations at the spring national meeting.

MAC reviewed the Petition for Removal of Officers and Councilors and cannot make a recommendation because of a lack of consensus. MAC also reviewed the Petition on the Rights of Affiliates and unanimously supported it.

MAC has considered the Petition to Extend the Unemployed Members' Dues Waiver, which is up for action at this meeting. The committee supports the petitioners' intent to extend the unemployed members' dues waiver from two years to three years. MAC supports the alternate version of the petition as presented.

9. VOTED to approve a petition to amend the ACS Bylaws to extend the Unemployed Members' Dues Waiver, which will extend waivers for unemployed members' dues from the current two years to three years, subject to confirmation by the Board of Directors.

#### Economic and Professional Affairs (CEPA)

**William (Rick) Ewing**, committee chair, reported that data from the 2016 ACS Comprehensive Salary and Employment Survey show a drop in the ACS chemist unemployment rate to 2.6 percent. This represents the lowest unemployment rate since before the 2008 recession and shows parity with the U.S. college graduate unemployment rate, which also stands at 2.6 percent for 2016. For the first time, the largest employment segment for ACS members in the workforce is academia with that group passing manufacturing industry in the 2016 survey. The other workforce categories remained essentially unchanged.

Dr. Ewing then drew Council's attention to the *Chemical Professional's Code of Conduct*, which was presented to Council for consideration last spring. He stated that CEPA is aware of ongoing initiatives around both safety and a global code of ethics and is monitoring their progress to ensure that the subsequent edition of the *Chemical Professional's Code of Conduct* takes these items into account as they are completed. CEPA's current revisions to the document are important to enact now to ensure continued relevancy of the document: specifically, the inclusion of temporary workers and the addition of safety to the first paragraph, which are both absent from the current version.

10. VOTED to approve the *Chemical Professional's Code of Conduct*, subject to confirmation by the Board of Directors.

#### Constitution and Bylaws (C&B)

**James C. Carver**, committee chair, reported that C&B has certified bylaws for nine local sections and one division since the beginning of this year. Since the spring meeting in San Diego, C&B has responded to eight local sections with bylaw reviews and expedited bylaws.

Mr. Carver then called Council's attention to two action items from the committee: Charter Bylaws for Divisions in Probationary Status and Charter Bylaws for New Local Sections, which provide a framework for the operation of new divisions and local sections. In addition to housekeeping changes, changes to the Society's Bylaws necessitated modifications to the charter bylaws, which were last approved by Council in 2009.

11. VOTED to approve the Charter Bylaws for Divisions in Probationary Status.

12. VOTED to approve the Charter Bylaws for New Local Sections.

New petitions to amend the Constitution or Bylaws must be received by the Executive Director no later than December 14 to be included in the Council agenda for consideration at the spring 2017 meeting in San Francisco.

Reports of Other and Joint Board-Council Committees

Younger Chemists (YCC)

**Natalie LaFranzo**, chair, reported that at this meeting that YCC focused its efforts on ensuring sustainable collaborative programming to provide valuable learning opportunities for its constituency and planned its strategy for increasing younger member involvement in the ACS national election. “Catalyze the Vote” will feature a Live Virtual Town Hall where younger members are able to ask questions of the candidates for ACS President-Elect in an interactive forum.

Women Chemists (WCC)

**Amber Charlebois**, chair, stated that the committee will observe its 90th anniversary in 2017 and will be revising its strategic plan. In 2016, WCC invested much of its energy in both promoting and recognizing the professional accomplishments of women in the Society.

WCC is partnering with the ACS Board Standing Committee on Grants and Awards and the Diversity and Inclusion Advisory Board to increase the number and quality of nominations for ACS National Awards from underrepresented groups. ACS National Awards nominees were 17 percent female in 2017, compared with 14 percent female in 2016. ACS membership is 29 percent female. Dr. Charlebois reminded Councilors that every local section, division, and Councilor needs to be part of the solution.

Senior Chemists (SCC)

**Thomas R. Beattie**, chair, highlighted some of the committee’s recent programming activities as SCC strives to provide senior ACS members with challenging and enjoyable professional experiences that enable them to contribute to their communities. SCC received a demonstration of the Senior Chemists Group on the ACS Network, which was updated to encourage networking among senior chemists. Plans are under way for a symposium focused on stories of early industrial chemistry to be held at the 2017 national meeting in San Francisco, organized in partnership with YCC and the Division of the History of Chemistry. The SCC mini-grant program was extended in 2016 to increase the number of local section senior chemist committees over the next three years.

Public Relations and Communications (CPRC)

**Jennifer L. Maclachlan**, chair, shared several important take-home messages from its cosponsored symposium, “Chemists & the Public: What Research Shows about Engagement & Communication”: ACS members and scientists in other fields show a lot of engagement with the public, but chemists are somewhat less likely than others to engage; scientists, including chemists, want to engage, but they also want to feel that they have the skills to be effective; university chemists are more willing to engage than those in industry; and scientists feel they do a so-so job at engagement, but they think outreach can make a difference. CPRC will be studying these and other reports with the goal of developing training and tools that will help ACS members and entities be effective communicators with a variety of public audiences.

Project SEED (SEED)

**Anna G. Cavinato**, chair, announced another successful SEED program in 2016 with the participation of 421 high school students. These students are currently placed in over 120 laboratories across the nation under the supervision of over 400 volunteer scientists and coordinators.

A task force has been formed to organize events to mark the 50th anniversary of Project SEED in 2018. The committee has set an ambitious goal to expand the program to all 50 states.

### Minority Affairs (CMA)

**Madeleine Jacobs**, chair, reported that the committee sponsored or cosponsored a record five symposia and a luncheon at this meeting. This robust co-programming is aimed at diversifying speakers at national meeting symposia through several efforts: encouraging divisions to include language on their websites that encourages speakers from underrepresented groups to submit papers; requesting symposia organizers to proactively reach out to underrepresented minorities to invite their participation in technical programming at national meetings; and creating a directory on its website that can be used as a resource to create more diverse conference and symposium speakers lists. Ms. Jacobs also reported that to date a total of 2,840 students have taken part in the ACS Scholars Program, and 264 of these Scholars have received their Ph.Ds. in the chemical sciences and engineering. CMA continues to collaborate with the ACS Development Office to work toward building an endowment for the program.

### International Activities (IAC)

**Ellene T. Contis**, chair, reported that at this meeting IAC was host to dignitaries from international sister societies and partners, and was involved in several professional, scientific, and global networking events, many organized as ACS presidential activities. These events and associated meetings helped to formulate a pathway forward for ACS to be more welcoming of chemists, chemical engineers, and chemistry educators with international interests and for connecting ACS members with the global practice of chemistry.

On behalf of the committee, Dr. Contis sought Council approval for the establishment of ACS International Chemical Sciences Chapters in China National Capital Area (JingJinJi), Iraq, and South Western China. The applications meet all requirements of Bylaw IX.

13. VOTED to approve the establishment of the Greater Beijing International Chemical Sciences Chapter, subject to confirmation by the Board of Directors.

14. VOTED to approve the establishment of the Southwestern China International Chemical Sciences Chapter, subject to confirmation by the Board of Directors.

15. VOTED to approve the establishment of the Iraq International Chemical Sciences Chapter, subject to confirmation by the Board of Directors.

### Ethics (ETHX)

**Keith R. Vitense**, chair, reported that the committee discussed several ways to take advantage of social media to help disseminate information regarding the activities of the committee and the challenges that would arise; reviewed a document tentatively titled "Research Ethics Information Profile for Authorship"; supported a request to provide a letter of support to an NSF grant application for the development of a research ethics checklist; and voted unanimously to develop an award for presentation at the ChemLuminary ceremony to recognize outstanding ethics-related programming by a local section.

### Environmental Improvement (CEI)

**Anthony M. Noce**, chair, announced that the committee has been reorganized to build a structure around its strategic plan and that CEI continues to focus its attention on increasing ACS leadership related to sustainability in the chemistry enterprise, and establishing partnerships with a wide array of ACS units. All divisions, committees, and units of the Society that are interested in projects focused on sustainability or public policy are encouraged to reach out to CEI to establish future partnerships.

CEI awarded Local Section Sustainability Grants this year to the Eastern New York, Northeastern, Houston, and Lehigh Valley local sections to deliver programming on sustainability and sustainable chemistry; and awarded ChemLuminary Awards for Sustainability to the Midland and Dallas-Fort Worth local sections.

During this meeting, CEI cosponsored three days worth of programing highlighted by the session, “The Debate: What Role Should We Play in the Biotechnology Era?”, which was designed to explore whether or not ACS should develop a policy statement in this area and, if so, what it might say.

#### Community Activities (CCA)

**Michael B. McGinnis**, chair, reported on three major actions taken at this meeting. The committee voted to rebrand Chemists Celebrate Earth Day (CCED) to be a weeklong Chemists Celebrate Earth Week, starting in 2018. The committee also approved the theme for Chemists Celebrate Earth Week 2018 as “Dive into Marine Chemistry.” Finally, the committee approved a new ChemLuminary Award, “Outstanding Public Outreach Event by a Student Group,” to recognize a local section that coordinates and conducts a public outreach event (not associated with NCW or CCED), in which students from a high school, community college, and/or university played a major role.

#### Chemical Safety (CCS)

**Elizabeth M. Howson**, chair, highlighted recent efforts taken by the committee to strengthen the culture of safety in educational institutions: collaborating with other prominent organizations; numerous publications and safety alerts; the establishment of the Task Force for Safety Education Guidelines; and the launch of a website, *Hazard Assessment in Research Laboratories*. The website is based on *Identifying and Evaluating Hazards in Research Laboratories*, a guide created by the CCS in response to a recommendation by the U.S. Chemical Safety Board.

#### Chemical Abstracts Service (CCAS)

**Wendy D. Cornell**, chair, announced that CCAS is organizing a strategic planning retreat to be held early next year and invited Councilors and other members to help formulate a strategic plan to guide the committee in its partnership with CAS. The current CAS leadership has been in place for three years, making this an ideal time for the committee to explore new opportunities and priorities.

#### Analytical Reagents (CAR)

**Paul A. Bouis**, chair, announced that the 11th edition of *Reagent Chemicals* became official in June of this year. The specifications found in *Reagent Chemicals* are the global standards for the quality of chemicals used in analytical testing. The committee is responsible for developing and publishing these standards; its current challenge is to stay relevant in an increasingly digital world with a product whose major success has been in print form. An electronic version is tentatively scheduled for release in early 2017.

#### New Business

##### Resolution

The Council adopted the following resolutions:

16. BE IT RESOLVED That the Council of the American Chemical Society express to the officers and members of the Philadelphia Local Section, host section for the 252nd National Meeting, the sincere appreciation of the Council and of the entire Society for the cordial hospitality extended to all registrants at this meeting, and that the Council convey special thanks to the divisional program chairs and symposium



organizers responsible for the outstanding technical sessions, as well as to headquarters staff, for the planning and execution that have ensured the success of the 252nd National Meeting.

17. BE IT RESOLVED That the Council of the American Chemical Society expresses to Donna J. Nelson, President of the Society in 2016, and second president in history from Oklahoma, its sincere appreciation for her service as its presiding officer and for her 41 years of service to the Society. The Council is thankful for her efforts to address the employment concerns of ACS members through a Presidential Task Force and symposia, and for her desire to foster international collaborations. The Council also urges continued support for her challenge to all members to strengthen the public perception of scientists; to promote diversity and inclusion throughout the chemical enterprise and STEM fields; and to partner with international scientific societies to promote stronger ties across borders. The Council thanks Dr. Nelson for her efforts to involve members in helping to make sure that the chemistry in TV series like “Breaking Bad” is good chemistry. The Council extends to President Nelson and her son Christopher its best wishes for their future endeavors and for her continuing professional and personal achievements.

Following the resolution, a comment was received from a Councilor urging the Board and the appropriate committees to examine carefully the appropriateness of congressional oversight of federally funded research; that scientists should not be subjected to fraud investigation or harassment simply for providing scientific results that some may see as controversial.

There being no further business, the meeting adjourned at 12:13 p.m.

Flint H. Lewis  
Secretary

REPORT OF INTERIM ACTION, COUNCIL POLICY COMMITTEE

Since the meeting of the Council on August 24, 2016, the Council Policy Committee has taken the following action:

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

NOMINATIONS FOR PRESIDENT-ELECT

Action Requested: The Committee on Nominations and Elections has selected the following nominees for 2018 President-Elect:

Bonnie A. Charpentier  
Mark D. Frishberg  
Anne M. Gaffney  
Willie E. May

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

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**CHARPENTIER, BONNIE ANN** *Santa Clara Valley Section.* Cytokinetics, Incorporated, South San Francisco, California.

**Academic Record:** University of Houston, B.A., 1974; Ph.D., 1981.

**Honors:** ACS Fellow, 2015; Shirley B. Radding Award, Santa Clara Valley Section, ACS, 2012; Founders Award, Workshop for Teachers, Santa Clara Valley Section, ACS, 2006; A. Ottenberg Service Award, Santa Clara Valley Section, ACS, 1998; Platinum Award, Division of Agricultural and Food Chemistry, ACS, 1998; Sherrie Wilkins Award for Distinguished Professionals, American Women in Science Northern California Chapters, 2014; Honorary Kente Cloth recipient, NOBCCHE, 2014; Mentoring Appreciation Award, Metabolex, Inc., 2008; Syntex Corporation Recognition Award: Individual, 1994, Team, 1992; University of Houston Departmental Teaching Award, 1980; National Merit Scholar, 1970-74; Iota Sigma Pi.

**Professional Positions** (for past ten years): Cytokinetics, Incorporated, Senior Vice President, 2014 to date; Metabolex, Inc., Vice President Regulatory and Quality, 2007-14; Genitope Corporation, Vice President Regulatory, 2001-06.

**Service in ACS National Offices:** ACS Board of Directors, Director District VI, 2006-14, Chair, 2010-11; Councilor ex officio, 2006-14; Budget and Finance, 2007-16, Chair, 2014, Vice-chair 2008, Program Review Subcommittee, Chair 2015-16; Board of Trustees, Group Insurance Plans for ACS Members, 2015 to date, Vice-chair, 2016; ACS Board of Directors Executive Committee, 2007-11, Chair, 2010-11; Executive Director Performance Planning and Evaluation Committee, 2010-11, Chair, 2010-11; Committee on Public Affairs and Public Relations, 2006-10, Chair, 2007-09; Committee on Planning, 2007-11, Chair, 2010-11; Board Goals Committee, 2006-08, Chair, 2007; Board Liaison to Corporation Associates, 2012-14; Council Policy Committee (Voting), 2001-05, Vice-Chair, 2005; Committee on Nominations and Elections, 1995-00, Secretary, 1999-00, Vice-Chair, 1997; Committee on Grants and Awards, 2006; Committee on Local Section Activities, 1994-95, Committee Associate, 1993; Board Oversight Committee for Communications Strategic Plan, 2007-08, Chair, 2007-08; *C&EN* Editorial Board, 2010-11; Governing Board for Publishing, 2010-11; Development Advisory Board, 2010-11; Advisory Group for New Ventures, 2010-11; Joint Board-Council Task Force on Governance Review, 2005-07; Board Task Force on Program Review, 2005; Local Section Summit, 2006, 2007; Regional Meeting Summit, 2007; Committee Structure Summit, 2007; Task Force on Enhancing Communications at Council, 2004; Task Force on Petition for Local Section and Division Support, 2002-03; Task Force on Committee Review, 2002.

**Service in ACS Offices:** Member ACS since 1982. *Santa Clara Valley Section:* Councilor, 2016-18, 1993-05; Public Relations Committee, Chair 2004-05; Section Chair, 1997; Chair-Elect 1996; Long Range Planning Committee, 2001-03; National Chemistry Week Committee, 1996-05, Chair, 1998; Kids & Chemistry Committee, Chair, 1996; Volunteers in Public Outreach, Coordinator, 1995; KidVention Committee, 1992-00. *Western Regional Meeting:* Program Co-chair, 2013. *Cincinnati Section:* Chair, 1988-89; Chair-Elect and Program Committee Chair, 1987-88; Vice-Chair, 1986-87; Treasurer, 1985-86; Editor, *CINTACS*, 1984-85; Nominating Committee Chair, 1989-90; Long Range Planning Committee Chair, 1987-88; Trustee, 1989-90. *Division of Agricultural and Food Chemistry:* Flavor Subdivision, Chair, 1990; Chair-Elect, 1989; Vice-Chair, 1988; Secretary, 1987.

**Member:** American Women in Science; American Association for the Advancement of Science; American Association of Chemistry Teachers; National Organization for the Professional Advancement of Black Chemists and Chemical Engineers; Society for the Advancement of Chicanos and Native Americans in Science; American Association of Pharmaceutical Scientists; BioScience Forum, Drug Information Association, Bay Area Compliance Discussion Group, Bay Area Clinical/Regulatory Roundtable. *ACS Divisions:* Agricultural and Food Chemistry; Analytical Chemistry; Biochemical Technology; Business Development and Management; Chemistry and the Law; History of Chemistry; Medicinal Chemistry; and Small Chemical Business.

**Related Activities:** Roche Global Development, Vice President, 1999-2001, Director, Regulatory Affairs, 1996-99; Syntex Research, Regulatory Program Director, 1993-95; Senior Manager, 1992-93; Manager, 1991-92; Symposium Organizer for ACS National Meetings, multiple divisions; Founder of “Teach the Teachers” Workshop, Santa Clara Valley Section; Co-founder and Developer of Student Interview Workshop, joint project of Santa Clara Valley Section, the California Section and AIChE; Advisory Board for NSF project, “Chemistry, A Pipeline to 21<sup>st</sup> Century Careers” at Canada College, 2008-10; co-founder of “Chemists in the Community”, San Francisco National Meeting, 2006; Instructor for “Tech Trek” at Stanford University, to encourage young women in science, 2008 to date; presenter at the Sally Ride Festival, Stanford University; Plenary speaker, Sociedad Química de México, 2011; invited speaker, Women in Science and Engineering 16<sup>th</sup> Annual Conference, 2008; presenter at “Science Night”, California and Santa Clara Valley Sections; ACS Younger Chemists Committee Chemical Career Insights Program (Roadshow) Speaker, 1986-88; Procter & Gamble Company, Group Leader Analytical Chemistry, 1981-90, Chair, Analytical Symposium Committee, 1984; Chemistry Merit Badge Instructor for Boy Scouts; Presenter at national meeting symposia (Division of Chemistry and the Law, and Career Services) on careers for chemists outside the laboratory; Trainer for Kids & Chemistry volunteers; Mentor for Mentium 100 Program; Pharma Leaders Meeting participant, 2010 to date; National Organization for Rare Disorders Corporate Council, 2016 to date; Cure SMA Industry Collaboration, 2016 to date; co-editor of two books: *Polymeric Delivery Systems*, ACS Symposium Series 520, 1993; *Supercritical Fluid Extraction and Chromatography*, ACS Symposium Series 366, 1988.

### STATEMENT

Bonnie A. Charpentier

Thank you for considering me for the office of President-Elect of ACS. Service in ACS has been a fundamental part of my professional life and it would be a great honor and joy to serve in this role. I see this role as both leadership and collaboration, working with others in ACS governance and building collaborative relationships with other scientific organizations for the good of our members and for our world.

#### **Relevance to our members**

To remain strong and flourishing, ACS must be relevant in the lives of our members. One of the most important roles of the ACS president is to communicate with, and listen to the needs of our members. When considering members’ needs, we should recognize that the needs of individual members vary, and are different in the various stages of their careers. One of my goals is to have a more sophisticated understanding of member needs and adapt our programs accordingly.

Satisfying employment for chemists is an on-going challenge. ACS has had multiple task forces and panels seeking to address it. My experience with down-sizing in both large and small companies is helpful in understanding challenges and potential solutions. I have been involved with, and support programs to help chemists with their careers. Interestingly, as noted in a recent New York Times article, a large percentage of jobs are obtained by referrals. To facilitate this, ACS could better support convenient ways for our community of members to share leads and recommendations with one another.

We tend to think of our members as belonging solely to academia, industry, or government labs. However, members often transition across these areas. I want to work to improve collaboration across industry, academia and government, particularly for the benefit of students, and for our members considering such transitions.

To be relevant, ACS must support members' aspirations, both in their careers, and in their desire to contribute to the good of society. I have seen the joy and satisfaction of our members in creating great National Chemistry Week events, successful regional meetings, innovative programs for chemistry education, and hands-on activities in homeless shelters, to name a few. I want to find new synergies and collaborative ways to support our members' dreams.

### **Relevance to society**

Science and scientists are facing unprecedented challenges from the increasing politicization of science. ACS must lead in combatting ignorance and prejudice and in communicating the value of chemistry to society. Our members expand human knowledge, create, innovate, and produce materials, medicines, energy sources, clean water and myriad other discoveries and inventions that improve life. We must empower our members to more effectively share the human stories of both the products of chemistry and the value of the scientific method.

ACS has strong advocacy programs such as Capitol Hill visits and Science and the Congress. It is time to greatly strengthen our efforts and involve more of our committed members. For example, we have excellent advocacy programs in some states, but others are moribund or nonexistent. We should provide stronger support for advocacy programs, particularly for science education and research funding, in all 50 states and beyond. Promotion of scientific literacy is fundamental to ACS, and we need even stronger programs to bring a better understanding of science to the public.

We often lament the scarcity of scientists in Congress, but have done little to facilitate participation of chemists. For those members who are interested in taking a more active political role, from school boards to local, state, or national offices, we could provide support in the form of training in process, effective communication skills and sharing of best practices.

### **My qualifications**

My experience in ACS local sections, divisions, and national governance provides a background to build effective collaborations internally, and to strengthen existing personal relationships with our sister societies internationally. My work experience has included dealing with challenges in chemistry employment and managing important negotiations with regulatory authorities around the world. My work inside and outside ACS has taught me the power of teams.

I would be delighted to take on the role of primary communicator for ACS. I see this role as leading and embracing change, built on a foundation of collaboration to tap the collective wisdom of our membership. I have the passion, energy and the support of my company to take on this role. I am grateful for your consideration and welcome your suggestions.

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**FRISHBERG, MARK D. California Section.** Custom Organic Synthesis Consultant, Santa Rosa, California.  
(Retired, Eastman Chemical Company.)

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

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

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

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

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

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

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

**STATEMENT**  
Mark Frishberg

Being invited to be a nominee for the Presidential Succession of the ACS is an honor and privilege and I would appreciate your vote and support to advance my candidacy.

When I was six years old, a chemical demonstration show got me excited about chemistry. I have been a chemist ever since, appreciating the importance of sharing our vocation with the public, and do so whenever I am able. Having professional responsibility coupled with ACS membership impressed upon me by George Olah and student affiliate advisors, the late Kerro Knox and Peter Kovacics, I have been proud to be an ACS member since 1968. Such personal involvement by faculty is important to help younger members focus on commitment and value, rather than the cost of membership.

During a fulfilling career working for a large company and running a small one, I have had to overcome five significant job disruptions. All at mid-career or later. All out of my control. Throughout my career ACS has been the one constant, giving me the opportunity to gain and grow while giving back; develop and test my skill set, while providing a powerful network and support system. I can think of no better platform than the ACS Presidency to continue to serve, to share my story, our story, in order to recruit and retain members through personal contact and work to improve the public perception of chemistry through the exposure the Presidential Succession provides.

**The issues have not changed. The ACS Strategic Plan remains valid.**

**Value to Members** – ACS must continue to lead in providing the highest-level meetings, on-line, and print content, professional development, networking, volunteer, and career counseling experiences. The synergy that exists between strengthening Local Section programming and growing Division membership should be fully realized.

**Employment** – While ACS is not positioned to be a job creator, ACS should work to identify where the jobs are being created and the skills needed to prepare for these positions. We need to ensure that we have the proper links between academia identifying emerging technologies and industrial groups like Corporation Associates who can help identify where members with chemical backgrounds can fill those jobs, and allow ACS to expand its position as the “umbrella” society for the chemical sciences and proactively incorporate these emerging fields. Disseminating the latest information should be part of every ACS National meeting at a Presidential Plenary session. ACS Leadership Development programs must continue to fill the void left by industry where many of these internal professional development functions have been cut back, as should the Academic Employment Initiative to assist aspiring faculty members.

As an ACS Career Consultant, I encounter too many students at all degree levels who have not learned the basics of when to begin seeking employment. They are approaching or past graduation and likely to encounter a long period of unemployment. Finding ways to overcome this one issue alone should help reduce the high rate of unemployment of new graduates.

**Education/Science Literacy** – ACS should be rightly proud of its educational programs, such as ACS Scholars, Project SEED, National Chemistry Week, the new AACT for K-12 teachers, Chemistry Ambassadors, and other outreach efforts.

We must maintain ACS as the primary source for the most reliable chemistry related information. In our current world where a single tweet or Facebook post can spread to overwhelm years of serious scientific investigation, we must continue to work toward a scientifically literate public who knows better than to accept any attempted deceptions. Such an effort should be a great way to attract and engage our social media savvy members.

**Science Policy and Funding** – With its large membership and unique blend of academe, government, industry, and associated constituencies, ACS is well positioned to contribute an unbiased approach in promoting the support of funding for research and development to Congress, and National and State agencies. The areas of climate science, sustainability, health, and energy that affect chemists must be protected and advanced. The next four years are likely to be very critical ones for the ACS functions in the public affairs arena. ACS needs to continue to identify and match up our key experts to where they can provide the maximum impact. If the US pulls back from global involvement, ACS must ensure that does not impede our International outreach and support of International Chapters.

**Unsettling times. Challenging times. Times when the strengths of the ACS can really make a positive difference!**

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**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 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, 7<sup>th</sup> World Congress on Oxidation Catalysis, 2013; Honorary Committee for the 100<sup>th</sup> 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, Director of Process Science and Technology, 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 Economic and Professional Affairs, 2008-13, Committee Associate, 2007.

**Service in ACS Offices:** Member ACS since 1976. *Division of Catalysis Science & Technology:* Councilor, 2016-18, 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:** Organic Reaction Chemical Society; North American Catalysis Society; Western States Catalysis Society; Philadelphia Catalysis Club; American Institute of Chemical Engineers. *ACS Divisions:* Industrial & Engineering Chemistry; 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; Co-Chair of the 2013 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 6<sup>th</sup> 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 35 peer-reviewed journal articles, 65 conference proceeding publications, 3 book chapters, and 245 patent/publications.

## STATEMENT

Anne M. Gaffney

I appreciate your consideration for American Chemical Society president-elect in 2018. As a 40-year member, I have taken to heart its passion for the global chemistry enterprise. With the world at a crossroads, I would be honored to lead ACS and convey its mission to the nation. If chosen as president-elect, my top priorities would be advancing chemical science education and job creation by emphasizing advanced manufacturing and technologies at the energy-food-water nexus.

### **Fostering innovation**

Research and development is the tap root of industrial growth and evolution — strong R&D sprouts productive innovation. While we consider the importance of chemical sciences to our economy, we should not forget that the whole world looks to the United States for innovation. By emphasizing R&D, ACS can foster global innovation, advance the chemical science workforce, inform public policy and enhance public understanding of how chemistry affects our daily lives.



The supply of freshwater for residential, industrial and agricultural uses has become an increasingly significant issue worldwide. Technical challenges associated with the energy-water-food nexus center around the economics of water recovery and reuse. Significant drivers exist for lowering industrial water life-cycle costs by avoiding costly discharge and disposal. R&D can improve water technology and systems, integrate processes and preserve system flexibility to meet water quality goals at the correct cost.

The manufacturing sector is another area widely recognized for its importance to the U.S. economy. Yet funding for industrial chemistry R&D, which underlies much of this sector, has steadily declined for the past 30 years. If U.S. manufacturing is to maintain a competitive edge, R&D will be necessary: to develop new processes and technologies; to ensure critical material supplies; to improve feedstock source utilization; and to enable next-generation catalysis. ACS leadership can help maintain our nation's status as the world leader in research and innovation.

