

# CANDIDATES' ELECTION STATEMENTS AND BACKGROUNDS

**THREE CANDIDATES** will vie for the office of president-elect of the American Chemical Society for 2014 in this fall's election. They are G. Bryan Balazs, an associate program leader at Lawrence Livermore National Laboratory; Charles E. Kolb Jr., president and chief executive officer of Aerodyne Research; and Diane Grob Schmidt, a section head at Procter & Gamble. The successful candidate will serve as ACS president in 2015 and as a member of the ACS Board of Directors from 2014 to 2016.

Candidates for director of District II are George M. Bodner, a professor of chemistry, education, and engineering at Purdue University, and Alan A. Hazari, director of chemistry labs and a lecturer at the University of Tennessee.

District II consists of members assigned to or residing in local sections with headquarters in Indiana, Kentucky, Michigan (except the Upper Peninsula Section), Ohio, Tennessee, Virginia (except the Hampton Roads Section), and West Virginia; Pennsylvania (except the Central Pennsylvania, Lehigh Valley, and Susquehanna Valley Sections); and those

members with addresses in the states of Indiana (except the counties of Lake and Porter), Kentucky, Ohio, Michigan (except Dickinson County), Tennessee, Virginia, and West Virginia who are not assigned to local sections. The winner will serve on the ACS Board of Directors beginning in 2014 and running through 2016.

District IV will also be holding elections for director. Candidates are Rigoberto Hernandez, a professor at Georgia Institute of Technology, and Larry K. Krannich, executive director of the Alabama Academy of Science.

District IV consists of members assigned to or residing in local sections with headquarters in Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, and Texas (except Panhandle Plains, Permian Basin, South Plains, and Wichita Falls-Duncan Sections), and the Commonwealth of Puerto Rico; and those members with addresses in Georgia (except the counties of Catoosa, Chattooga, Dade, Walker, and Whitfield), Louisiana, North Carolina, and certain counties in Texas who are not assigned to local sections. The win-

ner will serve on the ACS Board of Directors beginning in 2014 and running through 2016.

Four candidates are running for two director-at-large positions. They are Susan B. Butts, an independent consultant at Susan B. Butts Consulting, in Michigan; Thom H. Dunning Jr., director of the Institute for Advanced Computing Applications & Technology at the University of Illinois, Urbana-Champaign; Dorothy J. Phillips, who retired from Waters Corp. this year; and Kathleen M. Schulz, president of Business Results, in New Mexico. The two candidates receiving the highest number of votes will serve a three-year term from 2014 to 2016.

All voting members of ACS will receive ballots enabling them to vote for president-elect. Only members with mailing addresses in Districts II and IV will receive ballots to vote for director from those districts. Only voting councilors and ex officios will receive ballots for the director-at-large elections.

All ballots will be mailed on Oct. 4. The deadline for voting or return of marked ballots, which may be done online or by paper ballot, respectively, is close of business on Nov. 15.

The ACS Committee on Nominations & Elections did not provide candidates with specific questions to frame their statements. Information about ACS policies for elections and campaigning can be found in Bulletin V, Bylaw 5, Section 13 and in "Guidelines for Campaigning & Communication." Candidates' views have also been posted online at [www.acs.org/elections](http://www.acs.org/elections).

## FOR PRESIDENT-ELECT

### G. BRYAN BALAZS

**California Section.** Lawrence Livermore National Laboratory, Livermore, Calif.

**Academic record:** Washington & Lee University, B.S. (chemistry), 1985; ITT/Fulbright Scholar, Germany, 1985–86; California Institute of Technology, Ph.D. (chemistry), 1992

**Honors:** ACS Fellow, 2010; Shirley B. Radding Award, ACS Santa Clara Valley Section, 2009; Walter Petersen Award, ACS California Section, 2004; graduate of Lawrence Livermore National Laboratory Leadership Program, 2005; Department of Energy, Award of Excellence, 2004; W. R. Grace Chemistry Fellowship, 1991; National Science Foundation Fellowship, 1986; Rhodes Scholarship state finalist, 1985; James Lewis Howe Award in Chemistry, 1985; Phi Beta Kappa Sophomore Award, 1983; Stump Prize in German,

1983; Phi Eta Sigma Freshman Honor Society, 1982; Phi Lambda Upsilon

**Professional positions (for past 10 years):** Lawrence Livermore National Laboratory, associate program leader, 2007–, staff chemist, 2000–07

**Service in ACS national offices:** Committee on Committees, 2010–15; Committee on Committees, Subcommittee for ACS Leadership Institute for New Committee Chairs, 2013; Committee on Education Undergraduate Programs Advisory Board, 2013–15; International Chemistry Olympiad (IChO), chair, 2012; IChO International Steering Committee, 2010–13; Pacificchem Organizing Committee, 2006–15; Pacificchem 2015 Young Scholars Program, chair, 2013–15; Committee on Education, 2004–09, chair, 2007–09, consultant, 2010–12, committee associate, 2001–03, Graduate Education Advisory Board, ex officio, 2007–09; ACS Board-Presidential Task Force on Education, 2008–09; Council Policy Committee, (nonvoting),

2007–09; Committee on Economic & Professional Affairs, committee associate, 2006–09; Professional & Member Relations Task Force on Focused Interest Groups, 2008

**Service in ACS offices:** *California Section:* councilor, 1999–2013; alternate councilor, 1993–98; chair, 2011, 1998; chair-elect, 2010, 1997; Board of Trustees, 2005–12; Educational Grants Committee, chair, 1999–2013; Long-Range Planning Committee, chair, 1999; Nomination & Election Committee, chair, 2012, 1999; Awards Committee, chair, 2005; Younger Chemists Committee, chair, 1999–2002; Board of Directors, 2010–14, 1997–99

**Member:** Member ACS since 1987. Phi Beta Kappa; American Association for the Advancement of Science. *ACS Division:* Professional Relations

**Related activities:** ACS career consultant; Davidson Institute for Talent Development, chemistry fellowship application judge, 2010–13; Lawrence Livermore National Laboratory, postdoctoral associate, 1992–94; University of California, Los Angeles, management and project management classes, student; more than 55 journal publications; three patents

## BALAZS' STATEMENT

### It's a great time to be a chemist!

These are exciting times for chemistry, and the resources and global impact of the American Chemical Society will continue to be needed as we navigate the challenges facing the broader chemical enterprise in the 21st century. Astounding scientific advances continue at an accelerating pace, from a deeper understanding of molecular structure and properties, to new synthesis pathways and the ability to manipulate matter and energy at the molecular level, to cures for diseases, to technologies that address global issues. At the same time, fundamental changes are occurring in many areas: communication tools and human interactions, scientific education and the dissemination of knowledge, and how job seekers navigate the modern work environment whether U.S.-based, through entrepreneurship, or in the context of global companies.

As ACS members, we are well poised to address these challenges through our society's journals, information resources, scientific meetings, divisions, local sections, and committees. As ACS president, I would be your ambassador for chemistry and our profession, and these are my priorities:

### Education

Education is at the foundation of everything we strive to achieve through ACS, illustrated through a history rich with advances from institutions in the U.S. and around the world. Education is prominent in our strategic plan, and all of us are educators in the broadest sense, either directly in the classroom or through our efforts to advance scientific understanding. Amid increasing global connectivity and in a context where education touches on everything from immigration policy to improving living standards to innovation, we need to emphasize three areas:

- Greater advocacy for programs to provide earlier exposure to science education, among all groups but especially those for which quality access is lacking
- A repositioning of ACS programs and services to address many of the educational pipeline issues, including the retention of

students in first-year college chemistry, the transfer issues with two-year to four-year colleges, and the postcollege entrance into either the job market or the transition to graduate school

- A clearer definition of our role in an era where digital technologies allow teachers to reach students around the world, starting with an understanding of the forces driving these changes and how we can use them to our advantage

It is important to remember that educated minds will create the new technologies and institutions that provide jobs and careers.

### Careers

An education in science remains a great investment, and employers want the analytical thinking and advanced skills that result from hiring chemistry graduates. However, ongoing changes in the job market have resulted in talented individuals at all degree and career levels unable to find a job in an area that matches their interests and abilities. I believe we can do more to help, and these are the areas I would emphasize:

- Work with potential employers to emphasize that chemistry graduates have

the discipline and analytical skills employers are looking for

- Enable job seekers to identify a broader set of opportunities including "nontraditional employers" while simultaneously providing more tools to address the dynamic nature of the job search environment
- Provide students with better means for identifying potential internships and other in-school employment experiences, and better inform them of the value that employers place on direct work experience

### Public Outreach

Chemists solve problems—it's what we're good at—and we must raise the public's understanding of chemistry's role in addressing the high-impact issues that capture their interest. When the public is engaged and appreciates the value of chemistry for them, we reap the benefit in promoting education and careers for chemists. Here are some specific things we can do:

- Partner with recognized public figures to promote the value of science and educa-

tion; for instance, publicize the chemistry behind the current events that capture the public's attention

- Fully engage more of our "connected" and enthusiastic student members to augment our existing promotion of chemistry by spreading our message through contemporary, digital methods
- Use the size and visibility of ACS to connect the broad range of advocacy groups for science, helping to unite these groups in our common mission

Our professional society has a unique combination of assets exhibited by no other scientific society of this magnitude—the vitality of our local sections, the prestige of our technical divisions and publications, and the impact we have on the scientific enterprise. It's an exciting time for chemists, and I believe my skills and experience are what we need in the office of the ACS president.

For more information, see [www.bryanbalazs.com](http://www.bryanbalazs.com). I would appreciate your vote—together let's lead the ACS into an exciting future!

