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ANNUAL REPORT 2014

## OFFICERS' MESSAGE

### A Year Of Change And Growth

2014—it was a year of solid achievement for the American Chemical Society (ACS). ACS members, governance, and staff, often working with other organizations, fulfilled the vision and mission of ACS. The 2014 ACS Annual Report highlights many of these accomplishments and diverse initiatives that serve our members and the broader scientific enterprise worldwide. You can see the [2014 Highlights of ACS Achievements](#).

ACS President Tom Barton focused on four areas during his presidential year: education, energy, environment, and improving the public image of chemistry. He was an advocate for the progress and growth of the chemistry enterprise. Barton sponsored Presidential Symposia highlighting these topics during the ACS national meetings in Dallas and San Francisco.

It was a year that saw the ACS solidify itself as the most authoritative, comprehensive, and indispensable provider of chemistry-related information. [ACS Publications](#) published more than 41,000 articles across its portfolio of 44 peer-reviewed journals.

ACS journals continued their preeminence in citations and Impact Factors while continuing to develop new and enhanced content and delivery systems. ACS journals are available worldwide in online and mobile formats, as well as in print. The 2013 Journal Citation Reports® were released by Thomson Reuters in June 2014. ACS journals continued to perform extremely well, receiving more than 2.4 million total annual citations and ranking #1 in citations in each of the seven core chemistry categories.

The ACS Publications division also launched an ambitious open access publishing strategy. The program debuted on New Years' Day with the selection of the first ACS Editors' Choice article. Each day, a new noteworthy ACS Editors' Choice article from one of our peer-reviewed publications was made openly accessible. Articles from every journal were featured during 2014, drawing more than 600,000 page views.



**Tom Barton**  
President



**William F. Carroll, Jr.**  
Chair,  
Board of Directors



**Madeleine Jacobs**  
Executive Director  
& CEO

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Chemical & Engineering News (C&EN) – the Society's flagship news periodical covering the global chemistry enterprise and related sciences -- made important changes to both its editorial and advertising sales operations in 2014. In December, C&EN welcomed Bibiana Campos-Seijo as the magazine's new Editor-in-Chief. Campos-Seijo previously served as Editor and Publisher of *Chemistry World* in the UK.

In September, the magazine sponsored its inaugural "virtual symposium." This one-day symposium, produced in partnership with BioConference Live, focused on "Advances in Drug Discovery & Development." It featured 20 leading scientist speakers, and attracted more than 7,300 individual registrations.

In addition, C&EN recently established an agreement with *Scientific American*, whereby that popular science magazine now regularly features a selection of C&EN stories within the Chemistry section of its website.

The Society's Chemical Abstracts Service (CAS) remains the world's authority for chemical information and related solutions and the CAS REGISTRY<sup>SM</sup> is the world's largest collection of chemical substance information.

Consistent with past performance, CAS databases experienced robust growth, with more than 1.5 million patents, journal articles and other disclosed research sources added, for a new total of more than 40 million records available in the CAplus<sup>SM</sup> database. Updated daily, CAS added more than 1.4 million new single-step reactions to CASREACT®, with more than 77 million single- and multi-step reactions, plus synthetic preparations now available to researchers.

Because of the work of the more than 1,000 scientists around the world who assemble, curate, and assure the quality of the CAS databases, researchers can efficiently and reliably explore the largest collection of disclosed chemical synthesis information from 1840 to the present.

Our two national meetings – in Dallas and San Francisco -- attracted a combined total of more than 22,000 papers and 30,000 participants. ACS also held five regional meetings in 2014, drawing more than 3,000 papers and a combined attendance of nearly 5,000.

In early 2014, the Society also launched ACS Career Navigator. This new integrated program seamlessly combines the offerings of ACS Career Services, Professional Education, Leadership Development, and Market Intelligence to more effectively meet the professional needs of members and potential members at all of their varied career stages.



## OFFICERS' MESSAGE

In an effort to help local sections and student chapters host events and easily create local networking opportunities, the Society introduced ACS Program-in-a-Box. Using this innovative approach, speakers are made available to ACS groups via YouTube and GoToMeeting and the sections and chapters arrange events around those virtual presentations. When groups sign up to participate they also receive a box of related promotional materials, handouts and prizes to share with their members at the event. In 2014 more than 200 student chapters and local sections participated (including 11 international sites), and attracted more than 4,000 members or potential members. ACS Program-in-a-Box received a financial sponsorship from Procter & Gamble, and will partner with the ACS Younger Chemists Committee to produce two events in 2015.

In 2014, as part of its continuing commitment to education, ACS launched the [American Association of Chemistry Teachers \(AACT\)](#), the first organization of its kind in the U.S. It provides K-12 teachers of chemistry with a professional home and access to specialized resources and the broader ACS community. The creation of AACT is an important milestone in ACS's ongoing work to expand the Society's support for K-12 chemistry teachers, who prepare the chemists—and ACS members—of tomorrow.

Of course, in order to support these and other efforts, ACS must be a financially sustainable organization. With that in mind, we are pleased to announce that for the 11th consecutive year, ACS ended the year with a positive net contribution from operations. You can review the Society's [financial statements here](#).

One last note -- in 2014 Madeleine Jacobs, ACS Executive Director & Chief Executive Officer, announced to the ACS Board of Directors that she would retire in February 2015. After 24 years of stellar service to ACS and the chemistry enterprise, Jacobs will leave ACS with many honors and accomplishments—and friends throughout the world! The Board, after an extensive search, selected Dr. Thomas M. Connelly, Jr. as the next ACS Executive Director & Chief Executive Officer. Dr. Connelly, most recently Executive Vice President and Chief Innovation Officer for DuPont, will join ACS in mid-February 2015.