This national science priority emphasizes partnerships between industry, academia and national labs. As someone whose career has spanned each of these areas, I have seen how the three can work together to propel new ideas through the process of discovery, development and commercialization. These efforts can be broadened internationally, and as ACS president-elect, I would make it a priority to interact and consult with international scientific organizations.

### **Strengthening education and the workforce**

Innovation will lead to skilled U.S. jobs that prompt job creation within supporting industries. During my previous ACS service, I led multiple national surveys to understand trends related to training and compensation in the government, industry and academia. As our professional landscape evolves, I would continue efforts to ensure salary and compensation parity for all professional chemists and scientists.

To maintain the chemical industry's position of leadership, the U.S. needs a strong educational system producing highly qualified chemists, scientists and educators. Robust mentoring and internship relationships throughout academia, national labs and industry are paramount for passing knowledge and skills to the next generation. Educational programming is already in place at the national labs to broaden the scientific insights of students ranging from precollege to postdoctoral. This system can serve as a model to supply academia, the government and industry with high-quality new talent.

### **Sustainability in public policy**

When our message is articulated clearly for elected officials, it is highly persuasive. It is crucial for ACS to spread awareness of how vital the chemical sciences are to manufacturing, the millions of people it employs, and its contribution to the nation's exports and gross domestic product. As president-elect, I would prioritize development of a cadre of advocates to spread the message at all levels of government. As recently as March 2016, I participated in a congressional briefing about advanced manufacturing, and my current professional position gives me a front-row seat to national policy discussions and decisions. ACS has an important leadership role to play in ensuring informed decision-makers.

### **Public outreach and openness**

From the clothes we wear to the critical materials in our electronic devices, there is no escaping the impact of chemistry on our daily lives. Although not every person aspires to become a chemist or scientist, our national interest hinges on a scientifically literate public that recognizes how better chemistry is essential to a better quality of life. From its national programs to local sections, ACS has a network in place to demonstrate that we can offer solutions to challenges that might otherwise seem insurmountable. If elected, I would relish the opportunity to boost the public's understanding of how chemistry touches their everyday lives.

Thank you for your thoughtful consideration.

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**MAY, WILLIE E.** *Chemical Society of Washington Section.* National Institute of Standards and Technology, Bethesda, Maryland.

**Academic Record:** Knoxville College, B.S., 1968; University of Maryland, Ph.D., 1977.

**Honors:** ACS Award for Public Service, 2017; One of four Keynote Speakers for Opening Session, 2016, ACS Fall National Meeting; Cover Story, C&E News, June 15, 2015; ACS Fellow, 2011; Distinguished Service in the Advancement of Analytical Chemistry Award, ACS, 2001; Laboratory Director of the Year, Federal Laboratory Consortium, 2016; Honorary Doctor of Science, Wake Forest University, 2012; First Class of Inductees, Knoxville College Alumni Hall of Fame, 2010; University of Maryland College of Chemical and Life Sciences Alumnus of the Year Award, 2007; Henry Hill Award for Exemplary Work and Leadership in the Field of Chemistry, NOBCCChE, 2005; Science Spectrum Magazine Emerald Award, 2005; Council for Chemical Research Diversity Award, 2005; Percy Julian Award for Outstanding Research in Organic Analytical Chemistry, NOBCCChE, 1992; Presidential Rank Award of Meritorious Federal Executive, 1992; Department of Commerce Gold Medal Award for Distinguished Achievement in Federal Service, 1992; Arthur Flemming Award for Outstanding Federal Service, 1986; Department of Commerce Silver Medal Award for Meritorious Federal Service, 1985; National Bureau of Standards (NBS) Equal Employment Opportunity (EEO) Award, 1982; Department of Commerce Bronze Medal Award for Superior Federal Service, 1981.

**Professional Positions** (for past 10 years): Senate-Confirmed Under Secretary of Commerce for Standards and Technology, May 2014 - January 2017; Emeritus Director, National Institute of Standards and Technology (NIST, Gaithersburg, Maryland), 2017; 15<sup>th</sup> Director, May 2014 - January 2017; Acting Director, June 2014 - May 2015; Associate Director for Laboratory Programs, August 2011 - June 2014; Director, Material Measurement Laboratory, 2010-11; Director, Chemical Science and Technology Laboratory, 2004-10.

**Service in ACS National Offices:** ACS President's Blue Ribbon Panel on Minority Affairs, 1994-2004.

**Service in ACS Offices:** ACS Member since 1979. Committee on Minority Affairs, 1993-2000, Chair, 1996-98.

**Member:** National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCChE); American Association for the Advancement of Science (AAAS); Vice President of the 18-person International Committee on Weights and Measures (CIPM); President, CIPM's Consultative Committee on Metrology in Chemistry and Biology; Executive Board Member for the Joint Committee on Traceability in Laboratory Medicine (JCTLM); Advisory Boards for the UK's National Physical Laboratory (NPL); Japan's National Institute of Advanced Industrial Science and Technology (AIST); and China's National Institute for Metrology.

**Related Activities:** Co-Chair, National Commission on Forensic Science, 2014-17; Keynote Speaker, Winter Commencement Ceremonies, University of Maryland, College of Life Sciences, 2002; Commencement Speaker, Wake Forrester University Graduate School of Arts and Sciences, 2012; Keynote Speaker, Winter Commencement Ceremonies, University of Maryland, College of Computer, Mathematical and Natural Sciences, 2015; Ralph Metcalfe Lecturer, Marquette University, 2016; Fall Commencement Speaker for the University of Alabama, Huntsville, 2016.

## **STATEMENT**

Willie E. May

As U.S. Under Secretary of Commerce for Standards and Technology and Director of the National Institute of Standards and Technology, I have observed that the United States is still the global leader in chemistry and chemical engineering due to our commitment to and strength in research and innovation. However, global economics are driving changes in chemical enterprises in the U.S. with expanded outsourcing of chemical manufacturing to overseas locations. Increased competition from abroad in core research areas, along with declines in both funding and research infrastructure in the U.S., are combining to undercut our

ability to generate new opportunities to sustain our global competitive advantage in the chemical sciences as well as other areas. How we handle these challenges and the resulting impacts on employment, education, and on research and entrepreneurial innovations will determine our future ability to compete in global markets. To address this challenge, I suggest that we embrace the following actions:

- **Inspire:** The ACS is one of the largest scientific societies in the world and should play a greater role in shaping policies to expand and inspire the next generation of STEM professionals from chemical plant technicians to principal investigators in government, university, and industrial laboratories. This outreach should include STEM professionals in policy and communications. The ACS must continue to be a strong advocate in this area if we are to maintain our competitive edge globally.
- **Diversify:** As part of the ACS mission to foster a competitive and technically capable workforce in the U.S. and a workforce that can meet our national security needs, we must be strong advocates for historically black colleges and universities and other minority serving institutions. Students from these institutions are an underappreciated source of skilled workers for the chemical industry. Through assistance with internships and other career opportunities for underrepresented minority students, the ACS can help overcome workforce restrictions imposed by the U.S. Chemical Facilities Safety Act which requires that only U.S. citizens work in U.S. chemical plants. These untapped pools of talent would bring much needed diversity of thought and innovation to our industry and the overall chemical sciences enterprise. And given that biology is increasingly a quantitative molecular science, we should explore ways to better include biologists and the biological sciences under the ACS tent.
- **Share:** The ACS should be a strong proponent for the open data movement. The synergistic use of data collected in standard formats and freely shared within the chemical and pharmaceutical industries and research communities has tremendous potential to solve previously intractable problems. We, as leaders of the chemical sciences, should use our extensive member network to energize advances in the sharing of chemical data and informatics to reap the same benefits from use of open data and data analytics as seen in the financial and IT industries.
- **Compete:** The chemical and the pharmaceutical industries have significantly reduced their corporate laboratory footprints over the past two decades. The ACS can help reverse this damaging trend by helping industry find the right university partners. At the same time, the ACS can assist universities in obtaining the appropriate ‘impedance match’ such that industry obtains the research it needs with respect to intellectual property and proprietary concerns. With this assistance, universities can increase research capacity through acquisition of new equipment, and training of students (graduate and undergraduate) in both basic and applied research.
- **Grow Our Membership:** More than ninety-five percent of the world’s population lives outside the United States; and science has no national boundaries. Non-U.S. citizens should be a major growth area for recruiting new ACS members. Many ACS members are from companies that are global entities. Better insight into international chemical communities and issues will provide valuable benefits for both U.S. and international members. If elected, I’ll use my considerable experience in the international measurement science and standards arena to develop new programs that engage the international chemical sciences and technology enterprise writ large. Likewise, ACS should begin providing additional relevant conference topics and forums for biologists and biochemists. Much of biology has evolved into a molecular, quantitative science, that is, much of biology *is* discussed and researched as chemistry. The ACS can enrich our current members’ professional networks and grow its membership at the same time, by actively recruiting biologists as members.

**I look forward to working with the ACS in the coming years whether as your President or in some other capacity. We should ensure that we prioritize and keep up with the needs of our members while facilitating our influence as an organization.**

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ANNOUNCEMENT OF NOMINEES, DISTRICT DIRECTORS

In accordance with the provisions of Bylaw V, Sec. 4, candidates for District Director are selected by the voting Councilors of the District to be served. The Committee on Nominations and Elections selected the following as nominees for a 2018-2020 term:

DISTRICT III  
Margaret A. Cavanaugh  
Alan B. Cooper  
Anne S. DeMasi  
Teri Quinn Gray

DISTRICT VI  
Rita R. Boggs  
Kevin P. Gable  
Paul W. Jagodzinski  
Richard V. Williams

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

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

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PERTINENT BYLAW PROVISIONS GOVERNING ELECTION  
OF DISTRICT DIRECTORS

Bylaw V, Sec. 4.

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

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

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

ANNOUNCEMENT OF CANDIDATES, DIRECTORS-AT-LARGE

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

The election of Directors-at-Large will be conducted in the fall, with ballots mailed to the Council on or before October 10. The incumbents are William F. Carroll and Barbara A. Sawrey. William F. Carroll is ineligible for reelection, and Barbara A. Sawrey is eligible for reelection.

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

Lee H. Latimer .....2016-2018  
Ingrid Montes.....2016-2018  
Dorothy J. Phillips .....2017-2019  
Kathleen M. Schulz .....2017-2019

The Committee on Nominations and Elections announces selection of the following candidates for Directors-at-Large for a 2018-2020 term:

Ken P. Fivizzani  
Wayne E. Jones  
Bonnie A. Lawlor  
Barbara A. Sawrey

Biographies of the candidates follow.

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**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 Fellow, 2011; Distinguished Service Award, Chicago Section, ACS, 2016; Tillmanns-Skolnick Award, ACS Division of Chemical Health and Safety, 2012; 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, 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, 2013-17, 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:** Member of ACS since 1975. *Chicago Section:* Councilor, **2017**, 2013-15, 2009-10; Alternate Councilor, 2007-08; Chair, 2010, 2007; Chair-Elect, 2009, 2006; Trustee, 2011-17. *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, 2000-17; Columnist, 2002-15.

**Member:** 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; Forty-seven technical presentations made at ACS National Meetings (CHAS, CHED, HIST, I&EC); three presentations at Regional Meetings; and 5 US Patents.

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

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

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

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

**Service in ACS National Office:** Committee on Committees, 2014-19, Chair, 2015-17; Committee on Membership Affairs, 2010-13, Chair, 2011-13, Program Review Advisory Group, 2010-12; Council Policy Committee, ex officio (Nonvoting), 2015-16, 2010-12, 2008-09; Committee on Local Section Activities, 2003-09, Chair, 2008-09; Board Committee on Planning, (Nonvoting), 2008.

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

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

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

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**LAWLOR, BONNIE (Helen A.)** *Division of Chemical Information (Philadelphia Section)*. (Retired) National Federation of Abstracting and Information Services (NFAIS), Philadelphia, Pennsylvania.

**Academic Record:** Chestnut Hill College, B.S., 1966; St. Joseph's University, M.S., 1976; University of Pennsylvania, Wharton School, M.B.A., 1989.

**Honors:** ACS Fellow, 2013; Meritorius Service Award, Division of Chemical Information, ACS, 2006; NFAIS Honorary Fellow, 2014; Alpha Epsilon Sigma - 1966; National Federation of Abstracting and Information Services Memorial Award, 1998; American Society for Information Science Achievement Award, 1996.

**Professional Positions** (for past ten years): Retired, 2014, National Federation of Advanced Information Services (NFAIS), Executive Director, 2002-14; Chescot Publishing Incorporated, President/CEO 1998-02.

**Service in ACS National Offices:** Committee on Committees, 2012-17, Secretary 2014-17; Council Policy Committee (Voting), 2006-11; (Nonvoting), 1997-99; Committee on Nominations and Elections, 2000-05, Vice-Chair, 2003, Secretary, 2001; Committee on Divisional Activities, 1994-99, Chair, 1997-99; Committee on Copyrights, 1990-98, Chair, 1993-95, Committee Associate, 1989; Committee on Committees, Task Force on Publications/Copyrights Inter-Committee Relationship, 1999; Advisory Board for Industry Relations, 1997-99; Board Task Force on Technical Programming, 1998; Program Coordination Conference Committee, 1997-98; ACS Books Advisory Board, 1991-94; Representative, American Association for the Advancement of Science, Section T, 1985-86.

**Service in ACS Offices:** Member ACS since 1972. *Division of Chemical Information:* Councilor, 1992-2018; Chair, 1989; Chair-Elect, 1988; Secretary-Treasurer, 1984-87; Corresponding Secretary, 1982; Archivist 2006 to date; Publications Committee Chair, 1990-95, continuing member to date; Editor, *Chemical Information Bulletin*, 1977-83.

**Member:** International Union of Pure and Applied Chemistry (IUPAC), Bureau Member; Chemical Structure Association Trust, Board of Trustees; Philosopher's Information Center, Board of Trustees. *ACS Division:* Chemical Information.

**Related Activities:** International Union of Pure and Applied Chemistry, Bureau Member since 2014; Chair, Committee on Publications and Cheminformatics Data Standards, 2014 to date; Member, *Chemistry International* Editorial Board, 2015 to date; Member, *Pure and Applied Chemistry* Editorial Advisory Board 2014 to date; Chair, Web Vision Task Force, 2014 to date; Chemical Structure Association Trust, Board Member, 1990 to date; Chair, Grants Committee, 2002 to date; Secretary, 2002 to date; Information Industry Association, Board Member, 1997-98; American Society for Information Science, Board Member, 1996-98, Chair, Delaware Valley Chapter, 1994; Secretary 1992-94; National Federation of Abstracting and Information Services, President, 1989; Chair, Information Policy and Copyright Committee, 1991 to 2002; Editorial Advisory Board, *The International Journal of Electronic Publishing*, 1993-96; Chemical Notation Association, President, 1980; Secretary, 1976-79; American Institute of Chemists, Secretary, Philadelphia Chapter, 1981-82. Executive Vice President, Database Publishing, Institute for Scientific Information 1989-95.

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**SAWREY, BARBARA A.** *San Diego Section*. University of California, San Diego, La Jolla, California.

**Academic Record:** Baldwin-Wallace College, B.S., 1973; San Diego State University, M.A., 1982; University of California, San Diego, and San Diego State University, jointly, Ph.D., 1983.

**Honors:** ACS Fellow 2011; ACS National Award for Encouraging Women in the Chemical Sciences, 2002; Outstanding Service Award, San Diego Section ACS, 2001; San Diego Magazine Women of the Year, Academic Champion, 2016; Faculty Fellow, Revelle College, 2016; Athena of San Diego, Pinnacle Award for an Individual in Education, 2011; University of California, San Diego Partner in International Education Award, 2010; University of California, San Diego, Alumni Award for Teaching Excellence, 2004; Distinguished Teaching Award, University of California, San Diego, 1997; Golden Key Honor Society; Sigma Xi; Iota Sigma Pi.

**Professional Positions** (for past ten years): University of California, San Diego, Dean of Undergraduate Education, 2012 to date; Associate Vice Chancellor, Academic Affairs, 2007 to date; Department of Chemistry & Biochemistry, Distinguished Teaching Professor, 2013 to date; Vice-Chair for Education, 1994-2007, Faculty Member, 1984 to date; University of California, San Diego, Acting Provost, Revelle College, 2001-02.

**Service in ACS National Offices:** Board of Directors, Director-at-Large, 2012-17; Councilor ex officio, 2012-17; Committee on Public Affairs & Public Relations, 2012-17; Committee on Strategic Planning, 2017; Committee on Professional & Member Relations, 2013-16, Chair, 2014; Committee on Grants & Awards, 2012; Committee on Professional Training, 2009-11, Advisory Board, 2010-14; Leadership Advisory Board, 2007 to date; Committee on Nominations and Elections, 2004-08, Chair, 2006-08; Committee on Committees, 1998-03, Chair, 2001-03; Secretary, 1999-00; Council Policy Committee (Nonvoting) 2006-08, 2001-03; Committee on Meetings and Expositions, 1994-97, Committee Associate, 1991-93; Committee on Education, Committee Associate, 1992.

**Service in ACS Offices:** Member ACS since 1975. *San Diego Section:* Councilor, 1990-12; Alternate Councilor, 1987-89; Outstanding Scientist Award Committee, 1996 to date; Education Committee Chair, 1982-88. *Division of Chemical Education:* Board of Publications, *Journal of Chemical Education*, 2003-2012; Chemical Education Research Committee, 1997-99; General Chemistry Examining Committee, 1989-97; Long Range Planning Committee, 1987-93; Chair, 1989-91; Program Committee, 1991-94; Program Chair, ACS Spring National Meeting, 1994.

**Member:** Iota Sigma Pi. *ACS Divisions:* Chemical Education and Inorganic Chemistry.

**Related Activities:** Member Board of Directors of the National Conflict Resolution Center, 2013 to date; Member Board of Governors of the Gemological Institute of America, 2013 to date; Member Board of Governors for The San Diego Foundation 2008 to date; Chair, Science & Technology Working Group 2006-11; ACS Leadership Development System, Facilitator of Extraordinary Leaders Course 2007 to date; Chair, Fifth Gordon Research Conference on Innovations in College Chemistry Teaching, 1999; Vice Chair, Fourth Gordon Research Conference on Innovations in College Chemistry Teaching, 1997; U.S. National Chemistry Olympiad Mentor Search Committee, 1996 to date; International Chemistry Olympiad, Vice-Chair, Scientific Board, 1992; Mentor U.S. National Chemistry Olympiad, 1987-89.

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## REQUEST FOR SUGGESTIONS FOR 2019 DIRECTORS AND SOCIETY OFFICERS

### A Reminder

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

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

The Committee asks each Councilor to examine the following list of positions to be filled on January 1, 2019, and the list of those continuing in related posts. Names of individuals suggested for nominations should then be inserted in the appropriate blanks. These sheets can be left on the table near the door as you leave the Council meeting, or emailed to the Chair of the Committee: Dr. Les W. McQuire - nomelect@acs.org

### PRESIDENT-ELECT

Incumbents in the 2017 Presidential succession are: President, Allison A. Campbell; President-Elect, Peter K. Dorhout; and Immediate Past President, Donna J. Nelson. Nominees for President-Elect in 2018 are, Bonnie A. Charpentier, Mark D. Frishberg, Anne M. Gaffney, and Willie E. May. From this list, two will be selected at this Council meeting to run (along with any others nominated by petition) as candidates for election this fall (see Council agenda **Item IV, A, pages 19-27**).

### **DESCRIPTION OF DUTIES AND DESIRED CHARACTERISTICS FOR PRESIDENT-ELECT NOMINEES**

#### **The President is the Primary Spokesperson and Representative of the Society**

##### Some Major Duties:

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

##### Some Desired Characteristics:

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

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

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

Some Major Duties:

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

Some Desired Characteristics:

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

DIRECTORS-AT-LARGE

Incumbents whose terms expire at the end of 2018 are Lee H. Latimer and Ingrid Montes. Lee H. Latimer and Ingrid Montes are eligible for reelection.

William F. Carroll, Dorothy Phillips, Barbara Sawrey and Kathleen Schulz, are other Directors-at-Large. From the following candidates (plus any nominated by petition), two will be elected this fall for a three-year term, 2018-2020: Ken P. Fivizzani, Wayne E. Jones, Bonnie A. Lawlor, and Barbara A. Sawrey (see Council agenda **Item IV, C, pages 29-32**).

DIRECTOR, DISTRICT I

Elected by members of local sections having their headquarters in Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, Pennsylvania (except the Philadelphia, Pittsburgh and Southeastern Pennsylvania Sections), Vermont; and those members with addresses in the states of New York and Pennsylvania and in the provinces of New Brunswick, Newfoundland, Nova Scotia, Ontario, Prince Edward Island and Quebec who are not assigned to local sections.

The incumbent, Laura E. Pence, is eligible for re-election.

DIRECTOR, DISTRICT V

Elected by members of local sections having their headquarters in Colorado, Illinois, Iowa, Kansas, Michigan (except the Detroit, Huron Valley, Michigan State University, Midland and Western Michigan Sections), Minnesota, Missouri, Nebraska, New Mexico (except the Rio Grande Valley Section), North Dakota, South Dakota, Texas (except the Brazosport, Central Texas, Dallas-Fort Worth, East Texas, Greater Houston, Heart O' Texas, Sabine-Neches, San Antonio, South Texas and Texas A&M Sections), Utah, and Wisconsin; and those members with addresses in Illinois (except the counties of Clark, Crawford, Edgar, and Lawrence), Iowa, Kansas, Minnesota, Missouri, New Mexico, North Dakota, South Dakota, certain counties in Texas, Wisconsin, Michigan (except Dickinson County), and the province of Manitoba who are not assigned to local sections.

The incumbent, John E. Adams, is eligible for re-election.

OTHER DISTRICT DIRECTORS

The other District Directors who continue in office beyond 2018 are:

Christina C. Bodurow, District II  
Rigoberto Hernandez, District IV

District Directors will be elected this fall for the 2018-2020 term to represent Districts III and VI. The slates of nominees are (see Item IV, B, page 28):

DISTRICT III  
Margaret A. Cavanaugh  
Alan B. Cooper  
Anne S. DeMasi  
Teri Quinn Gray

DISTRICT VI  
Rita R. Boggs  
Kevin P. Gable  
Paul W. Jagodzinski  
Richard V. Williams

## REQUEST FOR SUGGESTIONS FOR 2019 SOCIETY DIRECTORS AND OFFICERS

Attention: Dr. Les W. McQuire  
[nomelect@acs.org](mailto:nomelect@acs.org)

Dear Dr. McQuire:

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

### **PRESIDENT-ELECT**

Name \_\_\_\_\_ Name \_\_\_\_\_

Affiliation \_\_\_\_\_ Affiliation \_\_\_\_\_

### **DIRECTOR-AT-LARGE**

Name \_\_\_\_\_ Name \_\_\_\_\_

Affiliation \_\_\_\_\_ Affiliation \_\_\_\_\_

### **\*DIRECTOR, DISTRICT I**

Name \_\_\_\_\_ Name \_\_\_\_\_

Affiliation \_\_\_\_\_ Affiliation \_\_\_\_\_

### **\*DIRECTOR, DISTRICT V**

Name \_\_\_\_\_ Name \_\_\_\_\_

Affiliation \_\_\_\_\_ Affiliation \_\_\_\_\_

\_\_\_\_\_  
Suggested by: (Name Optional)

\_\_\_\_\_  
(Local Section or Division Affiliation)

\*See preceding pages for territory

(This form must be received no later than May 15, 2017.)

BALLOT COUNTS, PREVIOUS ELECTIONS

The Committee on Nominations and Elections regularly reports in the Council agenda the numerical results of balloting from nominations and elections at the previous meeting and of interim mail balloting. The following tabulations give the numerical results of the balloting at the August 24, 2016 meeting of the Council for election of members of the Council Policy Committee, Committee on Committees, and Committee on Nominations and Elections; and of mail ballots for election of President-Elect, Directors of District II and IV, and Directors-at-Large (October 31, 2016).

**COUNCIL POLICY COMMITTEE**

*Harmon B. Abrahamson	224	Doris I. Lewis	155
**Karl S. Booksh	165	Kim M. Morehouse	95
Dwight W. Chasar	154	Barbara E. Moriarty	138
**Ella L. Davis	158	*Sally B. Peters	184
*Lissa A. Dulany	202	***Martin D. Rudd	181
Gregory M. Ferrence	114	Julianne M. D. Smist	138
John W. Finley	88	*Andrea B. Twiss-Brooks	186

**COMMITTEE ON COMMITTEES**

Gary D. Anderson	111	*Emilio X. Esposito	192
Sandra J. Bonetti	138	Robert J. Hargrove	80
*Dee Ann Casteel	209	Martha G. Hollomon	191
*Richard Cobb	232	*Wayne E. Jones, Jr.	277
Jacqueline A. Erickson	172	*Stephanie J. Watson	212

**COMMITTEE ON NOMINATIONS AND ELECTIONS**

Anthony W. Addison	164	*Amber S. Hinkle	244
Spiro D. Alexandratos	120	**Neil D. Jespersen	172
*Lisa M. Balbes	289	James M. Landis, Jr.	166
*Alan M. Ehrlich	177	*Thomas H. Lane	246
Stan S. Hall	67	Will E. Lynch	171
*Alan A. Hazari	174	V. Michael Mautino	132

**PRESIDENT-ELECT**

*Peter K. Dorhout	10,407
Thomas R. Gilbert	7,319

<b>DIRECTOR-AT-LARGE</b>	Round 1	Round 2	Round 3
*Kathleen M. Schulz	156	168	201
*Dorothy J. Phillips	83	97	125
Kristin M. Omberg	67	82	--
Joseph A. Heppert	43	--	--

**DIRECTOR, DISTRICT II**

George M. Bodner	1,123
*Christina C. Bodurow	1,785

**DIRECTOR, DISTRICT IV**

*Rigoberto Hernandez	1,284
Larry K. Krannich	1,167

\*Individual Elected

\*\*Elected for one-year term (2017) to fill vacancy

\*\*\*Elected for a two year (2017-2018) term to fill vacancy

## REPORT OF THE PRESIDENT

As I begin my year as ACS President, I am eager to pedal forward on my three Presidential Initiatives: Science Literacy, Science Advocacy and Chemistry as a Global Enterprise.

In order to boost my own skills for Science Literacy, I recently completed the *Effective Science Communications* course taught during the ACS Leadership Institute. It provided great tools, techniques and skills to better communicate the value of science to a lay audience. I recommend the course to all members seeking to engage members within their local sections, divisions, and community about the value of the work they do to improve people's lives through chemistry.

In the realm of Science Advocacy, a collective group of members and staff are working to increase the number of Members of Congress to join the recently created Chemistry Caucus. Our goal is to highlight to influential Members of Congress the importance of supporting basic research in the chemical sciences.

Lastly, on my theme of Chemistry as a Global Enterprise, I am happy to share that during its meeting in December, the ACS Board of Directors Board voted to endorse the framework of the Global Chemists' Code of Ethics from the workshop held last April in Kuala Lumpur, Malaysia. I attended this workshop along with chemists representing 18 different countries to develop a baseline code of ethics framework. With its endorsement by the Board, other societies, institutions, universities and corporations are encouraged to craft their own codes of ethics using the global one as a baseline. I look forward to updating you on the progress of many chemical societies and institutions in developing and implementing their own codes of ethics over the next several years.

For the San Francisco meeting, I invite you to attend my Presidential symposia, as they will focus on areas of significant importance: the health of our planet, the safe practice of science, and strong technical programming.