## CHARLES E. KOLB JR.

**Northeastern Section.** Aerodyne Research Inc., Billerica, Mass.

**Academic record:** Massachusetts Institute of Technology, S.B., 1967; Princeton University, M.S., 1968, Ph.D., 1971

**Honors:** ACS Fellow, 2009; Henry A. Hill Memorial Award, ACS Northeastern Section, 2005; ACS Creative Advances in Environmental Science & Technology Award, 1997; National Academy of Engineering, 2013; National Academies, national associate, 2003; American Association for the Advancement of Science Fellow, 2001; American Geophysical Union Fellow, 2000; American Physical Society Fellow, 1997; Optical Society of America Fellow, 1988; University of Wisconsin, Madison, McElvain Lecturer, 2011; Massachusetts Institute of Technology, Hottel Lecturer, 2003; Texas A&M University, Harris Lecturer, 2001; Arizona State University, Conceptual Foundations of Chemistry Lecturer, 1998

**Professional positions (for past 10 years):** Aerodyne Research Inc., president and CEO, 1985–  
**Service in ACS national offices:** Committee on Environmental Improvement, 2003–12, chair, 2006–08, vice chair, 2005, committee associate, 2001–02; Presidential Task Force on Enhancing Innovation & Competitiveness, 2007–08; Editorial Advisory Board, *Environmental Science & Technology*, 2011–; ACS national award committees; Journal Editor Selection Committee  
**Service in ACS offices:** *Northeastern Section:* trustee, 1994–96, chair, 1991, chair-elect, 1990; Richards Medal Committee, 1998–2006, chair 2005–06; Esselen Award Committee, 2007–11, chair, 2009–10

**Member:** Member of ACS since 1969. American Association for the Advancement of Science; American Physical Society; Optical Society of America; American Geophysical Union; Combustion Institute; Union of Concerned Scientists. *ACS Divisions:* Environmental Chemistry, Physical Chemistry  
**Related activities:** More than 20 National Re-



Balazs

search Council/National Academy of Sciences boards and committees, including the following: Committee on Atmospheric Chemistry, member, 1987–90, chair, 1990–93; Committee on Tropospheric Ozone Formation & Measurement, 1989–91; Committee on Review & Evaluation of the Army Chemical Stockpile Disposal Program, member, 1993–2000, vice chair, 1998–2000; Committee on Research Opportunities & Priorities for the EPA, 1995–97; Board on Atmospheric Sciences & Climate, 1990–93, 1997–2000; Committee on Review & Evaluation of Chemical Events at Army Chemical Disposal Facilities, chair, 2001–02; Committee on Chemical Demilitarization, 2003–10; Committee on Monitoring at Chemical Agent Disposal Facilities, chair, 2004–05; Committee on the Significance of International Transport of Air Pollutants, chair, 2008–09; Board on Chemical Science & Technology, 2008–; Committee on Assessment of Agent Monitoring Strategies for the Blue Grass & Pueblo Chemical Agent Destruction Pilot Plants, chair, 2011–12; Committee on Determining Core Capabilities in Chemical & Biological Defense Research & Development, 2012–13; NASA Panel for Chemical Kinetics & Photochemical Data Evaluation, 1991–; NASA Atmospheric Effects of Aviation Program Steering Committee, 1998–2000; NSF Advisory Committee for Geosciences, 1998–2000; MIT Regional Laser Center, advisory board, 1981–92; University of Massachusetts, Boston, scientific advisory board, 1992–94; Radcliffe Institute for Advanced Study, Harvard University, science advisory committee, 2003–05; Department of Civil & Environmental Engineering, Princeton University, advisory council, 2000–, chair, 2008–; Idaho National Engineering & Environmental Laboratory, Board of Visitors, 1998–2000, Environmental & Energy Sciences Review Committee, 2001–04; Malta Conferences Foundation, Board of Directors, 2011–; Gordon Research Conference on Atmospheric Chemistry, cochair, 1991; *International Journal of Chemical Kinetics*, editorial advisory board, 1990–92; *Geophysical Research Letters*, atmospheric sciences editor, 1996–99; published more than 200 archival journal articles and book chapters; three patents on applications of laser spectroscopy and mass spectrometry for atmospheric monitoring

### KOLB'S STATEMENT

It's a great honor to ask for your support as a candidate for the presidency of the American Chemical Society. Today's ACS is a vibrant and vital organization, successfully serving many of our members' professional needs. It is also a very important source of scientific information and insight for both our profession and, properly presented, our planet's policymakers.

However, we live in a very challenging and rapidly changing world. Venerable institutions can become outmoded and increasingly irrelevant surprisingly quickly. Just think about Bell Labs, Digital Equipment Corp., Eastman Kodak, or America Online.

It is vitally important that we ensure ACS's future relevance and effectiveness. We need an ACS that will serve our current members as they deal with today's scientific and economic challenges. But we also need an ACS that will be prepared to meet the

needs of our youngest members over their (~50 year) professional lives. It must also continue providing a large fraction of the ever-expanding scientific information needed by an increasingly complex world. This can only be achieved by leaders who can envision what a successful ACS will look like 50 years from now and can chart the course and start the journey to achieve that vision.

### My Experience.

Shortly after I became president of the company I lead, it became clear that our "research for hire" business model was not sustainable, despite a very talented and productive staff of scientists and engineers. I devised a new strategy focusing our research on a few critical global issues, including environmental sustainability, energy technology, and military remote sensing, and our development efforts on key technologies required to address them.

A quarter of a century later, we're still executing a continuous improvement version of that plan. Our company is thriving, with our research capabilities and our advanced instrument technologies in high demand. By aligning our scientific capabilities with important problems whose solutions require fundamental insights, we have been able to expand both our skills and our revenues.

### My Vision for ACS.

In my opinion, there are at least three long-term goals we need to meet to help ensure ACS's continued and expanded success:

First, we need a **robust, innovative, and sustainable industrial base.**

ACS must work much harder to host the dialogues and help develop the strategies required for faster evolution of an agile and sustainable chemistry-enabled industrial sector, where ACS members can innovate, produce, and thrive. Newly expanded and less expensive feedstocks and energy sources have revitalized much of the U.S.'s chemical industry, but its long-term vitality will require ever more innovative and sustainable processes and products. Other sectors of the chemical enterprise, like the pharmaceutical industry, need to evolve rapidly to sustain or regain their vitality.

I believe that ACS can and must serve as a

catalyst to bring industrial leaders together to determine how to overcome both the technical and nontechnical barriers blocking more efficient, cost-effective, and environmentally acceptable processes and products.

Second, our members and students need **expanded understanding of chemistry's role in the world.**

ACS needs to continue helping educators at all levels to effectively present the beauty of fundamental chemistry. But we also need to help them convey the critical role chemistry can and must play to sustain and en-

hance our economy, security, health, and environment.

ACS's education-oriented staff and committees have started addressing this challenge; their efforts need to be supported and expanded so the large fraction of ACS members who teach can be engaged and empowered.

Third, we need **members prepared to seize the future.**

Nearly all of the critical challenges facing our world have significant chemical components. ACS must

help our current and future members better understand how their vision and their skills can contribute to a more prosperous and sustainable future. The fact that too many ACS members are unemployed or underemployed, while most global challenges need chemical insight and innovation to be addressed successfully, is a travesty. ACS needs to develop more effective ways to help current and future members orient their interests and capabilities to successfully address critical problems. ACS also needs to motivate both private and public investments to ensure resources exist to fund the science needed for progress.

Let's work together to chart the path and start the journey that can help ensure the long-term vitality and relevance of ACS by pursuing these three goals.

### DIANE GROB SCHMIDT

**Cincinnati Section.** Procter & Gamble Co., Cincinnati, Ohio

**Academic record:** University of Tennessee, Chattanooga, A.B.; University of Tennessee, Knoxville, M.S.; University of Cincinnati, Ph.D., 1981

**Honors:** Henry A. Hill Award, ACS Division of Professional Relations, 2012; ACS Fellow, 2011; Fellow, ACS Chemical Health & Safety Division, 2004; ACS Scholars Program, Certificate of Appreciation,



Kolb

2002–10; Procter & Gamble Outstanding Contributions in the Development & Implementation of R&D IH&S Program, 1996–2002; Procter & Gamble Excellence in Innovation, Emerging Technology Achievement, 1996; Charter Inductee for Red Bank High School, Alumni Hall of Fame, 2000; University of Tennessee, Chattanooga, Distinguished Alumna, 1995; Alpha Delta Pi Sorority, National Award, Outstanding Alumna for Contributions to Profession, 1995; Distinguished Scientist of Cincinnati by Engineers & Scientists of Cincinnati, 1994 (first woman selected for this honor); Sigma Xi (life member); Iota Sigma Pi (life member); Beta Beta Beta; Gamma Sigma Epsilon; Sigma Pi Sigma; Distinguished Dissertation Fellowship; Procter & Gamble Fellowship; USDA Research Fellowship

**Professional positions (for past 10 years):**

Procter & Gamble Company, section head, 1997–; senior scientist, 1992–97

**Service in ACS national offices:** Board of Directors, District II Director, 2002–10; councilor ex officio, 2002–10; Board Executive Committee, 2004–10; Board Committee on Public Affairs & Public Relations, 2004–09, chair, 2004–06; Board Committee on Professional & Member Relations, 2008–09, 2002–05, chair, 2009–10; Committee on Budget & Finance, 2006–14; Board Web Presence Advisory Group, 2005–09; Sustainability Stakeholders Steering Group (S3G), 2009–10, chair, 2009; Board Sustainability Working Group, 2008–09; Board International Strategy Group, cochair, 2007; C&EN task force, 2011; Board International Strategy Implementation Task Force, cochair, 2008; Board Global Presence Working Group, chair, 2010; International Activities Committee, board liaison, 2007–10; Program Review Advisory Group, 2012–14; Board Advisory Group on China, 2005–07; Board Retreat Planning Group, 2010, 2007–08, chair, 2010; Board Steering Team for Strategic Plan Workshop, 2007; Percy Julian Task Force, 2004–07; Board Committee on Planning, 2004–10, special liaison, 2005–06, 2003; Board Goals Task Force, chair, 2005–06; American Chemical Society/American Chemistry Council (ACS/ACC) Collaboration Task Force, chair, 2005; Joint ACS/GCI Board Task Force, 2005–06; Board Contingency Planning Group, 2006; Program Review Task Force, 2005; ACS/AIChE Governance to Governance Task Force, 2003–05; Committee on Science, consultant, 2004–05; Committee on Chemical Safety, 1998–2004, chair, 2001, committee associate, 1995–97, consultant, 2002–06; Board Task Force on Strategic Alliances, 2004; Committee on Economic & Professional Affairs, Career Consultant, 1994–2004; Committee on Science, consultant, 2004–05; Committee on Economic Status, 1991–93, secretary, 1991–93, committee associate, 1988–90; Women Chemists Committee, committee associate, 1989; Board Task Force on Executive Compensation, 2003; Board Presidential Task Force on Division & Local Section Funding, 2002–03, chair, 2002–03; Presidential Task Force on Chemical Hygiene Officer Certification, 1994–97; Board Task Force on Pension Policy, 1990

