Annual Report 2012

OFFICERS' MESSAGE

Introduction – A Year of Collaboration and Global Partnerships

Bassam Z. Shakhashiri
President

William F. Carroll, Jr.
Chair
Director-At-Large

Madeleine Jacobs
Executive Director
& CEO

2012 was a year of great achievement for the American Chemical Society. We achieved success through a robust partnership of ACS members, governance, and staff, often working with other organizations. The 2012 ACS Annual Report highlights several of these accomplishments. ACS carries out so many initiatives that we often forget the incredible diversity of ways that we serve our members and the broader scientific enterprise worldwide.

ACS issued one of the most comprehensive reports in a half century on the fundamental changes needed in the education of scientists in the chemical sciences whose work impacts virtually every scientific discipline. The report was the result of the Commission on Graduate Education in the Chemical Sciences, one of the major initiatives of ACS President Bassam Z. Shakhashiri, Ph.D. Symposia and workshops will be held in 2013 to review and explore ways to implement the recommendations.

Another presidential initiative was the ACS Presidential Working Group on Climate Science. This group developed a web-based tool kit about the science of climate change to be used as a resource by ACS members to discuss this important issue with other scientists, policymakers, educators, and the public.

ACS fostered collaboration among people across geographic boundaries to solve global challenges. We support our members in many ways to help them advance chemistry through research, education and innovation. Communicating chemistry to fellow scientists and to the world is one of ACS's core functions. The quality and prestige of ACS publications, including 42 journals and *Chemical & Engineering News* (C&EN) weekly news magazine, are unparalleled. Communicating the value and contributions of the chemical sciences to non-scientists is another important role for ACS and is one of the goals of the ACS Strategic Plan for 2012 and Beyond.

ACS expanded its international collaborations. As a global organization with a sizeable percentage of our members living outside the United States, we see our global presence in terms of helping all members achieve their goals in a global workforce and environment. In December 2012, ACS launched a new International Center, an online clearinghouse of information on international opportunities for chemical practitioners. The site is a one-stop, efficient, and comprehensive resource showcasing existing international collaboration opportunities, experiences, and logistics. This was an outgrowth of a 2010 Presidential Task Force.

The launch of the Chinese Microsite was ground-breaking for ACS in the development of localized ACS websites for international audiences. It was developed based on the needs of our Chinese stakeholders. The site is in Chinese and includes information about ACS programs, products, and services. It represents a global dialogue in science, technology, and chemistry and is especially important in helping to strengthen the connection between ACS and the scientific community in China and the rest of the world.

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In 2012, editors of a dozen ACS journals and key ACS Publications staff completed a two-week editorial outreach visit to India, where they met with more than 3,000 scientists and students to discuss emerging trends in chemical science and the publication of scientific research in ACS journals. In recognition of India's leadership in science, ACS editors visited 13 academic and research institutions spanning seven cities in India: Mumbai, Bangalore, Delhi, Kanpur, Hyderabad, Pune, and Kolkata. The trip to India, while the first for ACS Editors, is part of ACS journals' growing presence around the world, with other activities taking place in China, Japan, and elsewhere.

Another significant event in 2012 was ACS hosting the 44th International Chemistry Olympiad (IChO) in Washington, D.C. This was the first time that the United States and ACS had hosted the event in 20 years. IChO involved 72 countries, nearly 300 students, and 700 participants. The Dow Chemical Company was the sole financial sponsor ($2.5 million) of the 44th IChO, along with generous donations of facilities and personnel by the University of Maryland at College Park. Other major donors included Sigma Aldrich, which provided the chemicals for the experiments. The U.S. team won one gold medal and three silver medals. U.S. Senator Chris Coons (D-DE) sponsored a Senate resolution recognizing the importance of STEM education and the roles of ACS and the University of Maryland in arranging for the 44th IChO. The Maryland legislature gave citations to Dow, University of Maryland, and ACS honoring them as principals for the event.

The economy was challenging in 2012. ACS continued to help members look for jobs and provide guidance for career development. In addition to leadership training and the enormous existing suite of ACS Career Services designed to help members thrive in the global workforce, ACS launched a model Online Jobs Club program to help displaced workers, especially the long-term unemployed, gain tools, leads, and insights from colleagues on job search and employment issues. These clubs met weekly through web-based communications to discuss common challenges and facilitate training and networking.

To enhance chemistry-related training, innovation, and job creation, ACS developed and launched a new Entrepreneurship Initiative (EI) in 2012, the outgrowth of a 2011 Presidential Task Force. The program received the highest award given by the American Society for Association Executives for programs that make a difference in the world. The EI's two components—an intensive training program for budding entrepreneurs and a resource center for established entrepreneurs—were both test marketed and fully operational in 2012. In addition, through the generosity of entrepreneur Kathryn (Kitty) Hach-Darrow, a new award established by the ACS Board of Directors was endowed with $500,000 and named the Kathryn C. Hach Award for Entrepreneurial Success. The first award will be given in 2014.

Although the global economy continued to struggle in 2012, we are pleased to announce that ACS ended 2012 with many extraordinary achievements and with a positive financial position. The Board of Directors is pleased to report that for the ninth consecutive year, ACS ended the year with a positive net contribution from operations.

In 2012, ACS settled the long-running legal case, *ACS vs. Leadscope* to the agreement of all parties.

Looking forward, the Board of Directors will be guided by the ACS Strategic Plan for 2012 and Beyond. The plan has four strategic goals that provide a path to achieve our Vision, *Improving people's lives through the transforming power of chemistry.*

ACS – Global Authority for Chemical Information

ACS continues to be the most authoritative, comprehensive, and indispensable provider of chemistry-related information through its Publications division, Chemical Abstracts Service, National Meeting programs, and the Petroleum Research Fund.

ACS Publications maintains its reputation as "Most Trusted. Most Cited. Most Read" by publishing groundbreaking research in its premier journals in chemistry and related sciences, *Chemical & Engineering News* (C&EN) and books.