- *LGBT Graduate & Postdoctoral Student Chemistry Research Symposium* will span two days and consist of scientific talks by LGBT graduate and postdoctoral students with a panel discussion on issues that affect LGBT students and postdocs at the end of the first day. Organized by the Division of Professional Relations, the symposium is being hosted by the Gay and Transgender Chemists and Allies subdivision with 13 technical divisions and three committees joining as cosponsors.
- *Holy Grails in Chemistry - Celebrating the 50th Anniversary of Accounts of Chemical Research Journal* symposium will focus on a 1995 issue in the journal that sought to spotlight critical areas of chemistry and will assess the progress in these areas since then.
- *Science for a Sustainable Energy Future* symposium will highlight scientific advances for creating and storing sustainable, low carbon energy. It will focus on advances in Energy Storage in the morning session, and Chemical & Biological Approaches to Energy Conversion in the afternoon.

There are also 13 President Recommended symposia that focus on issues of safety, communicating science, highlighting up-and-coming graduate researchers, and celebrating diverse practitioners of chemistry.

As I navigate the duties and responsibilities of ACS President this year, I hope to receive advice from Councilors regarding plans and actions that ACS can implement to make our Society even more valuable and resourceful for our members. I can be reached at [a.campbell@acs.org](mailto:a.campbell@acs.org).

Allison A. Campbell

## REPORT OF THE PRESIDENT-ELECT

Please allow me to begin this report by thanking those who supported me through the election process as well as those who have advised and guided me through the early months of in the presidential succession. The American Chemical Society (ACS) is an amazingly complex organization that, despite my best efforts over my 31 years as a member and over 12 years as a Councilor, remains a challenge for one person to fully comprehend. So, to help me focus my President-Elect year and subsequent agenda, I went back to the charter – our articles of incorporation from 1937.

The original ACS charter outlines the need “to encourage in the broadest and most liberal manner the advancement of chemistry in all its branches, to promote research in chemical science and industry, and to improve the qualifications and usefulness of chemists through high standards of professional ethics, education, and attainments.” My focus will be on these three areas of our charter that align with our Strategic Plan.

### **Promote safety**

We need to RAMP up our focus on laboratory safety: Recognize hazards, Assess risks, Minimize risks, and Prepare for emergencies. One year ago, the ACS Committee on Chemical Safety (CCS) issued a new statement on laboratory safety and the culture of safety in academic laboratories. Have you read and implemented the recommendations in your laboratory? The ACS Committee on Professional Training (CPT) dedicated its lead story in its fall newsletter to laboratory safety education. The ACS Division of Chemical Health & Safety (CHAS) maintains a web site of best practices. What is the culture of safety like at your institution?

Building on President Campbell's initiatives, I invite you to help us continue to improve. I plan to organize a Presidential Symposium on “RAMPing Up the Culture of Safety,” create a safety culture theme at each regional ACS meeting, and create a ChemLuminary Award for leadership in safety culture.

### **Focus on employment**

The recent task force on employment recognized significant challenges for both recent graduates in the chemical sciences and established chemical professionals in industry, both large and small. Some of the factors affecting jobs are broadly tied to a jobless recovery, but others are related to how and what students learn at undergraduate and graduate levels. I plan to tap the ACS Board Committee on Corporation Associates to help me create an advisory board of key stakeholders in ACS to aid U.S. industry, promote the chemical enterprise to Congress, and prepare chemists for the future workforce.

Together, we can work to strengthen alliances for workforce preparation. The American Association of Chemistry Teachers (AACT) is positioned to engage members in dialog around K-12 chemistry education. ACS should continue to lead in promoting the highest standards and safest chemistry education programs. We should also enhance the educational opportunities for all students, including non-traditional and adult learners. I will ensure that we promote the critical skill sets necessary for new chemists and engage established chemists in life-long learning to enhance their skills.

### **Build an endowment for ACS Scholars**

ACS members' perspectives on moving the Society forward are a combination of external influences, professional and personal experiences, and talents. The diversity of chemistry requires a diverse membership to be successful. The ACS Scholars program can contribute to that diversity. The program has served more than 2900 students by providing resources to attend college, promoting professional growth, and graduating 270 PhDs. Most of these students were the first person from their family to attend college, and many now serve as mentors themselves. I will continue build an endowment that will serve generations of students to come.

As I have learned over my years of involvement with ACS, no one person can do this alone. Consider this a call out to our more than 157,000 members to join me in moving this agenda forward. During my President-Elect year, I will be hosting virtual listening sessions for members who are not able to network in person at our national or regional meetings. This virtual networking will become, for me, the new “fireside chat” of the 21<sup>st</sup> century, less a one-way radio broadcast and more a two-way dialog about how we can continue to make ACS the leading scientific society.

Peter K. Dorhout



## REPORT OF THE IMMEDIATE PAST PRESIDENT

Fellow Councilors,

Community building within ACS has been a major theme of my three-year term, so this report builds on some activities discussed in my previous reports to Council. In collaboration with Public Relations and Communications (CPRC) and the Younger Chemists Committee (YCC), I programmed symposia for the San Francisco ACS National Meeting, which respond to concerns and requests of ACS members. Also, selected symposia from previous meetings are being further disseminated to the community, as requested.

I. Dissemination of results from previous symposia at ACS National Meetings, supplemented by additional 2016 ACS Presidential activities, will cover topics of interest to ACS members, which formed the basis of programming requested by ACS members.

- A. Following activities of 2015 and 2016, ACS Symposium Series Books are planned for two topics. First, a book will compile the results of activities addressing employment of chemists and will be entitled "The Present Employment Status of Chemical Professionals in the United States and Actions Needed for its Improvement." Activities included will be those of the Presidential Task force on Employment in the Chemical Sciences, ACS members who emailed comments and ideas, bloggers who wrote on employment in the chemical sciences and spoke to the Task Force, and so on. This book has experienced some delay, while we understand possible impacts upon the topic, due to the new administration in DC.
- B. Second, a book based on the symposium "Diversity – Quantification – Success?" will include contributions from its speakers and other contributors. It will focus on data-driven analyses of the status of women and underrepresented minorities at all levels in STEM disciplines, including chemistry and chemical engineering.
- C. On December 2, an *ACS Webinar* ran, entitled "Looking into the Crystal Ball: Government, Politics & the Chemistry Enterprise," with Donna J. Nelson, Allison A. Campbell, Diane Grob Schmidt, and Josh Kraushaar. We discussed possible impacts of the new administration upon future science (<https://www.acs.org/content/acs/en/acs-webinars/popular-chemistry/congress.html>); my written comment followed - "Predicting Science Policy Under the New Administration." in *Chemical and Engineering News*. **2017**, 95(2), 34 (9Jan). I welcome your remarks and ideas on these.

II. Three symposia at the San Francisco Spring National Meeting address ACS member concerns, via presentations on influencing the public perception of science and scientists. This programming is of special interest to ACS members, because it will address and explore how the public perception of science and scientists has been formed and how it can be changed. The first (below) includes as speakers, science advisors to TV shows and Hollywood movies with significant science content.

- A. Hollyweird Chemistry (CPRC and YCC; Sun pm, Mon am & pm)
- B. Space Chemistry, How it Helps Space Exploration (CPRC; Mon am)
- C. Communicating Science in the Twenty-First Century to Diversified Audiences (CHED; Wed pm)

Please attend and participate in the dialogue with panelists and other audience members at the end of each session. These symposia were based on topics requested and/or suggested by ACS members.

Finally, as always, please email to me your concerns, questions, and suggestions at [djnelson@ou.edu](mailto:djnelson@ou.edu).

Donna J. Nelson

## REPORT OF THE CHAIR OF THE BOARD OF DIRECTORS

The state of the American Chemical Society's finances is strong. In 2016, we closed with a \$23.8 million net from operations, with tight control over expenses playing an important role in this outcome. For more detailed financial performance information, please see the Committee on Budget & Finance written report.

At our December 2016 meeting, the ACS Board of Directors discussed and voted on a number of issues important to our Society.

Based upon recommendations from the Planning Committee, the Board approved the proposed ACS *Strategic Plan for 2017 and Beyond*. The Planning Committee had solicited and received input for suggested changes from ACS volunteer leaders and staff last year. Numerous inputs were collected and reviewed to develop the recommended updates. I encourage you to visit <http://strategy.acs.org/> to review the plan and see how ACS is poised for the future.

The Board voted to reauthorize funding for the American Association of Chemistry Teachers (AACT) for 2017-2019. This program continues to attract K-12 educators and provide them with opportunities and tools to help them implement innovative and effective ideas into their classrooms.

On the recommendation of the Joint Board-Council Committee on International Activities and with the concurrence of the committees on Ethics and on Economic and Professional Affairs, the Board voted to endorse the framework of the *Global Chemists' Code of Ethics* developed during a workshop in Kuala Lumpur in April of last year. As ACS President Campbell reported, chemical societies and institutions around the world are encouraged to develop their own codes of ethics, utilizing the Global Code as their baseline document on which to build.

The Board continued its commitment to safety by hosting a facilitated strategic discussion to help us focus on critical questions and develop a strategy-driven path forward to include safety as a core value for the Society. It is of great importance to not only our members, but to all practitioners of our science. I am heartened that there is so much energy regarding safety among the Board and many other ACS entities.

As I have mentioned previously to Council and to our members through an ACS Comment in C&EN (Governance reform: toward a modernization of ACS, August 22, 2016) my colleagues and I are taking an active role in improving ACS Governance by making it more agile and appropriate for 2017 and beyond. With a goal of "streamlining and simplifying", our current Governance Design Task Force consists of members of the Board, Council, multiple committees and ACS Divisions. We want to ensure this is an inclusive effort that allows ACS to become an even stronger force for the benefit of our members, our staff, our Society and the chemical enterprise. We fully expect these efforts will liberate human and capital resources, enabling ACS to carry out even more of the great work that our programs accomplish. In my last year on the ACS Board of Directors, I look forward to realizing meaningful reforms in our governance structure and the process we employ in our operations. I thank you in advance for your support in this important initiative!

Pat N. Confalone

MINUTES  
REGULAR SESSION  
BOARD OF DIRECTORS  
AMERICAN CHEMICAL SOCIETY  
Philadelphia, PA  
August 21, 2016

The Board of Directors of the American Chemical Society met in Philadelphia, Pennsylvania, on August 21, 2016, beginning at 12:00 p.m. Pat N. Confalone, Chair, presided. Other Directors present for all or part of the meeting were: John E. Adams, George M. Bodner, Allison A. Campbell, William F. Carroll, Jr., Thomas M. Connelly, Jr., Rigoberto Hernandez, Paul W. Jagodzinski, Lee H. Latimer, Ingrid Montes, Donna J. Nelson, Laura E. Pence, Dorothy J. Phillips, Barbara A. Sawrey, Diane G. Schmidt, and Kathleen M. Schulz. Present by invitation for all or parts of the meeting were: Brian A. Bernstein, Brian D. Crawford, Denise L. Creech, Manuel Guzman, Mary Kirchoff, Martha K. Lester, Flint H. Lewis, Scott Oliphant, Glenn S. Ruskin, David T. Smorodin, John R. Sullivan, Frank E. Walworth, and Marleen G. Weidner. More than three hundred observers were present at various times during the meeting.

Call to Order and Report from Executive Session

Pat N. Confalone, Chair, opened the meeting by welcoming the attendees and asking his Board colleagues to introduce themselves. Next, he stated that at its executive session held August 19-20, the Board of Directors had experimented with a new agenda format that emphasized discussion rather than longer oral reports. He then summarized the key actions and discussion points from that session:

The Board's Actions

- On the recommendation of the Committee on Grants and Awards, the Board voted to approve the Society's nominees for the 2017 Perkin Medal, the 2017 National Science Board Public Service Award, and the 2017 Alan T. Waterman Award; and to approve amendments to the rescission process for the national awards and ACS Fellows designation.
- On the recommendation of the Joint Board-Council Committee on Publications, the Board voted to approve the reappointment of editors-in-chief for two ACS journals.
- On the recommendation of the Society Committee on Budget and Finance, the Board voted to approve the advance member registration fee of \$445 for national meetings held in 2017 and also authorized several program funding requests.

The Board's Discussions

- The Board of Directors received and discussed reports from the Governance Agility Task Force, the Committee on Grants and Awards, the Committee on Planning, the Society Committee on Budget and Finance, and the ACS Governing Board for Publishing.
- The Board is seeking way to engage ACS stakeholders in identifying opportunities and issues for governance improvement that will enable ACS to advance its mission in a streamlined and simplified manner. A new task force that will look at the Society's future governance needs is being created, and the Board itself is considering proposed changes to certain Board committee duties and roles. The Chair's report to the Council on August 24 will provide additional details on a proposed Society-wide initiative to ensure an agile, efficient, and effective ACS.
- The Board discussed the history, role, and contributions of its Standing Committee on Corporation Associates, and the responsibility of ACS to effectively capture the needs of industrial members and their corporations.

- The presidents of Chemical Abstracts Service and the ACS Publications Division shared details on their financial performance and editorial and new product development highlights.
- Executive Director and CEO Tom Connelly and his direct reports updated the Board on issues relating to Human Resources, ACS Finances, Information Technology, and Education.
- The Board heard reports from members of the Presidential Succession on their key priorities and activities as they relate to those of the Board and for the purposes of coordinating their ongoing activities on behalf of the Society.

### Reports of Officers

Dr. Confalone invited the members of the presidential succession and the Executive Director and Chief Executive Officer to offer brief reports.

#### President

ACS President Donna J. Nelson encouraged participants to attend the Presidential programming for this national meeting on the topics of ‘Fracking: Economics vs. Environment’, ‘NSF Opportunities’, ‘Chemical Business of, by, and for the People’, and ‘Chemists and the Public’. She reported that each was developed in response to the concerns of the ACS community. Dr. Nelson announced that planned future programming areas for national meetings next year will be in the areas of public perception of science and scientists; public policy makers; and chemists of courage. She concluded her report by announcing that during the Council meeting August 24, there will be a special discussion to present major outcomes thus far from the Presidential Task Force on the U.S. Employment of Chemists. Additional input will be sought from Councilors to help the task force identify any gaps or to address specific questions.

#### President-Elect

ACS President-Elect Allison A. Campbell stated that she is honored to be serving as President-Elect. She reported that three themes will guide her term in the presidential succession: Science Advocacy; Science Literacy; and Chemistry as a global enterprise. Presidential symposia planned for next year include ‘Holy Grails of Chemistry: Celebrating the 50<sup>th</sup> Anniversary of Accounts of Chemical Research Journal’ and ‘Science for a Sustainable Energy Future’ at the spring meeting in San Francisco, and ‘Building a Safety Culture Across the Chemical Enterprise’ and ‘The Chemistry of our Planet’ for the fall meeting in Washington, DC. She concluded by encouraging members to share their ideas and suggestions with her at [a.campbell@acs.org](mailto:a.campbell@acs.org).

#### Immediate Past President

ACS Immediate Past President Diane G. Schmidt highlighted two special symposia she is cosponsoring and helping to organize at this meeting. The first is titled, ‘Kavli Symposium on Chemical Neurotransmission: What Are We Thinking?’ and will take place on August 22, cosponsored with the Kavli Foundation and several ACS technical divisions and journals. On August 23, Merck and several ACS technical divisions will present ‘Connectivity and the Global Reach of Chemistry: Honoring the Life and Scientific Contributions of Ernest L. Eliel.’

#### Executive Director and Chief Executive Officer

ACS Executive Director and CEO Thomas M. Connelly stated he is pleased to report that Society revenues have increased by 3.4%, or about 4% on a constant currency basis, in the first seven months of this year – the strongest revenue growth in more than a decade. He focused a portion of his report on the exciting products and programs that ACS has announced this year through CAS and ACS Publications, culminating two weeks ago as ACS announced its intent to develop ChemRxiv – a preprint server for chemistry and related sciences. This will be a collaborative effort by ACS, working with other scientific

societies, around the world. A New SciFinder™ will be unveiled later this year, and will be widely available in the first half of 2017. Dr. Connelly also reported that ACS continues to grow its activities globally and that more than 17% of ACS members reside outside the U.S. Even higher percentages of authors and CAS users are outside the US. Five alliances with other international chemical societies will be initiated or renewed at this national meeting as ACS expands its network of alliances. He concluded with a reference to his June 27th *C&EN* Comment on “ACS’s Role in Safety” and called attention to the extensive and varied programming of the Division of Chemical Health and Safety at this meeting. Chemical laboratory safety is receiving needed emphasis within the Society and beyond, and Dr. Connelly assured those present that ACS will continue to look for ways to advance chemical laboratory safety in academic and industrial settings.

### Special Discussion

Dr. Confalone announced that the Board decided to take some time at this meeting to listen to the comments, observations, and suggestions of our members on the topic “ACS National Meetings of the Future.” He explained the topic was selected because National Meetings are a key way that ACS fulfills its obligation to deliver scientific information. While these meetings are successful, the Board is always looking for ways to improve and to anticipate what members’ future needs – as to these meetings and other subjects – will be. To assist the discussion, the Board displayed on the screen a proposed a set of questions.

Almost 30 members offered comments and suggestions on features that would make future national meetings a “must attend,” how ACS can attract a more diverse set of attendees (e.g., industrial chemical engineers and technicians, and underrepresented groups in the sciences), and how ACS can experiment with hybrid meeting models featuring real-time and virtual (online) components. Several commented that while face-to-face meetings have increased in length, in time away from work and school, and in expense (travel, accommodation, and meals), the networking opportunities are invaluable and should be fostered. Poster sessions have become increasingly popular, more accessible, and equal in value to symposia. It was suggested that recording restrictions at sessions should be relaxed to allow more social media communication such as Twitter to come from the meeting. Interactions with speakers and awardees (e.g. “meet and greets” and other forms of social interaction) should be encouraged and built into the programming. Perhaps a greater emphasis could be made to emphasize and increase programming into Thursday of the meeting. It was also observed that undergraduates are a growing component of national meeting attendees, and travel awards and other grants should be considered to encourage continued student attendance.

At the conclusion of the session, Dr. Confalone stated that the input gathered will be shared with a governance task force that is reviewing aspects of ACS national meetings. He thanked everyone for their attendance and participation.

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

Flint H. Lewis  
Secretary

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

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

**Board Elections**

The Board of Directors held two elections: the first to select the chair of the Board for 2017 and the second to elect members for its Executive Committee. The Board re-elected Pat N. Confalone as chair for 2017; and also elected Barbara A. Sawrey and Dorothy Phillips to fill terms on the Executive Committee. Dr. Sawrey will fill a two-year term and Dr. Phillips will fill a one-year term.

**Board's Actions**

- On the recommendation of Dr. Robert G. W. Anderson, Interim President and CEO of the Chemical Heritage Foundation, the Board voted to approve a change in the name of the Chemical Heritage Foundation.
- On the recommendation of the Planning Committee, the Board voted to approve the proposed *ACS Strategic Plan for 2017 and Beyond*. The committee directly solicited input on the strategic plan via a survey of ACS volunteer leaders and staff in June 2016. Additionally, numerous other inputs were collected and reviewed to develop recommended updates. Substantive changes to the plan include:
  - The "Professionalism" core value has been expanded to include Safety and Ethics
  - A clarifying phrase has been added for each core value
  - Goal 2 ("Careers") has been broadened beyond "Careers" and restated
  - Goal 3 ("Education") has been restated
  - The visibility of "Safety", "Ethics" and "Global" has been increased throughout
  - Challenges and opportunities have been updated consistent with the final 2016 EScan
  - A note has been added on the possible impact on these goals from national elections in 2016-2017 (e.g. UK/EU and US in 2016, others in 2017)

The plan will be posted at <http://strategy.acs.org/>

- On the recommendation of the Committee on Executive Compensation, the Board voted to approve several actions relative to compensation for the Society's Executive staff. The compensation of the Society's executive staff receives regular review from the Board.
- On the recommendation of the Committee on Budget and Finance, the Board voted to reauthorize funding for the American Association of Chemistry Teachers(AACT) for 2017-2019 in the amount of \$441K, \$437K, and \$409K, respectively, and to approve a 2017 ACS Operating Budget with a Net Contribution of \$22,234,000, as adjusted to incorporate the new funding for the AACT program; and to approve the 2017 Proposed Capital Budget of \$39,077,000.
- On the recommendation of the Development Advisory Board, the Board voted to approve the 2017 fundraising goal of \$3.0M; and to designate advancing chemistry teaching (AACT), Project SEED (50th Anniversary 2018) and the ACS Scholars Program Endowment Appeal (25th Anniversary 2025) as fundraising priorities for 2017.
- On the recommendation of the Joint Board-Council Committee on International Activities and with the concurrence of the committees on Ethics and on Economic and Professional Affairs, the Board voted to endorse the framework of the [\*Global Chemists' Code of Ethics\*](#) (as approved at a conference on that subject in Kuala Lumpur, April 6, 2016).

- On the recommendation of the Secretary, the Board voted to approve a comprehensive set of proposed amendments to the Board Regulations.
- On the recommendation of the Executive Director and CEO, the Board voted to approve several reappointments to the ACS Governing Board for the Green Chemistry Institute®.
- By consent, the Board voted to ratify several interim actions, including editors for two ACS journals, amendment to the Bylaw regarding the Unemployment Members' Dues Waiver, and dates and locations for future national meetings; approved resolutions for the Canadian Society for Chemistry on the occasion of its 100th anniversary; the German Chemical Society on the occasion of its 150th anniversary; the Royal Australian Chemical Institute on the occasion of its 100th anniversary; the Royal Society of Chemistry on the occasion of its 175th anniversary; approved the establishment of the International Chemical Sciences Chapters in China National Capital Area (JingJinJi), Iraq, and South Western China (as approved by Council); approved the location of San Diego, California for the spring national meeting in 2022; approved the 2017-2018 Biennial Public Policies Priorities Statement; and approved the schedule and location of the Board of Directors meetings in 2017.
- The Board passed a resolution for recently deceased former Board Chair Henry F. Whalen, Jr., and approved resolutions for members George Bodner and Diane Grob Schmidt, who are leaving the Board this year, for their many contributions to the Board and to the Society.

### **The Board's Discussions**

- The Board of Directors received and discussed reports from the Committee on Planning, the Committee on Executive Compensation, the Committee on Budget and Finance, the Development Advisory Board, the Governing Board for Publishing, the Committee on Corporation Associates, and the Joint Board-Council Policy Committee Task Force on Governance Design.
- As part of its initial onboarding process the Board conducted a facilitated orientation session to acclimate new members to the Board and to share experiences of the ongoing Board members. The Board will continue its orientation session at the ACS Leadership Institute in January 2017, Dallas, Texas.
- The Board held a facilitated strategic discussion on safety as a core value for the Society. The session was design to help the Board to discuss critical questions and develop a strategy-driven path forward to harness the energy and role of the Board and other ACS entities concerned with safety.
- Executive Director and CEO Tom Connelly and his direct reports updated the Board on issues relating to Membership, Human Resources, Finances, Information Technology, and the ACS Governing Board for the Green Chemistry Institute®.
- The presidents of Chemical Abstracts Service and the ACS Publications Division discussed with the Board their financial performance and editorial and new product development highlights.
- The Board heard reports from members of the Presidential Succession on their key priorities and activities as they relate to those of the Board and for the purposes of coordinating their ongoing activities on behalf of the Society.

Pat N. Confalone

## REPORT OF THE EXECUTIVE DIRECTOR

The year 2016 was a year of change and progress on many fronts for the American Chemical Society. We invested significantly in staff development through our HR Leadership Center. Our Leadership in Action program has now trained virtually all ACS staff in supervisory roles. Training was done in classes that mixed leaders from multiple units, combining DC with Columbus staff. For our Executive Leadership, we conducted a series of seven sessions, where we worked on our collaboration and leadership skills, in the context of improving our execution of the Strategic Plan. During the last three sessions, we added about 15 additional senior leaders, to broaden the training impact. We realized real-time benefits of this training, as can be seen by ACS performance during 2016.

Both CAS and ACS Publications had very strong years in 2016. CAS launched its rebranding – new graphics, plus added emphasis on delivering solutions, rather than simply information. CAS launched new products such as MethodsNow™ and *Chemisches Zentralblatt*. The roll out of SciFinder<sup>n</sup>™ also occurred before year-end 2016.

ACS Publications launched *ACS Sensors*, *ACS Energy Letters* and *ACS Omega*, our global, open-access journal. All three have been well received. Total citations and downloads of ACS Publications set new records. ACS also announced our intent to explore ChemRxiv™, a chemical sciences preprint server.

Our work on membership is starting to yield results, but we experienced a year-on-year membership decline, albeit the smallest decline in recent memory. The Society ended 2016 with 156,129 members which is 0.5% less than year-end 2015 (156,876). Despite the overall membership decline, once again, international membership was a source of growth. We made progress in bundling membership with other Society programs, product and services.

Subject to audit, financially, 2016 was a solid year. For the thirteenth consecutive year, ACS generated positive operating results. We entered the year expecting strong challenges, and a lower net from operations than the prior year. However, through a combination of strict cost control, and focus on revenue growth, we were able to improve on prior year performance. Both CAS and ACS Publications generated record contributions. In addition, our effort to streamline and simplify our operations, which we now call Operational Excellence, is also making meaningful contributions in IT, Finance and HR. We made progress on key metrics such as revenue growth, which was the strongest in a decade, growing 2.9% to a record \$526.8M, despite currency headwinds. Free cash flow was positive, at \$20M, reversing the 2015 negative outcome. Also, unrestricted net assets grew 27% to \$207.8M, owing to net from operation, investment gains, and actuarial adjustments. All of this was achieved while increasing investment in new products and global reach.

Finally, December saw the largest reorganization of senior leadership at ACS for many years. Director of Membership & Scientific Advancement, Denise Creech, announced her intent to retire in early 2017, which precipitated a search process that began in mid-2016. Out of a large field of applicants, we were able to recruit a strong replacement, Kate Fryer, from the Society for Neuroscience, where she had a strong track record for building membership and running large, contribution-generating meetings. Kate's arrival also allows us to separate Scientific Advancement from Membership, the new unit being led by Mary Kirchhoff, and promoting LaTrea Garrison to lead Education. The changes appear to be well received by staff and volunteers. I hope you will take the opportunity to introduce yourself to Kate in San Francisco and thank Denise for her many contributions over the years.

On a personal note, I would like to express my thanks to Council for their support and assistance throughout my first, full calendar year as Executive Director & CEO. I believe we have positioned ACS for a strong year in 2017, and the years to follow.



Below are selected 2016 Highlights of ACS Achievements. A more comprehensive list will be posted on the ACS website [www.acs.org](http://www.acs.org) in March.

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

• **ACS Plans to Organize *ChemRxiv*<sup>TM</sup> as a Collaborative Chemistry Preprint Server**

In August 2016, ACS announced its intentions to launch a preprint server for chemistry, *ChemRxiv*<sup>TM</sup>, as a joint endeavor with other non-profit organizations. Preprints offer authors and funders many advantages in rapidly disseminating research results and data, attracting constructive feedback from peers, and establishing priority in competitive research fields.

• **CAS Revenue Growth**

CAS revenues grew by a solid 4.0% in 2016 (without the negative impact from year-over-year changes in foreign currency exchange rates). This growth rate was the largest for CAS in 8 years, and primarily driven by increases in SciFinder<sup>®</sup> and New Product revenues. As a result of the revenue growth and cost management efforts, CAS achieved a \$42.6M net contribution and a record return on revenue result of 13.4% for 2016.

• **New Product Initiatives**

CAS made major advances in new product developments, launching three new product solutions. Additionally, SciFinder<sup>n</sup><sup>TM</sup> was launched to select customers in North America, and two more solutions are in the product pipeline for 2017. Launched new products include:

- PatentPak<sup>TM</sup> on STN was launched in January. More than 1.7M chemist indexing markup documents are now available, and other patent PDF full-text documents number more than 9M by year-end.
- MethodsNow<sup>TM</sup> was launched in February with complete functional capabilities and content sets. By year-end, MethodsNow had 3,581,384 reaction protocols and 320,736 analytical-bio protocols.
- *Chemisches Zentralblatt* was made available via SciFinder<sup>®</sup> as the product ChemZent<sup>TM</sup> in June with English-translated abstracts and associated indexing. ChemZent has more than 2.9M English language abstracts and more than 6M CAS index entries.
- SciFinder<sup>n</sup><sup>TM</sup> was launched in November. This powerful new solution provides innovative answer relevancy capabilities, new and unique authoritative CAS content, and enhanced workflow features to help researchers be exponentially more productive.