As we look forward to 2015, ACS will remain true to its vision and mission. ACS will continue to be a catalyst for possibility and progress. And above all, ACS will remain the focal point for chemical professionals around the world to meet, share information, and find tools and guidance that enable them to become stronger and more marketable scientists.

# PROGRAM HIGHLIGHTS

## International Engagement And Presence

The ACS Division of Membership & Scientific Advancement (M&SA) continues its international engagement and presence by promoting and implementing events via its Office of International Activities (OIA). OIA sponsored several events in 2014 to help ACS advance the chemical sciences and ACS Member International Networks. It also helped develop international chapters and alliances and address science and human rights issues, and it collaborated on international community outreach events. Some highlights from 2014 include:

- Organized the 2nd International Workshop on Sustainability and Water Quality in Delhi, India, on January 15-18 in cooperation with colleagues and experts from the University of Delhi and a variety of governmental and private organizations.
- Collaborated with the Brazilian Chemical Society on Ciência sem Fronteiras, a program that provides scholarships for Brazilian students to study and research abroad at some of the world's most prestigious universities. With funding from the Brazilian Research Council, the Next Generation of Ambassadors of Chemistry Symposium provided 15 students the opportunity to develop skills in scientific productivity and leadership through specialized training and workshops. Each student delivered an oral presentation highlighting their research and findings at the ACS National Meeting in San Francisco.
- Coordinated efforts with the Singapore National Institute of Chemistry (SNIC) for the Global Innovation Imperative (Gii) conference in Singapore held December 3-5. This forum brought together experts on water treatment to discuss best practices and will produce a white paper on the topic.
- Coordinated efforts for an International Science Networking Event held July 20 at the ACS headquarters. It showcased ACS' role as a leader in international scientific collaboration. Participants from the U.S. Department of State, National Science Foundation (NSF), scientific organizations, government relations, and from the Embassies had the opportunity to initiate discussions to assist the US Department of State and its PEGASCIS initiative (Platform for Enhancing Global Academic Strategic Collaboration in Science).
- With funding from the NSF as part of the International Research Experience for Undergraduates (IREU) program, coordinated the selection and placement of 17 US students in the UK, Germany, Italy and Singapore.

# PROGRAM HIGHLIGHTS

- Coordinated the formal submission and Board approval of two International Chemical Sciences Chapters for South Korea and Malaysia.
- With assistance from the Chinese Chemical Society (CCS) and Peking University, ACS organized a Chemistry Festival in Beijing. The event was held in conjunction with the 29th CCS Congress. Thirty volunteers from Peking University and the ACS International Chapters in Shanghai and Hong Kong provided training for over 1,000 participants with a variety of hands-on activities. Volunteers from Shanghai and Hong Kong were trained in Beijing and then took the festival back to their communities.
- Supporting ACS Festival de Quimica programs in Beijing, Shanghai, Lima and Puerto Rico. These festivals of chemistry are community outreach events designed for the public, especially for children, to promote the public's understanding of the importance of chemistry in their local communities. With the efforts of hundreds of volunteers, ACS conveys this message using simple chemistry demonstrations.
- Sponsoring a hybrid presentation from the Organisation for the Prohibition of Chemical Weapons (OPCW). The event, held in conjunction with the Washington DC Science and Technology Diplomat Club was attended by science and technology attaches of several local embassies (Russia, France, Italy, and Mexico). Attendees also included members of the ACS International Center™ affiliate community, such as the Inter-American Foundation and the Japan Science and Technology Agency. The event was the first-ever hybrid event – broadcast to a live online audience -- to be held at the American Chemical Society headquarters. In addition, OIA organized, promoted, and executed four international webinars on topics related to science and human rights. The office was awarded a grant from the U.S. State Department to engage the Middle East and North Africa, Asian Pacific, and Eurasian chemistry communities to formulate a statement of ethical practice.

To expand ACS presence and engagement of members and prospective members in India, the M&SA Global Strategic Initiatives team developed a three-year plan and will also work with other ACS Divisions (principally CAS and ACS Publications) to promote corporate/institutional offerings to further enhance ACS globally.

# PROGRAM HIGHLIGHTS

## ACS Publications - Journals

Living up to their reputation as “most trusted, most cited, and most-read,” ACS Publications developed new and enhanced content and delivery options. At the same time, its 44 peer-reviewed journals solidified their preeminence in citations and Impact Factors.

According to 2013 Journal Citation Reports®, which were released by Thomson Reuters in June 2014, ACS journals continued to perform extremely well. They received more than 2.4 million total annual citations and ranked #1 in citations in each of the seven core chemistry categories.

The Publications Division completed the successful first full calendar year of publication of *ACS Photonics* and *Environmental Science & Technology Letters*.

Six leading scientists were selected by Editor Search committees for editorial terms commencing with the 2015 publishing year.

- Dr. Paul Chirik (Princeton University) - *Organometallics*
- Dr. Sharon Hammes-Schiffer (University of Illinois at Urbana-Champaign) - *Chemical Reviews*
- Dr. Thomas F. Hofmann (Technical University of Munich) - *Journal of Agricultural and Food Chemistry*
- Dr. Kai Rossen (Sanofi) - *Organic Process Research & Development*
- Dr. David L. Sedlak (University of California, Berkeley) - *Environmental Science & Technology* and *Environmental Science & Technology Letters*
- Dr. Françoise M. Winnik (Université de Montréal) - *Langmuir*

In addition, three inaugural Editors were appointed to lead the Society’s newest journals, following recommendations of the Editor Search committees and approval by the Board of Directors.