In 2012, ACS members received a valuable new member benefit: expanded access to more than one million articles and book chapters from ACS publications. This new benefit is offered exclusively to ACS members. Publications, working in close collaboration with Membership and Scientific Advancement (M&SA), introduced the ACS Member Universal Access program, which is a significant expansion in ACS journal subscription options for ACS members. As part of an annual membership, this program includes options ranging from online access to any 25 articles from all ACS journals, ACS Symposium Series e-Books, C&EN Archives, and book collections, to new "Passport" collections that duplicate access rights previously limited to institutional libraries. More than 14,000 ACS members downloaded journal, book and C&EN Archive content via this program in 2012. In a survey of members conducted by M&SA six months after the introduction of the program, more than 54 percent of respondents said that this benefit made them more likely to renew their ACS membership in future years.

ACS Publications continued to innovate through the development and launch of two new peer-reviewed journals, *ACS Macro Letters*, and *ACS Synthetic Biology*, and engaged in an early editorial and marketing introduction of *ACS Sustainable Chemistry & Engineering* prior to its subscription-based availability in 2013.

In 2012, ACS Publications received several recognitions. ACS won the American Association of Publishers' Professional and Scholarly Excellence (PROSE) award for Best eProduct in Physical Sciences & Mathematics. The free *C&EN Mobile* app for ACS members was recognized for its innovative capabilities that provide access to daily news updates from C&EN Online, analysis and commentary from the CENtral Science blog network, and the latest chemistry job postings. Published issues automatically update to the user's device regardless of whether or not they are running the application. In addition, we have added a yearly subscription model for non-ACS members.

ACS Journals continued their preeminence in citations and Impact Factors. The 2011 Journal Citation Reports® was released by Thomson Reuters in June 2012. The ACS journal portfolio continued to perform extremely well, receiving more than 2 million total annual citations and posting a #1 ranking in either Impact Factor and/or Total Citations in 16 categories.

In 2012, CAS continued extraordinary database growth, analyzing more than 1.4 million patents, journal articles and other disclosed research sources, for a new total of more than 36 million records. Updated daily, the CAS reaction database saw even greater gains, with growth exceeding 9.1 million new reactions.

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The CAS REGISTRY℠ is the world's largest collection of small molecules. In December 2012, CAS celebrated registration of the 70 millionth substance in the CAS REGISTRY℠, just 18 months after registering the 60 millionth substance. The 70 millionth substance – a potential T-type calcium channel blocker – was disclosed in the patent application published by KIPO in Korea, and may be useful in the treatment of epilepsy, Parkinson's disease, dementia and other conditions.

CAS patent authority coverage expanded to include Eurasia in 2012. CAS now covers 63 patent authorities worldwide to ensure comprehensive patent information within its databases.

More than 30,000 people participated in ACS National Meetings in San Diego and Philadelphia in 2012. Participants presented more than 19,000 papers at these two meetings – significantly expanding the body of knowledge in dozens of chemistry-related fields.

At the 2012 ACS National Meetings, the highly anticipated and well-received Kavli Foundation Lectures continued to grow. ACS worked with The Kavli Foundation to establish a new Kavli-sponsored lecture series for 2013-2015 titled "Emerging Leader in Chemistry Lecture," which identifies and acknowledges outstanding young scientists with exceptional individual achievements in scientific or engineering research. This new series launches in 2013 at the ACS National Meeting in New Orleans.

The National Meetings program also won the prestigious 2012 Green Leader Award offered by the Professional Convention Management Association, the leading meetings industry group.

The Petroleum Research Fund (PRF) provided more than $16 million to fund 178 grants to support basic research and advanced education in the field of petroleum and related fields. The ACS Petroleum Research Fund's 56th e-Annual Report was posted online. This online e-annual report includes the impacts and benefits of the Fund reported by each investigator.

With so many achievements in 2012, it is clear why ACS is truly "home" for chemical professionals!

Focusing on What Matters Most

For more than 136 years, ACS has been the chemical enterprise's "hometown": 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.

As our members' needs have changed, we have developed innovative programs and resources available to our global colleagues to meet those needs. We are committed to offering career and leadership training and resources, fostering international collaboration, improving chemistry education especially providing opportunities for underrepresented populations, and engaging the general public to highlight the value and contributions of chemists and the chemical enterprise to society.

We believe that these efforts on behalf of our more than 163,000 members will provide enormous benefits now and in the future.

Making International Connections

The American Chemical Society is a global organization with a sizable percentage of its members living outside the United States. As a membership organization, we see our global presence in terms of helping all members achieve their goals in a global workforce and environment. The Division of Membership and Scientific Advancement launched a new International Center in December 2012, an online clearinghouse of information on international opportunities for chemical practitioners. The site is a one-stop, efficient, and comprehensive resource showcasing existing international collaboration opportunities, experiences, and logistics. This was an outgrowth of a 2010 Presidential Task Force.

The Global Research Experiences, Exchanges, and Training Program (GREET) provided intensive international research experience and collaboration opportunities to U.S. chemical scientists and drew extremely favorable feedback from participants. The 2012 teams were hosted by Kenya, China, Israel, Italy, and New Zealand. The Membership & Scientific Advancement Division also organized a summit in November of international students in the U.S. to facilitate discussions around the unique national resource and opportunities provided by the more than 700,000 international students studying in the United States. Discussions focused on promoting cross-cultural understanding, increasing international skill flow and collaboration, and ways to enhance engagement with this segment. The recommendations are being used to inform engagement strategies in 2013. Travel awards from the Executive Director's Initiative Fund were awarded to nine U.S. graduate students to attend and present their research during the 4th EuCheMS Congress in Prague, which helped bring an ACS and U.S. perspective to the meeting and demonstrate ACS membership value to the graduate student community. During the Congress, students blogged about their experiences on the ACS Network.

