

A Year of Partnerships and Scientific Advancement

The American Chemical Society (ACS) had many notable achievements in 2013. This Annual Report highlights many of those accomplishments that serve our members and the broader scientific enterprise worldwide.

ACS President Marinda Li Wu's presidential theme -- Partners for Progress & Prosperity -- brought together a multitude of efforts to help ACS members advance their careers, build alliances between ACS and related societies worldwide, and promote the global practice of chemistry. President Wu and ACS believe that, as scientists and citizens of the same planet, we have both an opportunity and a social responsibility to work together on solving global challenges through chemistry.

A major effort in support of the theme was President Wu's Task Force Vision 2025: Helping ACS Members Thrive in the Global Chemistry Enterprise, which issued its final report and resulted in a number of follow-up activities in 2013 to strengthen member careers and enhance the global dimension of the ACS. The International Employment Initiative is one example. An ACS Symposium Book called "Vision 2025: How to Succeed in the Global Chemistry Enterprise" is now available [online](#) with more details.

Through its [Publications Division](#), [Chemical Abstracts Service](#), [National Meeting programs](#), and the [Petroleum Research Fund](#), ACS continues to be the most authoritative, comprehensive, and indispensable provider of chemistry-related information.

ACS Publications continues to expand its information offerings and published more than 39,000 articles across its portfolio of 44 peer-reviewed journals, 2.5 percent more than 2012. Our readers downloaded 83 million articles, and authors worldwide cited ACS journals more than 2.2 million times, an all-time high.

ACS journals are available worldwide in online and mobile formats, as well as in print. ACS Publications also publishes [Chemical & Engineering News](#) (*C&EN* – the Society's flagship news periodical covering the global chemical enterprise and related sciences. In 2013, *C&EN* celebrated 90 years of continuous publication since 1923.

[ACS ChemWorx](#), a new research management service, was introduced in 2013. It combines reference discovery and management, professional networking, group and task management, and manuscript preparation in a single interface, accessible from anywhere.

At the end of 2013 ACS Publications announced a multi-pronged strategy to position ACS as an open access publisher. It comprises 4 components: 1) *ACS Central Science*, a new journal that will be free to both readers and authors; 2) *ACS Editors' Choice*, designed to provide free public access to new research of importance to the global research community; 3) *ACS Author Rewards*, a loyalty program intended to encourage ACS authors to choose open access, via \$60 million in open access publishing credits redeemable over the period 2015–2017 and 4) *ACS AuthorChoice*, expanded in 2014 to include new and affordable licensing options to help authors meet open access requirements. The "[ACS is Open](#)" initiative is being promoted widely during 2013–2014.



Marinda Li Wu
President



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



Madeleine Jacobs
Executive Director
& CEO

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The CAS REGISTRYSM is the world's largest collection of chemical substance information. In November 2013, CAS celebrated registration of the 75 millionth substance.

The Chemical Abstracts Service added more than 1.5 million patents, journal articles and other disclosed research sources to its databases, for a new total of more than 38 million records. Updated daily, the CAS reaction database saw even greater gains, with growth exceeding 8 million new reactions, bringing the total to 70 million reactions now available to researchers.

The ACS Membership & Scientific Advancement Division (M&SA) partnered with CAS and Washington IT to launch a new SciFinder[®] benefit exclusively for ACS members. This major new member benefit allows 25 complimentary SciFinder activities for personal use, using the world's largest and most reliable chemistry-related databases through a single interface. This new benefit provides access to references from 63 patent authorities and more than 10,000 active scientific journals. More than 12,000 members have signed up for this valuable new member benefit.

The Society held two national meetings, which together attracted more than 19,000 papers and 26,000 participants. ACS also held eight regional meetings in 2013, drawing more than 3,600 papers and a combined attendance of nearly 6,000. To attract more students, M&SA developed a special "Fueled by ACS" campaign to help defer fuel costs, which earned ACS top awards in the 2013 Association TRENDS All-Media Contest.

At the 2013 ACS National Meetings, the prestigious 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 was launched in 2013 at the ACS National Meeting in New Orleans.