**Service in ACS offices:** *Division of Professional Relations:* councilor, 2012–14; chair, 1996; chair-elect, 1995. *Division of Chemical Health & Safety:* chair, 2013; chair-elect, 2012; alternate councilor, 2011–13; councilor, 2001–03; Executive Committee, 1997–; member-at-large, 1997–2000. *Cincinnati Section:* alternate councilor, 1992–98; trustee, 1987–91; chair, 1986–87; chair-elect, 1985–86; membership chair, 1983–84; auditor, 1981–84; audit committee, chair, 1983–84; Spring Symposium Committee, 1986–87; Organic Discussion Group, chair, 1983–85. *Regional Meetings:* Central Regional Meeting, Flavors & Fragrances Symposium

cochair, 2004; CMACS Regional Meeting Organizing Committee, 2000, 2007; CMACS Diversity Symposium, cochair, 2000

**Member:** Member of ACS since 1968. Sigma Xi (life member); Iota Sigma Pi (life member); American Association for the Advancement of Science; American Industrial Hygiene Association. *ACS Divisions:* Chemical Health & Safety, Chemistry & the Law, Organic Chemistry, Professional Relations  
**Related activities:** Oak Ridge Associated Universities, Board of Directors, director, 2012–15; *Journal of Chemical Health & Safety*, Board of Editors, 2000–; *Journal of the Society of Cosmetic Chemists*, Editorial Board, 1991–; University of Tennessee, Knoxville, Chemistry Department Industrial Board, 1999–, vice chair, 2010–11, chair of the board, 2012–13; University of Tennessee, Knoxville, College of Arts & Sciences, Dean's Advisory Board, 1996–, vice chair, 2010–12, chair of the board, 2012–14; University of Cincinnati, McMicken College Dean's Alumni Advisory Board, 2006–; Miami Valley Investment Club, president, 1985–86, vice president, 1984; Society of Cosmetic Chemists, Ohio Valley Chapter, chair, 1989, chair-elect, 1988; Iota Sigma Pi-Radium Chapter, president, 1980–81, vice president, 1979–80; Alpha Delta Pi Sorority National Scholarship, chair, 1987–89; Oak Ridge National Laboratory, research associate, 1970–75; holds U.S. patents with accompanying applications and filings internationally; author of scientific publications and technical presentations

## SCHMIDT'S STATEMENT

### BUILDING BRIDGES TO A BRIGHTER FUTURE

Our world today is volatile, uncertain, complex, and ambiguous. The American Chemical Society faces unparalleled challenges that require innovative solutions to establish a thriving Chemical Enterprise with a bright, sustainable future for our members. We have the strengths and competencies to address our challenges as a grassroots, member-oriented professional organization.

To build a thriving, enduring Chemical Enterprise, we must engage our resources to address the global “reset” to new norms. That reset is the sum of changes we all are feeling—

aftereffects of the great recession; unemployment issues; a competitive global workforce and economy; universal, networked communication; racing technological change; public misperceptions of chemistry; and heightened awareness of limited resources.

**In order to realize a sustainable future in these crucial and difficult times, we must marshal our resources to bridge the gaps and solve problems.** We live in

interesting but challenging times. Chemistry is a rewarding profession, but only if you have a job. In the past, our graduates were offered jobs before graduating; now frequently they wait six to nine months or more before finding employment. Even midcareer chemists are concerned about job security and may fear job loss from outsourcing. No wonder our young people show increasing reluctance to select chemistry as their future profession. Further, the public image of chemistry is suffering from media attacks. “Chemicals” is seen as a bad word. Funds for research are being cut.

**What can the ACS president do?** I am a realist. The challenges are going to be with us. They cannot be solved overnight. We can, however, as a member organization seek to turn challenges into opportunities to build a sustainable, thriving future for our members. The ACS president can lead the way to initiate and support actions for solutions. The president working with the grassroots in the local sections and divisions can envision, energize, and engage members. To quote Ralph Waldo Emerson, “Nothing great was ever achieved without enthusiasm.”

There are five focus areas where we must concentrate:

**Employment.** Jobs, jobs, and jobs! This should be our major concern! ACS cannot create jobs but must work to create an atmosphere domestically that encourages growth and the addition of U.S. jobs.

**Education.** Strong leadership, even a transformational role, in the educational system that prepares our future chemists and chemical engineers for getting, keeping, and growing in their jobs.

### Scientific Information.

Providing easy access to trusted scientific information anywhere/anytime is a core member need.

**Advocacy.** Advocating for improved and sustained funding of the Chemical Enterprise is now more critical than ever to reinvigorate America's commitment to science and technology. Ongoing investment is needed to drive sustainable growth.



Schmidt

**Collaboration.** We must continue to expand our strategic interactions with sister societies worldwide to address issues of mutual and global interest. We are all in this together.

**What do I bring?** I have the experience, capability, and commitment to help ACS achieve our shared vision of the future. I offer my candidacy to you as an energized member who is dedicated to leading the society for the benefit of the members. I have been an active leader during my years as an ACS member including nine years on the ACS board, as well as offices at the regional, division, and local section levels. I bring a diverse and balanced background from industry and a national laboratory

along with an open mind to the issues facing our society.

#### My Pledge.

I pledge my time to work with all members in council, divisions, and local sections to hear their concerns and suggestions and to communicate continuously on what needs to be done and on the progress. Most importantly, I offer determination, diligence, commitment, and enthusiasm toward accomplishing these goals. My long, effective involvement in ACS governance at all levels from the local sections to the board of directors can give you this assurance. For more information, please visit my website at [www.dianegschmidt.com](http://www.dianegschmidt.com).

tion to a series of Gallup polls that have been conducted every five years from 1985 through 2010. It is interesting to note that the results of this poll have stayed virtually constant for 25 years! Every time the poll has been taken since 1985, only about 20% of those polled would grade the nation's public schools as A or B. But 50% grade their local schools as A or B, and 75% grade their children's schools as A or B. Isn't it interesting that so many people who have a negative opinion about our K-12 educational system are convinced that the schools their children attend are the exception to this trend?

In spite of all the negative publicity given to our nation's schools, there are good signs for what is now called P-16—preschool through bachelor's degree—education in STEM disciplines. The percentage of high school students taking chemistry, for example, has increased from only 32% in 1982 to 66% in 2005. In recent years, CPT has noted record numbers of bachelor's degrees in chemistry, an all-time high in graduate enrollment, and remarkable progress toward gender equity in graduate programs.

It is also important for us to recognize actions taken by ACS that should help the U.S. educate the next generation. As I have noted (C&EN, Dec. 12, 2011, page 32), ACS was involved in the development of the Next Generation Science Standards, released in January. In recent years, the ACS education office has fostered the creation of high school chemistry clubs. It has also established a network of ACS Science Coaches—chemistry professionals who share their expertise and enthusiasm for science with elementary, middle, and high school teachers. It has also increased efforts to work with the two-year college community, including the creation of a Two-Year College Advi-

sory Board—of which I am a member. Efforts are now under way to strengthen the relationship between ACS and K-12 teachers of chemistry.

In some ways, it is easy to claim we are in the worst of times. Unemployment figures for chemists have reached new highs of about 4%. Those who might focus on jobs lost among chemistry professionals, however, may not be familiar with the content of a recent ACS Webinar. Let's look at several important quotes from that

## FOR DISTRICT II DIRECTOR

### GEORGE M. BODNER

**Purdue Section.** Purdue University, West Lafayette, Ind.

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

**Honors:** James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry, ACS Northeastern Section, 2010; Royal Society of Chemistry Fellow, 2010; ACS Fellow, 2009; Pimentel Award in Chemical Education, ACS, 2003; Nyholm Medal, Royal Society of Chemistry, 2003; Clifford C. Furnas Distinguished Alumni Award, the University at Buffalo, 2003; Transylvania University, distinguished professor, May 1989; Chemical Manufacturers Association Catalyst Award in Chemical Education, 1989; Xi'an Jiaotong University, distinguished professor, November 1985; NASA, predoctoral fellow, 1969–72; NSF, predoctoral fellow, 1968; Sigma Xi; Phi Lambda Upsilon

#### Professional positions (for past 10 years):

Purdue University, Arthur E. Kelly Distinguished Professor of Chemistry, Education & Engineering  
**Service in ACS national offices:** District II, Board of Directors, director, 2011–13; councilor ex officio, 2011–13; Board Committee on Grants & Awards, 2011–13; Board Committee on Public Affairs & Public Relations, 2011–13; Committee on Ethics, 2009–11, committee associate, 2007–08; Committee on Publications, 2000–08, committee associate, 1999; Society Committee on Education, committee associate, 1993; Committee on Divisional Activities, 1987–92, committee associate, 1986

**Service in ACS offices:** *Chemical Education Division:* immediate past-chair, 2013, chair, 2012, chair-elect, 2011. *Purdue Section:* councilor, 1985–2010, chair, 1983, chair-elect, 1982, vice chair, 1981, secretary-treasurer, 1978–81. *Great Lakes Regional Meeting:* chair, 1985; Biennial Conference on Chemical Education, cochair, 1988, treasurer and exhibits chair, 2006

**Member:** Member of ACS since 1969. American Association for the Advancement of Science; Royal Society of Chemistry; National Association for Re-

search in Science Teaching; Association for Science Teacher Education; Phi Lambda Upsilon; Sigma Xi. *ACS Division:* Chemical Education

**Related activities:** *Chemistry Education Research & Practice*, associate editor, 2004–; *Journal of Science Teacher Education*, associate editor, 2006–10; *Journal of Research in Science Teaching*, associate editor, 1993–98; organized and/or chaired more than 25 symposia at ACS meetings; program chair for chemical education for the 201st ACS meeting (Atlanta, 1991), 233rd ACS meeting (Chicago, 2007), and 241st ACS meeting (Anaheim, 2011); published 135 papers and 25 books; presented 485 papers at technical conferences and more than 550 invited lectures, including almost 200 talks at ACS local section meetings

#### BODNER'S STATEMENT

Three years ago, I began my position statement with a quote from Dickens: "It was the best of times, it was the worst of times ..." Little did I know how perceptive this quote would be for my three years on the ACS Board of Directors.