- Dr. Courtney Aldrich (University of Minnesota) - *ACS Infectious Diseases*
- Dr. Caroline Bertozzi (University of California, Berkeley) - *ACS Central Science*
- Dr. David L. Kaplan (Tufts University) - *ACS Biomaterials Science & Engineering*

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ACS Publications received two prestigious PROSE Awards from the Association of American Publishers' Professional and Scholarly Publishing Division: *ACS Synthetic Biology* was recognized with the AAP PROSE Award for Best New Journal and *ACS ChemWorx* received the PROSE Award for Best New App or e-product. The annual PROSE Awards celebrate the best in professional and scholarly publishing, including books, journals, and electronic content in over 40 categories, judged by peer publishers, librarians, and medical professionals.

In January 2014, ACS Publications launched an ambitious 4-pillar open access (link: [www.acsopenaccess.org](http://www.acsopenaccess.org)) publishing strategy to position ACS as an open access publisher:

- **ACS Central Science**

A highly selective peer-reviewed journal covering the broad spectrum of the chemical sciences, free to readers and authors.

- **ACS Editors' Choice**

Free public access to new research of importance to the global community is accessible at [pubs.acs.org/editorschoice](http://pubs.acs.org/editorschoice).

- **ACS Author Rewards**

Corresponding authors receive credits for each article published in 2014, which they can use to fund any ACS open-access option through 2017.

- **ACS AuthorChoice**

Allows authors to facilitate open access for a one-time fee with discounts for ACS members and researchers at subscribing institutions.

The program debuted on New Years' Day with the selection of the first *ACS Editors' Choice* article. Each day, a noteworthy article from an ACS journal—selected by the journals' editors—is made openly accessible; articles from every journal were featured during 2014, drawing more than 600,000 page views.

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## PROGRAM HIGHLIGHTS

With *ACS Author Rewards*, digital certificates are being provided to the more than 40,000 ACS authors of record in 2014, as a stimulus program to facilitate the transition to Open Access. As part of this effort, staff developed *ACS ChemWorx* apps to track rewards and to purchase open access options. Prior to the end of December, more than 25,000 authors of record were contacted to provide them their rewards, eligible for redemption 2015-2017. This year also saw a doubling in the number of authors opting to publish using expanded options available under the *ACS AuthorChoice* license, to meet the open access requirements of their funders.

In preparation for the 2015 launch of the ACS's first fully open access journal, *ACS Central Science*, acclaimed chemical biologist Dr. Carolyn Bertozzi (HHMI/UC Berkeley) was appointed as Editor-in-Chief. Dr. Bertozzi is a champion for open access, and also aspires to build a top-tier multidisciplinary journal that will challenge the elite science journals. Dr. Bertozzi has recruited a global editorial board of nearly 60 renowned scientists. The journal submission site opened in early December, with dozens of manuscripts submitted in the first month.

In August 2014, ACS Publications released an improved version of *ACS ChemWorx* (v2.0), a collaborative reference manager coupled with timesaving tools and valuable services for authors. It helps researchers access their library from anywhere, share references and files with collaborators, and track metrics for their ACS articles. The *ACS ChemWorx* user base has grown to more than 66,000 unique users.

New and improved tools and services for authors also were introduced. These services allow ACS to provide authors with more relevant information about open access options and requirements available to them and help to uniquely distinguish journal contributors. An English editing service was deployed within the *ACS ChemWorx* environment which provides a fee-based mechanism for authors to improve the English in manuscripts they submit to ACS journals.

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# PROGRAM HIGHLIGHTS

## ACS Publications – C&EN

C&EN made important changes to both its editorial and advertising sales operations in 2014. In December, C&EN welcomed Dr. Bibiana Campos-Seijo as the magazine's new [Editor-in-Chief](#). Dr. Campos-Seijo previously served as Editor and Publisher of *Chemistry World*, the magazine of the Royal Society of Chemistry. She brings a wealth of editorial experience, and a reputation for innovation in digital publishing.

C&EN held its first inaugural “virtual symposium” — produced in partnership with BioConference Live. The one-day symposium on “Advances in Drug Discovery & Development” featured 20 leading scientist speakers, attracted more than 7,300 individual registrations, and garnered financial support from eight key advertising sponsors.

As the year progressed, C&EN editors and marketing staff won several prestigious national awards. Business writer Lisa Jarvis was one of only two finalists in the National Academies Communication Awards, while Assistant Managing Editor Cheryl Hogue won a first-place award from the Society of Environmental Journalists.

In the 2014 Folio Magazine Awards, the C&EN Media Group won all four categories in which it entered, including [best video](#) (“Scientific Cocktail Toppers”), [best media kit](#), [best marketing web site](#) (“Marketing Elements”), and best online community for the [Chemistry in Pictures](#) Tumblr blog.

The C&EN design team experimented with presenting content in interactive graphics online. These included sortable tables, animations, and timelines. In addition, they introduced new cover and article layouts and designs. Examples of this are the Global Top 50 database, the 2014 Chemistry Year in Review and August's Year of Crystallography issue. The latter two issues also included a specially-designed microsite.

In response to the strategic editorial audit carried out earlier in 2014, C&EN sought to deliver more of the science content readers demanded. The magazine now strives to produce shorter stories and more playful (where appropriate) story treatments and editorial angles. Editorial staff also incorporated social media planning into C&EN processes as well as content with other forms of reader engagement such as interactive quizzes, etc. Some of these new editorial features include:

## PROGRAM HIGHLIGHTS

- Speaking of Chemistry – a video series successfully launched by the Office of Public Affairs and *C&EN* staff.
- Patent Picks – a monthly collaboration with CAS that reports on trends CAS scientists observe from the patents in their databases.
- From the Scenes – a collection of stories based on ACS Publishing journals content.
- Chemistry In Pictures – a Tumblr created to highlight great photos of chemistry in action.