The Petroleum Research Fund provided more than \$18 million to support 198 grants in fundamental research and advanced education in petroleum and related fields.

The ACS Board of Directors approved establishing the American Association of Chemistry Teachers[™], which will provide K–12 teachers of chemistry with a professional home and access to specialized resources and the broader ACS community. The Association will launch in September 2014.

The uneven recovery of the global economy since the Great Recession and a divided federal government continued to seriously affect the chemistry enterprise. Job growth remained sluggish, and industrial layoffs in chemistry-related sectors continued.

However, ACS still ended 2013 with a positive net from core operations for the tenth consecutive year. You can review the Society's financial statements [here](#).

As the ACS Board of Directors looks forward it will be guided by the [ACS Strategic Plan for 2014 and Beyond](#). The plan has four strategic goals that will lead us to achieve our Vision, Improving people's lives through the transforming power of chemistry.

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ACS is 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.

We have developed innovative programs and made resources available to our global colleagues as our members' needs have changed. 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 chemistry enterprise to society. We believe that these efforts on behalf of our more than 161,000 members provide enormous benefits now and in the future.

With a solid record of achievement in 2013, it is clear why ACS is the "professional home" for chemists and chemical engineers.

International Engagement and Presence

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. In association with the [Office of International Activities](#) (OIA) is the indispensable resource that advises and helps the ACS, the chemistry community, and individual chemists to advance globally.

The [ACS International Center](#) had a very successful first year, attracting over 24,000 unique visitors and featuring opportunities in over 16 countries. The Center is web-based, featuring a host of curated online resources, professional content and funding opportunities from across the globe for internationally-minded chemists. The ACS IC achieved permanent reauthorization in 2013. The ACS IC contains significant content from many global stakeholders and now has 24 affiliate international funding organizations. These global networks enable ACS members and other scientists to keep apprised of international trends and information through a variety of social, physical and virtual channels—including monthly webinars and funding opportunities for educational exchange.

Two new alliances with sister chemical societies were formed and one was renewed. Memoranda of understanding were signed with the South African Chemical Institute (SACI) and the Latin American Federation of Chemical Associations (FLAQ). The alliance with the Chinese Chemical Society (CCS) was renewed. ACS also welcomed a new international chapter in Romania, bringing the total number of ACS International Chapters to six.

With \$198K in support from the U.S. Department of State, in February 2013 ACS International Activities conducted eight in-country, soft-skill workshops for young scientists, engineers, and technologists in Indonesia and Malaysia as part of the Building Opportunity Out of Science and Technology (BOOST) program. Over 700 young Malaysian and Indonesian STEM scientists participated in the coursework. Participants were invited to apply for a travel award to attend a subsequent Trainer Leadership Institute in August in Thailand, which worked with these individuals to tailor the courses to their own local contexts, thereby ensuring that Malaysian and Indonesian citizens can continue workshops for young STEM talents even after ACS' visits conclude. The 32 trainers are presently conducting training events throughout both countries.

Under the ACS Festival de Quimica program, 11 educational outreach events were organized in Colombia, Chile and Puerto Rico in 2013 to encourage and engage middle and high school students and other enthusiasts in chemistry through activities geared toward the impact of chemistry in their local communities. The events drew nearly 800 students volunteering and performing chemistry activities in their local communities and more than 14,000 participants overall.

The China value and engagement plan was developed and began implementation to expand ACS presence and the engagement of members and prospective members in China. The plan aspires to extend relevant ACS programs in China, and is informed by recent visits with multiple stakeholders in Shanghai, Hong Kong and Beijing—including the Chinese Chemical Society.

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The first ever summit of all six ACS international chapters (Shanghai, Saudi Arabia, Romania, Hong Kong, Thailand, and Hungary) took place at the ACS Meeting in Indianapolis to inform leaders of key ACS services, elicit their ideas on expanding the Society's global engagement and to help them develop strategic plans and reporting tools.

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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 2012 Journal Citation Reports® were released by Thomson Reuters in June 2013. ACS journals continued to perform extremely well, receiving more than 2.2 million total annual citations and posting a #1 ranking in either Impact Factor and/or Total Citations in 15 categories.