The launch of the Chinese Microsite was ground-breaking for ACS in the development of localized ACS websites for international audiences. Washington IT (Web Strategies and Operations unit) successfully developed the site in collaboration with the ACS Office of International Activities based on the needs of our Chinese stakeholders. The site is in Chinese and includes information about ACS programs, products, and services. The site represents a global dialogue in science, technology, and chemistry and is especially important in helping strengthen the connection between ACS and the scientific community in China.

ACS Publications - Journals

Living up to their reputation as "most trusted, most cited, and most-read," ACS Journals continued their preeminence in citations and Impact Factors while continuing to develop new and enhanced content and delivery options.

The 2011 Journal Citation Reports® were released by Thomson Reuters in June 2012. ACS journals continued to perform extremely well, receiving more than 2 million total annual citations and posting a #1 ranking in either Impact Factor and/or Total Citations in 16 categories.

With 2012 marking the first full calendar year of publication for *ACS Macro Letters* and *ACS Synthetic Biology,* ACS Publications also launched an early editorial and marketing introduction of *ACS Sustainable Chemistry & Engineering* prior to its subscription-based availability in 2013. David T. Allen of the University of Texas at Austin was named editor in April 2012. The latest journal to secure Governing Board approval is *ACS Photonics and Optoelectronics*, with publication planned for 2014.

In a strategic collaboration between ACS Publications and ACS Membership and Scientific Advancement, the Society significantly expanded its journal subscription options for members. These ranged from offering all members a pre-determined number of free article and chapter downloads from ACS journals, archives and book collections, to new "Passport" collections that duplicated access rights previously limited to institutional libraries. In a survey conducted six months after its introduction, more than 54 percent of respondents said that this new member benefit made them more likely to renew their ACS membership in future years.

The Web Editions platform saw record web usage in 2012, delivering over 80 million full text article downloads. The platform now provides 130 million free abstract views a year to over 20 million unique visitors. Some 200,000 researchers have chosen to register with ACS and receive subject specific email alerts to new material posted on the ACS Web Editions within hours of publication. The ACS Mobile app—available on both Android and iOS devices—has more than 40,000 active users who downloaded over a million abstracts. This is the result of moving the app into the "freeware" category and the explosion in web-capable smartphones and iPad devices in use in 2012.

ACS Publications continued to serve an expanding customer base in Asia, South America, Europe, and the Middle East. A contingent of ACS editors and Publications staff made a two-week editorial outreach visit to India, where they met with more than 3,000 scientists and students to discuss emerging trends in chemical science and the publication of scientific research in ACS journals.

The Publications-initiated ACS on Campus (ACSoC) program also expanded in 2012. With new content, ACSoC is now a broader, cross-divisional outreach and skills development program of the Society, serving research and author communities. In 2012 nearly two dozen sessions were held across the U.S., Europe, Asia and South America.

ACS Publications – C&EN

This year marked a change in leadership at the Society's weekly newsmagazine, *Chemical & Engineering News*. Editor-in-Chief Rudy Baum retired from that post on Sept. 14. He is succeeded by Dr. A. Maureen Rouhi and Joshua Fischman succeeded Rouhi as C&EN's Deputy Editor-in-Chief in November 2012.

The free *C&EN Mobile* app was recognized for its innovative capabilities that provide access to daily news updates from *C&EN Online*, analysis and commentary from the CENtral Science blog network, and the latest chemistry job postings. For this app, ACS was awarded the American Association of Publishers' Professional and Scholarly Excellence (PROSE) award for Best eProduct in Physical Sciences & Mathematics.

With the introduction of additional features, the application ("app") was made available in the Apple Newsstand interface. Published issues automatically update to the user's device regardless of whether or not they are running the application. The *C&EN* covers in Newsstand update to the latest cover issue and a new sash appears notifying users the issue is new to read. Improvements to the look and feel and the addition of a YouTube channel were also made. Version 2.2.0 of Android *C&EN Mobile* was prepared for release to the Android market. This release improves upon features in previous versions and is associated with the latest changes in the Android operating system.

C&EN also continues to expand its presence online through engagement in social media. Social media, which now account for 9 percent of *C&EN Online's* referral traffic, enable C&EN content to be shared and discussed by prominent outlets like the *New York Times, Scientific American,* and the *Atlantic*.

CENtral Science, the magazine's blog network, introduced two new blogs this year: Fine Line, which covers the fine chemicals industry, and Grand CENtral, a home for weekly summaries and announcements of the network. Almost all of the blogs saw an increase in page views from 2011.

In the social media arena, C&EN's twitter feed (@cenmag) has more than 7,100 followers who read, share, and interact with C&EN via this channel. Traffic to C&EN's Facebook page and YouTube channel continued to grow, and a new Tumblr site was launched to foster sharing of photos, videos, C&EN articles, and social media posts from ACS National Meetings.

Chemical Abstracts Service (CAS)

CAS — the World's Authority for Chemical Information

As the only organization in the world solely dedicated to finding, collecting and organizing all publicly disclosed chemical information, CAS serves chemical, pharmaceutical and bio-medical companies as well as universities, government organizations and patent offices around the world with the most comprehensive and authoritative sources of curated and quality controlled chemical and related information. By combining its databases with advanced search and analysis technologies (e.g., SciFinder® and STN®), CAS delivers the most current, complete, secure, and interlinked digital information environment for scientific discovery.

In 2012, CAS continued extraordinary database growth, analyzing more than 1.4 million patents, journal articles and other disclosed research sources, for a new total of more than 36 million records. Updated daily, the CAS reaction database saw even greater gains, with growth exceeding 9.1 million new reactions. 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 also explore the largest collection of disclosed chemical synthesis information, including more than 47 million single- and multi-step reactions from 1840 to the present. CAS added thousands of experimental procedures from three high-impact Taylor & Francis journals and also updated SciFinder® with nearly 200,000 additional experimental NMR spectra to help scientists better characterize and identify substances. Front page graphics from USPTO and structure graphic additions for the CAS Markush database provide additional structure data. CAS now provides access to more than 4 million experimental procedures for reactions from prestigious publishers including all ACS Publications journals, Taylor and Francis top synthetic titles, Shanghai Institute of Organic Chemistry journals, and patents from the USPTO, European Patent Office, World Intellectual Property Organization, the Japanese Patent Office and the German Patent Office.