The *C&EN* Webinar program held a total of 64 webinars in 2014. During this time period the program has taken on new clients, tackled new webinar formats, and moved email marketing to our marketing automation software, Eloqua, all while continuing to generate leads for sponsors. Additional 2014 webinar highlights include:

- Working with new clients: Horizon, Starlims, Metrohm, Bio-Rad, EMD Millipore, Perkin Elmer
- Responsive, mobile friendly redesign of the registration page template and redesign of the email invitations and reminders
- Introduction of new webinar formats: slide share, translations
- Delivering new media to clients: Promo clips, webinar series

# PROGRAM HIGHLIGHTS

## Chemical Abstracts Service (CAS)

### **CAS — Powering innovative solutions dedicated to advancing the scientific enterprise**

Chemical Abstracts Service (CAS), a division of the American Chemical Society, is the world's authority for chemical information and related solutions. Dedicated to the ACS vision of improving people's lives through the transforming power of chemistry, the CAS team of highly trained scientists finds, collects and organizes all publicly disclosed substance information, creating the world's most valuable collection of content that is vital to innovation worldwide.

Researchers and patent professionals around the world rely on [SciFinder®](#) and [STN®](#) from CAS for solutions that advance the scientific enterprise by enabling discovery and facilitating workflows.

In 2014, CAS established the foundation and built the infrastructure to transform the organization from a publisher to a solutions provider. In addition to providing the largest and highest quality content, CAS is now able to deliver innovative, new solutions for intellectual property and science professionals. CAS ended the year with a rich portfolio of new products ready for the market in early 2015.

Consistent with past performance, CAS databases experienced robust growth, with more than 1.5 million patents, journal articles and other disclosed research sources added, for a new total of more than 40 million records available in the CAplus<sup>SM</sup> database.

Updated daily, CAS added more than 1.4 million new single-step reactions to CASREACT®, with more than 77 million single- and multi-step reactions, plus synthetic preparations now available to researchers. More than 50,000 Markush diagrams were also added to the MARPAT® structure database last year from nearly 21,000 patents. Because of the work of the more than 1,000 scientists around the world who assemble, curate, and assure the quality of the CAS databases, researchers can efficiently and reliably explore the largest collection of disclosed chemical synthesis information from 1840 to the present.

The CAS REGISTRY<sup>SM</sup> is the largest and most authoritative collection of chemical substance information available to researchers. In addition to covering substances from journals and patents, CAS REGISTRY includes substances from chemical catalogs, worldwide governmental regulatory agencies and reputable web resources. CAS REGISTRY added more than 13 million new substances in 2014. By year-end, it contained more than 91 million substances.

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CAS REGISTRY also provides access to more than 65 million sequences. In addition to the 1.3 million experimental spectra already available in the CAS REGISTRY, the collection was enhanced with nearly 100,000 new carbon, proton and heteroatom NMR spectra to provide even more access to highly valuable property data. The continual growth and updating of organic and inorganic substances in the CAS REGISTRY database is reported with the REGISTRY counter on the [CAS web site home page](#).

CAS covers 63 worldwide patent authorities to ensure comprehensive patent information within its databases, including multiple basics coverage from all covered authorities. Supplementing the disclosed chemistry added to CAS databases from document analysis, CAS also enhanced the search and display options for CHEMCATS®, the CAS chemical catalogs database, to help researchers more quickly locate the chemicals they need with direct access to hundreds of commercial chemical suppliers.

### **SciFinder provides the most relevant information solutions for scientists**

Organizations around the globe rely on SciFinder for research discovery with access to comprehensive scientific information using an array of powerful tools that drive more confident research decisions. The world's leading commercial, academic and government organizations recognize the value of ensuring unlimited access to SciFinder for their entire research teams spanning disciplines including chemistry, pharmaceutical, agrochemical, biotechnology research, and more.

CAS and PerkinElmer collaborated to provide a new research solution, pairing SciFinder, the choice for chemistry research™, with ChemDraw® software, the drawing tool of choice for chemists. This collaboration allows users to draw a structure using the ChemBioDraw Ultra 14 offering and then initiate a SciFinder session to search the structure. Researchers can now save considerable time when using both products. In addition, planned enhancements to the non-Java based structure editor in SciFinder were completed, and a new table view for Commercial Sources provided easier and faster access to the data users rely on to order research supplies.

SciFinder Future Leaders in Chemistry celebrated its fifth year in 2014, with 18 students participating from around the world selected from nearly 400 applicants. This program provides students and post doctorates with the exclusive opportunity to share their research experience with CAS scientists and each other, and to take part in the Fall ACS National Meeting. To date, the program has hosted more than 85 students and post doctorates from 50 countries.

# PROGRAM HIGHLIGHTS

## **STN delivers unique content, unparalleled search power and precision, and proven reliability for intellectual property professionals**

In 2014, STN celebrated its 30th anniversary. As the premier single source for the world's disclosed scientific and technical research, intellectual property professionals and patent examiners at the world's major patent offices and research organizations rely on STN to answer business critical questions and make informed decisions. Only STN integrates authoritative chemistry and patent content from CAS and other reputable sources along with the flexibility to search as broadly or narrowly as needed.

STN has partnered with professional searchers for more than 30 years to provide high quality search results and dedicated service. The STN 30th anniversary celebration this year provided an opportunity to reflect on the growth of STN over the past three decades and a chance to give thanks to all those who have made that success possible.

While celebrating the past, we continue building STN for the future. Ongoing development of new STN in 2014 provided new content and features as well as interface refinements based on user feedback. Major STN content enhancements this year included the launch of DEFULL (German full-text patents in English), the addition of Chinese dissertation content to Cplus, new CHEMCATS fields and expanded Digital Objective Identifier (DOI) availability.