• **Global Expansion**

Through ACS International, Ltd. (ACSI), in 2016 CAS continued to expand its global reach by hiring 14 new people in the following eight countries: UAE, Japan, France, South Korea, South Africa, Mexico, Taiwan and China. Expansion efforts now total over 50 new team members bringing direct representation to over 20 countries. Most importantly, these individuals can be credited with bringing over \$6M in new revenue since the expansion efforts began. These new representatives have helped create a significant number of new customer contacts and played a significant role in new product sales.

- **New Branding**

CAS launched new branding in 2016 with the initial ad campaign “Get to Know CAS,” building off research that found, while people know CAS products, they do not connect the products to CAS. Promotions also included an inspirational video shared on [www.cas.org](http://www.cas.org) and YouTube, development of an email and direct mail campaign, new templates, a brand story, and new brand usage guidelines.

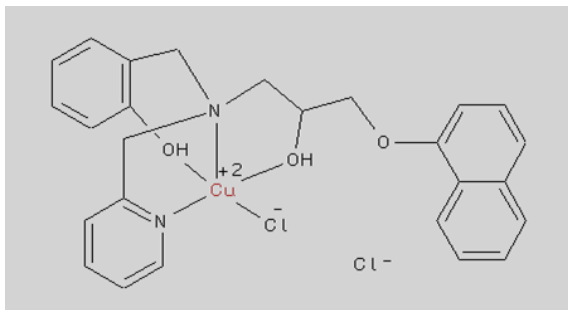
- **Chemistry Class Advantage – Powered by SciFinder®**

CAS's Chemistry Class Advantage, a digital chemistry learning solution that provides undergraduate students with lessons based on peer-reviewed research, teaches SciFinder® skills, guides critical evaluation of journal literature and provides students with real world examples that illustrate the empirical nature of chemistry. A successful pilot and beta phase were completed in 2016.

- **Content Growth**

CAS achieved many content related milestones in 2016, including record levels as follows:

- A record number of new substance registrations occurred in 2016, totaled 21,542,278. This exceeded the prior record set in 2015 of slightly over 14.5M. Over half of these new registrations in 2016 were from chemical catalogs.
- The 125-millionth compound was assigned CAS Registry Number 2043648-32-2, identified from a Brazilian patent assigned to Universidade Estadual do Norte Fluminense Darcy. The substance is a novel coordination compound that demonstrates antineoplastic activities as an antitumor agent when tested in mice.



- More than 1.36 million indexed records were added to the CA/CAPplus family of databases. Patents continue to grow as a percentage of the total indexed records, now attributing greater than 1/3 of all records indexed by CAS scientists in 2015.
- Nearly 1.7 million new single step reactions were added to the CAS reaction collection. This exceeds the number in 2014 of 1.5 million, with reactions arising from more than 100,000 journal and patent documents.

- **Unified Architecture (UA) and Operational Excellence**

Strong collaboration and cooperation between Washington and Columbus Technology continues. The formal Unified Architecture (UA) initiative, which commenced in 2013, is now complete. UA enabled several new collaborative service offerings, such as a combined content repository for publication-ready data from CAS and ACS Publications, tools for analyzing customer sales analytics across both divisions, and subject-based email alerting and browsing of the new *ACS Omega* journal as enabled via

semantic terms from the CAS lexicon. Moreover, UA established a new paradigm for continued collaborative efforts, such as the ongoing effort to normalize company name and address data across all ACS systems, and the Identity and Access Management initiative to provide seamless authenticated access across all ACS Web-based products and services.

Work in the areas of Information Security, Workplace Technology, Business Technology and Infrastructure Technology and Services have progressed and are delivering positive results. These include combining organizations in Workplace Technology to scale support of ACS staff worldwide, hiring a Chief Information Security Officer and amalgamating organizations to improve our overall security posture, and moving forward with combined business and infrastructure systems support to start to reduce overall costs.

- **Advanced the Society's Mission through the Publications of Three New Peer-reviewed Journals - *ACS Energy Letters*, *ACS Sensors*, and *ACS Omega***

*ACS Energy Letters* and *ACS Sensors* performed well. *ACS Omega* was announced in late 2015 and began publishing in July as the Society's second fully open access journal. *ACS Omega* expands the global reach of the ACS Publications portfolio through four global Co-Editor appointments, provides a key strategy toward capturing and retaining articles within the ACS Publications journal portfolio, and provides an additional source of revenue for the Division and contribution to the Society.

- **Developed and Announced *ACS Earth and Space Chemistry*, Expanding into the Physics and Engineering Research Communities**

*ACS Earth and Space Chemistry* is positioned as a preeminent interdisciplinary journal featuring fundamental and applied research in earth and space sciences. This journal strengthens ACS brand recognition by capturing content from competitors and expanding our physical and applied chemistry portfolios.

- **ACS Journals Continue To Be #1 in Impact Factor and/or Citations in 14 Scientific Categories**

ACS Journals continue to be #1 in Impact Factor and/or citations in 14 scientific categories- including six in core chemistry (Analytical, Applied, Inorganic & Nuclear, Medicinal, Multidisciplinary, and Organic) according to the 2015 Journal Citation Reports® (JCR), released by Thomson Reuters. Two-thirds of the 46 ACS journals featured in the report had an impact factor of 4.0 or higher, with a portfolio median of 4.820. In total, ACS journals were cited more than 2.76 million times in 2015, up from 2.6 million citations in 2014, for an increase of 6%. Seventeen ACS journals received their highest-ever impact factors and new journals earned highly competitive inaugural impact factors.

- **Robust Reader Demand and Other Metrics for ACS Journals**

ACS Publications delivered a record 93.8 million COUNTER-compliant downloads of articles to users during 2016. Readers worldwide viewed 182 million abstracts from across our online platform.

- **Author Demand to Publish Peer-reviewed Research with ACS Remains Strong**

During 2016 more than 142,000 manuscripts were received for consideration by ACS Publications journals. This represents an overall increase in submissions of 9.0% from 2015. Published articles approached 42,000, an increase of 4.3% from prior year.

- **C&EN Global Enterprise Was Developed and Launched**

During the second half of 2016, the Division management engaged Digital Strategy staff to work alongside team members from C&EN, Journals Production, IT PUBS, Marketing, Sales, and WASH IT to develop a new C&EN electronic product for ACS Publications institutional subscribers. *C&EN Global Enterprise* went live with the first January 2017 issue, immediately doubling C&EN's global institution-based readership.

- **Multimedia Educational Webinars**

ACS Webinars produced 44 weekly webinars for members and prospective members in 2016. The live broadcasts drew more than 50,000 registrants and 25,000 participant sites combined—with an estimated 10% of sites having multiple individual participants. 22 of the weekly webinars were delivered as part of two industry series—focused on drug discovery and advanced materials. Notably, over 2/3 (69%) of participants surveyed stated they are more likely to join or renew their ACS membership as a result of ACS Webinars. In addition, the overall satisfaction rate for weekly webinars was over 90%.

- **ACS Petroleum Research Fund**

In 2016, the ACS Petroleum Research Fund awarded 203 grants, for a total of \$20.265 million, in support of “advanced scientific education and fundamental research in the petroleum field.” PRF has awarded \$651.56 million in research grants since 1954. Sir J. Fraser Stoddart of Northwestern University became the 29<sup>th</sup> Nobel Laureate with previous PRF support.

- **Hazard Assessment in Research Laboratories Website Launched**

The Education Division and Web Strategy and Operations, in collaboration with the ACS Committee on Chemical Safety, launched a new website with a rich collection of methods and tools for assessing hazards in research laboratories at [www.acs.org/hazardassessment](http://www.acs.org/hazardassessment). The site is based on *Identifying and Evaluating Hazards in Research Laboratories*, a resource created in response to a recommendation by the U.S. Chemical Safety Board for ACS to develop guidance on assessing and controlling hazards in research laboratories.

- **ACS Industry Engagement**

In September, Membership & Scientific Advancement and our Office of Public Affairs played a lead role in the successful Chief Technology Officer (CTO) Summit, SOCMA Tech Leaders meeting, and a joint ACS-SOCMA Scholars Golf Outing. The CTO Summit brought together 20 CTOs for a productive 1.5 day engagement. A half-day program was also held for several SOCMA Tech Leaders. Both events featured active engagement of federal policymakers and external content experts that further advanced ACS's reputation as a neutral convener. The first ever ACS-SOCMA golf outing was a success and raised \$20K for ACS Scholars. Throughout 2016, ACS engaged with ACC at its annual meeting in June, collaborated on the Congressional Chemistry Caucus, a mini green/sustainable chemistry summit and a joint effort to halt use of chemical weapons.

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

- **Helping Chemical Practitioners Thrive in the Workplace**

The ACS Career Navigator™ achieved more than 8,500 substantial interactions with ACS members and potential members worldwide to meet their professional needs, exceeding the 2016 goal. This represents over 27,000 hours (approximately 3 years) spent in the classroom and in consultation with ACS members and stakeholders among the following offerings: career services (6,700 participants), professional education (1,000 participants), and leadership development (800 participants).

- **Engagement through International Chemical Sciences Chapters**

Membership & Scientific Advancement made a concerted effort to create new and strengthen existing chapters in 2016. Following the approval of new international chapters in Australia, Brazil, India, Nigeria, Peru, Taiwan and the UAE in 2015—the ACS Board approved three new chapters in 2016 in Southwestern China, JingJinJi China, and Iraq.

- **Advancing Goals through Alliances**

ACS entered into formal alliances with several organizations in 2016 to advance mutual goals and activities. Memorandums of Understanding were signed with the Chinese Chemical Society, the Chinese American Chemical Society, EuCheMS, the Mexican Chemical Society (SQM), NOBCCHE, the Chemical Research Society of India, Société Chimique de France, and ABCChem. The agreements are designed and executed to advance a range of mutual goals through collaborative efforts—including member benefits and discounts, conferences, networking, mentoring, awards, ethics and safety, outreach activities, and public policy.

- **The Member Insurance Program Delivered Insurance and Financial Security Information to ACS Members**

Mini-workshops were held at both ACS national meetings on *Insurance Matters for International Professionals—International Term Life*, and *Chemical Educators—Safety Risks and Your Personal Liability*. At the Fall National meeting, in partnership with the American Institute of Certified Public Accountants, younger members had the opportunity to attend a financial planning workshop entitled *Personal Finance: What's the Equation?* Additionally, staff presented two posters at SciMix through the Division of Professional Relations and sponsored safety seminars featuring distinguished safety experts at two Regional Meetings. Webinars were presented on *Long Term Care 101*, *Chemical Educator's Liability*, and *International Life Insurance*.

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

- **Ten Millionth Visit to Middle School Chemistry Website**

Since launching in the fall of 2010, Middle School Chemistry <http://middleschoolchemistry.com> has received a total of 10,021,365 visits from 234 countries and territories. The entire book has been downloaded 44,030 times.

- **AACT Membership Tops 4,000**

AACT ended 2016 with 4,052 members. Of this total, 88% are K–12 teachers of chemistry. In 2016, AACT received \$95,000 in grants from the Camille & Henry Dreyfus Foundation and PPG Industries to support the development of online resources. The second and third Dow & AACT teacher summits were held in Louisiana and Texas. Thirty-six teachers participated, 200 teaching resources were created, and attendees rated their summit experience and overall impression of AACT a 4.9 on a 5-point scale.

- **Record: Over 20K Undergraduate Student Members at Year-end**

There are 20,609 undergraduate student members, compared to 19,862 in December 2015. There are currently 513 active student chapters (1,123 in total), with 28 international student chapters chartered.

- **ACS Development Office Produces Professor Robert Langer/Dr. Keith Reed Video**

Development worked with more than one hour of videotaped, unscripted conversation between MIT University Professor Robert Langer and former ACS Scholar Keith Reed to create a compelling three minute video. The story that emerges is that of the impact of mentors on their educational and career decisions. Dr. Reed's experience as an undergraduate at MIT was made possible in large part by a scholarship from the American Chemical Society. Dr. Langer strongly endorses the ACS Scholars Program as one way to help develop new leaders in the chemical profession. The video received wide distribution.

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

- **Media Outreach**

The Office of the Secretary and General Counsel improved public appreciation of chemistry in 2016 by connecting chemistry with the public through print, electronic and video initiatives. For the first 10 months of 2016 our media outreach resulted in 21,204 articles in print and online news media outlets with a potential audience of 18.2 billion people. In collaboration with the Publications Division, we launched an embargoed journal content pilot project in 2016, which included issuing more than 25 embargoed press releases, which resulted in more than 300 news stories that reached a potential audience of 2.2 billion. *ACS Reactions* videos became ACS's largest social media brand with more than 430,000 combined followers on YouTube, Facebook and Twitter. ACS Experts engaged 170 times with the news media and general audiences including *The Today Show*, *Good Morning America*, *CBS Evening News*, *CNN* and the *Wall Street Journal*. National Historic Chemical Landmarks (NHCL) grew to 83 in 2016 and page views of the website are on track to exceed last year's record 550,000.

- **Advanced ACS Policy Priorities**

ACS was able to secure bi-partisan passage and enactment of the Frank R. Lautenberg Chemical Safety for the 21<sup>st</sup> Century Act; secured language boosting federal investment in sustainable chemistry in the American Innovation and Competitiveness Act; successfully launched a Congressional Chemistry Caucus, productively helped develop legislative recommendations to address the nation's helium shortage, and secured passage of our key green chemistry provision. ACS also hosted six Science & the Congress briefings on a number of timely topics to inform policymakers and developed a unique webinar focused on the outcome of the 2016 U.S. election and how ACS would work with the 115<sup>th</sup> Congress and Trump Administration to advance its policy priorities.

**ALL STRATEGIC PLAN GOALS—Support for ACS Governance and Operations**

- **ACS Maintains a Robust and Evolving Strategic Plan**

The *ACS Strategic Plan for 2017 and Beyond* was approved and launched on the web (at <http://strategy.acs.org>) in January 2017. It provides the basis for all of the Society's work in support of the Vision, Mission, and Core Values. The Core Values were expanded to include both safety and ethics for 2017. The four Goals are each supported by a new set of objectives representing the most important priorities for the ACS to pursue. The strategic plan is the result of broad engagement with governance and staff members, consolidated by the Planning Committee, and approved by the ACS Board of Directors.

- **Ongoing Environment Scan Informs ACS Strategy and Operations**

In 2016, we continued our ongoing scan of the environment for chemists, chemistry, and the ACS. Key trends were prioritized by the Board Standing Committee on Planning, and the most significant uncertainties were explored and discussed by a wide range of ACS volunteers and staff. Engagement with ACS committees, members, and other stakeholders expanded, and focused presentations were discussed in numerous venues throughout the year. The Environment Scan not only drives the Challenges & Opportunities included in the ACS Strategic Plan, but has informed strategic and operational planning at all levels of the Society.

- **Governance Advances**

The Office of the Secretary and General Counsel supported a Board Retreat; several major task force activities (N&E's VOTE 20/20 and the Governance Design Task Force and its two predecessors); presented a major overhaul of the Board Regulations, which passed unanimously; and managed successfully the abrupt transition to a new election vendor for ACS National elections. When asked to rate their level of satisfaction with the web voting process, 96% (11,161) of those casting ballots said they were very satisfied or satisfied. We added further value by proposing and implementing an overhaul of the Board agenda, freeing up time for larger discussions; proposing a revamped Board orientation format; and organizing N&E's consideration and response to a local section election appeal.

- **Internal Audit**

In 2016, the Society successfully completed an internal audit of its lobbying activities. This is the second year ACS has undergone an internal audit and management is finding the audits add value to the Society's operations. The audit firm, Baker Tilly, issued its report in September 2016 and the Society implemented Baker Tilly's recommendations to strengthen internal controls and reporting over lobbying activities by November 2016.

- **Enterprise Financial Systems Program Implementation**

In 2016, we continued our work on the Enterprise Financial Systems Program (EFSP) implementation. As background, in 2014, PeopleSoft 9.2 and Hyperion Planning Plus were selected as the financial reporting and budgeting systems to be used across the Society. In addition to gaining operating efficiencies, the primary benefit of using common financial systems is easier and standardized access to financial information across the organization. The EFSP implementation started in mid-2015 and is comprised of three projects:

- *Chart of Accounts (COA) Re-Design* – this project was completed in December 2015 and will provide the basic chart field structure for use in the financial systems.
- *PeopleSoft 9.2 Implementation* – this project will provide a common hardware and software environment, common chart of accounts structure and common business processes to support financial accounting and reporting for ACS operations in all locations. This will go live April 2017.
- *Hyperion Planning* – this project will establish the new software and processes for how ACS will budget and forecast. This project will also coordinate with the COA Re-Design and PeopleSoft 9.2 Implementation projects to determine how and where financial reporting will be performed. It will provide a common hardware and software environment, common dimensions and common business processes to support ACS operations in all locations. Implementation was completed in 2016 and will Go Live for use in the 2017 Probable 1 budget cycle.

- **Improved Security**

A new position, Chief Information Security Officer was established. This enabled ACS to combine its technology security management across the enterprise. This change will result in improved security and improved incident response. The position was filled in November and integration of the formerly separate security units is under way.

- **Integrated IT Workplace Technology**

In order to more effectively serve a global work force, formerly separate IT Workplace Technology functions were combined. Over time this will result in improved service levels for help desk tickets, cost efficiencies through standards and the elimination of unnecessary duplication. This change will result in more consistent service levels regardless of a user's location.

- **Search Enhancements**

Two significant experience and functionality changes were made to ACS.org search. The first focused on the initiation of the search experience: suggest-as-you-type (SAYT). The second focused on the search results page (SRP).

SAYT enhancements created a dynamic experience that responds to their typing. Curated results are provided as they type their search terms. Simultaneously, SAYT provided active, dynamic links to search other ACS properties (Publications, CAS, and C&EN).

SRP enhancements included design simplification and the addition of Curated Results. Tapping into institutional knowledge and analysis of user patterns and trends, we now provide users with added-value search. Recommended links and supporting content for high-value terms are highlighted at the front of the search experience, enabling a richer, more personal search experience.

- **Volunteer Portal**

The Task Force on Web-Based Resources for Volunteers was created to help consolidate and focus content-related to ACS volunteer opportunities, resulting in increased outreach participation and awareness of volunteer opportunities. Combined input from task-force members, review of existing usage data, and user research with current and potential volunteers at national meetings and the 2016 Leadership Institute, determined that most participants look for specific and local ways to volunteer in response to a need that is meaningful to them. Having a volunteer website on [www.acs.org](http://www.acs.org) is an important element to increasing awareness of opportunities, and it must be supplemented by other marketing tools to engage and inform potential participants. Coordination with local groups, opportunities, and contacts is expected. A project to develop a volunteer-matching platform for a variety of ACS programs is underway. A new volunteer portal website that is engaging, welcoming, focused on specific options (e.g., “do hands-on demonstrations,” and “get involved in local leadership of your ACS section”), and offers specific suggestions was developed. Testing is underway with the Member Insight Panel prior to the presentation at the 2017 Leadership Institute and will be launched on [www.acs.org](http://www.acs.org) soon after.

## **Closing Thoughts**

We intend to build on the successes of 2016 in the current year. A number of our senior leaders are in new roles as we begin 2017. They are excited by the prospects of extending the work of their predecessors, to drive further improvements in our quest to achieve our Vision of *‘Improving people’s lives through the transforming power of chemistry’*. I look forward to addressing Council in San Francisco, where I will review 2016 highlights, and discuss our progress in 2017.

Thomas M. Connelly, Jr.



## REPORT OF THE GOVERNING BOARD FOR PUBLISHING TO ACS COUNCIL

The following is a brief summary of the July and November 2016 meetings of the Governing Board for Publishing.

### **CAS (Chemical Abstracts Service)**

CAS management reported on CAS progress in 2016 on specific objectives and financial performance. CAS management plans to exceed the 2016 Plan for revenue and Net Contribution. The Proposed Plan for FY2017 reflects tangible growth in revenue and Net Contribution. SciFinder<sup>®</sup> was launched in November as planned with the first user group intentionally focused; initial feedback has been positive. New product launches are all performing well, and the next wave of products is under development, and currently being market tested.

### **ACS Publications**

ACS Publications Division management reported on the Division's 2016 operational highlights and financial performance. The Division and Journals Program both are tracking or exceeding their respective phased budgets for Revenues and Net Contribution. The Division has successfully launched 3 new journals, including the July start of *ACS Omega*, the Society's first solely open access title supported by author publishing charges, and two subscription-based interdisciplinary journals, *ACS Sensors*, and *ACS Energy Letters*, for which early uptake by authors and readers has been robust. An Editor-in-Chief has been secured for *ACS Earth and Space Chemistry*, and development work has begun for the planned publication of that journal in 2017. *ACS Central Science* has also made significant strides in 2016 in publishing on schedule and on budget high quality article content that is demonstrating strong citations, web usage, and broad media coverage. Following on the Society's announcement that it plans to undertake a chemistry preprint server, tentatively entitled *ChemRxiv*, ACS Publications management have advanced that initiative jointly with CAS and potential external partners during this formative phase. Working in concert, Pubs Digital Strategy and Washington IT staff are nearing completion of development of the new C&EN Institutional product (to be called *C&EN Global Enterprise*) for introduction in 2017.

Dr. Thomas Connelly, Jr., Chair

**DRAFT**  
**MINUTES**  
**COUNCIL POLICY COMMITTEE**  
**AMERICAN CHEMICAL SOCIETY**  
Philadelphia, Pennsylvania  
August 23, 2016

The Council Policy Committee (CPC) of the American Chemical Society met in Philadelphia, Pennsylvania, on August 23, 2016, beginning at 8:00 a.m. Chair Donna Nelson presided. Other voting members present were Harmon B. Abrahamson, Lawrence Barton, Frank D. Blum, Allison A. Campbell, Mary K. Carroll, Dwight W. Chasar, Thomas M. Connelly, Jr., Alan M. Ehrlich, Lynne P. Greenblatt, Lisa Houston, Doris I. Lewis, John Pochan, and Linette M. Watkins. Flint H. Lewis served as Secretary.

The following chairs of Society, Elected, and Standing Committees of the Council, all nonvoting members of CPC, attended all or portions of the meeting: James C. Carver, D. Richard Cobb, Wayne E. Jones, James M. Landis, Jr., and Martin D. Rudd. Several Councilors, ACS staff, and others were present as observers at various times during the meeting.

Approval of Minutes

1. VOTED that the Council Policy Committee approves the minutes of the March 15, 2016, meeting of the committee.

Reports of Committee Chairs and Society Officers

CPC divided into four subgroups for the purpose of reviewing the proposed oral reports to Council of officers and committee chairs. The subgroups met from 8:15 to 9:15 a.m.; Frank Blum (for Donna Nelson), Mary Carroll (for Diane Grob Schmidt), Allison Campbell, and Alan Ehrlich served as chairs of the subgroups.

Upon reconvening at 9:30 a.m., the committee received reports from the chairs of the subgroups, with the reports emphasizing items for which Council action would be required on August 24. In the subgroups, reports were presented by the officers and by the chairs of the Elected Committees on Committees and Nominations and Elections; the Society Committees on Budget and Finance and on Education; the Standing Committees on Constitution and Bylaws, Divisional Activities, Economic and Professional Affairs, Local Section Activities, Meetings and Expositions, and Membership Affairs; the Other Committees on Analytical Reagents, Project SEED, and Ethics; and the Joint Board-Council Committees on Chemical Abstracts Service, Chemical Safety, Community Activities, Environmental Improvement, International Activities, Minority Affairs, Public Relations and Communications, Science, Senior Chemists, Women Chemists, and Younger Chemists, including reports on progress and recommendations resulting from their work during their sessions held in Philadelphia, Pennsylvania, prior to the CPC meeting. By individual actions, CPC concurred in certain recommendations to be made to Council by the committees. These appear below and, as appropriate, in the record of the August 24 Council meeting. All references in these minutes to Council actions and reports relate to the August 24, 2016, meeting of the Council unless otherwise noted.

2. VOTED that the Council Policy Committee authorizes the use of projected graphics as part of the reports to Council by the Committees on Analytical Reagents, Budget and Finance, Chemical Abstracts Service, Chemical Safety, Committees, Community Activities, Constitution and Bylaws, Divisional Activities, Economic and Professional Affairs, Local Section Activities, Project SEED, Public Relations and Communications, and Younger Chemists.

3. VOTED that the Council Policy Committee authorizes the use of projected graphics as part of the reports to Council by the President and the President-Elect.
4. VOTED that the Council Policy Committee authorizes additional time for the report to Council by the chair of the ACS Board of Directors and the chairs of the Committees on Chemical Safety and Constitution and Bylaws.
5. VOTED that the Council Policy Committee authorizes the President and the chairs of the Committees on Community Activities, Public Relations and Communications, Women Chemists, and Younger Chemists to place brochures, cards, or buttons on the seats at the Council meeting.
6. VOTED that the Council Policy Committee concurs with the Committee on Committees recommendation that the Committees on Analytical Reagents and on Chemical Abstracts Service be continued.
7. VOTED that the Council Policy Committee concurs with the Committee on Membership Affairs' recommendation that Council approve the Petition to Extend the Unemployed Members' Dues Waiver.
8. VOTED that the Council Policy Committee concurs with the Committee on Local Sections recommendations that Council approve changes in territory for the Permian Basin and Upper Peninsula local sections.
9. VOTED that the Council Policy Committee concurs with the Committee on Economic and Professional Affairs' recommendation that Council approve the Chemical Professional's Code of Conduct.
10. VOTED that the Council Policy Committee concurs with the Committee on Constitution and Bylaws recommendation that Council approve revisions to the Charter Bylaws for Divisions in Probationary Status and for New Local Sections.

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

Vice-Chair Alan Ehrlich began his report by noting with sadness the passing of former CPC member Betty Derrick. He then provided an overview of the activities of several CPC subcommittees and task forces, including the Subcommittee on Long-Range Planning and the Subcommittee on Petitions, Constitution and Bylaws. Dr. Ehrlich reported that as CPC Vice-Chair, he is a member of the Board Committee on Planning and has been involved in a successful strategic planning retreat for that committee. He reminded his colleagues that CPC unanimously approved participation in a joint Board of Directors-CPC Task Force on Governance Design and noted that CPC member Mary Carroll has been named a co-chair of that task force. CPC continues to participate in the Committee on Nominations and Elections (N&E) task force, "Vote 20/20", which will review elections procedures and practices. In accord with CPC's Guidelines for Special Discussion Items at Council Meetings, Dr. Ehrlich brought forward a request from ACS President Donna Nelson to have another Council Special Discussion to gather input and comments related to her Task Force on the U.S. Employment of Chemists.

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

Reports of Subcommittees and Task Forces

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

Subcommittee Chair Harmon B. Abrahamson reported that the Committee on Committees (ConC) brought an action item to the subcommittee relating to the size of the Committee on Ethics. The Committee on Ethics was formed with nine members, but its workload has grown and ConC is recommending that CPC expand that number to 12. Dr. Abrahamson reported that it is within the jurisdiction of CPC to take this action.

12. VOTED that the Council Policy Committee authorizes the Council Other Committee on Ethics to consist of up to 12 members.

Dr. Abrahamson reported that the subcommittee discussed the two petitions that appear in the Council agenda for consideration and accepted some of the Committee on Constitution and Bylaws' recommended changes to the Petition for Removal of Officers and Councilors and reached consensus on modifications to the procedures document that will accompany that petition.