The CAS REGISTRY℠ is the world's largest collection of small molecules. In December 2012, CAS celebrated registration of the 70 millionth substance in the CAS REGISTRY℠, just 18 months after registering the 60 millionth substance. This potential T-type calcium channel blocker, disclosed in the patent application published by KIPO in Korea, may be useful in the treatment of epilepsy, Parkinson's disease, dementia, and other conditions. CAS REGISTRY℠ also contains more than 64 million sequences. The continual growth and updating of organic and inorganic substances in the CAS REGISTRY℠ database is reported with the REGISTRY counter on the newly-designed CAS website home page. This growth has been complemented by CAS's expanding coverage of predicted and experimental property values, spectra, and data tags, to more than 3.8 billion by year-end.

CAS patent authority coverage expanded to include Eurasia in 2012. CAS now covers 63 patent authorities worldwide to ensure comprehensive patent information within its databases. In addition, multiple basics coverage was extended to include patents from all covered authorities. Scientists can now also uncover more disclosed chemistry in SciFinder® thanks to the backfile addition of Markush structure-containing patents from 1987 to the present.

PROGRAM HIGHLIGHTS

Enhancements to SciFinder® Improve Researchers' Workflow, Convenience, and Productivity

Major updates to the web version of SciFinder® during 2012 provided scientists with new capabilities to further their research.

- New commercial sourcing features enable researchers to quickly link to, analyze and sort chemical sources by pricing and availability.
- CAS expanded its collection of synthetic chemistry and reactions information in SciFinder® with the addition of experimental procedures from Japanese and German patents (2008–present) as well as from Taylor & Francis journals (1998–present).
- SciFinder® users can now search substances by individual experimental or predicted property, and chemists can target results more efficiently by locating compounds with specific property characteristics.
- Substance searchers now benefit from the convenience of inputting a CAS Registry Number to the structure editor in SciFinder®. Instead of relying solely on their drawing ability, users can rely on the most widely recognized substance identifier to accurately produce a model for structure-based searching.
- From multiple points within SciFinder®, users can quickly view details related to a select substance or reference using *Quick View*. This view makes scanning large answer sets easier.
- A new default role (reactant) assigned to the substance or fragment to the left of the reaction arrow improves the precision of reaction searches (the former reactant/reagent role is still an option).
- Researchers can quickly evaluate synthesis options and preferred pathways by grouping reaction answers by transformation type.
- New SciPlanner™ import and export options let researchers share synthesis plans with other SciFinder® users.
- The "Remember me" feature at login allows users to remain signed in to SciFinder® for more convenient access.

A new tagline was established for SciFinder®, the choice for chemistry research™. This reflects the fact that customers rely on SciFinder® for their chemistry research and builds on the value of chemistry as the central science. An ad campaign using this tagline was developed to position SciFinder® as the most important tool for chemistry research, with access to the most comprehensive and trustworthy chemistry-related content from CAS.

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Organizations around the globe rely on SciFinder® for accurate, timely chemistry and related information. In 2012, the National Institutes of Health (NIH) Library collaborated with CAS to provide enterprise-wide access to SciFinder® so scientists across NIH can now have on-demand access to the most complete and authoritative chemistry content in the world. In addition, academic institutions around the world continued converting to the SciFinder® Unlimited Access Plan, including the Council of Australian University Librarians (CAUL), which comprises 39 academic institutions in Australia, including the University of Melbourne, Australian National University and the University of Sydney.

ACS Publications and CAS Jointly Introduce *Reference QuickView*

Reference QuickView is a dynamic new feature powered by SciFinder® that enables readers of web content to view directly the text of abstracts linked to bibliographic citations within an ACS Publications journal article or book chapter. Readers viewing the full-text HTML version of an ACS article can scan abstracts from the broader literature, across millions of citations drawn from a broad array of scientific disciplines covered by CAS. Navigational features facilitate quick review of an article's references and corresponding abstracts. Links to the *Reference QuickView* display are placed conveniently in-line within footnotes found in the article text.

Outstanding Ph.D. Students Representing 12 Countries Participate in the SciFinder® Future Leaders in Chemistry Program

CAS selected 15 Ph.D. students in the chemical sciences for the 2012 SciFinder® Future Leaders in Chemistry program. Each of these students demonstrated academic excellence, a commitment to research and an appreciation of chemical information, as evidenced through their exceptional essays and impressive letters of recommendation, distinguishing them among the hundreds of students who applied. Since 2010, the SciFinder® Future Leaders in Chemistry program, formerly the SciFinder® Academic Exchange Program, has served as an intensive mini-university where graduate students from around the world exchange ideas and experiences in chemistry and informatics. Participants in the program have the unique opportunity to share their insights on chemical information and learn from their peers.

CAS and its STN® Partner, FIZ Karlsruhe, are Revolutionizing Patent Searching with a New STN®, The Choice of Patent Experts

In December, CAS and FIZ-Karlsruhe announced that Version One of the new STN® platform was made available in beta for fixed fee customers. This was the first major milestone in a multi-year initiative to create the next generation of STN®--The Choice of Patent Experts™.

The focus of this first version was on developing the core search and retrieval system for the new STN®. This release combines the complete CAS REGISTRY℠ and Chemical Abstracts content along with Thomson Reuters' Derwent World Patents Index® and powerful new search features to support preliminary searches in these key areas:

- Chemistry and general technology research
- Intellectual property, such as basic novelty and prior art
- Due diligence

PROGRAM HIGHLIGHTS

- First pass freedom to operate

A new approach for STN® is to allow organization of work in projects for easy management of search queries and results. New technologies are designed to process broad and complex searches with industry-leading performance. A new ad campaign was also launched to reinforce STN®'s role as the professional search tool. The theme of the campaign is It's hard to get professional results with amateur tools. The STN® marketing campaign is targeted to professional searchers and appears in print and digital media in North America, Europe, Asia, and China.