STN Global Value Pricing was also launched in 2014, empowering users to maximize the value STN offers to their entire organizations by offering unlimited use of all STN content and features at a fixed price. Global Value Pricing reflects customer feedback and market trends by simplifying administration and letting users focus on searching rather than costs.

## **Researchers around the world rely on CAS**

CAS continued to invest in providing authoritative and innovative solutions dedicated to advancing the scientific enterprise. Resources were added around the globe (e.g., Canada, Russia, Ukraine, South Korea, etc.) through ACS International, Ltd. (ACSI) to enhance customer service and support. Further, establishment of the ACSI representative office in China, as well as the new subsidiary, ACS International India, Pvt. Ltd., helps CAS better support our rapidly growing customer base. CAS made significant investments in its content and technology infrastructure to allow for efficient development of new solutions that will even more effectively serve researchers well into the future.

## PROGRAM HIGHLIGHTS

### Careers & Professional Advancement

The Division of Membership and Scientific Advancement (M&SA) continues to offer innovative solutions to better serve ACS members. In early 2014, M&SA launched ACS Career Navigator to provide members and other chemistry-related professionals with a one-stop-shop of key resources to help them succeed in the global chemistry enterprise at all stages of their careers. ACS Career Navigator seamlessly combines the offerings of ACS Career Services (Career Fairs, Career Consulting, Career Pathway Workshops), Professional Education (Short and Online Courses), Leadership Development (Facilitated and Online Courses), and Market Intelligence (Employment Dashboard, Salary Calculator) into a single, unified experience for ACS members and potential members.

This unified brand touches every ACS member. It is responsible for training governance leaders, assisting and facilitating employment searches, improving technical and managerial skills, informing on job trends, and connecting and mentoring. The Navigator brand's central theme of "Your Competitive Advantage in a Global Workforce" speaks to the value that this product mix provides ACS members. Specifically, ACS Career Navigator seeks to:

- Enhance the professional skills and career knowledge of chemical scientists and engineers by providing a seamless product portfolio responsive to their needs,
- Develop a diverse and coordinated portfolio of products, programs and services containing something for members and potential members at all career stages,
- Serve the employment and advancement needs of members in a coordinated and seamless manner, and
- Craft a member benefit with tremendous value important to constituents.

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In 2014, the ACS Career Navigator program held two onsite national career fairs at the ACS national meetings and two linked virtual career fairs. Together, these fairs provided about 3,000 individuals the opportunity to speak to 89 employers about 237 possible jobs. An additional 2,300 members received a personalized career consulting experience either online or onsite during the year. Some 3,000 individuals attended an ACS career pathway workshop at 84 separate sessions provided at national meetings, regional meetings, and universities worldwide. More than 70 technical and managerial training courses, ranging in length from four to 54 hours, were offered both online and in-person at nine U.S. locations providing over 550 chemical scientists and engineers essential knowledge to help them advance in their careers. During 2014, there were more than 10,000 substantial engagements that the ACS Career Navigator provided in service of the career development needs and aspirations of individuals worldwide.

More than 870 participants enrolled in 55 LEADERSHIP DEVELOPMENT SYSTEM® (ACS LDS) courses in 2014. This represents a per course average of approximately 16 learners, besting the number from last year. In addition to providing leadership skills training for individuals, the ACS LDS conducted six Strategic Planning Retreats for ACS subunit groups.

About 350 volunteers, governance leaders and staff participated in the 2014 ACS Leadership Institute in Dallas. The Leadership Institute's local section track included the "Share Your Story" exercise and a ChemLuminary Poster Session. Both events received high marks by participants. Eighteen winning posters represented the work of local sections and divisions. The Share Your Story exercise received an evaluation of 84 percent rating it as either Very Good or Excellent.

# PROGRAM HIGHLIGHTS

## Promoting Education

Teaching and learning chemistry in the context of our world is a hallmark of the resources, services and products produced by the American Chemical Society. Students and educators know that the ACS is synonymous with quality. ACS continues to be a leader in science education. Every day, we strive to inspire students to seek knowledge and careers in science and prepare them for the realities of the global marketplace.

In 2014, we reached out to thousands of eager, young elementary and secondary school students in new and innovative ways. We provided a new generation of undergraduate and graduate students with opportunities to learn skills they will need to compete and succeed as they move forward with their careers.

The [American Association of Chemistry Teachers \(AACT\)](#) launched. It is the first national, chemistry-specific association of its kind dedicated to K–12 teachers. The AACT website debuted with 120 high school, 18 middle school, and 13 elementary school resources in 15 categories; 22 pieces of original multimedia; hundreds of auxiliary files; and information on upcoming events. The Dow Chemical Company, the association's Sole Founding Partner, provided a gift of \$1 million to expand AACT teacher resources. [A joint press release](#) was issued by Dow and ACS and picked up by numerous news outlets.

The ACS High School Chemistry Club Program, established in 2005 with 15 clubs, now has more than 535 clubs including 24 international clubs.

A new kids website, Adventures in Chemistry, launched in May 2014. The [website](#) is designed to capture the interests and imagination of pre-K and elementary school children with videos, experiments and games.

The [ACS Science Coaches program](#) encourages chemists to assist teachers on an on-going basis throughout the school year. In 2014, 200 chemist-teacher partnerships in 43 states, Puerto Rico and the District of Columbia were accepted into the ACS Science Coaches program.

The number of undergraduate student chapters has grown to 1,075, with more than 19,800 members.

*ACS Graduate & Postdoctoral Chemist*, the Society's e-magazine for graduate students and postdoctoral scholars, reached 21,000 subscribers. It was also released as an Apple and Android app this year.

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The new College to Career website aimed at helping undergraduates explore chemistry-related career options reached over 116,000 unique visitors. The site included 40 career descriptions, 100 individual career profiles, and advice and guidance on how to achieve career goals.