I still believe it is the best of times for ACS. I have worked more closely with ACS staff in the past three years than ever before, and I have been constantly impressed by their exceptional levels of competence and commitment to the society.

Within the context of the Dickens quote, I would like to bring your atten-



Bodner

presentation: First, "The largest predictor of unemployment is level of education." Then, "High school graduates and below have suffered the brunt of the recession." And, "People with bachelor's degrees and higher have been relatively 'insulated' from ... the full effects of the recession." In the "worst of times," it is therefore particularly important to continue to foster higher education.

As Yogi Berra is claimed to have said, "It is difficult to make predictions, especially about the future." Regardless of whether recent jobs lost in the chemical profession are permanent or transitory, ACS both can and will focus its efforts on helping members build successful careers. Recent efforts of this kind include the chemical entrepreneurship initiative, webinars and sessions at ACS meetings to help members understand nontraditional career paths, and the creation of a strong program of professional development materials.

Three years ago, I referred to comments by Joe Francisco about the importance of being competitive in the global marketplace (C&EN, Jan. 4, 2010, page 2). Being competitive, however necessary, is not sufficient to meet global challenges. I am therefore pleased to note that the board of directors has been working with staff in the past few years to understand and then pursue opportunities to increase the society's global presence.

I would like to thank members of District II for having faith in my ability to represent them as a member of the board of directors. I hope to have the opportunity to continue working with the board on the issues the society faces in the next few years.

## ALAN A. HAZARI

**East Tennessee Section.** University of Tennessee, Knoxville

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

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

**Professional positions (for past 10 years):** University of Tennessee, director of chemistry labs and lecturer, 1991–

**Service in ACS national offices:** Committee on Community Activities, committee associate, 2012–14; Committee on Chemical Safety, consultant, 2011, 2001–10, chair, 2005–07, committee associate, 2001; Committee on Local Section Activities, committee associate, 2011; ACS tour speaker, 1998–

**Service in ACS offices:** *East Tennessee Section:* councilor, 2000–14, chair, 1996, chair-elect and program chair, 1995, secretary, 1993–94; Tennessee Government Affairs Committee, 2008–

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

**Related activities:** University of Mississippi, director of chemistry labs, 1976–91; Tougaloo College, chemistry instructor, 1973–76; Croydon Hall Academy, science and math teacher, 1970–71; Shouf College, Lebanon, chemistry instructor, 1968–70

## HAZARI'S STATEMENT

### DIFFICULT TIMES, SERIOUS SOLUTIONS

As an American Chemical Society member, I have served the profession at the local, regional, national, and international levels for the past 42 years. I have seen many noteworthy events in our profession, but we cannot dwell on past successes while we are facing serious problems. College graduates seem to have limited opportunities in today's marketplace. Funding for research has been decreased. The public image of chemistry is eroded by negative headlines. Our role is to be bold and forward-thinking as we work together to find innovative solutions to these issues. As an ACS tour speaker, I have visited local sections in 45 states. On the basis of my interactions with fellow chemists, I would like to highlight a few areas that I believe are of importance to our membership.

**JOBS.** We cannot create jobs, but we must provide the means for finding existing ones. We have to work with and convince legislators to provide incentives for companies to carry out research and development here, instead of abroad. Within ACS, we need to strengthen the career as well as the professional leadership units as they continue helping our membership. Each of us must do his/her part to advocate for workforce preparedness for chemistry professionals.

**ADVOCACY.** We all have the duty to partake in the ACS Legislative Action Network calls and events. The circumstances of our lives are influenced by politicians, but many lack the awareness and the knowledge needed to support issues that affect our daily lives. We should continuously provide the right in-

formation to help legislators make the right decisions. The basic message that we need to share is that ACS and its members are always available to help and support political leaders with information and resources.

**EDUCATION.** We must work with K–12 educators and students and provide them with the means to present an exciting picture in the science, technology, engineering, and mathematics (STEM) fields. Our goal is to prepare an educated public so that through science literacy, professionals and lay folks alike learn to appreciate the importance of STEM in our lives. Educational outreach, including participation by chemistry/science teachers in regional and national ACS meet-

ings, is important. But let us not forget to work through our organization at the local level with Project SEED, High School ChemClub, and Science Coaches programs, just to name a few. These and other programs deeply enrich teachers' content and pedagogical backgrounds and promote students' excitement for learning. Finally, with the formation of the ACS Senior Chemists Committee, we have one more formally established venue for chemists to reach

out and share our experiences and expertise with the next generation of scientists.

**COMMUNITY OUTREACH.** As a part of my professional life, I have contributed to the public's understanding of chemistry by way of personal presentations and media communications. My motto has always been that "Chemistry is for kids ages two to 102 years!" We must all work continuously to show the public at large how lives are made richer by chemical discoveries and products. This is an urgent responsibility for every chemist. I strongly encourage everyone to take advantage of the many ACS outreach efforts and programs.

The district director is the link between the board and the members. I pledge to work with you to bring your thoughts and ideas to the board as we constructively move our profession and society forward by making ACS a more vibrant, a more up-to-date, a more relevant, and a more valuable organization. I would be honored to have your vote.



Hazari

## FOR DISTRICT IV DIRECTOR

### RIGOBERTO HERNANDEZ

**Georgia Section.** Georgia Institute of Technology, Atlanta

**Academic record:** Princeton University, B.S.E., 1989; University of California, Berkeley, Ph.D., 1993

**Honors:** ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences, 2014; Outstanding Service Award, ACS Georgia Section, 2012; ACS Fellow, 2010; American Physical Society Fellow, 2011; Vasser Woolley Faculty Fellow, Georgia Tech, 2011–13; Sackler Visiting Chair in Exact Sciences, Tel Aviv University, 2010; Humboldt Research Fellow, 2006–08; American Association for the Advancement of Science Fellow, 2005; Goizueta Foundation Junior Professor, Georgia Tech, 2002–06; Alfred P. Sloan Fellow, 2000; Sigma Xi Southeast Regional Young Investigator, 2002, 2000; Research Corporation Cottrell Scholar, 1999; Blanchard Assistant Professor of Chemistry, Georgia Tech, 1999–2001; National Science Foundation CAREER Award, 1997; Feinberg Postdoctoral Fellow, 1994; AT&T Cooperative Research Fellowship Program Fellow, 1989–93; National Science Foundation Graduate Fellow, 1989–92; Sigma Xi, member, 1994

**Professional positions (for past 10 years):** Georgia Institute of Technology: professor, 2009–; associate professor, 2002–09; Open Chemistry Collaborative in Diversity Equity (OXIDE), director, 2011–; Center for Computational Molecular Sciences & Technology, codirector, 2000–; assistant professor, 1996–2002

**Service in ACS national offices:** Committee on Science, associate member, 2013; Committee on Committees, 2009–12; Committee on Divisional Activities (DAC), 2004–08; Joint DAC/Local Section Activities Committee Subcommittee, cochair, 2005–07; Board Committee on "Minorities in Academe Implementation Team," 2003–04; Hildebrandt Award Canvassing Committee, 2002–04

**Service in ACS offices:** *Georgia Section:* bylaw councilor, 2012; alternate councilor, 2012–14; councilor, 2003–11; past-chair, 2000; chair, 1999; chair-elect, 1998; Herty Award Committee, chair, 2006–; 75th Herty Medal Celebration, chair, 2009; Herty Medal Undergraduate Research Symposium, founding chair, 2006–10. *Computers in Chemistry Division:* alternate councilor, 2013–15

**Member:** Member of ACS since 1992. American Association for the Advancement of Science; American Physical Society; Biophysical Society. *ACS Divisions:* Computers in Chemistry, Physical Chemistry

**Related activities:** Georgia Tech faculty, Executive Board, 2013–16; Sloan Foundation, Minority NSF-STEM Ph.D. Advisory Committee, 2013–14; NIH MSFB Study Section, 2009–13; Research Corporation Cottrell Scholars Advisory Committee, 2011–16; National Academies Board on Chemical Sciences & Technology, 2007–10; Telluride Science Research Center, Board of Directors, 2007–09; Morehouse College chemistry department, External Review Committee, 2007; Steering Committee for NSF Workshop on Complexity & Emergent Phenomenon, 2007; Steering Committee for NSF Workshop on Excellence Empowered by a Diverse

Workforce, 2007; National Academies Committee on Advanced Chemical Imaging, 2005–06; published more than 65 peer-reviewed articles

### HERNANDEZ' STATEMENT

The American Chemical Society is our fellowship. It provides both physical and virtual meeting places for networking with like-minded chemists. ACS has brilliantly recognized that the meaning of like-minded is both very diverse and evolving. It includes many different flavors of chemistry such as molecule making, measuring, and simulating; it ranges through the fundamental sciences, engineering, and manufacturing. ACS also recognizes that **chemistry has a human side and it must be diverse.** The challenge lies in continuing to adapt our structure to best serve the needs of our fellowship.