Career Services

The Division of Membership & Scientific Advancement created a ground-breaking new learning system for industry professionals called SciMind™. The system contains the world's first "Labinar," a real lab exercise in a virtual environment. Focused initially on separations science and toxicology, the new product has drawn very positive feedback from instructors and learners to date. In addition, the overall Professional Education website was redesigned in 2012.

To enhance chemistry-related training, innovation, and job creation, ACS developed and launched a new Entrepreneurship Initiative (EI) in 2012, the outgrowth of a 2011 Presidential Task Force. The program received the highest award given by the American Society for Association Executives for programs that make a difference in the world. The EI's two components—an intensive training program for budding entrepreneurs and a resource center for established entrepreneurs—were both test marketed and fully operational in 2012.

ACS offered a record number of Leadership Development System (LDS) courses in 2012, which attracted nearly 900 participants. The LDS provides online and in-person workshops that assist volunteers in their ACS activities as well as in their workplace. In addition, strategic planning retreats were held for several ACS committees, divisions, and local sections through a new initiative that makes this available to various ACS units.

An Online Jobs Club program was established to help displaced workers – especially the long-term unemployed – gain tools, leads, and insights from colleagues on job search and employment issues. The club meets weekly through web-based communications to discuss common challenges and facilitate training and networking.

Promoting Education

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

In 2012, 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 ACS hosted the 44th International Chemistry Olympiad (IChO) in Washington, D.C., from July 21–30. The competition engaged 283 students from 72 countries in practical and theoretical examinations at the University of Maryland. Numerous activities were offered to nearly 600 participants during the ten-day event. The Dow Chemical Company was the sole financial sponsor ($2.5 million) of the 44th IChO, along with generous donations of facilities and personnel by the University of Maryland at College Park. The U.S. team won one gold medal and three silver medals. Christopher Hillenbrand earned a gold medal, placing 16th in the overall competition, and Sidharth Chand, James Deng, and Jason Ge won silver medals.

ACS celebrated the 75th anniversary of welcoming undergraduate students into the Society. Since the ACS bylaws were amended in 1937, the number of undergraduate students and chapters has grown to over 18,000 members and 1,040 chapters. The celebration of the 75th anniversary of welcoming undergraduates into ACS – combined with the establishment of Reactions: The ACS Undergraduate Blog and implementation of an integrated social media strategy – resulted in the establishment and reactivation of 53 chapters, including ten on two-year college campuses.

International Year of Chemistry Challenge Kits, created through a grant from the National Science Foundation and the National Institutes of Health, were designed to take students on an imaginary trip around the world to meet scientists, learn about chemical reactions, and get a sense of the wide variety of ways that scientists use chemistry to solve world problems. Over 10,000 kits were distributed to upper elementary and middle school classrooms across the United States. Survey results from teachers who received kits indicated that over 95 percent found the lessons in the kit helped students realize that chemistry is used to solve real-world problems.

The ACS High School Chemistry Club Program, established in 2005 with 15 clubs, now has more than 520 clubs across the United States and Puerto Rico. The number of clubs participating in this exciting, engaging activity grew by 12 percent during 2012. Additionally, in 2012 the program published a highly regarded and well-received cookbook, populated with recipes and activities submitted by ChemClub participants.

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ACS participated in the USA Science and Engineering Festival, which culminated in a three-day finale Expo at the Washington, D.C., Convention Center on April 27-29. In the lead-up events, ACS provided a "Nifty Fifty" speaker for a local high school, the ACS Mole marched in the Cherry Blossom Parade, and a special STEM Congressional briefing was held that included Bill Nye as a panelist. Based on estimated numbers from the Convention Center, nearly 200,000 people participated over the three days, the second largest event the Convention Center has ever seen. At the ACS booths, over 6,000 children and adults either did a hands-on activity, took a picture with the Mole, learned about green chemistry, or viewed a video podcast.

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 31 internships in summer 2012 and will host 38 internships in 2013. Every SCI scholar selects a high school chemistry teacher to receive recognition and a $1000 award.

During 2012, the ACS Office of Professional Training (OPT) and IT staff developed a system that allows ACS-approved programs to submit their periodic reports online and provides an interface for the Committee on Professional Training (CPT) to complete the reviews of these programs online. The successful pilot test of CPT Periodic Review System (CPRS) was completed during the summer, culminating with CPT's review of 25 reports using this paperless system. Beginning in 2013, all periodic reports will be submitted and reviewed using CPRS. The implementation of this system eliminates the need for chemistry programs to make photocopies of their reports and course materials and mail them to ACS. CPRS also eliminates the need to ship over 500 pounds of printed materials to three CPT meetings per year.

The ACS Science Coaches program was renewed for three additional years in August 2012. This program encourages chemists to volunteer to assist a teacher on an on-going basis throughout the school year. Science Coaches (chemists) make a minimum of six one-hour visits and assist on an as needed basis via e-mail and phone. For the 2012-2013 school year, 102 chemists signed on to assist a teacher at the elementary (19 partnerships), middle (28 partnerships), or high school (55 partnerships) level in 30 states plus Puerto Rico.

One of our most successful efforts, 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 2,450 African-American, Hispanic/Latino, and Native American students have participated in the program since 1995. Of those, nearly 1,330 have earned bachelor's degrees in a chemical science and 40 percent have entered the chemical science workforce. More than 147 of these ACS Scholars have gone on to earn doctoral degrees in chemistry, chemical engineering, or a related discipline.

Another premier program, Project SEED, offers high school students the rare opportunity to work in academic, government, or industrial research laboratories for an 8 to 10-week term. In 2012, the program placed 431 economically disadvantaged high school students in more than 130 research laboratories in 33 states, the District of Columbia, and Puerto Rico, under the supervision of 434 volunteer scientific mentors and coordinators.