Five leading scientists were selected by Editor Search committees convened in accordance with ACS bylaws, appointed by the Board of Directors and contracted by ACS Publications management, commencing respective editorial tenures effective January 2014.

- Dr. Jillian Buriak (University of Alberta) *Chemistry of Materials*
- Dr. Cynthia J. Burrows (University of Utah) *Accounts of Chemical Research*
- Dr. Kenneth M. Merz, Jr. (Michigan State University) *Journal of Chemical Information and Modeling*
- Dr. Vincent M. Rotello (University of Massachusetts–Amherst) *Bioconjugate Chemistry*
- Dr. Phillip E. Savage (University of Michigan) *Industrial & Engineering Chemistry Research*

The Publications Division completed the first full calendar year of publication of *ACS Sustainable Chemistry & Engineering* and embarked upon the early editorial and marketing introduction of two new journals prior to their scheduled commercial availability in 2014 – *ACS Photonics* and *Environmental Science & Technology Letters*. Dr. Harry A. Atwater (California Institute of Technology) leads *ACS Photonics*. Drs. Jerald Schnoor (University of Iowa) and Bruce E. Logan (Pennsylvania State University) lead *Environmental Science & Technology Letters* as Editor and Deputy Editor, respectively.

The latest journals to secure Governing Board approval are in the areas of biomaterials science and engineering, and infectious diseases and therapeutics. Both are planned for introduction in 2015.

In November, ACS Publications announced a multi-pronged strategy to position ACS as an open access publisher. The program consists of 4 components: 1) *ACS Central Science*, a new journal that will be free to both readers and authors; 2) *ACS Editors' Choice*, designed to provide free public access to new research of importance to the global research community; 3) *ACS Author Rewards*, a loyalty program intended to encourage ACS authors to choose open access, via \$60 million in open access publishing credits redeemable over the period 2015–2017; and 4) *ACS AuthorChoice*, expanded in 2014 to include new and affordable licensing options to help authors meet open access requirements. Full information about the “ACS is Open” is [here](#).

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ACS Publications introduced *ACS ChemWorx* as a novel new free service for research management that combines reference discovery and management, professional networking, group and task management and manuscript preparation in a single interface, accessible from anywhere. *ACS ChemWorx* includes a Publishing Center developed and hosted by ACS, and is integrated with the ACS Web Editions Platform for journal content delivery, by virtue of a new document viewer, ACS ActiveView PDF, that has proven to be very popular with end users. The ActiveView PDF display format for ACS articles provides a means of interacting with Reference Quick View, for annotation of the article, and for storage in a user's *ACS ChemWorx* library. Since the introduction of the feature inside *ACS ChemWorx*, more than 3 million article views have occurred through ActiveView PDF. Two thirds of visits to *ACS ChemWorx* have originated outside of the USA, consistent with ACS Publications' global audience of authors and readers.

The Web Editions platform saw record web usage in 2013, delivering 83 million full text article downloads. The platform now provides 137 million free abstract views a year to over 21 million unique visitors. Unique ACS ID registrants logging into the ACS Publications platform totaled over 267,000 in 2013. The ACS Mobile app—available on both Android and iOS devices—has been downloaded over 57,000 times since it was first introduced in 2010.

ACS Publications continued to serve an expanding customer base in Asia, South America, Europe, and the Middle East. Contingents of ACS editors and Publications staff made extended editorial outreach visits to India and China, where they met with scientists and students to discuss emerging trends in chemical science and the publication of scientific research in ACS journals.

ACS Publications led and participated in 30 ACS on Campus events held both in the U.S. and around the globe. These cross-divisional events, coordinated with Membership & Scientific Advancement, Chemical Abstracts Service, Education, Office of Public Affairs and Petroleum Research Fund, provide important venues to showcase the Society's diverse offerings of programs and services, and serve as an important outreach method in strengthening our relationships with librarians, chemistry faculty and students, and in building ties with current and prospective authors and ACS members.