I see three areas of which we must be ever mindful:

**The value proposition of ACS membership, Education of the chemical workforce, and Science advocacy.** While these can be viewed through an American

lens, we must also continue to build international sensitivity and perspective. The diversity in age, experience, backgrounds, race, ethnicity, gender, orientation, and abilities that makes our fellowship stronger must be addressed through everything we do. My championing of diversity equity on task forces, on boards, and as the OXIDE director demonstrates my strong commitment to advancing these critical issues within the chemical workforce.

ACS is a place for students, experienced professionals, and everyone in between to find common ground in our commitment to advancing the chemical sciences. This manifests itself physically in our national, regional, and local section meetings, in our journals, and in other products and services. These are all valuable, but only a fraction of membership takes advantage of them at any given time. The reality is that each of us maintains our membership be-

cause we carefully select the ACS offerings that matter to us. The challenge lies in offering a sufficiently wide spectrum of support to our members within a fixed budget. As a board member, I would aim to sharpen these offerings with a judicious balance between physical and virtual services.

Education is not limited to the boundaries of a classroom. Fundamentally, education is about transferring understanding between people. I have routinely taught in college classrooms. But I have also taught the public about the importance of science through public lectures, taught kids in K–12 classrooms about the relevance of science to their everyday world, and mentored countless undergraduate and postgraduate students throughout this country and abroad. Emerging technologies are enhancing the ways that any of us can facilitate such discourse. ACS's challenge lies in adapt-

ing how we enable the exchange of ideas about the chemical sciences in response to how our members wish to educate and be educated. This includes the balance between emerging ways to teach many students simultaneously and efficiently (for example, massive open online courses [MOOCs]) and/or a few students through labor-intensive but effective mentor/apprentice models. As a board member, I will strive to embrace technology in

enhancing the ways that ACS supports educators and in the ways that we educate each other.

People advance the chemical sciences, and the products of those advances affect all of us. That is why our nation's citizens need to support the basic sciences and engineering, and the chemical ones in particular. This is not and should not be a partisan issue because our economy critically depends on the pace at which we advance our understanding of molecules and their assemblies. ACS has a strong program in legislative and government affairs, with which I have been happy to work for more than 10 years. I have visited the offices of both Republican and Democratic members of Congress in support of advancing science. The key to success in those discussions is good preparation (expertly provided by ACS's Office of Legislative &



Hernandez

Government Affairs) and an unwavering focus on the topic during discussion with congressional staffers. If elected, I plan to use my position on the board to catalyze both my and your interactions with our government. I believe that together we can raise the awareness and appreciation of political leaders and their advisers for the transformative power of chemistry to advance our nation.

These three initiatives reflect my priorities for helping our society become a better home for its members and a more effective partner to the world. **The running thread that we must advance through these and other initiatives, however, is you.** ACS programs can be effective only if they serve your needs and advance your goals. I look forward to hearing from you through links at <http://tinyurl.com/hernandez4acs> to learn more about how to make our ACS fellowship even stronger. Your vote would give me the opportunity to work with you and our fellow ACS members to improve your ACS.

## LARRY K. KRANNICH

**Alabama Section.** University of Alabama, Birmingham

**Academic record:** Illinois State University, B.S., 1963; M.S., 1965; University of Florida, Ph.D., 1968

**Honors:** E. Ann Nalley Regional Award for Volunteer Service to the ACS, 2009; Alabama Academy of Science Fellow, 2007; Salute to Excellence, Local Section Activities Committee, ACS, 2001; Omicron Delta Kappa; Phi Kappa Phi

**Professional positions (for past 10 years):**

Alabama Academy of Science, executive director, 2003–; University of Alabama, Birmingham, professor emeritus, 2003–; Center for Community Outreach Development, interim director, 2004, professor and department chair, 1977–2003

**Service in ACS national offices:** Board of Directors, District IV Director, 2011–13; councilor ex officio, 2011–13; Board of Directors, Executive Committee, 2013; Planning Committee, 2013; Society Program Portfolio Management Goals & Metrics Team, chair, 2013; Committee on Grants & Awards, 2011–13, National Awards Logistics & Processes Subcommittee, chair, 2013; Award Review Committee, chair, 2012; Committee on Professional & Member Relations, 2011–13, chair, 2013; Board Operations & Technology Team, 2011–12; Board Working Group on Society Program Portfolio Management, 2012–13; Board Working Group on Web Strategy & Innovation, 2012; Leadership Advisory Board (LAB), cochair, 2009–13; Committee on Committees, 2005–10; Committee on Membership Affairs, 2004–05; Committee on Local Section Activities, 1996–01, committee associate, 1995, consultant, 2002–03; Governance Review Task Force, Action Team on Optimal & Appropriate Divisional Staff Support, chair, 2007; Governance Review Sub-Task Force on Disciplinary Organization, 2006; BOG Leadership Skills Implementation Working Group, chair, 2005–08;

Board Presidential Task Force on Division & Local Section Funding Petition, 2002–03; Task Force on Bylaw Changes for Local Section & Division Support, 2001–02; Task Force on Electronic Mailing Lists, chair, 1996–97; Canvassing Committee, ACS Award in Organometallic Chemistry, 1993–96, chair, 1995–96

**Service in ACS offices:** *Alabama Section:* councilor, 1994–2010; chair, 1982–83; chair-elect, 1981–82. *Southeast Regional Meeting:* secretary-treasurer, 1990–98

**Member:** Member of ACS since 1964. Alabama Academy of Science. *ACS Divisions:* Chemical Education, History of Chemistry

**Related activities:** Alabama Academy of Science, executive director, 2003–, treasurer, 1992–2003; IPC Foundation Board, 2005–10, president, 2010, vice president, 2009; Vestavia Math Team Parents Association, president, 2010, vice president, 2009; University of Alabama, Birmingham, associate professor, 1972–76, assistant professor, 1969–72; Technical Hochschule Wien, visiting professor, 1969; University of Mississippi, assistant professor, 1968–69; published 54 journal articles, a study guide (eight editions) to general chemistry text, and a chapter in an inorganic encyclopedia

### KRANNICH'S STATEMENT

My initial three-year, District IV director term has been a truly gratifying experience of commitment in tackling the challenges that confront ACS. I look forward to the privilege of continuing these contributions, addressing District IV member concerns, maintaining my ongoing communication with all District IV officers, and meeting with more of our members. My board work has confirmed that a director should possess deep experience in the profession, a demonstrated commitment and passion for advancing the society, and leadership skills necessary to handle near-term challenges while setting the long-term vision for ACS. Throughout my 50 years of active ACS membership, I have held significant leadership roles. Currently, I serve as an elected member of the Board Executive Committee, chair of the Professional & Member Relations Committee and a Grants & Awards subcommittee, and have participated on several board subcommittees and working groups ([www.krannichdistrictiv.com](http://www.krannichdistrictiv.com)). I travel extensively to participate in multiple ACS regional meetings, talk with members, judge student poster sessions, recognize award recipients, discuss ACS member value

with student members, solicit opinions, facilitate leadership courses, visit with government and agency leaders, and nurture ongoing society engagement. Additionally, as executive director of the Alabama Academy of Science, I collaboratively work with people in the STEM disciplines promoting science within Alabama and developing initiatives for engaging students in science. I believe I am a great fit for District IV director and desire to continue my work with you and board colleagues as we collaboratively advance key issues in the society, manage our program portfolio, turn challenges into opportunities, and address our members' career and professional development needs.

The society faces numerous significant issues associated with membership value, education, advocacy, scientific information, open access, science and human rights, jobs and careers, globalization, professional advancement, financial sustainability, and unemployment. To address these, you, with the society's leadership, created the robust Strategic Plan 2013 & Beyond, focusing on four core values and engaging visionary leadership. Foremost, we are a member-driven organization. Members are our most important assets. Your involvement is crucial at all levels to raise concerns, propose ideas, develop programs, and work to benefit all members and society. Collectively, we must explore how to best align the

organization with your dynamic strategic plan and collaboratively lead change. I remain active in the Alabama local section and encourage all members to increase their local section involvement. The Strategy Café, which we inaugurated at SERMACS 2012, was an effective venue for member involvement. As your director, I will continue to support expanded division and local section collaborations, facilitate member engagement, and drive creative activities that help the society meet or exceed our strategic goals.

To address our chemistry professionals' employment situation, ACS pursues three different strategic initiatives—support, job creation, and pathways—with creative programs. Ours is a vibrant organization with a robust, diverse, and



Krannich



highly professional volunteer base and extremely dedicated staff. Our leaders within the organization come from this volunteer base. Investing in our volunteers' leadership skills and career and professional development is critical for our and our members' futures (C&EN, Nov. 5, 2012, page 39). I am exceedingly gratified by my role in the leadership development program: I chaired (2005–09) the Leadership Skills Working Group that planned and designed the framework; managed the course development; and piloted and launched our ACS Leadership Development System (2009). I now co-chair the Leadership Advisory Board and serve as a facilitator for five courses. This has provided me a unique venue to meet and work with members from across the country. Our vision is to provide all members with cutting-edge leadership skills development and opportunities to hone newly learned skills in a nonthreatening environment. Our goals and milestones

have been surpassed, and more than 4,000 participants have taken leadership courses. Today your leadership development program is the cutting edge in the not-for-profit sector. We not only create tomorrow's ACS leaders but also impact the many companies, universities, and organizations employing our members. Our preeminent leadership, career, and professional development programs dramatically enhance our members' employment viability and build our career portfolios for career advancement. I will passionately continue my support, oversight, and course facilitator roles.