13. VOTED that the Council Policy Committee approves and recommends Council adoption of the Procedure for Removal of Officers and Councilors.

B. Report of the Subcommittee on Long-Range Planning

Subcommittee Chair Mary Carroll reported that the subcommittee met with the Council Representation Review Working Group, which is a larger group consisting of the subcommittee augmented by representatives from LSAC, DAC, and IAC. The working group discussed who should be represented on the Council, the appropriate size of Council, projections in the international growth of ACS membership, what the prevailing models of governance were at the time of the formation of Council, and the expectations of international chapters. The working group will seek additional data on the current size and composition of Council, the number and distribution of Councilors serving on committees, the ratio of Councilors to Non-Councilors on committees, and Councilor demographic information. Feedback was overwhelmingly positive on the New Councilor Orientation, which was held March 12, and on the preparatory webinar, which was held in February. The subcommittee is considering the possibility of a strategy café for all Councilors at the spring 2017 national meeting.

Summary of Councilor Travel Expenses

Dr. Nelson called attention to the Councilor travel reimbursement program summary for the spring 2016 national meeting and noted that it's in the committee's agenda.

Summary of Non-Councilor Travel Expenses

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

Schedule of Business Sessions

The following schedule of activities at the spring 2017 national meeting is the result of previous authorization by the CPC:

Board of Directors:	Sunday, April 2
Council Policy Committee:	Tuesday, April 4
Council:	Wednesday, April 5

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

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

#### Council Agenda

14. VOTED that the Council Policy Committee approves the Agenda for the August 24, 2016, meeting of the Council.

#### CPC and Council 2016 Budgets

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

#### Open Forum

During the open forum, the following questions and comments were raised: Councilor Dorothy Phillips asked how CPC could be more of a policy-setting body. Councilor Ingrid Montes asked about the timing of distribution of the Councilor talking points and whether they could be available at the Council meeting. Dr. Ehrlich noted that there were a larger number of requests than usual at this CPC meeting for approval of handouts at the Council meeting. He announced his intention to form a small CPC working group to suggest a policy on Council handouts. Others commented that there is alternative display space available for materials at Council meetings and that the guidelines call for assistance from the requesting committee or officer in distributing any approved handouts. Lynne Greenblatt, Lawrence (Lol) Barton, Lisa Houston, and Alan Ehrlich will compose the working group to recommend a policy on distribution of materials at Council meetings.

#### New Business

The committee reviewed a request from the Committee on Nomenclature, Terminology, and Symbols (NTS) to approve NTS as a committee covered by the Non-Councilor Travel Reimbursement Policy.

15. VOTED that the Council Policy Committee approves the Committee on Nomenclature, Terminology, and Symbols as a committee covered by the requirements of the Non-Councilor Travel Reimbursement Policy.

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

Flint H. Lewis  
Secretary

**AMERICAN CHEMICAL SOCIETY**  
**Procedure for Removal of a Councilor or Alternate Councilor**

Section 1. Any Local Section or Division Councilor or Alternate Councilor, of the American Chemical Society (hereinafter referred to as “Councilor” and the “SOCIETY”, respectively), may be removed from office for neglect of duties, misconduct, or conduct that tends to injure the Local Section or Division that they represent, or the SOCIETY or to adversely affect its reputation or that is contrary to or destructive of its objects.

Section 2. The procedure to remove a Councilor shall be initiated when a petition detailing the specific charges and reasonable substantiating evidence is submitted in writing to the Secretary of the SOCIETY. Such petition must be signed by at least five members of the unit that the Councilor represents, or by at least five voting Councilors.

Section 3. The Secretary shall, without delay, forward the documented charges to the Vice-Chair of the Council Policy Committee (CPC), who shall determine that the members submitting the charges are aware of the gravity of their actions and the procedures to be followed. Within thirty days of receipt, the Vice-Chair shall create a Hearing Subcommittee, with membership subject to ratification by the President of the SOCIETY. The Vice-Chair of CPC shall chair the Hearing Subcommittee, which shall include five additional disinterested members of CPC with the longest tenure on CPC. If the Vice-Chair of CPC is not a disinterested party, the President of the SOCIETY shall appoint a member of CPC to chair the Hearing Subcommittee.

- a. The Hearing Subcommittee shall communicate to the accused Councilor the fact that a removal petition has been filed and the details of the charges that have been raised. Upon notification, the accused Councilor shall have thirty days to make a written response to the allegations. After reviewing the Councilor’s response, the Hearing Subcommittee may remove the Councilor with a two-thirds (2/3) vote of its members. The Vice-Chair shall inform the Councilor and those who brought the charges of the decision of the Hearing Subcommittee.
- b. If the Hearing Subcommittee votes to remove the Councilor, the accused Councilor shall choose one of the following options:
  - (1) The accused Councilor may resign from his/her seat in the Council of the SOCIETY.
  - (2) The accused Councilor may request a hearing by the Hearing Subcommittee. A representative of the petitioners shall also be afforded the opportunity to speak at the hearing. After hearing the oral arguments, a two-thirds (2/3) vote of the members of the Hearing Subcommittee shall be required to affirm the removal of the accused Councilor.
  - (3) The accused Councilor may choose not to respond and thus forfeit his/her seat in the Council of the SOCIETY.
- c. Every reasonable effort shall be made to contact the accused Councilor throughout this procedure. That effort shall include a certified letter to the last known address on the official SOCIETY membership rolls. If no contact with the accused Councilor can be made after a reasonable effort, the Hearing Subcommittee may remove the Councilor in question with a two-thirds (2/3) vote of its members.

- d. The accused Councilor may be assisted by one advisor who may act on behalf of the Councilor. The advisor may be an attorney if written notice of the name and office address of the attorney is given to the Chair of the Hearing Subcommittee at least ten working days before the date of any hearing. An attorney for the SOCIETY may be selected by the SOCIETY's General Counsel to be present at the hearing(s).
- e. Until final resolution of the case, all allegations, evidence, correspondence, findings, and recommendations pertaining to the case shall be deemed confidential, with all proceedings and hearings closed to the public.

Section 4. The accused Councilor may appeal an adverse decision of the Hearing Subcommittee to the Council Committee on Nominations and Elections, which shall consider the appeal at its next regularly scheduled meeting, or at an earlier meeting specially called for the purpose of considering the appeal. The Committee on Nominations and Elections shall establish procedures for handling the appeal, but the requirements of Sections 3, d and 3, e above shall apply to whatever procedure is established. Decisions of the Committee on Nominations and Elections are final.

Section 5. Any vacancy that arises from the removal of a Councilor shall be filled by procedures given in the Bylaws of the SOCIETY (currently Bylaw V, Section 8, e).

Effective TBD.

Contact [secretary@acs.org](mailto:secretary@acs.org) for any questions

### **Comment and Response re: Petition for Removal of Officers and Councilors**

The Council Policy Committee, which was assigned primary responsibility for the Petition for Removal of Officers and Councilors, received one written comment from an opponent of the petition, within the required deadline of thirty days after the Council meeting at which the petition was presented for consideration. In accordance with the Society's Constitution Article XVIII, Sec. 2, d, below are summaries of the comment and the response.

Comment received September 23, 2016, from Dr. Regina Cody, Councilor for the Chemical Society of Washington Section; comments were expressed as her own and not from the Section.

She expressed concern about three provisions in the petition, saying that they need to be both fair to the Society and to ACS members affected by the provision. In particular, it appears that there is an extremely small number of members, i.e. five, that can originate a petition of removal. This number must be much larger to show substantial dissatisfaction within the unit with the officer or Councilor. She suggested that a minimum of 50 ACS members or 10 percent of ACS members in the unit bring forth a removal petition. Next, she expressed concerns about some of the conditions for removal, i.e. "conduct that tends to injure the Society (Local Section or Division) or the unit they represent, or to adversely affect the reputation of the Society, or that is contrary to or destructive of its objects." She commented that the reasons for removal are exceedingly subjective and can mean anything that could be used against a member, and could infringe upon freedom of speech. She also expressed concerns that any members of Council could originate a petition of removal for Councilors and Alternate Councilors, even if they are not members of the Local Section or Division. She suggested that only that unit must originate the removal of petition as they voted that person in; Council should not overturn the vote of Local Sections or Divisions. She added that the process would be confidential; the reputation of the person brought up on "charges" would, in fact, be damaged. As the removal petition now stands, it is too easy for a very small number of people to originate such a petition.

Response from Dr. James C. Carver, Chair, Committee on Constitution and Bylaws (C&B)

He noted that C&B heard other verbal comments about the small number of unit members and other voting Councilors that may petition for the removal of a Councilor. This issue is a difficult one because of the varying sizes of units. The Chemical Society of Washington is a large and active Local Section. Many other Local Sections are struggling to get a quorum of only 10 or 15 members, so this was taken into consideration, among other things. Regarding the suggestion for a percentage of the membership of Divisions and Local Sections, C&B moved away from percentages in bylaws because such a number could change hourly. Regarding the concern about confidentiality, the more people who are brought into the process, such as the suggestion for 50 members, the more difficult it would be to keep the charges confidential. There are safeguards in place in the procedures document, which is posted on ACS's website: [www.acs.org/bulletin5](http://www.acs.org/bulletin5). Regarding who could initiate a recall, many Divisions and Local Sections have recall language in their bylaws, but this applies only to elected officials, excluding Councilors and Alternate Councilors. Several Local Sections had requested to remove their Councilor for neglect of duties, but they could not do this without a Society Bylaw in place. Councilors and Alternate Councilors are considered officials of the Society, not of the Divisions and Local Sections, even though they are elected by Divisions and Local Sections. The phrase, "conduct that tends to injure the Society or the unit (Local Section or Division) they represent, or to adversely affect the reputation of the Society, or that is contrary to or destructive of its objects," mirrors language that is already in the Society's Constitution Article IV, Sec. 3: "A member may be dropped from membership for nonpayment of dues or for conduct which in anywise tends to injure the SOCIETY or to affect adversely its reputation or which is contrary to or destructive of its objects."



**FOR ACTION**

**Petition for Removal of Officers and Councilors**

Bylaw III, Sec. 1, i  
Bylaw VII, Sec. 1, c  
Bylaw VIII, Sec. 4, d

**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~~):

**REVISED**

Bylaw III  
Council  
Sec. 1.

**VERSION**

**i. Councilors and Alternate Councilors may be removed from office for neglect of their duties, misconduct, official conduct that tends to injure the SOCIETY or the unit they represent, official conduct that tends to adversely affect the reputation of the SOCIETY, or official conduct that is contrary to or destructive of the SOCIETY's objects, according to procedures promulgated by the Council Policy Committee and approved by the Council. Such proceedings may be initiated by petition of five members of the unit represented, or by any five voting Councilors and shall provide for quick resolution, fairness, confidentiality, and due process, including an opportunity for the accused member to be heard.**

**FOR**

Bylaw VII  
Local Sections  
Sec. 1.

**COUNCIL**

**c. Local Sections may remove an elected official from office for neglect of duties, misconduct, or official conduct that tends to injure the Local Section or to adversely affect its reputation or that is contrary to or destructive of its objects, provided that due process is established in their bylaws. This removal excludes Councilors and Alternate Councilors, which is addressed elsewhere in these Bylaws.**

**ACTION**

Bylaw VIII  
Divisions  
Sec. 4.

**REVISED**  
**VERSION**  
**FOR**  
**COUNCIL**  
**ACTION**

**d. Divisions may remove an elected official from office for neglect of duties, misconduct, or official conduct that tends to injure the Division or to adversely affect its reputation or that is contrary to or destructive of its objects, provided that due process is established in their bylaws. This removal excludes Councilors and Alternate Councilors, which is addressed elsewhere in these Bylaws.**

These amendments shall become effective following approval by Council of the Councilor Removal procedures developed by the Council Policy Committee, and confirmation by the Board of Directors.

**Explanation**

Currently no explicit authorization for officer removal exists in either the SOCIETY Constitution or Bylaws. The Council Committee on Constitution and Bylaws (C&B) recommends that Local Sections and Divisions include a procedure in their documents that enables them to remove officers for neglect of duties. C&B provides model language for that purpose. Up to this point, Councilors and Alternate Councilors have not been covered by the model language because Councilors and Alternate Councilors, although elected by the Local Sections and Divisions, are officials of a national body. The proposed amendments do two separate things.

The first part of these amendments (to Bylaw III) will authorize Local Sections and Divisions to petition the Council Policy Committee to remove Councilors and Alternate Councilors for neglect of duties, misconduct, or injurious conduct, thus filling the gap identified above. In addition, five members of the Council may also file such a petition. The Council Policy Committee (CPC) is developing due-process procedures to evaluate such petitions and make removal decisions. These new procedures are derived from those developed by C&B for removal of local section or division officers, and must be approved by Council before this provision takes effect. Future changes to the procedures must also be approved by Council.

The second and third parts of these amendments add provisions to the SOCIETY Bylaws that explicitly authorize the removal of an elected official of a Local Section or Division. The existing model language only applies to neglect of duties. The amendments would expand that authorization to any misconduct or conduct which tends to injure the Local Section or Division or to adversely affect its reputation or which is contrary to or destructive of its objects. Local Sections and Divisions could then expand the scope of the removal procedures if they amend their documents accordingly. Expansion of the scope is permitted, but not required.

Signed:

Dr. Harmon B. Abrahamson  
Dr. Frank Blum  
Dr. Mary K. Carroll  
Dr. Dwight W. Chasar

Dr. Alan M. Ehrlich  
Ms. Lynne Greenblatt  
Dr. Wayne E. Jones, Jr.  
Mr. James M. Landis, Jr.

Dr. Doris I. Lewis  
Dr. Diane G. Schmidt  
Ms. Andrea Twiss-Brooks  
Dr. Linette Watkins

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

**\*Committee having primary substantive responsibility**

**FINAL STATEMENT OF FINANCIAL IMPACT**

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

**FINAL REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS**

The Committee on Constitution and Bylaws and the Council Policy Committee's Subcommittee on Petitions, Constitution and Bylaws agreed with edits proposed by each. In addition, C&B, added "official" before "conduct" to make this clear, and added sentences at the end of Bylaw VII, Sec. 1 and Bylaw VIII, Sec. 4, to clarify that the removal of Councilors and Alternate Councilors is addressed elsewhere. Some ACS members have commented that five members of the unit or five voting Councilors is a low number to initiate the removal of a Councilor or Alternate Councilor. In the Society's Bylaw I, Sec. 5, b, the process to expel a member may be initiated by any member(s).

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

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

Dr. James C. Carver  
Chair

## REPORT OF THE COMMITTEE ON COMMITTEES

The Committee on Committees (ConC) submitted its final recommendations for 2017 Committee Chairs, members, associates, and consultant appointments for consideration by the President-Elect and the Chair of the Board of Directors. The committee appointment letters were sent by year-end.

The ConC Leadership Development Subcommittee conducted its annual training session for new Committee Chairs and their staff liaisons in Dallas, Texas, in late January 2017, as a component of the ACS Leadership Institute. Six new Chairs, with their staff liaisons, attended. The subcommittee revamped the module to include case studies and clicker questions to help encourage more interaction and discussion between the Chairs and staff liaisons. The training received favorable reviews from participants.

Councilors and other interested parties are invited to attend the committee's open meeting on Monday, April 3, from 1:30-2:00 p.m. to offer their views on any topics on the agenda, and other matters of interest. There will also be an interactive session for the Chairs of all Council-related committee chairs on Monday from 2:00-2:45 p.m.

In closed executive session, ConC will receive reports and consider recommendations from its subcommittees and task forces on leadership development, diversity, and Society Committee Bylaws. ConC will receive updates on 5-year performance reviews for the committees on Community Activities, Environmental Improvement, Professional Training, Publications, and Younger Chemists and expects to seek Council approval in San Francisco on recommendation for the continuance of the Committees on Chemists with Disabilities, Project SEED, Public Relations and Communications, and Women Chemists. The committee will also develop recommendations for the 2018 Committee Chairs for the Society, Standing, Joint Board-Council and Other Committees of Council.

The committee is once again collaborating with CPC on the New Councilor Orientation on Saturday, April 1, from 3:30-7:00 p.m.

All Councilors are reminded to complete their online committee preference form for 2018, during the period of March 27-June 9, 2017 at <https://www.yellowbook.acs.org/>. Please remember committee associates, and especially those finishing a term or who will reach the statutory limit on a committee, are strongly encouraged to complete the online form to reaffirm your interest and commitment to service in the Society. You can also use this system to update your Yellow Book contact and biographical information throughout the year.

Wayne E. Jones, Jr., Chair

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

Dear Mr. Lewis:

I propose the following MEMBERS for consideration by the Committee on Committees for service on the following committees for 2018:

**Standing Committees (Appointed by the President)**

Constitution and Bylaws (C&B) \_\_\_\_\_  
Divisional Activities (DAC) \_\_\_\_\_  
Economic and Professional Affairs (CEPA) \_\_\_\_\_  
Local Section Activities (LSAC) \_\_\_\_\_  
Meetings and Expositions (M&E) \_\_\_\_\_  
Membership Affairs (MAC) \_\_\_\_\_

**Other Committees (Appointed by the President)**

Analytical Reagents (CAR) \_\_\_\_\_  
Ethics (ETHX) \_\_\_\_\_  
Nomenclature, Terminology and Symbols (NTS) \_\_\_\_\_  
Project SEED (SEED) \_\_\_\_\_  
Technician Affairs (CTA) \_\_\_\_\_

**Society Committees (Appointed by the President and Board Chair)**

Budget and Finance (B&F) \_\_\_\_\_  
Education (SOCED) \_\_\_\_\_

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

Chemical Abstracts Service (CCAS) \_\_\_\_\_  
Chemical Safety (CCS) \_\_\_\_\_  
Chemistry and Public Affairs (CCPA) \_\_\_\_\_  
Chemists with Disabilities (CWD) \_\_\_\_\_  
Community Activities (CCA) \_\_\_\_\_  
Environmental Improvement (CEI) \_\_\_\_\_  
International Activities (IAC) \_\_\_\_\_  
Minority Affairs (CMA) \_\_\_\_\_  
Patents and Related Matters (CP&RM) \_\_\_\_\_  
Professional Training (CPT) \_\_\_\_\_  
Publications (PUBS) \_\_\_\_\_  
Public Relations and Communications (CPRC) \_\_\_\_\_  
Science (ComSci) \_\_\_\_\_  
Senior Chemists (SCC) \_\_\_\_\_  
Women Chemists (WCC) \_\_\_\_\_  
Younger Chemists (YCC) \_\_\_\_\_

Sincerely,

\_\_\_\_\_  
(Senders Name/Email)

\_\_\_\_\_  
(Senders Affiliation)

## REPORT OF THE COMMITTEE ON NOMINATIONS AND ELECTIONS

At its fall meeting in Philadelphia, the Committee on Nominations and Elections (N&E) developed slates of potential candidates for President-Elect, 2018; Directors-at-Large, 2018-2020; and Directors from Districts III and VI, 2018-2020.

A “President-Elect Nominees Town Hall Meeting” will be held in San Francisco on Sunday, April 2, from 4:30 p.m. – 5:30 p.m. This popular forum is designed to facilitate interaction among the 2018 President-Elect nominees, Councilors and other members using a moderated question and answer format.

The 2017 election cycle began with the election of candidates for District III and District VI in February 2017. The elections were conducted for the Society by Survey & Ballot Systems (SBS) of Eden Prairie, Minnesota.

The N&E Vote 2020 Task Force has been charged with examining all aspects of the nominations and elections process for the Society. The task force is in the final phases of gathering input from Councilors and others. Please send any comments and suggestions to [vote2020@acs.org](mailto:vote2020@acs.org).

In executive session at this meeting, N&E will consider a revision to its policy on voting preferences for national elections. Currently, eligible voters must opt-in to cast a ballot via the internet. The revised policy would require the reverse, namely, that voters must opt-in to receive paper ballots. The committee will also develop slates of potential candidates for the Council Policy Committee and the Committee on Committees for 2018-2020. As in the past, N&E welcomes suggestions from Councilors of qualified members as potential candidates for all elected ACS offices - please let us hear from you.

We will have a staffed N&E table at the rear of the Council meeting room, as well as an open meeting on Monday, April 3, from 11:30 a.m. - 12:00 noon, to receive your suggestions or hear your concerns. As an alternative means of communication with N&E, please visit the ACS Web Site at <http://www.acs.org/>; under “Governance” click on “Committees” and then select “Nominations & Elections” or send an email to us at [nomelect@acs.org](mailto:nomelect@acs.org).

Les W. McQuire, 2017 Chair  
D. Richard Cobb, 2016 Chair

REPORT OF THE COMMITTEE ON BUDGET AND FINANCE

The Society Committee on Budget and Finance met on Friday and Saturday, December 2 and 3, 2016, to review the Society's probable financial results for 2016 and review the 2017 proposed operating and capital budgets. ACS is projected to end 2016 with a net contribution from operations of \$19.4 million, or \$6.0 million favorable to the Approved Budget. With the exception of the Fund Balance Ratio, a measure of reserve adequacy, the Society is projected to end the year in compliance with the Board-established financial guidelines.

The committee received a brief report from the B&F Subcommittee on Program Funding Requests regarding a revised program funding reauthorization request for the *American Association of Chemistry Teachers (AACT)*. The revised request contained a reduction in net expenses of \$570,000 (30%) from the original submission considered in August 2016. After discussion, the committee voted to recommend to the ACS Board of Directors that it reauthorize the *American Association of Chemistry Teachers (AACT)* for 2017 – 2019 at the funding levels proposed, subject to annual reports to B&F on AACT's activities, financials and progress toward metrics established in the reauthorization request.

The committee voted to recommend to the ACS Board of Directors that it approve the 2017 Proposed Operating Budget with a projected net contribution from operations of \$23,234,000. The committee also voted to recommend to the ACS Board that it approve the 2017 Proposed Capital Budget of \$39,077,000.

Joseph Heppert, 2017 Chair  
Kristen M. Omberg, 2016 Chair





REPORT OF THE COMMITTEE ON EDUCATION

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

The 2016 SOCED / CPT / IAC Task Force on International Chemistry Education met on August 21 to discuss the focus and progress of its work. It is inventorying and learning more about existing resources that help students plan and prepare for international experiences, and pursuing strategies to enhance those resources.

The task force creating the 2017 ACS Guidelines and Recommendations for the Teaching of Middle and High School Chemistry met throughout the Fall via teleconference and will report on its progress at the San Francisco national meeting.

The American Association of Chemistry Teachers (AACT) ended 2016 with 4,052 members, 88 percent of whom are K-12 teachers. AACT funding was reauthorized by the ACS Board of Directors during its December 2016 meeting.

On September 16 – 18, ACS hosted a workshop on developing a process for creating general chemistry performance expectations. Thirty-three faculty members from fifteen diverse institutions (including research-intensive, primarily undergraduate, and community colleges) attended the workshop following a competitive application process. SOCED will review progress/a report during the San Francisco national meeting.

Since launching in the fall of 2010, *middleschoolchemistry.com* has received over ten million visits from 234 countries and territories.

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

After the pilot of international student chapters in 2014, the international student chapter program has been approved. This program will provide grant money and professional development opportunities targeted toward ACS international student chapters and members.

Since ChemIDP™ launched in Spring 2016, extensive enhancements and updates have been made to the tool. There have been over 1,300 logins to the web-based tool, and nine workshops were held to increase use and understanding of the tool directed toward graduate students and postdoctoral scholars. In addition to the general workshops held at national and regional meetings, workshops have been held by individual departments at several universities. New program funding approved in 2016 has posed ChemIDP™ to grow in scope and reach.

Diane Krone, Chair

## REPORT OF THE COMMITTEE ON SCIENCE

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

ComSci recently led the development of a new ACS policy statement on forensic science that was adopted by the ACS Board in December. The committee also organized a symposium on forensic science at the last national meeting that addressed key challenges in the areas of science, policy and justice.

ComSci worked to advance the development of a revised policy statement on chemical regulation that was recently approved by the ACS Board. Currently ComSci is collaborating with the Committee on Environmental Improvement on updating the ACS policy statement on scientific integrity. This statement will be discussed along with other expiring policy statements at the upcoming committee meeting.

As outlined in an October 17 comment in *Chemical and Engineering News*, the committee is also collecting and developing key principles and success stories of chemistry-related university-industry partnerships to help raise awareness among members and stakeholders of the growing importance of cross-sector collaboration for innovation. This effort coincides with a symposium being organized for the San Francisco national meeting on industry-university partnerships.

Finally, after submitting ACS-approved nominations last year for both the Presidential National Medal of Science and the Grand Prix award, the committee is currently working on two nominations for the 2017 Dreyfus Prize in the Chemical Sciences, which this year will recognize exceptional research in theoretical and computational chemistry.

Mark C. Cesa, Chair

**Joint Board-CPC Task Force on Governance Design**  
**ACS Yesterday and Today: Paving the Way to Tomorrow**

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**ACS – a congressionally chartered organization.**

The ACS is a unique organization. Originally chartered in New York in 1877, ACS was recognized as a “Patriotic and National Organization” and granted a charter by the Federal Government in 1937. ACS is one of a select number of such federally chartered organizations – in such prominent company as American Legion, American Red Cross, Legion of Valor, Civil Air Patrol, American War Mothers, American Ex-Prisoners of War, National Academy of Sciences, Boy Scouts of America. *As the federal government no longer charters organizations, ACS has a distinctive obligation and opportunity.*

ACS is unified by our charter with the purpose (object) to encourage “in the broadest and most liberal manner the advancement of chemistry in all its branches.” ACS accomplishes this by:

- Promoting research in chemical science and industry;
- Improving the qualifications and usefulness of chemists through high standards of professional ethics, education, and attainments;
- Increasing and diffusing chemical knowledge; and
- Supporting meetings, professional contacts, reports, papers, discussions, and publications, to promote scientific interests and inquiry in order to foster public welfare and education, aid the development of our country’s industries, and add to the material prosperity and happiness of our people<sup>1</sup>.

**ACS today** is in a position of strength. Our finances are robust. We have skilled and committed volunteers who are proud of their ACS involvement. We have an excellent and dedicated staff. And we in governance in the present ACS have the challenge and opportunity to ensure that ACS continues to achieve the objects of our Charter and provide value into the 21<sup>st</sup> century, as we have done in the 19<sup>th</sup> and 20<sup>th</sup>.

The Joint Board-CPC Task Force on Governance Design looks forward to working with you *to make certain we can continue to fulfill the objects in our charter into the 21<sup>st</sup> century* and:

- Ensure flexibility in our governance structure, processes and procedures.
- Create a Society agile enough to respond to present needs while being grounded in the fundamentals that attracted all of us as members and volunteers in the first place.
- Retain and build upon the work and expertise of those of us who have had long and productive careers.
- Be competitive for the mind-share of the 21<sup>st</sup> century scientist and engineer, and continue to grow the ACS as the preferred place for all scientists aligned with our objects to aggregate, publish, network, learn and volunteer.

**Imagining the Future Together.** Over the next few months, the work of the ACS team of volunteers on the Task Force on Governance Design is to *work with ACS Governance groups to develop value-added approaches to ensuring ACS delivers against the object (purpose) of our federal charter.*

*We look forward to joining with you to imagine the future and ensure ACS excels at achieving the objects of our charter into the 21<sup>st</sup> century.*

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<sup>1</sup> <https://www.acs.org/content/dam/acsorg/about/governance/charter/bulletin-5.pdf>

## REPORT OF THE COMMITTEE ON ECONOMIC AND PROFESSIONAL AFFAIRS

The Committee on Economic and Professional Affairs (CEPA) continues to monitor the health of the chemistry enterprise and particularly the state of the employment market. According to the 2016 ACS Comprehensive Salary and Employment Survey, the results of which were released at the end of 2016, the unemployment rate for ACS members appears stable with a slight drop to 2.6% over the previous year's 3.1%. This represents the lowest unemployment rate for ACS members since before the 2008 recession. The ACS member unemployment of 2.6% is in parity with the U.S. college graduate (Bachelor's degree and higher) unemployment rate which also stood at 2.6% for 2016.