The Society of Chemical Industry (SCI) America International Group, the American Chemical Society, and the American Institute of Chemical Engineers continue to collaborate in offering the SCI Scholars summer industrial internship program, which introduces chemistry and chemical engineering undergraduate students to careers in the chemical industry. The program hosted 30 internships in summer 2014. Every SCI scholar selects a high school chemistry teacher to receive recognition and a \$1,000 award.

The [ACS Scholars Program](#) continues to help underrepresented minority students achieve their dreams of degrees and careers in a broad range of chemical sciences. In all, nearly 2,679 African-American, Hispanic/Latino, and Native American students have participated in the program since 1995. Of those, more than 1,500 have earned bachelor's degrees in a chemical science. More than 200 of these ACS Scholars have gone on to earn doctoral degrees in chemistry, chemical engineering, or a related discipline.

The [Project SEED program](#) places students in academic, government, or industrial research laboratories for eight to ten weeks during the summer to engage in hands-on science research projects under the supervision of volunteer scientists.

In 2014, 468 volunteer scientists and coordinators mentored 423 students, in nearly 140 institutions in 37 states, the District of Columbia, and Puerto Rico. For the 2014–2015 school year, the Project SEED Scholarship Subcommittee awarded 28 Project SEED College Scholarships, totaling \$140,000, to former SEED students for their freshman year.

## PROGRAM HIGHLIGHTS

### Communicating The Value Of Our Science

ACS continues to be a leader in communicating with policymakers and the public about chemistry's central role in solving global challenges.

In 2014, news about chemistry from ACS journals, *Chemical & Engineering News* and national meetings reached the public in record numbers. Independent monitoring data for 2014 shows that ACS-generated publicity resulted in more than 31,000 news media articles, a significant increase from 2013, resulting in potential readership or viewership of billions. These stories appeared in media outlets such as *ABC News*, *BBC News*, *CBS News*, *Fox News*, *Huffington Post*, *National Public Radio*, *NBC News*, *The New York Times*, *The Washington Post* and *Yahoo! News*. Science Communications staff generated this news coverage by issuing press releases (including the weekly ACS PressPac), holding press conferences and using social media.

The award-winning ACS Productions team produced more than 350 videos in 2014. These videos were viewed or downloaded more than 10 million times last year. They include popular *YouTube* series such as *Reactions*, broadcast-quality promotional videos for ACS Publications and collaborations with sister scientific societies, including the American Institute of Physics' *Inside Science* TV series.

[Reactions](#) was launched in late January and is the ACS' most popular ongoing video series. It explores chemistry's role in everyday life. More than 50 episodes have been produced on topics such as the chemistry of alchemy, chocolate, and hangovers. These episodes received more than 8 million views. The series, which is now the most popular YouTube channel ever launched by an organization (scientific or otherwise), has been featured on *NPR*, in *Wired*, *Time*, and *The Washington Post*.

In its fifth year, [ACS Chemistry Ambassadors initiative](#) has attracted more than 10,000 volunteers. These ambassadors do many things to promote better understanding of chemistry and its role in our everyday lives. These efforts include giving ACS scholarship information to teachers and guidance counselors; talking to elected officials about why funding for research matters; visiting schools and scouts with ACS Kids and Chemistry kits; and having a great answer ready for the inevitable "So what kind of work do you do?" question at family reunions, backyard barbeques, and in countless plane trips all around the globe.

In 2014, the program supported Chemistry Champions, an innovative national pilot contest designed to engage young members in communicating chemistry to the public via social media. Short videos of the final contestants speaking in understandable terms about their research and why it matters reached more than 280,000 Twitter accounts.

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## PROGRAM HIGHLIGHTS

The ACS Science & the Congress program experimented with new partnerships in 2014. Nine ACS briefings featured valuable science and technology policy discussions with congressional staffers and D.C.-based thought leaders. The ACS Office of Public Affairs (OPA) began experimenting with expanding policy programming to new venues off Capitol Hill. Briefings featured 43 speakers on topics spanning R&D economics, forensics, 3-D printing and IP law, water-based risk planning, graduate student training in entrepreneurship, space technology and agriculture, energy, medical isotopes, and scientific collaboration. These sessions attracted several new partnerships.

The ACS Experts program continued to grow and demonstrate impact. The 41 trained Experts made chemistry understandable for general audiences, policymakers, and student groups. They were interviewed by numerous media outlets including the *Wall Street Journal*, *Good Morning America*, *CNN*, *Chicago Tribune*, *Associated Press*, *Fitness Magazine*, *National Geographic*, *Bloomberg News*, and *The Weather Channel*. There were more than 80 placements from ACS Experts in 2014.

ACS and its members celebrated National Chemistry Week 2014 (NCW). The theme, "The Sweet Side of Chemistry—Candy," attracted thousands of families and children of all ages to events nationwide. More than 90 percent of ACS local sections participated, distributing more than 137,000 copies of *Celebrating Chemistry*, the hands-on activity publication. The print editions were made available in English, Spanish, and Portuguese, with French and Mandarin versions available online.

In 2014, the National Historic Chemical Landmarks (NHCL) program recognized three important figures in the history of chemistry: Thomas Edison and his work in chemistry, I. M. Kolthoff and his contributions to modern analytical chemistry, and Rachel Lloyd, the first American woman to receive a Ph.D. in chemistry. The program reached nearly 300,000 visitors through its [website](#) and others through dedication activities, articles in general press and announcements to ACS members around the world.

## Financial Highlights

The American Chemical Society (ACS) ended 2014 with solid operating results. As noted in the accompanying financial summary, the ACS generated a net contribution of \$18.1 million. The 2014 financial operating results represent the eleventh consecutive year of positive net contribution. The Society's favorable operating performance was attributable to a combination of strong financial results from the information services divisions and a continued emphasis on expense management across all operating units.