In summary, I have experience as a productive team member, member-value advocate, and engaged leader within ACS, a major university, and a statewide scientific organization. I am well prepared for continued active board involvement and am recognized as a doer. To continue to serve our society as your District IV director would be an honor and a privilege.

## BUTTS'S STATEMENT

During the 36 years that I have belonged to ACS, I have served the organization in many ways including active membership on the Committee on Corporation Associates, the International Activities Committee, the Committee on Chemistry & Public Affairs, the Development Advisory Board, and President Marinda Li Wu's Task Force "Vision 2025: Helping ACS Members Thrive in the Global Chemistry Enterprise." It would be an honor to now serve the society as a director-at-large. With more than 30 years of experience in the chemical industry as both a researcher and manager at the Dow Chemical Co. and through leadership roles in other professional organizations focused on science, policy, and research, I have demonstrated the knowledge, experience, skills, and energy required to be an effective member of the ACS Board of Directors.

ACS is unique among scientific organizations because it was chartered by the U.S. Congress to encourage the advancement of chemistry; because of the strength and diversity of its membership; because of its global leadership in scientific publishing; and because of its influence in the scientific, educational, and policy communities. The society has clearly articulated its vision, mission, core values, and goals. However, it faces significant challenges in

achieving these aspirations and objectives because of globalization of the chemical enterprise, economic uncertainty, decreasing government funding for research, and declining quality of K–12 science education. In order to carry out the strategic plan, the board of directors must work in concert with the society's committees, divisions, local sections, and staff to establish priorities and make effective use of resources.

This requires sound judgment and a practical understanding of how complex organizations operate. I believe that I will bring those qualities to the board of directors. During my tenure at Dow I had the privilege of managing several groups within the global R&D function. This provided me with hands-on experience in setting strategy, negotiating priorities, and managing financial and personnel

## FOR DIRECTOR-AT-LARGE

### SUSAN B. BUTTS

**Midland Section.** Susan B. Butts Consulting, Midland, Mich.

**Academic record:** University of Michigan, B.S. in Chemistry, with high distinction and highest honors in chemistry, 1975; Northwestern University, M.S., 1977, Ph.D., 1980

**Honors:** American Association for the Advancement of Science Fellow, 2011; Government-University-Industry Research Roundtable, National Academies, appointment to the council, 2009; Alumni Merit Award, Northwestern University, Weinberg College of Arts & Sciences, 2008; Sigma Xi, 1980; Phi Beta Kappa, Mortar Board, Phi Lambda Upsilon, 1975

**Professional positions (for past 10 years):** Independent consultant, 2010–; Council for Chemical Research, president, 2010; Dow Chemical Co., External Science & Technology Programs, senior R&D director, 2006–10; External Technology, R&D director, 2001–06

**Service in ACS national offices:** Committee on Chemistry & Public Affairs, committee associate, 2013; International Activities Committee, 2010–12, committee associate, 2009; Committee on Corporation Associates, 2001–12; Development Advisory Board, 2009–; Presidential Task Force, "Vision 2025: Helping ACS Members Thrive in the Global Chemistry Enterprise," 2012–13

**Member:** Member of ACS since 1977. American Association for the Advancement of Science, Committee on Science, Engineering & Public Policy; Alliance for Science & Technology Research in America, Board of Directors; Sigma Xi;

Association for Women in Science. *ACS Divisions:* Analytical Chemistry, Industrial & Engineering Chemistry

**Related activities:** National Science Foundation, Small Business Innovation Research Advisory Committee, 2010–; Council for Chemical Research, governing board secretary, 2008–09; National Academies, University-Industry Demonstration Partnership, president, 2008, vice president, 2007, Government-University-Industry Research Roundtable, Project on Re-engineering Intellectual Property Agreements, cochair, 2004–06; National Council of University Research Administrators, Board of Directors, 2004, Industry Chair of the Industry-University Conference: Enhancing the Partnership in a Global Economy, 2003; Sigma Xi, Central Michigan Chapter president, 1984; testified before the U.S. House of Representatives Subcommittee on Technology & Innovation on the topic of the Bayh-Dole Act: The Next 25 Years, 2007; employee of the Dow Chemical Co. holding research positions in Central Research and management positions in technical placement, analytical sciences, and external technology, 1979–2010; hold three patents in catalysis; have given more than 40 invited presentations on topics related to innovation, university-industry research partnerships, treatment of intellectual property in research collaborations, and technology transfer



Butts

resources within a large, multinational corporation.

One of the great strengths of ACS is the diversity of its members, who come from academia, industry, and government, working in research, manufacturing, professional services, and education. While we are united by our common interest in chemistry, we are sometimes divided by differing perspectives and priorities. One of the strengths that I can bring to the board of directors is extensive experience in helping groups with conflicting views to find common ground for cooperation. For more than 10 years I have worked proactively to overcome barriers and foster research collaborations across industry, academia, and government. I was one of the founders of the University-Industry Demonstration Partnership, an organization within the National Academies dedicated to enhancing the value of collaborative partnerships between the academic and industrial sectors. I was also a leader in the Council for Chemical Research, whose mission is to improve chemical innovation through collaboration and advocacy across discipline, institution, and sector boundaries. I served as Dow's representative, a member of the board of directors, and finally as president.

ACS plays an important role in informing members of government about issues relating to chemistry and the chemical enterprise and in influencing public policy through advocacy. This can have a positive and tangible impact on ACS members by influencing federal funding for research, laws relating to chemical management and the environment, and government programs to promote science education and careers. I have a strong interest in public policy, and I am an active advocate for research and education. I have chaired the policy subcommittees for both ACS Corporation Associates and the Committee on Chemistry & Public Affairs. I have testified before the House Subcommittee on Technology & Innovation on the Bayh-Dole Act, the legislation that enables universities to license inventions stemming from federally funded research. I have also addressed the President's Council of Advisors on Science & Technology on the importance of university-industry research partnerships in fostering innovation.

Because of my own experiences as a woman in science I have made a personal commitment to increasing diversity and broadening participation within our profession. I have participated in numerous proj-

ects to support the advancement of women and underrepresented minorities in the chemical workforce. I have also worked to raise funding for the ACS Scholars Program so that deserving undergraduate students can pursue their interests in chemistry.

I greatly appreciate the personal and professional benefits that I have realized from my membership in ACS, and I would be honored to give back to the organization by serving on the board of directors.

## THOM H. DUNNING JR.

**East Central Illinois Section.** University of Illinois, Urbana-Champaign

**Academic record:** Missouri University of Science & Technology (formerly the University of Missouri, Rolla), B.S., 1965; California Institute of Technology, Ph.D., 1970

**Honors:** ACS Fellow, 2011; ACS National Award for Computers in Chemical & Pharmaceutical Research, 2011; Professional Degree in Chemistry, Missouri University of Science & Technology, 2005; Department of Energy Distinguished Associate Award, 2001; Award for Excellence in Technology Transfer, Federal Laboratory Consortium for Technology Transfer, 2000; E. O. Lawrence Award in Chemistry, 1997; American Physical Society Fellow, 1992; American Association for the Advancement of Science Fellow, 1992; National Science Foundation, predoctoral fellowship, 1966–69; Woodrow Wilson Foundation, predoctoral fellowship, 1965–66

**Professional positions (for past 10 years):** University of Illinois, Urbana-Champaign, Institute for Advanced Computing Applications & Technology, director, 2007–; National Center for Supercomputing Applications, director, 2004–; Distinguished Chair for Research Excellence, Department of Chemistry, professor, 2004–; University of Tennessee, Department of Chemistry, distinguished professor, 2002–04; Oak Ridge National Laboratory, distinguished scientist, 2002–04; University of Tennessee & Oak Ridge National Laboratory, Joint Institute for Computational Sciences, director, 2002–04

**Service in ACS offices:** *Physical Chemistry Division:* councilor, 1998–2000.

**Member:** Member of ACS since 1979. American Physical Society; American Association for the Advancement of Science. *ACS Divisions:* Computers in Chemistry, Physical Chemistry

**Related activities:** Member of advisory committees for: Argonne National Laboratory, Brookhaven National Laboratory, Los Alamos National Laboratory, Oak Ridge National Laboratory, and Pacific Northwest National Laboratory, 2007–; "Chemical Computations on General Purpose Graphics Processing Units," 240th ACS national meeting, 2010; NSF Task Force on Software & on Scientific Grand Challenges & Communities, member, 2009–11; Computational Chemistry in the 21st Century: Methods & Applications, International Conference for Computational Science,

cochair, 2003; American Physical Society, *Journal of Chemical Physics*, editorial board, 1998–2001; American Physical Society, Division of Chemical Physics, secretary-treasurer, 1998–2001; Workshop on Impact of Advances in Computing & Communication on Chemical Science & Technology, Chemical Sciences Roundtable, 1998; Workshop on Assessing the Value of Research in Chemical Science & Technology, Chemical Sciences Roundtable, chair, 1997; Council on Chemical Sciences, Office of Science, U.S. Department of Energy, member, 1996–99; National Research Council, Chemical Sciences Round Table, vice chair, 1996–99; Workshop on High Performance Computing in Chemistry, National Institutes of Health, cochair, 1993; Theory & Simulation in Chemistry: The Impact of Mini Supercomputers & Supercomputers, 193rd ACS national meeting, cochair, 1987

## DUNNING'S STATEMENT

Like many previous candidates I am not fond of campaign statements. However, I understand that it is important for ACS members to know what issues I consider

important. First, let me state that I believe the American Chemical Society has a major role to play in our nation's future. Our lives are profoundly affected by chemistry, whether it is the creation of materials for solar-energy conversion or the remediation of unwanted compounds in the environment. To ensure the future, we must have a citizenry that has a basic understanding of chemical principles, a cadre of basic and applied chemists who will continue

to discover and innovate, and a government that will provide the investments needed to achieve these goals. ACS has a major responsibility in all of these areas.