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The Project SEED Scholarship Subcommittee awarded 29 Project SEED College Scholarships, totaling $145,000, to former SEED students for their freshman year. In addition, three new renewable Ciba Specialty Chemicals scholarships ($5,000/year) were awarded for the 2012 – 2015 academic years.

Communicating the Value of Our Science

News about chemistry from ACS journals, C&EN, and National Meetings reached the public in record numbers. Independent monitoring data for 2012 shows that ACS-generated publicity resulted in more than 19,000 news media articles, a significant increase from 2011, resulting in potential readership or viewership of literally billions.

The award-winning ACS Digital Services unit produced more than 350 videos, a 10-percent increase from 2011. This unit created popular general audience videos about the Chemistry of Snowflakes, Chemiluminescence: How Glow Sticks Work, How Sunless Tanner Works: Tan-In-A-Can Chemistry and other topics. The Chemistry of Snowflakes was viewed more than 358,000 times making it the most popular video produced by the ACS Digital Services unit in 2012. The clip received widespread coverage, most notably from The Huffington Post, Boing Boing, CNet, ABC 7 News Washington, and the Washington Post, to name a few. The Bytesize Science videos received tens of thousands of views on YouTube and Vimeo, as well as coverage on Time, Wired, Los Angeles Times, AOL News, Live Science and many other sites.

A core value for ACS, diversity and inclusion, was recognized. The ACS Committee on Chemists with Disabilities (CWD) was the top winner in the employer category of the Campaign for Disability Employment's "What can YOU do?" video contest. CWD's entry, "Chemists with Disabilities: We All Can," won the top award based on originality, content, reflection of campaign themes and categories, production value, impact, and accessibility. The video was produced by the ACS Digital Services unit. It was featured on the Campaign for Disability Employment's website, YouTube, and various social networks and local, state, and national events.

ACS offers members many opportunities to volunteer or simply share chemistry resources with their communities. Under the banner of Chemistry Ambassadors, members are encouraged to be compelling advocates and spokespersons for their profession. Whether it's sharing ACS scholarship information with high school counselors, emailing ACS Back-to-School Resources to teachers, using a Kids and Chemistry kit with the Scouts, joining the local section for National Chemistry Week or Chemists Celebrate Earth Day, or talking to policymakers about science funding, there's something for everyone.

In 2012, the nearly 8,000 Chemistry Ambassadors took chemistry to the streets in all of these ways. They put ACS resources into more of the hands they are intended to serve, they put a human face and voice on chemistry, and they talked less about what they do and more about why what they do matters—to everyday people, every day.

In 2012, ACS and its members marked the 25th anniversary of National Chemistry Week with the theme "Nanotechnology: The Smallest Big Idea in Science." Many thousands of families and children of all ages were introduced to this exciting area of chemistry through hands-on activities, experiments, puzzles and online and printed publications.

PROGRAM HIGHLIGHTS

For members interested in serving as public relations (PR) chairs for their local sections, the “Sparkle” communication workshop was offered again, bringing the total number of trained PR chairs to 61. These volunteers learned how to write news releases that will bring results, how to work effectively with the news media, and how to ”speak simply” about chemistry in order to build greater community awareness of the important activities of the local section and their fellow members.

The National Historic Chemical Landmark (NHCL) program enjoyed greater impact in 2012 than ever before. Record levels of web traffic overall, plus op-eds, press conferences, videos, and panel discussions for the 2012 designations of DayGlo Fluorescent Pigments and Rachel Carson’s *Silent Spring* reached new and influential audiences. In the month of October, the Landmark site received more than 44,000 views making it one of the most popular sites on the ACS web platform. The program expanded its reach into classrooms through newly launched high school lesson plans, based on NHCL subjects and created in cooperation with the ACS Education Division.

Through all of these efforts, ACS helped members to “Share Chemistry! and Spark a Reaction!”

Financial Highlights

Despite challenging economic conditions, the American Chemical Society (ACS) ended 2012 with favorable operating results by generating a net contribution of $16.4 million. In addition, total revenues increased 3.6 percent over 2011 with record operating results from ACS's information services divisions (Chemical Abstracts Service and ACS Publications) driving the increase. The 2012 financial results represent the ninth consecutive year of positive net contribution. The Society's strong operating performance was attributable to a combination of outstanding financial performance from the information services divisions and a continued emphasis on expense management across all operating units.

Despite the positive operating results and sizable investment gains, the ACS's financial position weakened slightly from 2011. Unrestricted net assets declined from $139.5 million in 2011 to $138.8 million at December 31, 2012. The decrease is primarily attributable to two factors: non-cash accounting charges related to the Society's underfunded postretirement benefit plans (i.e., defined benefit pension plan and retiree medical plan); and settlement of the Leadscope case in September 2012.

In furtherance of its mission *"to advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people,"* ACS continues to invest heavily in its information services units. These investments are made to strengthen the Society's position as the world's most trusted and comprehensive source for chemistry-related information. In support of this goal, in 2012, ACS added 5 million new small molecules to the CAS Registry℠, indexed more than 1.4 million articles and patents, and added more than 9 million reactions to CASREACT®. SciFinder® had four major releases and the first version of the new STN®, powered by the Search Engine of Tomorrow (SPOT), was released. ACS journals continued their preeminence in citations and Impact Factors, receiving more than 2 million citations and posting a #1 ranking in either Impact Factor and/or Total Citations in 16 categories as reported in the 2011 Journal Citation Reports® released in June 2012. ACS Publications undertook the first full calendar year of publication of two new titles: *ACS Macro Letters* and *ACS Synthetic Biology*.

Looking ahead, the Society intends to enthusiastically pursue the goals set out in its *Strategic Plan for 2013 and Beyond*. Whether providing information resources, advancing member careers, improving education or communicating chemistry's value, ACS remains firmly committed to providing indispensable programs, products and services. In this way, ACS will enhance the Society's value and relevance to its diverse stakeholders, including members, educators, public policy makers and other chemistry professionals.