Despite the positive operating results, the Society's overall financial position (excluding the Member Insurance Program and Petroleum Research Fund) weakened in 2014 with unrestricted net assets falling from \$207.0 million at December 31, 2013 to \$144.7 million as of December 31, 2014. The decline can be attributed to a \$93.7 million accounting charge in 2014 related to the Society's postretirement benefit plans (PRBP). The Society implemented new mortality tables released by the Society of Actuaries in October 2014, which incorporated increased life expectancies. When combined with a sharp decline in the discount rate used to value the PRBP plan liabilities at year-end, the Society was required to record the sizable non-cash accounting charge. The adverse impact of this charge was partially mitigated by the Society's aforementioned favorable operating results (\$18.1 million) and investment gains of \$15.4 million.

To access the ACS audited financial statements and obtain additional financial information on the Society, visit the [ACS website](#).

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# FINANCIALS

## Financial Summary

(\$ in Thousands)

### Statement of Financial Position

	2014			2013	
	ACS Programs	Petroleum Research Fund	Total		Total
<b>ASSETS</b>					
Cash and Cash Equivalents	\$ 40,371	\$ 14,493	\$ 54,864	\$ 37,669	
Accounts and Pledges Receivable	116,753	—	116,753	106,361	
Investments	504,603	537,690	1,042,293	1,015,604	
Buildings, Land, and Other Property	106,134	12	106,146	107,582	
Interfund (Payable) Receivable	(16,628)	16,628	—	—	
Other	24,130	32	24,162	24,243	
<b>Total Assets</b>	<b>\$ 775,363</b>	<b>\$ 568,855</b>	<b>\$ 1,344,218</b>	<b>\$ 1,291,459</b>	
<b>LIABILITIES AND NET ASSETS</b>					
<b>LIABILITIES</b>					
Accrued Expenses and Accounts Payable	\$ 69,204	\$ 13,873	\$ 83,077	\$ 79,600	
Deferred Revenues	187,101	—	187,101	168,134	
Short and Long-Term Debt	853	—	853	1,660	
Postretirement Benefits and Other	221,340	4,408	225,748	146,201	
<b>Total Liabilities</b>	<b>478,498</b>	<b>18,281</b>	<b>496,779</b>	<b>395,595</b>	
<b>NET ASSETS</b>					
Unrestricted	190,103	—	190,103	250,730	
Temporarily Restricted	30,574	478,074	508,648	499,203	
Permanently Restricted	76,188	72,500	148,688	145,931	
<b>Total Net Assets</b>	<b>296,865</b>	<b>550,574</b>	<b>847,439</b>	<b>895,864</b>	
<b>Total Liabilities and Net Assets</b>	<b>\$ 775,363</b>	<b>\$ 568,855</b>	<b>\$ 1,344,218</b>	<b>\$ 1,291,459</b>	

### Statement of Activities

	2014			2013	
	ACS Programs	Petroleum Research Fund	Total		Total
<b>REVENUES</b>					
Electronic Services	\$ 436,084	—	\$ 436,084	\$ 429,988	
Member Insurance Premiums, Refunds, and Fees	13,805	—	13,805	15,310	
Dues	12,102	—	12,102	11,958	
Registration Fees and Booth Sales	10,744	—	10,744	9,745	
Investment Income	9,460	75	9,535	6,684	
Advertising	8,073	—	8,073	7,947	
Printed Services	4,740	—	4,740	6,651	
Net Assets Released from Restriction	5,180	23,933	29,113	27,695	
Other	6,520	—	6,520	6,660	
<b>Total Unrestricted Revenues</b>	<b>506,708</b>	<b>24,008</b>	<b>530,716</b>	<b>522,638</b>	
<b>EXPENSES</b>					
Information Services	376,136	—	376,136	372,589	
Member Programs and Services	43,261	—	43,261	42,587	
Member Insurance Program	15,517	—	15,517	15,300	
Grants and Awards	2,551	22,445	24,996	23,433	
Administrative	43,343	1,563	44,906	43,653	
Other	7,754	—	7,754	8,195	
<b>Total Expenses</b>	<b>488,562</b>	<b>24,008</b>	<b>512,570</b>	<b>505,757</b>	
<b>Net Contribution</b>	<b>18,146</b>	<b>—</b>	<b>18,146</b>	<b>16,881</b>	
Net Investment Gains	15,428	—	15,428	34,107	
Change in Pension Funding Status	(94,201)	—	(94,201)	60,946	
<b>Change in Unrestricted Net Assets</b>	<b>(60,627)</b>	<b>—</b>	<b>(60,627)</b>	<b>111,934</b>	
Contributions	4,139	—	4,139	3,499	
Investment Income and Net Investment Gains / (Losses)	5,941	31,235	37,176	82,304	
Net Assets Released From Restriction	(5,180)	(23,933)	(29,113)	(27,695)	
<b>Change in Restricted Net Assets</b>	<b>4,900</b>	<b>7,302</b>	<b>12,202</b>	<b>58,108</b>	
Change in Total Net Assets	(55,727)	7,302	(48,425)	170,042	
Beginning Total Net Assets	352,592	543,272	895,864	725,822	
<b>Ending Total Net Assets</b>	<b>\$ 296,865</b>	<b>\$ 550,574</b>	<b>\$ 847,439</b>	<b>\$ 895,864</b>	

# FINANCIALS

## Allocation Of Dues & Member Status

2014 Allocation of Dues		
(\$ in Thousands)		
C&EN	\$ 6,465	42%
Support for Society Programs	2,364	15%
Member Services	3,252	22%
Local Section Allotments	1,791	12%
Division Allotments	1,388	9%
<b>Total</b>	<b>\$ 15,260</b>	<b>100%</b>

Excluding the impact of Local Section and Division Allotments and AACT dues, 2014 net dues revenue totaled \$12,102,000 as reported on the [Financial Summary page](#).