Additionally, from the annual Survey of New Graduates in Chemistry and Related Fields, the unemployment rate for new chemistry graduates earning bachelor's degrees in 2015 dropped to 12.3%, down from the 2013 peak of 14.9%.

Both surveys revealed that salaries remained relatively flat in all employment sectors after the modest gains realized in the previous year. Further details on the outcomes of both survey instruments can be viewed through C&EN reporting: New Graduate (<http://cen.acs.org/articles/94/i35/job-landscape-new-chemistry-graduates.html>) and Comprehensive (<http://cen.acs.org/articles/94/i45/Does-salary-stand.html>).

CEPA continues to revise policies and guidelines related to the professional interests of ACS members in order to align with current practices and respond to the ever changing employment landscape. The Academic Professional Guidelines (APG) was revised and updated, and presented for the consideration of Council at the 2016 Spring ACS National Meeting in San Diego. The document was approved by Council on March 16, 2016 and adopted by the ACS Board of Directors on June 3, 2016. The fifth edition of the APG can be viewed online at: <https://www.acs.org/content/acs/en/careers/career-services/ethics/academic-professional-guidelines.html>.

In parallel, the Chemical Professional's Code of Conduct (CPCC) underwent an extensive rewriting process that added important changes to more accurately reflect the current state of employment. The updated version of the CPCC was approved by ACS Council on August 24, 2016 and adopted by the ACS Board of Directors on December 2, 2016. The resulting third edition of the CPCC can be viewed online at: <https://www.acs.org/content/acs/en/careers/career-services/ethics/the-chemical-professionals-code-of-conduct.html>.

At this time, the three major professional guidelines that are under the purview of CEPA (APG, CPCC, and the Professional Employment Guideline previously approved in 2014) have now been revised and approved in the last three years which brings them up to date with the most current employment practices.

After minor edits, the ACS policy statement on Employment Non-discrimination, set to expire at the end of 2016, was recommended by CEPA for renewal during the Fall National ACS meeting in Philadelphia. The Board Committee on Public Affairs & Public Relations extended the policy statement at its December meeting for a further three years.

In excess of its 2016 goal, the ACS Career Navigator™ achieved more than 8,500 substantial interactions with ACS members and potential members worldwide to meet their professional and career needs in 2016. This represents over 27,000 hours—approximately 3 years—spent in the classroom and in consultation with ACS members and stakeholders between the ACS offerings in: career services (6,700 participants; 11,000 hours of interaction), professional education (1,000 participants; 12,000 hours), and leadership development (800 participants; 4,000 hours).

In 2016, in consultation with CEPA, the ACS Department of Career and Professional Advancement initiated new live, online deliveries of essential and valuable career-focused content. These offerings sought to provide all ACS members the opportunity to receive these member benefits and experiences regardless of where they live. These pilot offerings of both virtual workshops and virtual networking events cumulatively drew approximately 800 ACS member participants from over 35 countries and 45 U.S. States. Owing to the positive feedback received, sustainable growth to both programs is underway in 2017.

Due to space limitations at the Moscone Convention Center in San Francisco and in response to the needs of both ACS member job seekers and employers, the ACS Career Fair will be held concurrently with the ACS Exposition on April 2-4, 2017 in Halls B and C. The expanded career fair footprint removes the pre-registration needs for any meeting attendee that would like to speak to one of the employers present at their public booths, and all members of Council are welcome to stop by and see firsthand the exciting changes in store. However, the career fair continues to require that any ACS member who is seeking a scheduled, private interview on-site must continue to pre-register using the career fair system.

Lastly, co-located with the ACS Leadership Institute held January 27-29, 2017 in Dallas, TX, CEPA conducted training for over 25 ACS Career Consultants and ACS career workshop presenters. These volunteers took part in sessions covering the latest market conditions, recruitment technologies, and networking techniques. Individuals interested in providing personalized mentoring and career consulting to ACS members are invited to contact [careers@acs.org](mailto:careers@acs.org) to determine eligibility for participating in the program.

Rick Ewing, Chair

## REPORT OF THE COMMITTEE ON MEETINGS AND EXPOSITIONS

The official attendance at the 252nd ACS National Meeting in Philadelphia, PA, totaled 12,989. The exposition in Philadelphia had 432 booths with 300 exhibiting companies. More than 14,000 scientific contributions have been made to the 253rd ACS National Meeting & Exposition in San Francisco, CA.

As part of M&E's comprehensive sustainability plan, print copies of the program book for Philadelphia were significantly reduced and a limited number were available for sale. In 2016, there were over 16,000 mobile app downloads (San Diego – 8,998 and Philadelphia – 7,004), a 25% increase in users since 2015. In an effort to reduce paper use, printing costs and shipping emissions, we continue to encourage attendees to use the mobile app as an alternative to the printed program. We also use the mobile app as a key communication channel to promote the Greener Meetings Program. To date, we have made a conscious effort to reduce printing whenever possible and have reduced our programs printed per attendee by 52% since 2011. The ACS was also awarded the 2016 UFI (The Global Association of the Exhibition Industry) Sustainable Development Award for the "Best actions to engage participants around sustainability."

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

With the ACS Board of Directors approval, M&E removed Boston from the national meeting rotation for 2024, 2029, and 2031 due to its inability to offer reasonable pricing on the convention center and hotel sleeping room rate. Denver presented ACS with a unique savings package and was selected to host the 268th ACS National Meeting and Exposition on August 18-24, 2024. M&E will continue to review potential sites for fall 2029 and fall 2031 and will present an update to the Board in the near future.

Additionally, M&E will begin discussions regarding Thursday programming. Thursday programming and attendance at national meetings continue to lag behind those earlier in the week. M&E, DAC, and ACS staff are conducting an ongoing study with participation from all divisions on the implications of eliminating Thursday programming.

The Operations Subcommittee continued to monitor the financial success of the national meetings and will take compliance with the National Long Range Financial Plan Task Force. In compliance with the National Meeting Long Range Financial Plan and the recommendations of the 2015 Task Force on Implementing National Meeting Financial Targets, the Early Member Registration Fee for the 2017 national meetings is \$445. The Operations and Technical Programming Subcommittees will also review the recommendations concerning the even programming rule and space assignments from the National Meeting Study Group on Programming (SGP).

Kevin J. Edgar, 2017 Chair  
John Pochan, 2016 Chair

## REPORT OF THE COMMITTEE ON DIVISIONAL ACTIVITIES

At least once every three years, at a spring national meeting, the Committee on Divisional Activities (DAC) is required to bring to Council a formula for allocating dues funds to the divisions. DAC is asking that Council approve the identical formula Council approved at the 2014 spring national meeting in Dallas (details on the formula appear on page 80 of this Council agenda).

In January, DAC held its Division Track as part of the ACS Leadership Institute. The event attracted 29 division participants representing 22 divisions. Based on participant surveys, this version of the Division Track scored the highest of any DAC has organized at the Leadership Institute.

DAC has received proposals seeking the establishment of two new probationary divisions: Division of Space Chemistry, and the Division of Materials Chemistry. DAC has sought input from divisions on the Space Chemistry proposal, and will discuss it in San Francisco. It expects to bring this matter to Council for action in August at the Washington, D.C. National Meeting.

DAC is also in the process of consulting with the divisions about the proposed Materials Chemistry Division. Depending on what it learns from divisions, the committee may bring that proposal, as well, to Council for action in Washington, D.C.

The committee is in the midst of working with staff to improve the visibility of divisions on acs.org. Much progress has been made in the last six months, with more planned in the near future.

Finally, DAC wishes to acknowledge the efforts of the divisions and the Multidisciplinary Program Planning Group in organizing and delivering a wide range of excellent programming in support of the San Francisco theme: “Advanced Materials, Technologies, Systems, and Processes.” Upcoming themes appear below:

Washington, D.C., Fall 2017	Chemistry’s Impact on the Global Economy
New Orleans, LA, Spring 2018	The Food, Energy, Water Nexus
Boston, MA, Fall 2018	Nanotechnology
Orlando, FL, Spring 2019	Chemistry for New Frontiers

Rodney Bennett, Chair

### Approval of the Distribution Formula for Division Funding

At least once every three years, at a spring national meeting, the Committee on Divisional Activities (DAC) is required to bring to Council a formula for allocating dues funds to the divisions.

DAC will present to Council for its approval in San Francisco the identical formula Council approved at the 2014 spring national meeting in Dallas.

To review, the current formula features six general buckets from which divisions earn allocation funding:

1. **Innovative Projects Allotment** (10% of total funds allocated to divisions is ‘taken off the top’ and distributed to divisions based on a competitive grant proposal process administered by DAC)
2. **Base Allotment** (an equal amount given to all divisions, regardless of size)
3. **Per Member Allotment** (based on year-end number of division members)
4. **Total Number of Attendees at Oral Sessions** held at ACS National Meetings
5. **Total Number of Division Members Registered** for ACS National Meetings
6. **Total Number of Division Posters** presented at ACS National Meetings

Here are the percentages allocated to each of the six buckets of funding:

Innovative Project Grants:	10%
Base:	15%
Per Member:	12.5%
Number of Attendees at Oral Sessions:	31.25%
Number of Division Members at National Meetings:	15.625%
Number of Divisions Posters Presented at National Meetings:	15.625%

DAC recommends Council approve the current formula described above.

On a related note, and for possible Council consideration in 2018, the committee has expressed interest in modifying the allocation formula to reward divisions that engage at ACS Regional Meetings, and internationally. It is working out the details of how such engagement would be measured, and will discuss them in 2017. DAC tentatively plans to present to Council at the spring 2018 National Meeting a new formula that integrates these changes, and perhaps others.



## REPORT OF THE COMMITTEE ON LOCAL SECTION ACTIVITIES

The Committee on Local Section Activities hosted the local section track of the ACS Leadership Development Institute, January 27-29 in Dallas, TX. All incoming chair-elects, as well as other interested local section officers, were invited to attend this important training. A total of 145 delegates representing 117 local sections participated in the institute. Twenty-three sections sent more than one representative and one section sent four representatives. Local sections are encouraged to prepare to send at least one representative to the 2018 institute. LSAC, once again, hosted a special workshop: “Getting Your Section Back on Track” to support those leaders who need assistance with re-invigorating their sections. In addition, LSAC offered collaborative project mini-grants to support joint local section projects that were developed during the Leadership Institute.

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

- ACS Leadership Development System courses were hosted by eight local sections in 2016 to provide their members with skills that can be used in both their volunteer and professional roles. LSAC provided financial support for these courses.
- The “Local Section Innovative Projects Grant Program” (IPG), now in its 14th year, continues in 2017. Local sections are encouraged to submit proposals for the June 30<sup>th</sup> deadline. Program information and grant applications are available at [www.acs.org/getinvolved](http://www.acs.org/getinvolved) (click on Local Section Volunteer Resources and then Funding and Financials).
- LSAC posted a summary of the 2015 Local Section Annual Reports at [www.acs.org/getinvolved](http://www.acs.org/getinvolved) (click on Local Sections and then Annual Report Information).
- All 2016 local section chairs received a Past Chair pin and a letter from the committee recognizing their efforts as chair.
- LSAC hosted the Local Section Pre-Leadership Institute Webinar on January 17 with 97 local section officers in attendance. The transcript of that webinar can be found at [www.acs.org/getinvolved](http://www.acs.org/getinvolved) (Click on Local Sections and then Training and Support).
- Local Section allotments will be processed (starting March 1<sup>st</sup>) as Annual Reports are submitted.

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

Jason E. Ritchie, 2017 Chair  
Martin Rudd, 2016 Chair

## PETITION FOR CHANGE IN SECTION NAME

### Santa Clara Valley Local Section

The Santa Clara Valley Local Section in California petitions to change the name of the section to the Silicon Valley Local Section.

The section is requesting the name change because Santa Clara Valley does not geographically represent the majority of the section that stretches from South San Francisco to Monterey Bay. (It should be noted that Palo Alto is erroneously excluded from the present territory of the Santa Clara Valley Local Section in the map below, as it is part of the section.) The section's growing population along both the San Francisco Bay and the Monterey Bay is better described by the name "Silicon Valley" which more accurately reflects the nature of the livelihoods in the region. The Santa Clara Valley had a legacy of apricot, cherry, and prune farming before the tech industry replaced it and grew into the dominant economic force in the area.

The section-wide vote on the name change from Santa Clara Valley to Silicon Valley Local Section took place on the ballot in November 2016, together with the election of section officers for 2017. 229 local section members, 80.6% of the vote, were in favor of changing the name to Silicon Valley.

The Santa Clara Valley Local Section Executive Committee voted in favor of a motion to accept the results of the balloting and petition to change the section's name to Silicon Valley.



## REPORT OF THE COMMITTEE ON MEMBERSHIP AFFAIRS

The Membership Affairs Committee (MAC) continues to focus on new efforts to recruit and retain members. The Society ended 2016 with 156,129 members and an overall retention rate of 83.5%.

Over 23,700 new members were recruited in 2016, including 3,685 from the continuing success of the Member-Get-a-Member program. International membership grew to 27,388 members in 2016. MAC is also pleased to report that programs targeting retention of Graduate Student members have resulted in an overall retention rate of 76.2%, an increase of 2% versus December 2015.

MAC continues to discuss ways to serve technicians, high school and two-year college students, and faculty and potential joint ACS and AACT memberships, and has directed staff to provide recommendations on these matters.

MAC participated in the Board “Collaborative for Re-Imagining a Diverse ACS Membership,” and will be working to support its goal to increase the recruiting of new members and retention of current members of diverse groups. The Collaborative’s report was discussed at the MAC Executive Committee meeting in January. MAC will be working with staff in San Francisco to review and develop strategies to help achieve the targets outlined by the Collaborative.

The Executive Committee of MAC has begun to lay the groundwork for a Strategic Planning retreat set to occur in 2017 in order to refocus the committee and ensure its continuing commitment to the ACS Strategic Plan.

The committee recommended, and the Council approved, an amendment to the ACS Bylaws of the Petition to Extend the Unemployed Members’ Dues Waiver, which extends the unemployed members’ dues waiver from two years to three years.

Several of the market data collection tests are due to expire in 2017. MAC plans to report on these and propose appropriate bylaw changes to Council as the tests mature. MAC’s Executive Committee agreed in January to end the market test specific to India. Data collection for India will continue in conjunction with the remainder of countries covered by subsequently approved testing under the World Bank model. The committee favors the continuation of a test that provides \$15 commission payments to ACS International Chemical Sciences Chapters for the recruitment of new members and will be requesting Council approval of this extension at the Spring 2017 National Meeting.

Margaret J. Schooler, 2017 Chair  
James M. Landis, 2016 Chair

**REQUEST TO EXTEND INTERNATIONAL CHAPTER RECRUITING  
MARKET TESTING**

In July 2013, Council authorized a market test to improve international recruitment by paying International Science Chapters \$15 for each new paid member recruited in their chapter area. The \$15 is the same as the amount given to local sections and divisions for recruiting new members.

Eight Chapters have cumulatively recruited 64 members since the test began. Representative countries include Hong Kong, Iraq, Malaysia, Romania, Shanghai, South Korea, and Thailand. This test appears promising and at the Spring 2016 meeting in San Diego, the Membership Affairs Committee (MAC) approved continuation of this market test in order to collect additional data.

Unfortunately, this test expired at the end of July 2016 and per the current by-laws, ACS cannot promote this membership marketing test without an extension from Council. Therefore, MAC seeks the approval of the Council and its contingent on the approval from the ACS Board of Directors to extend the International Chapter Recruitment test for an additional three years.

**FOR ACTION**

**Petition on the Rights of Affiliates**

**Bylaw II, Sec. 1, a, 2, a, 3, b, (3) and (4)**

**Petition**

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

**REVISED**

**VERSION**

**FOR**

**COUNCIL**

**ACTION**

**Bylaw II  
Affiliates and Associates**

**Sec. 1.**

a. ~~No~~A person who is not a member of the AMERICAN CHEMICAL SOCIETY shall **not** become a member of any Local Section; but Local Sections may provide in their bylaws to have Local Section Affiliates, not members of the SOCIETY, who shall be entitled to all the privileges of membership in the Local Section, as provided in the Local Section bylaws, ~~save~~**except** that of ~~voting for or~~ holding an elective position of the Local Section, **or** voting on Articles of Incorporation and bylaws for the Local Section, or serving as a **voting** member of its Executive Committee or equivalent policymaking body, **or voting for Councilor(s) or Alternate Councilor(s) from the Local Section. In their bylaws, Local Sections may either provide or withhold the privilege of voting by Local Section Affiliates for an elective position (other than Councilor or Alternate Councilor) of the Local Section. Local Section Affiliates may be appointed as Committee Chairs, if allowed by the bylaws of the Local Section.** (~~4/1/70~~)

**Sec. 2.**

a. ~~No~~A person who is not a member of the AMERICAN CHEMICAL SOCIETY shall **not** become a member of any Division; but Divisions may provide in their bylaws to have Division Affiliates, not members of the SOCIETY, who shall be entitled to all the privileges of membership in the Division, as provided in the Division bylaws, except that of holding an elective position of the Division, or voting on Articles of Incorporation and bylaws for the Division, or serving as a **voting** member of its Executive Committee or equivalent policymaking body, or voting for Councilor(s) or Alternate Councilor(s) from the Division. In their bylaws, Divisions may either provide or withhold the privilege of voting by Division Affiliates for an elective position (other than Councilor

or Alternate Councilor) of the Division. **Division Affiliates may be appointed as Committee Chairs, if allowed by the bylaws of the Division.** (6/14/81)

**REVISED**

**Sec. 3.**

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

...

**VERSION**

(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 bylaws of the Local Section but may not ~~vote for or~~ 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.** (4/1/09)

**FOR**

**COUNCIL**

(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 ~~vote for or~~ 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.** (11/2/02)

**ACTION**

**Explanation**

BYLAW II, Secs. 1 and 2 specify the rights of Local Section Affiliates and Division Affiliates; however, we think that Local Section Affiliates and Division Affiliates should be allowed to be nonvoting members of the Executive Committee (or equivalent policymaking body), and to be appointed as Committee Chairs, if allowed in the bylaws of the Local Section or Division. Society Affiliates should also have the right to vote in Local Section and Division elections, except for Councilors and Alternate Councilors, if so decided by each Local Section and Division and if included in their bylaws. These changes would align the voting and participation rights within Local Sections and Divisions for Society Affiliates of a Division, Local Section Affiliates, and Division Affiliates. This would not change the rights of Society Affiliates as stated elsewhere in the ACS Governing Documents.

Signed:

Dr. Joe D. Allison	Dr. Tracy Hamilton	Dr. Jason Ritchie
Dr. Michael Appell	Dr. Barbara Hillery	Dr. Silvia Ronco
Dr. Roger Bartholomew	Ms. Fran Kravitz	Dr. Martin Rudd
Mr. Rodney M. Bennett	Mr. John M. Long	Dr. L. Kraig Steffen
Dr. Mitchel R.M. Bruce	Dr. Kathryn Louie	Dr. Maria Santore
Dr. Charles E. Cannon	Dr. Mary Ann Meador	Dr. Julianne Smist
Dr. Roger A. Egolf	Dr. Robert B. Moore	Dr. James M. Takacs
Dr. Mark D. Frishberg	Dr. Mary Virginia Orna	Dr. Jeanette M. Van Emon

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

**\*Committee having primary substantive responsibility**

### **FINAL STATEMENT OF FINANCIAL IMPACT**

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

### **FINAL REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS**

The Committee on Constitution and Bylaws agreed to the edits proposed by the Council Policy Committee's Subcommittee on Petitions, Constitution and Bylaws.

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

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

Dr. James C. Carver  
Chair

## REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS

In 2016, the Committee on Constitution and Bylaws (C&B), acting for the Council, issued 19 certified bylaws including 15 Local Sections: [Central Utah, Corning, East Central Illinois, Erie, Lexington, Minnesota, MO-KAN-OK, The Tri-State, Nashville, Northeastern Ohio, Oklahoma, Red River Valley, South Central Missouri, Virginia, Western Connecticut, and Wisconsin]; one Division: [CINF]; and three International Chemical Sciences Chapters: [China National Capital Area (JingJinJi), Iraq, and South Western China]. Also during 2016, C&B reviewed 12 proposed bylaws and sent reminders to six Local Sections that their vote outcomes are due to C&B. In addition, C&B sent to 31 Local Sections, options to update their bylaws since they have not been updated since 1976, 1977, or 1978.

As of the end of January, 2017, C&B certified bylaws for one Local Section [St. Joseph Valley] and reviewed proposed bylaws from one Local Section and one Division.

Certified bylaws are posted online at [www.acs.org/bulletin5](http://www.acs.org/bulletin5) (click on unit bylaws). There's also a status report that shows the certification dates of bylaws for Divisions, Local Sections, and International Chemical Sciences Chapters. Anyone can see those bylaws that have not been updated in quite a while. We encourage you to use the model bylaws, the bylaws template, or the questions document to update your bylaws. All are posted at the above link or contact C&B at [bylaws@acs.org](mailto:bylaws@acs.org).

Revisions to the Charter bylaws for International Chemical Sciences Chapters are up for action by Council at this meeting.

There are two petitions and one procedures document that are up for action at this meeting: Petition on the Rights of Affiliates and Petition for Removal of Officers and Councilors, along with the Procedure for Removal of Officers and Councilors. There is one petition for consideration: Petition on International Chemical Sciences Chapters. Petition deadline: new petitions to amend the Constitution and/or Bylaws must be received by the Executive Director ([bylaws@acs.org](mailto:bylaws@acs.org)) by **May 3** to be included in the Council agenda for the fall 2017 meeting in Washington, DC. We recommend that you send your draft petition to C&B at least one or two months before this deadline so that we can assist with wording and petition requirements, and ensure that the petition is in accordance with the ACS Governing Documents.

The January 1, 2017 edition of the ACS Governing Documents (Bulletin 5) and a detailed change document are available at [www.acs.org/bulletin5](http://www.acs.org/bulletin5). The online edition is the authoritative version.

ACS members are invited to attend C&B's open meeting on Sunday, April 2, from 1:30 – 1:45 pm. The committee will give a brief status report and will respond to any questions or comments you may have on committee-related matters. If you have any questions or comments and are unable to attend this meeting, please send us an email to [bylaws@acs.org](mailto:bylaws@acs.org).

James C. Carver, Chair



**CHARTER BYLAWS FOR NEW INTERNATIONAL CHEMICAL SCIENCES CHAPTERS**

**CHARTER BYLAWS\***  
**OF THE**  
**( name of chapter )**  
**International Chemical Sciences Chapter**  
**OF THE**  
**AMERICAN CHEMICAL SOCIETY**

**BYLAW I**  
**Name**

~~This~~ The name of this organization shall be **known as** the [C&B will insert your Chapter's name as approved by Council] \_\_\_\_\_. International Chemical Sciences Chapter (hereinafter referred to as the "Chapter") of the AMERICAN CHEMICAL SOCIETY (hereinafter referred to as the "SOCIETY").

**BYLAW II**  
**Objects**

Section 1. The objects of the Chapter shall be those of the SOCIETY as stated in the Charter and Constitution of the SOCIETY.

Section 2. **Nothing in** ~~No provision of~~ these bylaws shall be inconsistent with the Charter, Constitution, **and** ~~or~~ Bylaws of the SOCIETY.

**BYLAW III**  
**Territory**

The territory of the Chapter shall be that assigned to it by the SOCIETY.

**BYLAW IV**  
**Members**

Section 1. The rolls of the Chapter shall include those MEMBERS and STUDENT MEMBERS (hereinafter collectively referred to as "members") of the SOCIETY residing within the territory of the Chapter **(or by request in writing from outside the territory)** who have indicated in writing their intention to participate in the activities of the Chapter, ~~and paying the established annual dues as mentioned elsewhere in these bylaws.~~ **At least 25 members must reside within the territory.**

Section 2. Association with the Chapter shall continue until the MEMBER or STUDENT MEMBER ceases membership in the SOCIETY, permanently leaves the territory of the Chapter, resigns in

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\***Effective TBD.** Approved by the Council of the American Chemical Society.

ITEM IX, F(2)

writing from the Chapter (unless the member requests in writing to remain a member of the Chapter), or is in arrears for assessed Chapter dues, if any, for a period of six months.

Section 3. Members shall have such rights and privileges as are accorded them by the Constitution and Bylaws and these bylaws.

Section ~~43~~. A MEMBER or STUDENT MEMBER of the Chapter may, at the same time, be a member of a Local Section of the SOCIETY.

#### **BYLAW V** **Officers and Executive Committee Organization**

Section 1. The officers of the Chapter shall be MEMBERS of the SOCIETY and the Chapter and shall consist of the a Chair, Chair-Elect, Secretary, and Treasurer. The ~~offices of~~ Secretary and of Treasurer positions may be held by the same person.

~~Section 2. The Chapter shall establish an Executive Committee. The Executive Committee shall be the governing body of the Chapter and as such shall have full power to conduct, manage, and direct the business and affairs of the Chapter in accordance with the Constitution and Bylaws of the SOCIETY and these bylaws. The Executive Committee shall consist of the officers of the Chapter and beginning in the second year, the Immediate Past Chair. The Executive Committee shall meet upon due notice to its members at the call of the Chair, at the request of a majority of the members of the Committee. In the absence of a quorum, which shall be a majority of the members of the Executive Committee, called meetings of the Executive Committee shall adjourn to a date.~~

Section ~~13~~. The ~~Elected~~ officers of the Chapter shall serve ~~be elected by the members, shall take office on January 1, and shall hold office for a term of two years beginning on January 1,~~ or until their successors qualify ~~are elected~~. Upon completion ~~At the end~~ of the Chair's ~~Chair-Elect's~~ term of office, the Chair-Elect shall succeed to the office of Chair. The Secretary and Treasurer shall be elected in alternate years, whenever possible.

Section ~~34~~. The duties of the officers shall be ~~those customarily performed by such officers,~~ such as usually pertain to their offices, together with those responsibilities ~~prescribed~~ required by these bylaws and by the Constitution and Bylaws of the SOCIETY, and such other duties as may be assigned to them from time to time by the Executive Committee.

- a. The duties of the Chair shall be to preside at meetings of the Executive Committee, to carry into effect the decisions and recommendations of that Committee, to preside at meetings of the Chapter to conduct governance business, to appoint, with the approval of the Executive Committee, all committee chairs and committee members except as stated elsewhere in these bylaws, and to carry out the duties required by the Constitution and Bylaws of the SOCIETY. ~~Section 2. The Chair of the Chapter shall serve as Chair of the Executive Committee and shall appoint members to all committees authorized in these bylaws or by the Executive Committee. By April 1 of each year the Chair of the Chapter shall send to the Executive Director of the SOCIETY a complete roster of the Chapter.~~
- b. The duties of the Chair-Elect shall be to assist the Chair with the direction and management of the Chapter. In the absence of the Chair, the duties of the office shall devolve upon the Chair-Elect.

- c. The duties of the Secretary shall be to keep a record of the minutes of the meetings of the Chapter and of the Executive Committee, to maintain a list of members, to send to members such notices as the business of the Chapter may require, to submit a report to the Chapter at its annual meeting, and to carry out the duties required by the Constitution and Bylaws of the SOCIETY and elsewhere in these bylaws. The term of office shall be two years; reelection is permissible. Section 4. The Secretary of the Chapter shall prepare an annual report to be submitted by April 1 of each year to the Executive Director of the SOCIETY.
- d. The Treasurer shall have charge of the funds of the Chapter, keep an accurate record of all receipts and disbursements, receive dues if assessed, and make those disbursements approved by the Executive Committee. The Treasurer shall render an account of all transactions and of the financial condition of the Chapter to the Executive Committee at times set by the Committee, and shall submit such reports as are required by the Constitution and Bylaws of the SOCIETY. The Treasurer shall furnish to the Chapter such bond as may be required by the Executive Committee to guarantee the faithful performance of the above duties, the expense of the bond to be borne by the Chapter. The term of office shall be two years; reelection is permissible.