**Education.** While there is considerable, and legitimate, concern over the loss of student interest in math, science, engineering, and technology and the impact that this loss has on the technical workforce in the U.S., we must not lose sight of the fact that our nation will only prosper if its citizens as a whole have the knowledge needed to make wise decisions. Thus, our educational efforts must be sufficiently broad to interest as many students as possible in chemistry. Although this is a daunting goal, with chemistry often considered a difficult and demanding subject, ACS should engage the creativity of its members to develop ways of explaining chemical



Dunning

principles that will engage a broad group of students and citizens.

**Research.** Chemical research is the foundation for progress in a large number of areas, from biological science to chemical and materials science. The aircraft and automobile industries need new lightweight materials to increase fuel efficiency, new batteries are needed to make more efficient use of electrical power, a better understanding of environmental chemistry is needed to deal with current insults and prevent future insults, and the list goes on and on. However, all of this rests on a secure foundation of chemical knowledge. So, we must invest in the elucidation of the basic principles that underlie chemical phenomena. A carefully balanced portfolio of investment in basic and applied research in chemistry is needed, and ACS should articulate the importance of both of these investments.

**Communication.** As a society we have adopted an unfortunate vocabulary—a chemical is something that is unnatural and unwanted. However, the natural world is composed of chemicals, and the role that they play is essential to all of us. ACS should be a spokesman for the importance and value of chemistry and chemical research—to the general public as well as to our government, local, state, and federal representatives. It should seek to change the tone of the conversation by elucidating the vital role that chemistry and chemicals play in all of our lives.

**Service.** A major role of ACS is to serve its members. It does this in many ways, from sponsoring scientific meetings to holding career fairs. However, it is possible to do more—we need to help young chemists achieve their career aspirations, we need to draw more women and underrepresented minorities into chemistry, and we also need to help midcareer members who have been displaced in the marketplace. ACS should examine the effectiveness of its current efforts and develop new efforts that will accomplish these goals.

To achieve the above goals in Education, Research, Communication, and Service is a tall order; we must approach these issues carefully, noting what has worked and what has not. However, ACS members are enormously talented and dedicated, and I am confident that, working together, we can achieve these goals.

## DOROTHY J. PHILLIPS

**Northeastern Section.** (Retired) Waters Corp., Milford, Mass.

**Academic record:** Vanderbilt University, B.A., 1967; University of Cincinnati, Ph.D., 1974

**Honors:** ACS Fellow, 2010; Shirley B. Radding Award, ACS Santa Clara Valley Section, 2008; ACS Northeastern Section Henry A. Hill Award, 2006; Salute to Excellence Award, ACS Nashville Section, 2004; Distinguished Chemist Award, New England Institute of Chemists, 2011; Waters Leadership Award for Outstanding Contributions to Waters and Waters' Community, 2008; Dr. Dorothy Wingfield Phillips Award for Leadership, Vanderbilt University, 2007; Unsung Heroine Award, Vanderbilt University, 2006; honored by TTT Mentor Program of Cambridge, Mass., "Minority Role Model in Science, Mathematics, Technology & Engineering" 2004; Distinguished Alumni, University of Cincinnati, McMicken College of Arts & Sciences, 1994, Center for Women Studies, 1993; Waters' Manager Award for Innovation, 1987–88

**Professional positions (for past 10 years):** Retired. Waters Corp., 1984–2013, strategic marketing director (global position that included gathering market intelligence for decision management and developing collaborations for new business development), 2006–13, clinical marketing director, 2004–06, new business development director, 2003–04, strategic program management director, 2000–02

**Service in ACS national offices:** Council Policy Committee, 2008–13, Nominations Subcommittee, chair, 2012–13; Committee on Committees, 2001–06, secretary, 2003–04; Industrial Pipeline Subcommittee, chair, 2005–06; Committee on Divisional Activities, 2007–08; Committee on International Activities, committee associate, 1998; Committee on Membership Affairs, 1997–2000, committee associate, 1996; Undergraduate Programs Advisory Board, 2013–15; Presidential Task Force, "Vision 2025: Helping ACS Members Thrive in the Global Chemistry Enterprise," 2012–13

**Service in ACS offices:** *Northeastern Section:* councilor, 1995–2015; chair, 1993; chair-elect and program chair, 1992; Project SEED, committee chair, 1994–95; Nominating Committee, chair, 1994; Centennial Celebration, cochair, 1998; Fundraising Committee, chair, 2004–08; Awards Committee, chair, 2009–13; trustee, 2014–16. *Analytical Chemistry Division:* chair, 2009–10; program chair, 2008–09, chair-elect, 2007–08, immediate past-chair, 2010–11, Fundraising Committee, chair, 2012–13

**Member:** Member of ACS since 1973. American Society of Mass Spectrometry; American Association of Pharmaceutical Scientists (AAPS); National Organization for the Professional Advancement of Black Chemists & Chemical Engineers; Sigma Xi; Alpha Kappa Alpha Sorority, Inc. *ACS Divisions:* Agrochemicals, Analytical Chemistry, Biological Chemistry, Business Development & Management

**Related activities:** Spearheaded Waters sponsorship of the Division of Analytical Chemistry

Distinguished Service Award, the Frank H. Field & Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry, the ACS Award in Separation Science & Technology, and the ACS Sci-Mind Program; member of AAPS delegation to China, 2004; keynote or invited speaker at the 15th International Conference of the Indian Society of Chemists & Biologists, Rajkot, India, 2011, the International Conference on Chemistry for Mankind, Innovative Ideas in Life Sciences, Nagpur, India, 2011, the 3rd Annual PepCon Conference, Beijing, China, 2010, the 6th Annual Congress of International Drug Discovery Science & Technology, Beijing, China, 2008; more than 70 publications and presentations focused on separation sciences (liquid chromatography); contributed a chapter in book on active learning in analytical chemistry, 2007

### PHILLIPS' STATEMENT

After recently retiring from a successful 40-year industrial career, I have decided to make the American Chemical Society

a priority. I am committed to using my expertise and skills to assist ACS in achieving its strategies and visions. My decision to place my focus on the society was confirmed by being a member of President Marinda Li Wu's task force, "Vision 2025: Helping ACS Members Thrive in the Global Chemistry Enterprise." In addition, I have been a Northeastern Section councilor since 1995 and active in governance and divisions during

the past 18 years. During two terms on the Council Policy Committee I worked closely with ACS officers in the presidential succession roles as well as with the CEO and secretary of the society. Thus, I gained insight in ACS operations and long-term goals.

I accepted the invitation to be a candidate for director-at-large on the ACS board because this position would allow me to effectively use my expertise and skills to make strong contributions to the society.

What are some of the programs and goals of ACS through which I can work as a board member? The task forces of both the immediate past and the incumbent presidents raise issues or make recommendations through which I am confident that as a member of the board I can make an impact. I would like to address two of those issues, global chemistry enterprise and chemical safety.



Phillips

## Global Chemistry Enterprise

During ACS national meetings in 2012 and 2013 I heard the input of stakeholders on the seven-recommendation outcome of President Wu's Vision 2025 task force (C&EN, June 3, page 39). Initially, the job loss from companies moving their businesses outside the U.S. was a huge concern. However, we are now advocating for ACS members to consider short- or long-term international positions due partially to the high level of unemployment for scientists in the U.S. ACS has launched new programs to facilitate international positions; yet, there is more work to be done. My 16 years' experience in collaboration and business development in Europe and Asia gives me the expertise to work with the board. My interest includes facilitating our undergraduate and graduate students to search globally for internships, research, and career positions. My experience leads me to stress addressing business etiquette and communication skills in order for our members to take full advantage of these positions. As a member of the board I would work with governance to develop ACS training workshops and seminars to be held at national and/or regional meetings; multimedia and online courses are also options to meet this objective.

## Chemical Safety

If elected as director-at-large I would support ACS becoming a stronger advocate for chemical safety. Understanding and practicing chemical safety was mandatory at all job levels when I worked at Dow Chemical Co. Later, at Waters Corp., I worked with the safety committee to implement many of these same practices and rules. Recently, chemical safety was brought to our attention by Immediate Past-President Bassam Z. Shkhashiri's task force report and by accidents that resulted in deaths. No student or scientist should die due to a chemical accident. The late Sen. Frank Lautenberg (D-N.J.) was known as a "safety champion" (C&EN, June 10, page 6) because he fought for legislation aimed at ensuring the safety of chemicals and the chemical industry. As a member of the ACS board I will work with you to develop ACS policies that address safety issues for current and emerging technologies. We must continue the work of Sen. Lautenberg and Shkhashiri's task

force to raise ACS status to a champion for chemical safety.

My decision to commit to ACS is also personal. Since I grew up in the segregated South, my achievements have been greater than expected. Yet my teachers helped me to exceed my potential. Through the grace of God and the support of others I was the first African-American woman to receive a B.A. degree from Vanderbilt University School of Arts & Sciences and a Ph.D. from the University of Cincinnati in chemistry. Through my service in ACS I will continue to reach out to help others exceed their expected potentials in chemistry and related disciplines.

In summary, I am prepared and committed to be a strong contributor on the ACS board. I have extensive leadership experience as a corporate director and within ACS governance and divisions. Please vote for me to be one of your directors-at-large on the ACS board.

Please visit my website at <http://www.dorothyphillips.net>. I welcome your ideas and questions.