Membership Status*	
Year-End 2014	
Emeritus Member	14,183
Regular Member	97,776
Regular Student Member	18,769
Undergraduate Student Member	19,888
Retired Member	5,274
Society Affiliate	1,003
Unemployed Member	1,508
<b>Total</b>	<b>158,401</b>

\*Source: ACS Demographics

2014 Division Year-End Membership Summary	
Name	Total
Agricultural & Food Chemistry Division	2,784
Agrochemicals Division	2,014
Analytical Chemistry Division	7,027
Biochemical Technology Division	2,813
Biological Chemistry Division	6,009
Business Development & Management Division	893
Carbohydrate Chemistry Division	763
Catalysis Science and Technology Division	2,738
Cellulose & Renewable Materials Division	2,327
Chemical Education Division	5,022
Chemical Health & Safety Division	1,164
Chemical Information Division	1,677
Chemical Toxicology Division	1,400
Chemistry & the Law Division	1,182
Colloid & Surface Chemistry Division	2,371
Computers in Chemistry Division	2,065
Division of Energy and Fuels	2,613
Environmental Chemistry Division	4,436
Fluorine Chemistry Division	552
Geochemistry Division	824
History of Chemistry Division	791
Industrial & Engineering Chemistry Division	4,756
Inorganic Chemistry Division	5,359
Medicinal Chemistry Division	8,848
Nuclear Chemistry & Technology Division	960
Organic Chemistry Division	12,318
Physical Chemistry Division	4,972
Polymer Chemistry Division	4,366
Polymeric Materials Science & Engineering Division	3,905
Professional Relations Division	660
Rubber Division	2,109
Small Chemical Businesses Division	634
<b>TOTAL DIVISION MEMBERS</b>	<b>100,352</b>

# 2014 HIGHLIGHTS

## ACS By The Numbers

The American Chemical Society achieved significant milestones in 2014 and we are pleased to present a fun summary of the highlights. These selected accomplishments were achieved through a robust partnership of American Chemical Society members, governance and staff, often in collaboration with other organizations. Go to [www.acs.org/acshighlights](http://www.acs.org/acshighlights) to download the complete 2014 Highlights of ACS Achievements.

7,170	2,998	192
ACS membership in 1914.	Job seekers who participated in ACS Career Fairs at National Meetings and in the ACS Virtual Career Fair online.	Total number of ACS Petroleum Research Fund (ACS PRF) grants awarded in 2014.
158,000 +	89	\$19 million +
ACS membership as of Dec. 31, 2014.	Number of employers recruiting applicants.	Total funding awarded to 2014 ACS PRF grantees.
2014	237	27
American Association of Chemistry Teachers (AACT) launched.	Job opportunities available.	Number of ACS PRF grantees who received the Nobel Prize.
30,000 +	25	\$524 million +
Combined attendance at 2014 ACS National Meetings in Dallas and San Francisco.	Complimentary SciFinder® activities for new members that allow use of the world's largest and most reliable chemistry-related databases.	Value of the ACS PRF endowment at year-end.
22,000 +	100	3
Number of papers submitted for the 2014 ACS National Meetings.	Complimentary activities from SciFinder® are available to our unemployed members.	Number of 2014 Nobel Laureates in Chemistry – Martin Karplus, Ph.D., Michael Levitt, Ph.D., and Arieh Warshel, Ph.D.
99		
Number of scientists inducted into the 2014 class of ACS Fellows during the San Francisco National Meeting.		

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# 2014 HIGHLIGHTS

**5**

Years since ACS inaugurated the ACS Chemistry Ambassadors program.

**10,000 +**

Number of ACS Chemistry Ambassadors.

**31,000 +**

News media stories generated by ACS press releases and social media activity in 2014.

**17.5 billion +**

Combined unique visits to websites and circulation of newspapers and magazines that ran stories on ACS journals and National Meeting research in 2014.

**9 million +**

Downloads/views of Office of Public Affairs videos and podcasts in 2014.

**400+**

Number of economically disadvantaged high school students who participated in Project SEED in 2014.

**400+**

Volunteer scientists and coordinators who mentored these Project Seed students.

**20**

Years since ACS inaugurated the ACS Scholars program.

**2,600 +**

Number of students from underrepresented backgrounds who have participated in ACS Scholars since 1995.

**1,500+**

ACS Scholars who have earned at least a bachelor's degree in a chemical science.

**6**

New International Student Chapters chartered in 2014—Egypt, Germany, India, Italy, Malaysia, and Singapore.

**1.5 million+**

Indexed records added to C<sub>Plus</sub><sup>SM</sup> in 2014.

**77**

Countries where SciFinder® is used.

**91 million**

Chemical substances in the CAS REGISTRY<sup>SM</sup> at the end of 2014.

**65 million**

Sequences in the CAS REGISTRY<sup>SM</sup> at the end of 2014.

**77 million**

CAS's collection of searchable single and multi-step reactions from 1840 to the present.

**41,000 +**

Number of peer-reviewed articles published in ACS Journals in 2014.

**7**

Number of core chemistry categories in which ACS Journals rank #1 in total citations and/or ISI Impact Factor™ as reported in the 2013 Journal Citation Reports® from Thomson Reuters.

**200**

Number of ACS Science Coaches during 2014-2015 school year.

**4**

Medals won – one gold, three silver – by the American team at the 47th International Chemistry Olympiad (IChO) in Hanoi, Viet Nam, in July 2014.

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big air lift of 1948 to help  
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ACS acknowledges these donors who made contributions on prior years' pledges. Individual donors are indicated in italics.

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