#### Section 5. Vacancies

- a. In the event of a vacancy in the office of Chair, the Chair-Elect shall assume the added duties of the Chair for the ~~unexpired~~ **remainder of the term. In such case, the Chair-Elect person moving into the position of Chair shall also hold that position during the normal term year as Chair as part of the leadership transition.**
- b. All other vacancies **for elected positions** shall be filled by **majority vote of** the Executive Committee from among the MEMBERS ~~by~~ **through** interim appointment for the period up to the next annual election, ~~at which time the Chapter shall choose a MEMBER to complete the unexpired term, if any.~~ **At that time, the procedures for election as outlined in the bylaws of the Chapter shall be followed.**
- c. **An interim appointee to the vacated office of Chair-Elect shall not automatically succeed to the office of Chair. At the next election, both a Chair and a Chair-Elect shall be elected.** ~~In the event the office of Chair-Elect is filled by such interim appointment, the Chapter shall elect both a Chair and a Chair-Elect at its annual election.~~

#### BYLAW VI

##### ~~Manner of Election and Terms of Office~~

Section 1. The election of officers shall be conducted either by a ballot distributed to the members of the Chapter in accordance with the Bylaws of the SOCIETY or at a regular meeting of the Chapter provided there is a quorum present as described elsewhere in these bylaws.

Section 1. The officers of the Chapter shall be elected by the members, shall take office on January 1, and shall hold office for one year, or until their successors qualify. ~~Upon completion of the Chair's term of office, the Chair-Elect shall succeed to the office of Chair.~~

**Section 23. In September of each year, the Nomination Committee shall report to the membership its nominations for each office to be filled. Prior to October 15, any member of the Chapter may, in writing or from the floor at a meeting, nominate additional candidates for office, provided the nominees are MEMBERS of the Chapter as required elsewhere in these bylaws, if the nomination is seconded by another member. Nominations so made shall be equally valid as those from the Nomination Committee. All candidates nominated shall have indicated willingness to serve if elected.**

~~Section 3. The Chair shall appoint a Nominating Committee consisting of a Chair and two or more members not later than September of each year. Not more than one member of the Not Executive Committee may be a member of the Nominating Committee. **When a ballot is used, the candidates for each office shall be listed in an order to be selected by lot on a ballot to be distributed to each member of the Chapter by November 1. The ballot shall provide for a write-in candidate for each position to be filled. A paper ballot shall be provided to any member who requests it.**~~

**Section 4. The ballots shall be tabulated and validated not later than November 15. The candidate for each position receiving the largest number of votes shall be declared elected. In case of a tie vote for any position, the Executive Committee, by ballot, shall elect from among the candidates who share the tie vote; the candidate receiving the largest number of votes shall be declared elected.**

~~Section 56. **The results shall be announced by the Chapter Chair or his or her designee as soon as possible after the election, and also published in the Chapter's newsletter and/or on the Chapter's website soon thereafter. The results shall be certified to the Executive Director of the SOCIETY not later than December 1** in accordance with the Bylaws of the SOCIETY.~~

~~Section 4. The Nominating Committee shall nominate one or more MEMBERS for each elective position for which a vacancy will occur and shall make a report at a regular meeting of the Chapter. With the exception of the Chair and Chair Elect, the incumbent of any elective position may be re-nominated. After the report of the Committee, nominations may be received from the floor or by petition. Only nominees who have agreed to serve may be named on the ballot.~~

~~Section 65. **In accordance with the SOCIETY's Bylaws, balloting** At the discretion of the Executive Committee, the election of officers shall be conducted either by ballot at a regular meeting subsequent to the meeting at which nominations were closed or by ballot distributed to all members.~~

~~Section 6. The Executive Committee shall specify procedures **should ensure** for voting. The specified procedures shall meet SOCIETY requirements for (1) fair balloting that is open to all eligible members of the Chapter, (2) anonymity, (3) protection against fraudulent balloting, **and** (4) ballot archiving, and (5) the timely reporting and archiving of balloting results.~~

~~Section 7. The Secretary, or other designated officer of the Chapter, shall prepare an election ballot on which shall appear the names of all nominees, in order chosen by lot.~~

~~Section 8. No less than four weeks must be provided between the date of distribution of ballots to the members and the deadline for their return to the Secretary or other designated officer of the Chapter.~~

~~Section 9. The Chair shall appoint as Tellers two or more members who are neither candidates for office nor members of the Executive Committee.~~

~~Section 10. The Secretary, or other designated officer of the Chapter, shall verify the validity of all ballots received by the deadline. The Secretary shall transmit all ballots to the Tellers.~~

ITEM IX, F(2)

~~Section 11. The Tellers shall count the ballots, and shall tally the votes. Ballots that violate specified voting procedures shall be rejected in whole or in part, depending on the extent of the violation(s). The vote tally, including the number of rejected and invalidated ballots shall be reported to the Chair. All ballots shall be returned to the Secretary.~~

~~Section 12. In case of a tie vote for any elective position, the Executive Committee shall select from among the tied candidates.~~

~~Section 13. The Chair shall inform all candidates of the election results and shall arrange for transmitting this information to all members of the Chapter.~~

~~Section 14. The Secretary shall retain all ballots for at least ninety days after either the announcement of the results to the membership or until any disputes have been resolved, whichever is later.~~

~~Section 15. Elections shall be completed and the results certified to the Executive Director of the SOCIETY by December 1 of each year.~~

**BYLAW VII**  
**Recall of Elected Officials**

Section 1. The elected officials of the Chapter (officers ~~and~~ ~~or~~ elected Executive Committee members) are subject to recall for neglect of duties or conduct injurious to the SOCIETY.

Section 2. The recall of an official shall be initiated when a signed petition, indicating in writing the specific charges and reasonable substantiating evidence, is submitted to the Chair from at least five ~~voting~~ members of the Chapter. In the event the Chair is the official in question, the Chair-Elect shall receive the petition and shall assume the duties of the ~~office of~~ Chair with respect to this issue until the issue is resolved.

Section 3. The Chair shall, without delay, determine that the petitioners are aware of the gravity of their actions and the procedures to be followed. The Chair shall seek an alternate resolution to the problem and a withdrawal of the petition at this time. In the absence of a resolution to the problem, the Chair shall ~~notify present the~~ **members of issue** to the Executive Committee ~~and call as a special new business item at the next Executive Committee meeting~~ **within thirty days**.

- a. The Executive Committee shall promptly continue the recall process or dismiss the petition as ill-founded or find an **alternate resolution** ~~alternative solution~~ to the problem. The Chair shall promptly inform the petitioners and the official of the decision of the Executive Committee. **If no contact with the official can be made after a reasonable effort, the Executive Committee may remove the official in question with a two-thirds (2/3) vote of the remaining members.**
- b. If the proceedings continue:
  - (1) ~~The, the~~ Chair shall assign the duties of the official to another qualified MEMBER of the Chapter until the issue is resolved.
  - (2) ~~The~~ **If the proceedings continue, the** official shall be offered an opportunity to answer the allegations in the petition before the Executive Committee. ~~A Every reasonable effort shall be made to contact the official throughout this procedure. That effort shall~~

ITEM IX, F(2)

~~include a~~ certified letter **shall be sent** to the last known address on the official SOCIETY membership ~~roll-rolls~~. Upon notification, the official shall have thirty days to make a written response to the allegations.

- (3) The Executive Committee shall decide whether **or not** to proceed after studying the official's response. The Chair shall inform the official and the petitioners of the decision of the Executive Committee. ~~If no contact with the official can be made after a reasonable effort,~~ the Executive Committee **decides that** ~~may remove the official in question with a two-thirds vote of the remaining members of the Executive Committee.~~ ~~If the proceedings~~ **shall** continue, the official shall choose one of the following options:
- (a) The official may resign.
  - (b) The official may request a recall vote. **Chapter members** ~~in the same manner as the original election, which must be consistent with the Chapter bylaws. The voting membership shall be informed, through brief written statements prepared by the Executive Committee and the official, of the issues involved with the recall vote. Both statements shall be~~ **distributed to the members** ~~before~~ **with** the vote conducted by ballot. A paper ballot will ~~shall~~ be mailed **provided to any member who requests it. At least two-thirds (2/3) of votes cast shall be required for the official to be removed from office. The membership shall be informed of the results of the recall vote** ~~given to the voting membership before the vote is taken.~~
  - (c) The official may request a hearing and a recall vote by the remaining members of the Executive Committee. ~~At least~~ **A two-thirds (2/3) vote of the remaining members of the Executive Committee shall be required to recall the official.**
  - (d) The official may choose not to respond and thus forfeit the position.

Section 4. The vacancy provisions of these bylaws shall be used to fill a vacancy caused by a recall process. ~~The membership of the Chapter and the Executive Director of the SOCIETY shall be informed of the results of the recall process and the~~ **filling** ~~replacement of the~~ **vacancy** ~~official.~~

#### **BYLAW VIII**

##### **Duties of Officers and Executive Committee**

Section 1. ~~The duties of the officers shall be those customarily performed by such officers, together with those responsibilities prescribed by the Constitution and Bylaws of the SOCIETY and by these bylaws and such other duties as may be assigned by the Executive Committee.~~

Section 2. ~~The Chair of the Chapter shall serve as Chair of the Executive Committee and shall appoint members to all committees authorized in these bylaws or by the Executive Committee. By April 1 of each year the Chair of the Chapter shall send to the Executive Director of the SOCIETY a complete roster of the Chapter.~~

Section 3. ~~The Executive Committee shall be the governing body of the Chapter and shall have full power to conduct, manage, and direct the business and affairs of the Chapter in accordance with the Constitution and Bylaws of the SOCIETY and these bylaws.~~

ITEM IX, F(2)

Section 4. The Secretary of the Chapter shall prepare an annual report to be submitted by April 1 of each year to the Executive Director of the SOCIETY.

### **BYLAW VIII-X Committees**

Section 1. The Executive Committee shall establish committees as necessary for the proper operation of the Chapter. **All committee members shall be members of the SOCIETY and the Chapter.**

Section 2. The Chapter shall have the following standing committee: **Nomination.**

### **BYLAW IX-X Meetings**

Section 1. The Chapter ~~Executive Committee~~ shall hold regular **designate the times and places of the Chapter's** meetings at places and times designated by the Executive Committee. **as it finds necessary or desirable for the proper functioning of the Chapter. The Chapter shall hold at least one meeting annually to conduct governance business; however, this requirement may be modified by the Executive Committee.**

**Section 2. The Executive Committee shall set the order of business for business meetings of the Chapter to conduct governance business. The order of business may be suspended by a majority vote of the members present.**

Section ~~23~~. The Chapter may hold special meetings **to conduct governance business** at the call **upon the written request of a majority** of the Executive Committee or **upon** at the written request of 10 members of the Chapter. **The notices of special meetings** **To be valid, such request shall be received by the Secretary at least ten days before the date requested for the meeting and** shall state the exact nature of the business to be **transacted** considered and ~~n~~ No other business shall **transpire** be transacted at such meetings.

**Section 54. Meetings of the Executive Committee and meetings of the Chapter to conduct Chapter governance business,** with the approval of the Executive Committee, **may be held by means of electronic communications technology that permits those in attendance to read or hear the proceedings substantially concurrently with their occurrence, to vote on matters submitted, to pose questions, and to make comments.**

Section ~~45~~. The Executive Committee shall meet upon due notice **either** to its members at the call of the Chair, or at the **upon** request of a majority of the ~~its~~ members of the Committee. **A quorum for an Executive Committee meeting shall consist of a majority of the voting members of the Committee.** In the absence of a quorum, which shall be a majority of the members of the Executive Committee, called meetings of the Executive Committee shall adjourn to a **specific** date.

Section ~~36~~. Due notice of all ~~business and technical~~ **the Chapter's** meetings, **not including committee meetings,** shall be distributed **sent** to each member of the Chapter. A quorum for **the** transaction of **governance** business at **such** a Chapter meeting shall consist of 10 members of the Chapter. No **governance** business shall be **conducted** transacted in the absence of a quorum.

ITEM IX, F(2)

Section 47. The fee for registration at any special meeting may be decided by the Executive Committee in accordance with the Constitution of the SOCIETY.

Section 58. The most recent edition of Robert's Rules of Order Newly Revised shall be the parliamentary authority for all matters not covered in these bylaws or in the SOCIETY's documents.

#### **BYLAW XI Political Activity; SOCIETY's Interests; Open Activities**

~~Section 1.~~ The Chapter and the its officers, as representatives of the Chapter, shall:

- a. not engage in political activity, including lobbying;
- b. ~~Section 2.~~ The Chapter and its officers, as representatives of the Chapter, shall avoid any activities that may adversely affect the interests and/or public or professional image of the SOCIETY; and.
- c. ~~Section 3.~~ The Chapter and its officers shall assure that all activities of the Chapter are open to all members of the SOCIETY.

#### **BYLAW XI-XII Finances**

Section 1. ~~All m~~Members of the Chapter may be assessed such annual Chapter dues as may be set by the Executive Committee, to be expended for the Chapter's purposes in harmony with the objects of the SOCIETY.

Section 2. ~~The Chapter shall not incur any debts, obligations or liabilities that could become binding upon the SOCIETY.~~ The Chapter may raise or collect funds, to be expended for the Chapter's purposes, and may have the entire management and control of such funds insofar as such management and control shall not conflict in harmony with any provision of these bylaws or with the Constitution or Bylaws the objects of the SOCIETY.

**Section 3.** The Chapter shall not incur any debts, obligations or liabilities that could become binding upon the SOCIETY.

Section 43. ~~An~~ The Chair shall prepare an annual audit report to be submitted by April 1 of the books of the Treasurer and of any other transactions regarding the Chapter's funds shall be conducted by each year to the Committee on International Activities. two or more disinterested members, appointed by the Executive Committee. The audit This report shall be submitted to through the Executive Committee by January 31 Director.

#### **BYLAW XII-XIII Amendments**

Section 1: A petition proposed amendment to amend the these bylaws may must first be initiated by submitted in writing to the Executive Committee, or by petition signed by at least 10 members



ITEM IX, F(2)

of the Chapter. If **the proposed amendment** ~~it~~ is approved by the Executive Committee, **if practical, it shall be submitted** submit the proposed amendments to the Committee on Constitution and Bylaws for review, ~~before being submitted to the membership of the Chapter. After any required changes are incorporated, and any recommended changes reviewed and accepted or rejected by a majority of the petitioners and/or Executive Committee, the Secretary shall distribute the amendment to each member of the Chapter when notice of the next meeting, or notice of a ballot on the amendment is provided.~~

**Section 2. The Executive Committee will then incorporate all the required changes and either accept or reject any recommended changes that are suggested by the Committee on Constitution and Bylaws. The revised bylaws shall then be submitted to the Chapter members for adoption. This may be accomplished at a business meeting of the Chapter provided that at least eight weeks prior notice is given to the Chapter members.**

~~Section 2. Following announcement of the proposed amendment at a meeting of the Chapter, and provided that due notice of the impending vote, either at a meeting or by ballot, is given, the amendment will be adopted at the subsequent meeting of the Chapter if it receives an affirmative vote by two-thirds (2/3) of the ballots returned.~~

~~Section 3. If a proposed amendment is not approved by a majority of the Executive Committee, **and if the petition is signed by at least 10 members of the Chapter,** it may be brought to the members for a vote in an alternative manner. To bring about such a vote, a petition supporting the amendment signed by at least 10 members or three percent of the members of the Chapter, whichever is larger, must be presented to the Executive Committee. The procedure subsequently followed for general announcement of the amendment and balloting shall be identical to that used for an amendment approved by the Executive Committee. **if practical, it shall be submitted to the SOCIETY's** Committee on Constitution and Bylaws for review before being ~~distributed~~ submitted to the ~~members~~ membership of the Chapter. After any required changes are incorporated, and any recommended changes reviewed and accepted or rejected by a majority of the petitioners and/or Executive Committee, the Secretary shall distribute the amendment to each member of the Chapter when notice of the next meeting, or notice of a ballot on the amendment is provided.~~

~~Section 4. **At least two-thirds (2/3) of votes cast shall be required to approve 2.** Following announcement of the proposed amendment. **Alternatively, or failing the presence of a quorum, the vote may be taken by a ballot distributed to all members of the Chapter. At least two-thirds (2/3) of the valid ballots returned must be affirmative for adoption.**~~

~~**Section 5. The Secretary shall distribute the outcome** at a meeting of the **vote regarding** Chapter, and provided that due notice of the impending vote, either at a meeting or by ballot, is given, the amendment(s) **to the Chapter members and within one month shall meet all requirements for submitting** will be adopted at the subsequent meeting of the **results to** Chapter if it receives an affirmative vote by two-thirds (2/3) of the **Committee on Constitution and Bylaws** ballots returned.~~

~~Section 64. Amendments to these bylaws, after adoption by the Chapter, shall become effective upon approval by the Committee on Constitution and Bylaws, acting for the Council of the SOCIETY, unless a later date is specified in the amendment.~~

BYLAW XII-XIV  
Dissolution of the Chapter

ITEM IX, F(2)

Upon the dissolution of the Chapter, any assets of the Chapter remaining thereafter shall be conveyed to such organization then existent, within or without the territory of the Chapter, as is dedicated to the perpetuation of objects similar to those of the AMERICAN CHEMICAL SOCIETY, or to the AMERICAN CHEMICAL SOCIETY, so long as whichever organization is selected by the governing body of the International Chemical Sciences Chapter at the time of dissolution shall be exempt under Section 501(c)(3) of the ~~United States~~ Internal Revenue Code of 1954 as amended or under such successor provision of the Code as may be in effect at the time of the Chapter's ~~Chapter's~~ dissolution.

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

For more information see [www.acs.org/bulletin5](http://www.acs.org/bulletin5) (click on petitions) or contact [bylaws@acs.org](mailto:bylaws@acs.org). The deadline for written comments is May 5, 2017.

**ORIGINAL**

**FOR CONSIDERATION**

**Petition on International Chemical Sciences Chapters**

**Bylaw IX, Sec. 4**

**Petition**

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

**Bylaw IX  
International Chemical Sciences Chapters**

...  
**Sec. 4.**

An International Chemical Sciences Chapter **may receive financial support in some form** ~~shall receive no allotment of funds from the SOCIETY and shall not be entitled to elected representation on the Council.~~ A Chapter may assess local dues to be expended for its own purposes in harmony with the objects of the SOCIETY. (~~11/18/91~~)

**Explanation**

This part of the Bylaws was written twenty-five years ago when the concept of the International Chemical Science Chapter was created placing financial and representation restrictions on them while waiting on to see how they will fit into the life of the SOCIETY thousands of miles away. The results proved the success of the experiment and it is time to bring them closer to the SOCIETY. The amendment is the first step in this process. It would eliminate the restrictions and allow various Committees and Task Forces to determine and to propose the conditions under which they could be helped financially and they could participate in decision making of the SOCIETY's affairs.

The first Chapter was the one in Saudi Arabia where a number of ACS members, mostly Americans were working and they wanted to have some type of group with similar background and activities as Local Sections. During the years of its existence, local chemists became ACS members and joined

group. In 1996, ACS members in Hong Kong formed a Chapter to confirm their relation to the ACS ahead of the expected take over by China. The third chapter was formed in 2003 in Hungary with close cooperation of the local national chemical society. This was the first chapter, which was formed to promote the goals of ACS through such cooperation. Their number started to increase rapidly. Presently there are 19 chapters.

These Chapters are governed and operated in the same way as the Local Sections. They have meetings and conduct numerous activities in their own areas benefitting chemistry and the ACS. While total ACS membership rose by 0.6 percent in 2015, the foreign membership increased by 3.85 percent. Presently these Chapters, with the exception of those in China, represent all ACS members located in their whole country on the average with 50–250 members. There are 9108 ACS members in those countries where these chapters are located about one third of our total international members: 27,697. In comparison, twelve of our 185 Local Sections each represent a whole State with a total 8241 ACS members.

International members are just as active in the scientific life of our SOCIETY domestic ones: 39.6 percent vs. 35.4 percent. This is the ratio of those members who belongs to at least one Division. During the past three years the number of international members increased by 1,000 (330/year) while the total membership declined because on the average we recruited 24,400 members while 26,200 dropped their membership. Without the increased number of international members the drop would be higher.

In today's world the SOCIETY must maintain its interaction with the international community of chemistry professionals of the world. Our International Chemical Science Chapters can play a very important part in this effort. The removal of these restrictions would assure them that they are essential parts of the life and activities of our SOCIETY. When this is followed up later with appropriate conditions for their total involvement, they will be efficient partners in our worldwide effort to promote chemistry.

Signed:

Dr. Paul. S. Anderson

Dr. Thomas J. Barton

Dr. Ronald Breslow

Dr. Charles P. Casey

Mr. Ned D. Heindel

Dr. Nancy B. Jackson

Dr. Elizabeth Ann F. Nalley

Dr. Attila E. Pavlath

Dr. Brian Mandel Rushton

Dr. Paul H.L. Walter

Dr. Marinda P. Li Wu

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

**\*Committee having primary substantive responsibility**

### **PRELIMINARY STATEMENT OF FINANCIAL IMPACT**

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

**PRELIMINARY REPORT OF THE COMMITTEE ON CONSTITUTION AND BYLAWS**

The Committee on Constitution and Bylaws has reviewed the petition and finds it to be legal and not inconsistent with the Constitution of the SOCIETY. By deleting the phrase, “and shall not be entitled to elected representation on the Council,” this does not mean that International Chemical Sciences Chapters will be permitted to have elected representation on Council because of provisions in the Constitution and other Bylaws that are not included in this petition. For example, the Constitution provides that Council is made up of 20 percent of Councilors elected by Divisions and 80 percent of Councilors elected by Local Sections. Thus, it does not appear that this petition if approved would satisfy the purpose of the petition as set forth in the “Explanation”, except perhaps that this is a first step.

Regarding the addition of the phrase, “may receive financial support in some form,” this is already permitted since the Board may approve such financial support. However, C&B would have no objection to this being added, with suggested edits from C&B. Regarding the deletion of the phrase, “shall receive no allotment of funds,” this does not necessarily permit them to have an allotment of funds. The Constitution and other Bylaws would most likely need to be amended if it is their intent to have such an allotment of funds

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](mailto:bylaws@acs.org).

Dr. James C. Carver  
Chair

### A. Younger Chemists (joint with Board)

The Younger Chemists Committee (YCC) met in Philadelphia, PA on August 20-21, 2016. The YCC is comprised of young and early career chemists who are just beginning their work within ACS. As such, we are often asking questions about how and why the Society operates, in order to learn more about this community. We are grateful for the many people who, formally and informally, provide mentorship to YCC, while simultaneously allowing us to retain autonomy and supporting us as we strive to make an impact for chemists everywhere. As YCC members “age off”, we look to other ACS Divisions and committees for the opportunity to continue this journey, so I encourage you to consider engaging YCC members, old and new, in your efforts, as I’m certain they will be an asset to your work.

In general, the YCC is eager to make connections throughout the Society to learn more about the work you’re doing. If you have a topic or program you’d like us to provide feedback, support, or volunteers for, please consider reaching out or visiting our open meetings, typically held on the Sunday morning of national meetings.

During the 2016 ACS Presidential Election, the Committee’s Catalyze the Vote initiative came to full fruition. Our goal was to drive awareness and interest of younger chemists to the ACS National Election, and the benefits of ACS membership in general. On the evening of September 29, we hosted the first **Live Virtual Town Hall** where ACS members logged in to hear from the two Presidential Candidates, Dr. Peter Dorhout and Dr. Thomas Gilbert. The event was successful, with questions sent ahead of time and throughout the live event. The event allowed both candidates to show a candid, personal side, which resonated well with the attendees.

This event was followed up with the YCC hosting a Catalyze the Vote official voting day on October 11. We encouraged younger chemists to vote together, and share this on Social Media (see image at right). With these efforts, we increased turnout on this date and we hope that this program will continue to grow and increase younger chemist involvement in the ACS National Election process.



The YCC is proud of the continued success of our Fun Run, with support from the Members Insurance Program. The Fun Run is a great way to see more of our host city and to get some physical activity in before talks and meetings throughout the remainder of the day. Runners and walkers of all levels are welcome to attend! Due to continued popularity, the Fun Run is now offered at both the Spring and Fall National Meetings for the foreseeable future. We’ve even included some great giveaways, and we look forward to seeing you at future events!

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

Natalie LaFranzo, Chair

B. Women Chemists  
(joint with Board)

The Women Chemists Committee, founded in 1927, is celebrating its 90<sup>th</sup> anniversary. During 2017, WCC is looking back and looking ahead.

In honor of those who have led, served, and supported this committee, WCC is sponsoring a half-day symposium, “Celebrating 90 years of the WCC: Reflections of Past Chairs,” at the 253rd ACS National Meeting. Past chairs spanning four decades will offer their perspectives on what the committee has accomplished and look forward to what challenges remain.

Other WCC national meeting events to be held in San Francisco include the following:

- The 2017 Francis P. Garvan-John M. Olin Medal award winner, Dr. Barbara Finlayson-Pitts, will be honored at the WCC Luncheon with a special introduction by President Allison Campbell.
- Recipients of the 2017 Spring WCC/Eli Lilly Travel Award will share their accomplishments at a poster session prior to the WCC luncheon.
- Dr. Judith Iriarte-Gross, recipient of the 2017 ACS Award for Encouraging Women into Careers in the Chemical Sciences, will be honored during a WCC-sponsored full-day symposium.
- Winners of the 6<sup>th</sup> annual WCC Rising Star award, which recognizes early to mid-career women with exceptional accomplishments in their fields, will speak at a half-day symposium. Following their symposium, they will be honored at the WCC “Just Cocktails” networking reception, where the accomplishments of the committee over the past 90 years will also be highlighted.
- The Women in the Chemical Enterprise Breakfast’s theme is “Start-ups and Spin-offs.” A panel of CEOs of startup companies will speak to the challenges and opportunities of their entrepreneurial work.

Since the fall meeting, WCC and the ACS Committee on Grants & Awards hosted “Becoming Award Ready.” This webinar, moderated by Dr. Amber Charlebois, featured Dr. Amanda Bryant-Friedrich, who spoke to “Why underrepresented minorities are not recipients of scientific awards,” and Dr. Les McQuire, who presented “Nominations packages are important!” A recording of this webinar can be accessed at:

- WCC website (<http://womenchemists.sites.acs.org>)
- ACS National Awards website (<http://www.acs.org/NationalAwards>)
- YouTube ([https://www.youtube.com/watch?v=G\\_sdsNVUJQU&feature=youtu.be](https://www.youtube.com/watch?v=G_sdsNVUJQU&feature=youtu.be))

Also available on the WCC website are links to recent *Chemical & Engineering News* articles on the topic and a one-page summary guide to assist nominators.

The advisory board and the editorial team for the second edition of the book “Mom the Chemistry Professor” last fall. Representatives from the ACS Diversity & Inclusion Advisory Board and the ACS Committee on Chemical Safety provided input on the review process, contributions from invited authors, and ideas for additional text, including information about laboratory safety during pregnancy.

In 2017, WCC will be revising its strategic plan. Suggestions regarding ways to fulfill the WCC mission – attracting, retaining, developing, promoting, and advocating for women chemists – can be sent to [wcc@acs.org](mailto:wcc@acs.org).