## KATHLEEN M. SCHULZ

**Central New Mexico Section.** Business Results, Inc., Albuquerque, N.M.

**Academic record:** Eastern New Mexico University, B.S. summa cum laude, 1964; University of Missouri, Ph.D., 1973

**Honors:** ACS Fellow, 2009; ACS Office of Public Outreach Appreciation Award, 1996; ACS Analytical Division Summer Fellowship/Carle Instruments, 1970; Sandia President's Quality Award, Advanced Sales Training Program, 2005; American Marketing Association Marketer of the Year Award of Achievement for New Mexico, Government Category, 2000; Sandia/Lockheed Martin Employee Recognition Award-Robotic Industry Association Trade Show Team, 2000; Professionalism Award, Midwest Research Institute Council of Principal Scientists, 1989; Pioneer in Laboratory Robotics Award, International Symposium on Laboratory Robotics, 1988; Outstanding Young Women in America, 1974; Gulf Oil Fellowship, University of Missouri, 1971-72; National Defense Education Act Graduate Fellowship, University of Missouri, 1968-71

**Professional positions (for past 10 years):** Business Results Inc., president, 2009-; Lockheed Martin/Sandia National Laboratories, systems engineer/performance improvement consultant, 2005-08; business development manager/technology marketing consultant, 2000-05

**Service in ACS national offices:** Board of Directors, director-at-large, 2011-13; coun-

cilor ex officio, 2011-13; Committee on Grants & Awards, 2011-13; Committee on Public Affairs & Public Relations, 2011-13, chair, 2012-13; Council Policy Committee, (voting), 2008-10, (nonvoting), 1999-2001; Committee on Nominations & Elections, 2002-07; Committee on Committees, 1996-98; Committee on Local Section Activities, 1999-2001, chair, 1999-2001; Committee on Public Relations, 1992-98, chair, 1997-98, Committee Associate, 1992-93; Board of Trustees, Group Insurance Plans for ACS Members, 1999-2007; ACS Leadership Advisory Board, member, 2009-; Advisory Board for Industry Relations, 1999-2001; Presidential Task Force on Climate Science, 2011-13; Presidential Task Force on Innovation in the Chemical Enterprise, 2010; Presidential Working Group on Leadership Development, 2002-03, chair, 2002-03; Presidential Task Force on Bylaw Changes for Division & Local Section Support, 2001; Presidential Task Force on Leadership Development, 2000-01; Presidential Task Force on Society Support to Local Sections & Divisions, 2000; Board of Directors Task Force on Technical Programming, 1998; ConC Task Force on Governance, 2003; ConC Task Force on Committee Effectiveness, 2002-03; ConC Future Directions Task Force, 1998; ConC Industry Pipeline Task Force, chair, 1997-98; Board Oversight Group on Leadership Development, 2004-05, cochair, 2004-05

**Service in ACS offices:** Bylaw councilor, 2010. *Division of Business Development & Management:* councilor, 2004-09; *Membership Committee,* chair, 2003-08. *Division of Industrial & Engineering Chemistry:* councilor, 1994-2002, alternate councilor, 1988-93, past-chair, 1990, chair, 1989, chair-elect, 1988; Program Committee, 1990-96, program secretary, 1990-94. Automation Program, chair, 1990-96; Executive Committee, member-at-large, 1986-88. *California Section:* Executive Committee, 1974-77. *Fresno Subsection:* chair, 1976-77, chair-elect, 1975, secretary-treasurer, 1979, 1974

**Member:** Member of ACS since 1965. American Society for Training & Development. ACS *Division:* Industrial & Engineering Chemistry (I&EC)

**Related activities:** ACS Leadership Development System, workshop facilitator (Extraordinary Leader, Developing Communications Strategies, Engaging Colleagues in Dialogue, Strategic Planning Course & Retreats), 2009-; National Science Foundation Technician Education Project, Southeast Community College, Lincoln, Neb., Advisory Board, member, 1995-97; Pilot Public Relations Training for ACS Technical Divisions, codeveloper, 1996; Practical Pollution Prevention Subdivision of I&EC, founder and chair,

1993-95; Separations Science & Technology Subdivision of I&EC, secretary, 1985-87; ACS *symposia coorganizer and chair:* "Automation: Key to Productivity in the '90s," 1995; "Diversity in the Chemical Workforce of the 21st Century" (Corporation Associates), 1993; "Microencapsulation Processes & Applications," 1989; "Robotics in the Industrial Laboratory," 1987. ACS local section tour speaker, 1987-90, 2010. *Additional training and certifications (2003-13):* Principles & Practices of Organization Development, Teachers College, Columbia University; Guiding Organizational Change, Sundance Consulting; Leading Organizational Transition, Wil-



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liam Bridges & Associates; Effective Facilitation, Leadership Strategies, Inc.; Flawless Consulting, Designed Learning Inc. *Other Professional Positions:* Lockheed Martin/Sandia National Laboratories, business development manager/technology marketing consultant, 1997–2000, Energy & Environment, program area manager, 1993–97; Hewlett-Packard, Automated Chemical Systems business development manager-North America, 1992–93, Gas Chromatography New Business Group, product marketing manager, 1990–92; supercritical fluid chromatography product manager, 1989–90; Midwest Research Institute, bioorganic chemistry department director, 1985–90; Analytical Systems Development section head, 1984–85, principal investigator, 1980–84; Rockwell Hanford Operations, analytical program technical manager, 1977–78, separations and automation development manager, 1978–79; California State University, Fresno, associate professor, 1979–80, assistant professor, 1973–77; University of Missouri, Kansas City, mentor, 1985–89; University of Missouri, Columbia, Department of Chemistry, Advisory Board, ca. 1985; Society for the Advancement of Management, KC Metro Chapter Organizing Committee cochair, 1984–86; Dimensions Unlimited Professional Networking Group, Board of Directors, 1983–85; Dimensions II Executive Women's Networking Group, presiding officer, 1984–85; National Science Foundation Workshop awardee/director, "Women in Science Careers," 1977; California State University, Fresno, Premed Advisory Committee, 1975–77, chair, 1977; School of Natural Sciences Research Committee, chair, 1977; Central San Joaquin Valley Science Fair, judge, 1974–77; more than 60 national-level oral technical presentations, seminars, and workshops delivered in person, via live TV, or via videoconference

## SCHULZ'S STATEMENT

### STRONG SOCIETY—CHALLENGES STILL AHEAD

These are interesting times. When I asked for your vote three years ago, we faced challenges to serve chemical professionals, then and in the future, and we still do.

#### What did I do?

- On the Presidential Task Force on Innovation in the Chemical Enterprise, I promoted programs that help members compete for jobs and create more opportunity through entrepreneurship—increasing ACS support for chemical entrepreneurs, creating the ACS Entrepreneurial Training Program and ACS Entrepreneurial Resources Center. Starting in 2014, a national award will recognize successful chemical entrepreneurs, using criteria developed by a board group I chaired.
- I led a team at the board's Financial Planning Conference and worked on a board group to create an improved way to man-

age the society's portfolio of programs, ensuring future financial strength by making hard decisions on allocation of ACS resources.

- I worked for strong support for local sections and divisions. My work resulted in Climate Science Challenge awards of \$30,000 to 12 groups this year, with a second competition this fall. I have enjoyed staying current on local section and division needs by interacting with members at regional meetings, local section events, national meeting caucuses, and strategic planning retreats.
- I led the board's legislative advocacy and public relations activities as chair of its Committee on Public Affairs & Public Relations (PA&PR)—setting ACS policy priorities, developing public policy statements, promoting increased ACS grassroots legislative advocacy activities and communication with the public. Notable results this year: Sparkle PR training expanded to divisions; Peer Review Policy Statement to counter threats to the National Science Foundation peer review process.

Additional information on my activities is at [www.sandiaspring.com/kms4dal](http://www.sandiaspring.com/kms4dal).

#### What are the challenges?

Our challenges are ongoing and similar to those of three years ago: unemployment, globalization, public image, funding and support for chemistry, and more.

Keeping ACS strong in the face of these and future challenges will require the following:

- Strong Local Sections and Divisions. I know firsthand that local sections and divisions are the lifeblood of ACS because I have worked in both for more than 30 years. As a board member, I have advocated and will consistently advocate for the support required to keep these grassroots units healthy.
- Enhanced Member Services. We must provide services that meet members' evolving needs—for example, networking, career services, training, and access to chemical information. We must continue to innovate, emphasizing affordability and easy access to services that help members increase their skills, stay scientifically current, document their accomplishments, identify and pursue job opportunities, and do in-person and online networking.

National recognition of members' accomplishments is key to career success. On the ACS Board Committee on Grants & Awards, I currently chair a new group to recommend actions to ensure fairness of access and opportunity for all qualified members to ACS national awards.

- Positive Public Image of Chemistry. Our future as a society, as a nation, and as chemical professionals depends on how well the public and legislators understand chemistry's benefits. Their understanding affects funding for R&D and STEM education, laws that impact chemical businesses, jobs, and more.

ACS must provide resources to help non-scientists understand the importance of chemistry to their daily lives, health, and well-being. We must equip and support members in delivering positive chemistry messages in their communities and to legislators—local through federal.

I will continue to champion programs that improve the public's understanding and image of chemistry, especially programs that increase the effectiveness of our 164,000 members as messengers.

#### Qualifications

I offer you

- Board experience—three years
- Deep understanding of how ACS works—from 40 years of active volunteering at all levels
- Understanding of diverse member needs—from a long career spanning all sectors of the chemical enterprise
- Commitment—proven through 40 years as an active ACS volunteer. Today, my commitment is even stronger than when I joined ACS nearly 50 years ago!

I pledge to continue what I've started on the board, contributing all my energy, enthusiasm, and experience to keep ACS strong, building on the firm foundation we have established. I pledge to willingly dedicate the necessary time, be open and transparent, work hard, and partner with all of you.

I offer you my commitment as a proven ACS volunteer and would be honored to receive one of your two votes. Together we can help build a bright future for our society and our profession!

For additional information on my qualifications and activities, see [www.sandiaspring.com/kms4dal](http://www.sandiaspring.com/kms4dal). ■