To access ACS audited financial statements and IRS Form 990 returns, visit the ACS website. Click the About Us tab, scroll down and click on the link to ACS Financial Information, or view the page here.

Financial Summary

($ in Thousands)

Statement of Financial Position

	2012			2011
	ACS Programs	Petroleum Research Fund	Total	Total
ASSETS				
Cash and Cash Equivalents	$ 64,342	$ 22,259	$ 86,601	$ 48,291
Accounts and Pledges Receivable	106,091	–	106,091	81,146
Inventories	1,953	–	1,953	2,850
Investments	390,141	472,944	863,085	864,450
Interfund (Payable) Receivable	(13,880)	13,880	–	–
Other	20,833	27	20,860	15,184
Buildings, Land, and Other Property	109,467	–	109,467	110,172
Total Assets	$ 678,947	$ 509,110	$ 1,188,057	$ 1,122,093
LIABILITIES AND NET ASSETS				
LIABILITIES				
Accrued Expenses and Accounts Payable	$ 64,358	$ 11,470	$ 75,828	$ 75,274
Deferred Revenues	161,449	–	161,449	143,729
Short and Long-Term Debt	2,431	–	2,431	3,168
Postretirement Benefits and Other	218,929	3,598	222,527	213,120
Total Liabilities	447,167	15,068	462,235	435,291
NET ASSETS				
Unrestricted	138,796	–	138,796	139,470
Temporarily Restricted	26,001	421,542	447,543	412,563
Permanently Restricted	66,983	72,500	139,483	134,769
Total Net Assets	231,780	494,042	725,822	686,802
Total Liabilities and Net Assets	$ 678,947	$ 509,110	$ 1,188,057	$ 1,122,093

Statement of Activities

	2012			2011
	ACS Programs	Petroleum Research Fund	Total	Total
REVENUES				
Electronic Services	$ 421,862	–	$ 421,862	$ 403,834
Net Assets Released from Restriction	8,438	20,483	28,921	26,485
Dues	12,277	–	12,277	12,294
Member Insurance Premiums, Refunds, and Fees	11,464	–	11,464	11,299
Registration Fees and Booth Sales	11,145	–	11,145	10,061
Advertising	9,217	–	9,217	8,945
Investment Income	8,613	53	8,666	10,008
Printed Services	7,135	–	7,135	8,846
Other	7,108	–	7,108	8,028
Total Unrestricted Revenues	497,259	20,536	517,795	499,800
EXPENSES				
Information Services	368,901	–	368,901	354,249
Member Programs and Services	46,391	–	46,391	42,152
Member Insurance Program	15,210	–	15,210	14,781
Grants and Awards	3,821	18,852	22,673	22,205
Administrative	37,913	1,684	39,597	38,157
Other	8,645	–	8,645	8,157
Total Expenses	480,881	20,536	501,417	479,701
Net Contribution	16,378	–	16,378	20,099
Net Investment Gains / (Losses)	31,568	–	31,568	(535)
Change in Pension Funding Status and Other	(48,620)	–	(48,620)	(50,016)
Change in Unrestricted Net Assets	(674)	–	(674)	(30,452)
Contributions	3,936	–	3,936	6,089
Investment Income and Net Investment Gains / (Losses)	9,374	55,324	64,698	(6,556)
Net Assets Released From Restriction	(8,438)	(20,483)	(28,921)	(26,485)
Other	131	(150)	(19)	880
Change in Restricted Net Assets	5,003	34,691	39,694	(26,072)
Change in Total Net Assets	4,329	34,691	39,020	(56,524)
Beginning Total Net Assets	227,451	459,351	686,802	743,326
Ending Total Net Assets	$ 231,780	$ 494,042	$ 725,822	$ 686,802

Allocation of Dues & Member Status

The American Chemical Society is a 501(c)3 non-profit organization with a multidisciplinary membership of more than 163,000 chemists and chemical engineers.

2012 Allocation of Dues

($ in Thousands)		
C&EN	$ 6,514	42%
Support for Society Programs	1,325	9%
Member Services	4,438	28%
Local Section Allotments	1,823	12%
Division Allotments	1,399	9%
Total	$ 15,499	100%

Excluding the impact of Local Section and Division Allotments, 2012 dues revenue totaled $12,277,000 as reported on the Financial Summary.

Membership Status*

Year-End 2012	
Emeritus Member	13,714
Regular Member	102,620
Regular Student Member	20,132
Undergraduate Student Member	18,294
Retired Member	5,561
Society Affiliate	993
Unemployed Member	2,008
Total	163,322

*Source: ACS Demographics

2012 Comprehensive Salary and Employment Survey

Workforce Members (regular members <70 years of age)

Highest Degree

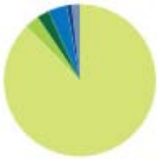
- 17% B.S
- 17% M.S.
- 66% Ph.D.

100% Total

Employment Type

- 56% Industry
- 35% Academic
- 7% Government
- 2% Self-employed

100% Total



Employment Status

- 87% Employed full-time
- 3% Employed part-time
- 3% Postdoc
- 4% Not Working Seeking
- 1% Not Working, Not Seeking
- 2% Retired

100% Total

Age

- 5% 20-29
- 23% 30-39
- 25% 40-49
- 31% 50-59
- 15% 60-69

99% Total

Sex

- 71% men
- 29% women

100% Total

2012 Division Year-End Membership Summary

Name	Total
Agricultural & Food Chemistry Division	3,095
Agrochemicals Division	1,177
Analytical Chemistry Division	8,229
Biochemical Technology Division	3,168
Biological Chemistry Division	7,381
Business Development & Management Division	961
Carbohydrate Chemistry Division	785
Catalysis Science and Technology Division	1,272
Cellulose & Renewable Materials Division	1,675
Chemical Education Division	5,335
Chemical Health & Safety Division	1,469
Chemical Information Division	978
Chemical Toxicology Division	1,389
Chemistry & the Law Division	1,266
Colloid & Surface Chemistry Division	2,548
Computers in Chemistry Division	2,299
Division of Energy and Fuels	2,723
Environmental Chemistry Division	4,874
Fluorine Chemistry Division	592
Geochemistry Division	817
History of Chemistry Division	740
Industrial & Engineering Chemistry Division	5,110
Inorganic Chemistry Division	6,314
Medicinal Chemistry Division	10,312
Nuclear Chemistry & Technology Division	1,023
Organic Chemistry Division	14,883
Physical Chemistry Division	5,803
Polymer Chemistry Division	4,846
Polymeric Materials Science & Engineering Division	4,257
Professional Relations Division	993
Small Chemical Businesses Division	593
Rubber Division	1,848
Total	108,755