Laura Sremaniak, 2017 Chair  
Amber F. Charlebois, 2016 Chair

C. Senior Chemists  
(joint with Board)

The Senior Chemists Committee (SCC) worked diligently over the past year on initiatives in support of its strategic direction. In August 2016, SCC awarded mini-grants to 10 Local Sections in an ongoing effort to increase the number of senior chemists groups and events within Local Sections. Eight of the 10 Local Sections have reported on very successful events and activities, which included a special dinner to celebrate 50- and 60-year members; and a successful "cheese-themed" dinner which highlighted the history and chemistry of cheese.

SCC launched the Senior Chemists Group on the ACS Network in September 2016 to encourage communication among senior chemists, to promote senior chemists events hosted by Local Sections, and to provide information about the committee's work and events. The Senior Chemists Group now has 234 members and is one of the largest communities of the ACS Network. We are working within SCC to identify more champions to lead discussions on topics of interest for the group.

At its meeting in Philadelphia, there was consensus from SCC members to retire the "silver circle" moniker they had used for years. The committee believed its work and the distribution of *The Newsletter for Senior Chemists* would be better received by its constituency if there was a consistent identity. From this discussion, a new email address was established ([seniorchemists@acs.org](mailto:seniorchemists@acs.org)) that will be used for all communications by SCC moving forward. The most recent issue of the newsletter was released in November 2016 and to date, its readership is at 30% – a significant increase from 24.3% in June 2016 and 23.3% in December 2015 editions.

Promotional materials were designed for SCC, including a promotion poster and trifold strategy cards highlighting the new vision, mission, goals, and activities of the committee. These items were among those distributed by the SCC chair at the 2017 ACS Leadership Institute in Dallas and will be made available for national and regional meetings.

SCC welcomes Dr. Paul Alivisatos as the keynote speaker for its Senior Chemists Breakfast in San Francisco. Dr. Alivisatos is UC Berkeley's Samsung Distinguished Professor of Nanoscience and Nanotechnology and Vice Chancellor for Research with overall responsibility for UC Berkeley's research endeavor and primary leadership in research policy, planning, and administration. Dr. Alivisatos directs the Kavli Energy NanoScience Institute (ENSI), and is a founder of two prominent nanotechnology companies, Nanosys and Quantum Dot Corp.

Thomas R. Beattie, Chair



D. Publications  
(joint with Board)

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

The progress report for the *Journal of the American Chemical Society* and the monitoring reports for *Chemical Research in Toxicology*, *Inorganic Chemistry*, *ACS Sustainable Chemistry & Engineering*, *ACS Macro Letters* and *Macromolecules* were presented, discussed thoroughly and accepted with thanks. Editor reappointments were reviewed and recommendations were made. The next publications to be monitored will be *ACS Photonics*, *Bioconjugate Chemistry* and *ACS Applied Materials & Interfaces*.

It was announced that two Editor Search Committees had recommended, and the ACS Board of Directors had approved the following appointments:

- Professor Scott Miller (Yale University) to serve as the new Editor-in-Chief of *The Journal of Organic Chemistry*, for a July 1, 2016 to December 31, 2021 term.
- Professor Alanna Schepartz (Yale University) to serve as the new Editor-in-Chief of *Biochemistry*, for a July 1, 2016 to December 31, 2021 term.

The focus for C&EN continues to be editorial excellence and the Editor-in-Chief of C&EN provided examples of recent pieces across print, web and video that demonstrate this. She also highlighted ways in which C&EN is taking advantage of social media as well as products such as our weekly newsletters to engage with readers and increase web usage. As part of C&EN's digital strategy, C&EN has made changes to the website to make it mobile friendly and the C&EN mobile app was refreshed. Also announced was the development of selected C&EN content translated in Chinese. The Editor-in-Chief of C&EN also gave a brief summary of new commerce initiatives, such as native advertising and C&EN for Institutions, a new format offering planned for 2017.

The newly hired Senior Vice President of the Journals Publishing Group discussed the geographic diversity of ACS publications, noting that 70% of article publications originate with authors outside the U.S., with China and India two current growth areas of focus for ACS Publications. ACS Publications is undertaking a conference in concert with the Institute of Chemistry, Chinese Academy of Sciences (ICCAS) 60<sup>th</sup> Anniversary in October, with nearly 300 delegates already registered. *ACS Omega*, led by Co-Editors located in the Americas, Europe, China and India, represents a strong foray for ACS Publications to court global authors to our fully open access journal. Other outreach activities include the development of an Asian editorial advisory board.

ACS Publications Division President announced that the Society will organize a chemistry preprint server to promote early research sharing for the global chemistry community. This pursuit will be organized jointly with Chemical Abstracts Service (CAS) and will enlist other external stakeholders and potential co-sponsors.

Nicole S. Sampson, Chair

E. Professional Training  
(joint with Board)

At the August 2016 and January 2017 meetings, the Committee on Professional Training (CPT) evaluated a combined total of 76 periodic reports from currently approved programs. Updates from six programs seeking initial approval were reviewed. Five new programs were approved, and approval was withheld for one institution. During the fall 2016 submission period, nine programs submitted pre-applications for ACS approval, and five were invited to move to the next step in the application process. The current number of colleges and universities offering ACS-approved bachelor's degree programs is 689.

At the ACS national meeting in August, CPT met with department chairs from PhD-granting institutions to discuss approaches to aid students in developing a broader knowledge of the chemical research in their fields, how mentoring skills are developed in graduate students who teach undergraduates, and professional development activities for graduate and undergraduate students. The committee also received a final report on the status of the *ACS Directory of Graduate Research*, which is no longer published. The archival databases will be available on the ACS website through the end of 2018.

The committee continued its multi-year project to improve the consistency of program reviews with extensive discussions at the January meeting and development of plans for a special retreat on this topic to be held in June. The first edition of a CPT member handbook was shared with the committee. The handbook is intended to orient new members and serve as a resource for CPT procedures and policies. The committee reviewed and approved a new FAQ document designed to assist chemistry departments with completion of the periodic report form, a new version of a document that provides guidance for CPT Visiting Associates who conduct site visits for programs seeking approval, and revisions to the periodic report form to be used for 2017 program reviews.

The fall 2016 issue of the CPT Newsletter highlighted two new resources from the ACS Committee on Chemical Safety: guidelines for lab safety in academic institutions and a job hazard assessment tool. CPT learned that requests for the safety guidelines booklet increased substantially after the distribution of the CPT Newsletter. In addition to the ACS Guidelines, CPT publishes several supplements to provide programs with additional guidance on various aspects of the curriculum. Three new supplements were approved at the January meeting. One supplement provides extensive advice on topics that might be taught to satisfy the macromolecular science requirement that was added in the 2015 ACS Guidelines. The other two supplements describe the value of ACS approval to chemistry programs and the value of certification to students. All supplements are available on the CPT website, [www.acs.org/cpt](http://www.acs.org/cpt). The committee completed development of a questionnaire that will be used to survey practices at chemistry programs with respect to the use of online courses and virtual laboratories. Data collection will occur during the spring academic term with a report of the results planned for publication in the fall.

Thomas J. Wenzel, Chair

### F. Nomenclature, Terminology, and Symbols

The ACS Committee on Nomenclature, Terminology, and Symbols (NTS) has been very active since our last report to Council.

NTS has continued working to maintain a strong relationship with IUPAC. We discussed and provided comment to IUPAC on the selection of the names and symbols for the newly discovered elements that complete the seventh Period of the periodic table; elements Nihonium ( ${}_{113}\text{Nh}$ ), Moscovium ( ${}_{115}\text{Mc}$ ), Tennessine ( ${}_{117}\text{Ts}$ ), and Oganesson ( ${}_{118}\text{Og}$ ). Our outreach efforts to the ACS membership provided information on how new elements are named, a primer on inorganic nomenclature, and numerous articles on other aspects of nomenclature, terminology, and symbols in an effort to increase awareness. We are aware of changes to the IUPAC Blue Book with a proposed re-issue of the nomenclature rules in 2019.

NTS is currently working with the Committee on Chemists with Disabilities as they create an open-source set of standards for the Braille transcription community. The use of standards in this area will address a significant need within the visually impaired community. Our review and evaluation will start in San Francisco and continue through the year as the standards are denoted and implemented. We hope to have a recommendation for Council action at the Fall meeting in DC.

NTS worked with other ACS groups to co-sponsor symposia on issues related to nomenclature, terminology and symbols. For example, NTS co-hosted a day-long symposium in Philadelphia entitled “Elements Old & New: Discoveries, Developments, Challenges & Environmental Implications” with ENVR, HIST, and the Committee on Environmental Improvement. Similar outreach to increase member awareness of committee activities and to provide information on nomenclature, terminology, and symbols to the greater ACS community is being planned for the Fall 2017 meeting. NTS welcomes comments, input, and collaboration with other committees.

Michael D. Mosher, Chair

G. Minority Affairs  
(joint with Board)

The ACS Committee on Minority Affairs (CMA) has experienced substantial progress in the past few years co-programming with ACS Technical Divisions and other committees. In San Francisco, CMA is cosponsoring three symposia: “The Importance of Role Models and Mentors in Reaching Gender Equity in the Chemical Sciences: A Symposium in Honor of Judith Iriarte-Gross,” who is receiving the ACS Award for Encouraging Women in the Chemical Sciences (with the Women Chemists Committee); and a symposium honoring Saundra McGuire, who is receiving the ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences (with the Division of Chemical Education [CHED]); and “Advancing Undergraduate Research” (with CHED and the Division of Professional Relations). Please consult the final meeting program or app for location and times.

CMA invites you to attend a luncheon on Monday, April 3, featuring Dr. Miyoung Chun, Executive Vice President of Science Programs at The Kavli Foundation, which sponsors two major lectures at each ACS National Meeting. Dr. Chun’s career spans a wide range of experience in academia, industry, and philanthropy. Early in her career, she was Professor of Biochemistry at Boston University School of Medicine. As a scientist and project leader at Millennium Pharmaceuticals Inc. (now The Takeda Oncology Company), her research focused on functional genomics and molecular imaging in drug discovery and development, leading to over 30 U.S. and internationally issued/published patents. In 2004, she moved back to academia as Assistant Dean of Science and Engineering at the University of California, Santa Barbara (UCSB), in particular serving the California Nanosystems Institute. She was also appointed Director of International Research Advancement at UCSB. Dr. Chun joined The Kavli Foundation in 2007 as Vice President of Science Programs and became Executive Vice President of Science Programs in 2013. At The Kavli Foundation, Dr. Chun has spearheaded many scientific initiatives and dynamic large-scale projects, including the development and launch of the BRAIN Initiative. Dr. Chun catalyzed the International Brain Initiative, fostering global coordination of large scale brain projects, which held its dialogue during the UN General Assembly in September 2016. Dr. Chun earned her Ph.D. degree in Molecular Genetics from The Ohio State University in 1990 and was a Postdoctoral Fellow at MIT’s Whitehead Institute studying the cell and molecular biology of receptors. Her personal and professional stories are compelling.

In addition to co-programming, this year CMA is working with the Technical Divisions to diversify the speakers in their symposia. As chair of CMA, I have written to all Technical Division chairs suggesting that they follow the lead of the Division of Organic Chemistry, which has made special efforts to ensure that their symposia are diverse. Perhaps now as never before, it is imperative that ACS Technical Divisions make concerted and sustained efforts to attract diverse speakers. CMA has developed and launched a directory of diverse speakers at <http://www.chemdiversity.org/resources/speakers-directory/>. The committee is also revising a statement on Diversity and Inclusion to reflect the new ACS Strategic Plan.

Madeleine Jacobs, Chair

## H. International Activities

The ACS Joint Board-Council Committee on International Activities (IAC) is dedicated to bringing the volunteer time and talents of its members and associates to help further the Society's constitutional commitment to international engagement: "*The SOCIETY shall cooperate with scientists internationally and shall be concerned with the worldwide application of chemistry to the needs of humanity.*" Article II, Section 3, ACS Constitution. For 2017, IAC envisions opportunities to work in the following areas in support of this provision.

- Activator of networks and relationships to further a global culture of responsible conduct and lab safety.
- Convener and information channeler to help in visioning: Here's what we hear from chemists, chemical engineers and chemistry educators with global interests.
- Catalyst to help with converting communities ACS 'touches' to become prospective, renewing and loyal members, competitive in their global practice.
- Incubator of programs, services and activities within broader chemistry enterprise.
- Initiator of opportunities to bring a global dimension to ACS innovation/entrepreneurship engagement efforts.

### **International Chapters**

1. In December 2016, the ACS Board of Director approved the establishment of ACS International Chemical Sciences Chapters in Iraq, Southwest China, and Greater Beijing.
2. IAC is pleased to report that ACS International Chemical Sciences Chapters in South Korea, Brazil, and Peru have successfully registered their chapters to operate in their home countries.
3. Working with and through ACS International Chapters in Asia and Latin America, as part of the Building Opportunity Out of Science and Technology (BOOST) program, ACS International Activities has conducted in-country, soft-skill workshops for young scientists and engineers in Peru, Brazil, Thailand, Indonesia and Malaysia. We also facilitated subsequent Trainer Leadership Institutes to help a number of competitively selected BOOST participants tailor these courses to local contexts and arrange workshops for young STEM talents following ACS visits. The program sunsets in August 2017, and IA activity until that time will be dedicated to provision of competitive minigrants to BOOST trainees in Peru and Brazil.

### **Education and Outreach Activities.**

1. IAC offers a new competitive program of stopover grants for ACS members with existing planned 2017 international travel for research collaboration and exchange. The support will help cover costs to leverage such trips for stopovers en route to expand member international networks and research interests.
2. At the ACS National Meeting in San Francisco, ACS is welcoming several international VIPs from our sister societies from Europe, Asia, and the Americas.
3. ACS International Activities is also welcoming leadership from IUPAC and the Brazilian Chemical Society, as they continue to promote IUPAC 2017: the 46th World Chemistry Congress Sao Paulo, Brazil, July 9-14, 2017. For more information, please visit <http://www.iupac2017.org/>.
4. Science and Human Rights: Since 1982, ACS has worked internationally on cases where the rights and welfare of professionally engaged chemists, chemical engineers and chemically related practitioners are threatened. These efforts are informed by protections afforded by the Universal Declaration of Human Rights and related conventions, and directed towards human rights, scientific mobility abridgments and issues where ACS is uniquely positioned and qualified to impact cases in

a meaningful way. ACS International Activities offers quarterly webinars on science and human rights and maintains an Alert Network. ACS Science and Human Rights is also featured regularly in the online *ACS International News*. To join the Alert Network and learn more about ACS Science and Human Rights, please visit

<https://www.acs.org/content/acs/en/global/international/science-and-human-rights.html>

5. With support from the Society for Analytical Chemists of Pittsburgh (SACP), the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (Pittcon) and the Wallace H. Coulter Foundation. The 2017 delegation will feature scientists from the South America and Mexico who will PITTCON March 1-5, 2017 in Chicago, IL, and present their research.
6. Working with the Organisation for the Prohibition of Chemical Weapons and PNNL, ACS International Activities convened 22 scientists from countries in Middle East / North Africa for an institute in Rabat, Morocco to develop leadership skills and dissemination strategies for the Global Chemists' stakeholders Code of Ethics (GCCE), developed last year in Kuala Lumpur and guided by The Hague Ethical Guidelines and the Code of Conduct Toolkit. The documents are posted on the ACS website at [www.acs.org/scienceandhumanrights](http://www.acs.org/scienceandhumanrights). Ongoing training institutes are being planned for the regions of East Africa, and Asia Pacific.
7. The ACS International Center (IC) is an ACS-Board approved initiative which facilitates the exchange of resources and opportunities for the globally focused STEM practitioner. The ACS International Center has information on nearly 600 programs across 16 geographic regions (including one for 'global') and six career experience levels. To assist in connecting the ACS community with global providers, the IC currently works with 29 organizations which serve as ACS International Center Affiliates. Affiliates work with the IC to promote their opportunities and resources and participate in the community by organizing webinars or other outreach events. The International Center hosts quarterly webinar series dedicated to providing the STEM community with information relevant to upcoming opportunities and trends in global education. With an average of more than 3,000 unique visitors monthly, the refreshed International Center can be visited at <http://global.acs.org> and is open to all in chemistry and related communities.

### Meetings and Symposia.

IAC invites our ACS Councilor colleagues to attend the following of its contributions to the ACS National Meeting technical program in San Francisco.

1. Blending Chemistry and Culture: Undergraduate Research Abroad (Sun, 4/2, Hotel Nikko, 4:00 p.m.).
2. Teaching, Research and Community Building in the Global Chemistry Enterprise (Mon, 4/3, Hotel Nikko, 9:00 a.m.).
3. Broadening Participation in Global Chemistry Experiences: Why Engaging Diverse Chemistry Communities in Global Research is Critical (Mon, 8/23).

We invite our ACS Councilor colleagues to attend these gatherings as well as the IAC Open Meeting on Saturday, April 1, 1:00 p.m.; Networking Session, Helping Students Find Success in Global Careers and Study, Sunday, April 2, at 4:30 p.m.; and the IAC International Welcoming Reception, Sunday, April 2, at 5:30 p.m. all in the Hilton Union Square.

I. Community Activities  
(joint with Board)

Chemists Celebrate Earth Day (CCED) will be celebrated this April with the theme, “Chemistry Helps Feed the World.” This CCED explores topics pertaining to agriculture and farming. All Local Sections are encouraged to participate through hands-on science events, local illustrated poem contests, and engage the public in a community event. Resources specific to CCED coordinators, including electronic copies of *Celebrating Chemistry*, are located at [www.acs.org/earthday](http://www.acs.org/earthday) (Organize a CCED Event). It is important that Local Sections identify a Member as CCED coordinator.

During the San Francisco National Meeting, CCA will facilitate hands-on activities at the Exploratorium from 12:00 – 4:00 PM on Saturday, April 1st. All are encouraged to visit the Exploratorium and show support for the ACS Presidential Outreach Event.

CCA recognizes 38 individuals from local sections for its 2017 Outreach Volunteers of the Year award program. This recognition effort is in its fifth year and allows local sections to recognize one individual annually who has demonstrated extraordinary outreach volunteerism in their section. Each awardee will receive a certificate, a recognition gift, and will be publicized on acs.org and various ACS publications. If you have an extraordinary outreach volunteer, consider nominating them for an Outreach Volunteers of the Year award.

The theme for NCW 2017 is "Chemistry Rocks!" The theme will focus on distinguishing between rocks, minerals and gemstones. CCA encourages Councilors to ensure that their local section has a member appointed as coordinator for CCED and NCW. You can learn more about ACS outreach activities at [www.acs.org/outreach](http://www.acs.org/outreach)

Last year during the Philadelphia National Meeting, CCA facilitated hands-on activities during the ACS Presidential Outreach Event at the Franklin Institute from 10:00 AM – 2:00 PM on Saturday, August 20th. About 600 school-aged children participated in hands-on activities and viewed chemical demonstrations.

Also last year, National Chemistry Week (NCW) was celebrated October 16-22 with the theme “Solving Mysteries Through Chemistry” More than 80% of Local Sections across the country participated, distributing more than 130,000 copies in English and over 18,000 copies in Spanish of *Celebrating Chemistry*, the hands-on activity publication. The print and e-editions were available in English and Spanish.

Michael McGinnis, Chair

J. 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.

AICHE CWD members attended the AICHE meeting in November and participated in the **Disability Unity Convocation** last year as panelists for a symposium which highlighted the contributions of chemists/chemical engineers with disabilities and the success of enterprises that employ them. A relationship was established between AICHE and the ACS CWD. Christopher Pope of AICHE will visit the CWD committee meeting on Sunday, April 2, 2017, and present a brief overview of the activities held at the Disability Unity Convocation.

Adobe Connect CWD will demonstrate and test Dragon (assistive technology) for use in between national meetings as an effective communication tool for members of CWD that have low vision or are blind and hard of hearing or deaf.

Pronouns Preferences CWD will have a discussion around pronoun preferences for CWD members. This is result of considering the various identifiers for the LGBTQ community that may not identify by a gender title such as Mr., Ms. Miss, etc. This discussion will explore theses identifiers and what inclusivity would look like for any member desiring to join the committee.

ADA book author assignments – Accessibility in the Laboratory. Ellen Sweet of Cornell University is looking for people to be “corresponding authors” for a book project regarding hazardous materials and processes, common in the laboratory environment, especially pertaining to those with a disability. These authors will be responsible for submitting chapter content to the ACS system and act as reviewers and co-editors as well. She will attend the CWD Committee Meeting on Sunday, April 2, 2017, and update the committee on the ADA book project and meet members of CWD who have agreed to be collaborators.

John J. Johnston, Chair



K. 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. CCPA is pleased to report some of the activities undertaken to help make ACS a premier advocacy organization.

***Public Policy Fellowships***

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

Annually, CCPA selects two congressional fellows and one science policy fellow. For the 2016-2017 public policy fellowship term, we are pleased to have two highly qualified congressional fellows: **ACS Congressional Fellow Caitlyn McGuire** is serving in the office of Sen. Durbin (D-IL). Dr. McGuire holds a Ph.D. in analytical chemistry from Indiana University. **ACS Congressional Fellow Christopher Jones** work on energy issues in the personal office of Senator Ron Wyden (D-OR). Dr. Jones holds a PhD in in chemistry from Rice University. In addition, **Christopher Yarosh** joined the ACS Office of the Secretary & General Counsel as the ACS Science Policy Fellow in 2016 and will stay on through 2018. Dr. Yarosh completed his Ph.D. in Biochemistry and Molecular Biophysics from the University of Pennsylvania's Perelman School of Medicine. More information about applying for the fellowships can be found at [www.acs.org/policyfellows](http://www.acs.org/policyfellows).

***ACS Public Policy Statements***

ACS public policy statements define the Society's advocacy agenda and provide recommendations to policymakers at the state and federal levels. In 2017, CCPA is leading efforts to update the ACS S&T funding and business climate policy statements. All ACS policy statements can be found at [www.acs.org/policy](http://www.acs.org/policy).

In 2016, policy recommendations from multiple ACS statements were enacted into legislative language. Despite the difficult political environment on Capitol Hill in 2016, External Affairs & Communications was able to help create bi-partisan agreement on several key ACS policy priorities:

- Passage and enactment of the Frank Lautenberg Act, the first reform and modernization of the Toxic Substances Control Act (TSCA) in 40 years.
- H.R.3537, the Synthetic Drug Control Act of 2015 which would have scheduled over 300 chemical compounds as having no therapeutic or medical use, was replaced with S.3224, the Dangerous Synthetic Drug Control Act of 2016, which places only 22 new chemical compounds on the Schedule I list. After working with ACS staff, S.3224 was introduced in the Senate by Sen. Charles Grassley (R-IA) July, 2016.
- Legislative language boosting federal investment and coordination of sustainable chemistry research was included in S. 3084, American Innovation and Competitiveness Act.
- ACS staff jointly produced a report for Congress on the nation's helium shortage with the American Physical Society and the Materials Research Society. The report outlines legislative recommendations to address the shortage that otherwise hampers scientific research.
- ACS staff and members joined forces with Representatives Jon Moolenaar (R-MI) and Dan Lipinski (D-IL) and the American Chemistry Council and the National Association of Chemical Distributors to launch the Congressional Chemistry Caucus.

External Affairs & Communications staff within the ACS Office of the Secretary & General Counsel tailored unique advocacy campaigns depending on the issue and the circumstances of each bill, mixing ACS member engagement efforts, staff work, and press communications efforts. Throughout the year, Act4Chemistry alerts were sent on each of these topics. Policy engagement is a multifaceted endeavor, requiring effort and input from ACS staff in partnership with ACS members. In this way, the chemistry community plays a key role in the U.S. legislative process. More information on how to get involved can be found at [www.act4chemistry.org](http://www.act4chemistry.org).

Raymond E. Forslund, 2017 Chair  
Susan B. Butts, 2016 Chair

L. Chemical Safety  
(joint with Board)

**CHEMICAL SAFETY PROMINENTLY FEATURED IN THE 2017 ACS STRATEGIC PLAN**

At its December meeting, the ACS Board of Directors took action on several items related to safety. The Board approved a 2017 strategic plan that now includes safety as part of the core values for the Society. In addition, the Board devoted the largest time slot on its agenda to the strategies encompassing safety. The committee, along with the Division on Chemical Safety (DivCHAS), has been leading efforts on strengthening the safety culture and applauds the Board on positioning chemical safety in the ACS Strategic Plan. The committee is looking forward to providing the ACS Board of Directors with support to further address the opportunities and challenges related to elevating the importance of chemical safety into all ACS programs.

**ACS JOURNALS ENACT NEW SAFETY POLICE**

The CCS Communication Subcommittee conducted a study to determine how chemical and procedural hazard and safety information are communicated in core chemistry journals. This study (published in the *Journal of Chemical Health and Safety*) reported that only 8% of over 700 chemistry journals surveyed mentioned safety in their author guidelines. Upon taking a closer look at this data, coupled with high-profile accidents in the academic institutions, ACS Journals initiated a new safety reporting requirement starting in 2017. Authors must “address and emphasize any unexpected, new, and/or significant hazards or risks associated with reported work.” The CCS applauds ACS Publications on this new requirement and offers its support as this new policy is implemented.

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

The committee is developing a workshop to establish connections among various ACS groups involved in chemical safety at the secondary level. The goal of this workshop is to assess the continuing education needs of middle and high school teachers with regard to chemical safety. Participants at this workshop will discuss how the documents and tools currently available can be leveraged to support laboratory activities at the secondary level. These discussions will enable connections among various ACS groups (American Association of Chemistry Teachers, CCS Safety Advisory Panel, DivCHAS, Division of Chemical Education, ACS Education, and ACS Web Strategy) involved with chemical safety and form future strategies of support to secondary educators in this area.

**SAFETY IN ACADEMIC LABORATORIES (SACL)**

CCS publishes a two-volume set of Safety in Academic Chemical Laboratories or SACL. Since the publication of the first edition of SACL, CCS has distributed more than 1 million copies. Published in 2003, the 7th Edition is currently the latest. The committee is currently finalizing an updated 2017 edition. It will include new sections on safety culture, changes in the OSHA Hazard Communication Standard to reflect the use of the Globally Harmonized System (GHS), and additional reorganization. The booklets will be printed in early 2017. The new edition of this publication will be launched during the ACS National Meeting in San Francisco.

**ENGAGING COMMUNITY IN THE CONVERSATIONS ABOUT ACS SAFETY EDUCATION GUIDELINES**

Chemical Safety must be integrated throughout the entire chemistry curriculum where principles of safety are taught over time rather than just during one-time safety trainings. To assist educators with such an approach, CCS has published new *Guidelines for Chemical Laboratory Safety in Secondary Schools* and *Guidelines for Chemical Laboratory Safety in Academic Institutions*. The guidelines also include student learning outcomes statements which clearly state the expected knowledge, skills, attitudes, and competencies in the area of chemical safety that students are expected to acquire as they progress with their

education. The Safety Education Guidelines are organized around the concept of R.A.M.P. – an acronym for the Four Principles of Safety: Recognize the hazard, Assess the risk of the hazard, Minimize the risk of the hazard, and Prepare for emergencies. As of December 31, 2016, almost 5,000 guidelines booklets were distributed to the community. The committee is planning to host a community safety lunch during the 2017 San Francisco national meeting.

**The HAZARD ASSESSMENT WEBSITE**

The Hazard Assessment in Research Laboratories website provides easier access and navigation through the rich information, included in a guide created by the CCS in response to a recommendation by the U.S. Chemical Safety Board (CSB) for ACS to develop such guidance. This new website was created through a partnership of the CCS, ACS Web Strategy and staff from the ACS Education Division. The committee is now engaging in conversations with researchers to encourage them to use of these tools and methods for identifying and assessing risks while performing experimental work. This new resource is now available at [www.acs.org/hazardassessment](http://www.acs.org/hazardassessment).

Elizabeth M. Howson, Chair