ACS by the Numbers

The American Chemical Society achieved some significant milestones in 2012 and we are pleased to present a summary of some of the highlights. These selected accomplishments were achieved through a robust partnership of American Chemical Society members, governance and staff, often in partnership with other organizations. Go to http://www.acs.org/acshighlights to download the complete PDF.

6,219
ACS membership in 1912.

163,000 +
ACS membership as of Dec. 31, 2012.

30,000 +
Combined attendance at 2012 ACS National Meetings in San Diego and Philadelphia.

19,000 +
Number of papers submitted for those ACS National Meetings.

1,046
Presentations posted online after 2012 ACS National Meetings.

37,200 +
Unique visitors who viewed those presentations online.

96
Number of scientists inducted into the 2012 class of ACS Fellows during the Philadelphia National Meeting.

2,800 +
Job seekers who participated in ACS Career Fairs at National Meetings and in the ACS Virtual Career Fair online.

100
Number of employers recruiting applicants.

900
Job opportunities available.

178
Total number of ACS Petroleum Research Fund grants awarded in 2012.

2
Number of 2012 Nobel Laureates in Chemistry – Robert J. Lefkowitz and Brian K. Kobilka.

7,800 +
Number of ACS Chemistry Ambassadors by year-end.

19,000 +
News media stories generated by ACS press releases and social media activity in 2012.

12 billion
Combined unique visits to websites and circulation of newspapers and magazines that ran stories on ACS journal and National Meeting research in 2012.

1.5 million
Downloads/views of Office of Public Affairs videos and podcasts in 2012.

431
Number of economically disadvantaged high school students who participated in Project SEED in 2012.

19
Years since ACS inaugurated the ACS Scholars program.

2,400 +
Number of students from underrepresented backgrounds who have participated in ACS Scholars since 1995.

1,323
ACS Scholars who have earned at least a bachelor's degree in a chemical science.

1.4 million
Indexed records added to CAplus℠ in 2012.

74
Countries where SciFinder® is used.

38,000 +
Number of peer-reviewed articles published in ACS Journals in 2012.

80 million +
Journal articles downloaded by researchers from the ACS Web Editions Platform in 2012.

16
Number of subject categories in which ACS Journals rank #1 in total citations and/or ISI Impact Factor™ as reported in the 2011 Journal Citation Reports® from Thomson Reuters.

520
ACS-chartered high school chemistry clubs in 2012.

12
Percentage increase in the number of ACS-chartered chemistry clubs from 2010 to 2012.

4
Medals won – one gold, three silver – by the American team at the 44th International Chemistry Olympiad (IChO) in Washington, D.C. in July 2012. This was the first time that the U.S. and ACS hosted the event in 20 years.

2012 HIGHLIGHTS

$16.2 million +
Total funding awarded to 2012 ACS PRF grants.

26
Number of ACS PRF grantees who had one or more research grants and who have received the Nobel Prize.

$473 million +
Value of the ACS PRF Endowment at year-end.

8
Number of Herman Frasch Foundation for Chemical Research grants awarded in 2012 (awarded every five years).

3
Number of Teva Pharmaceuticals Scholars grants awarded in 2012 (awarded every three years).

$900,000
Total funding awarded to 2012 Teva Pharmaceuticals Scholars grants.

1
Number of Irving S. Sigal Postdoctoral Fellowships awarded in 2012 (awarded every other year).

$100,000
Total funding awarded to 2012 Irving S. Sigal Postdoctoral Fellowship.

147
Number of ACS Scholars who have earned doctorate degrees.

260,000
Members of the ACS Network, the premier online forum for chemists and other scientists to communicate and build professional connections.

14,000 +
ACS members who are in the Act4Chemistry network.

1,651
Messages sent by ACS members to Congress and other public policymakers in support of science issues through the Legislative Action Network.

900
Number of people who enrolled in ACS Leadership Development courses in 2012.

70 million
Chemical substances in the CAS REGISTRY℠ at the end of 2012.

64 million
Sequences in the CAS REGISTRY℠ at the end of 2012.

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

1,611
The number of schools converting to SciFinder® Academic Unlimited Access, providing students and faculty from all departments at these institutions with access to SciFinder® and the CAS database.

50,000 +
Registrants who participated in ACS Webinars in 2012.

15
Science & the Congress briefings conducted in 2012 on Capitol Hill and elsewhere to educate lawmakers and their staff about science issues.

1,500
The number of participants at Science & the Congress briefings.

75
Year anniversary of welcoming undergraduate students into ACS – more than 18,000 students and 1,040 chapters.

15,700
Bachelor's degrees earned by students in ACS-approved chemistry programs in 2009-2010, an all-time high.

25
States with National Historic Chemical Landmarks.

2012
The year when the most recent National Historic Chemical Landmarks were designated – DayGlo Flourescent Pigments and Legacy of Rachel Carson's *Silent Spring.*

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Marjorie Tess

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American Chemical Society Legacy Leaders are recognized for establishing a lasting legacy by including the American Chemical Society in their estates.

Anonymous (2)
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James D'Ianni*
Ernest* and Eva Eliel
Kenneth and Susan Fahrenholtz
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ACS acknowledges these donors who made contributions on prior years' pledges.

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