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ACS Publications – C&EN

In 2013, *Chemical & Engineering News* celebrated 90 years of continuous publication. Each week *C&EN* posted images and memorable quotations from past issues in a Tumblr blog called The Watch Glass. This feature was a finalist, along with *Glamour* and *Entertainment Weekly*, in the 2013 Folio Awards for Best Use of Social Media, Tumblr Category. Each month *C&EN* devoted an editor's page to a reexamination of past coverage, as gleaned from *C&EN* Archives. A special issue, published on Sept. 9, highlighted nine ways that chemistry changed the world: chemical bonding, plastics, antibiotics, nanotechnology, catalysis, molecular biology, analytical instrumentation, computational chemistry, and environmental awareness. The 90th Anniversary Celebration reached a climax with two live events at the ACS National Meeting in Indianapolis – which included a performance by celebrity chef and award-winning author Alton Brown.

C&EN also co-organized the "Everyday Chemistry" video contest, an interdepartmental collaboration conducted as part of the magazine's 90th anniversary celebration and the 246th ACS National Meeting and Exposition to encourage chemists globally to communicate the value of chemistry to the public. The contest received 32 video submissions from three countries. The winning video, by ACS member Sally Mitchell, was promoted by *C&EN* in print and online, and through the ACS Office of Public Affairs' Bytesize Science video channel and a press release. Coverage of the winning video ranged from the New York Times' Twitter feed to Dr. Mitchell's local ABC television affiliate in Syracuse, N.Y. All contestants were recognized by ACS as Chemistry Ambassadors for helping to communicate the value of chemistry to general audiences.

Under the leadership of Editor-In-Chief Maureen Rouhi, *C&EN* completed a strategic plan for the period 2013–17, which was approved by the ACS Governing Board for Publishing. As part of the early implementation of the plan, *C&EN* welcomed the arrival of Dr. Kevin Davies in the newly created position of *C&EN* Publisher. He will explore the expansion of *C&EN* into new brand-extending initiatives.

C&EN's digital delivery initiatives continue to advance. Total life-to-date downloads for all *C&EN* Mobile versions topped 30,000 in 2013. *C&EN*'s mobile app for Android, *C&EN* Mobile Optimum, was upgraded with new features – it now offers a new interface, more efficient content loading and response times, a focus on Latest News, and improved user performance. Page views of *C&EN Online* increased to nearly 7 million in 2013. *C&EN* also made use of social media outlets in 2013 – in particular, Reddit, Twitter and Facebook. *C&EN*'s Twitter feed (@cenmag) now has well over 11,000 followers who read, share, and interact with *C&EN* via this channel. Traffic to *C&EN*'s Facebook page and YouTube channel also continued to grow. The *C&EN Archives* received almost 130,000 page views in 2013, a significant increase from 2012.

CENtral Science hosted the #chemsummer blog carnival, inviting participants to submit posts about the chemistry of summer fun (fireworks, pools, sunscreen, etc.). One of the highlights of the carnival was a post by Lauren Wolf, one of *CENtral Science*'s Newsprints contributors. Lauren brought chemistry to the public by discussing urine, its composition, and its effects on the ocean. Her piece was featured on Gizmodo and mentioned by outlets such as *Popular Science*. It also received more than 13,000 page views (the network's most popular for the year), was featured in *Nature Chemistry*'s "Top Chemistry Blog Posts of 2013," and will be reprinted in an upcoming issue of *Delaware Beach*

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Life" magazine. *C&EN* held its first Google+ Hangout, "Countdown to the Chemistry Nobel Prize!" in 2013. The event featured guest panelists discussing candidates and research that might take chemistry's top prize. The "Hangout" received multiple playbacks and chats on Twitter.

As a means of broadening the reach of *C&EN* and offering a sample of ACS member benefits, *C&EN* continued to offer subscriptions for non-member chemists to purchase sample access to the *C&EN* website for 30 days. *C&EN*'s Journal News & Community group continued to be active in 2013. The group produced over 170 stories in 2013, for posting on various sections of the ACS Publications Division website. The group also significantly increased the diversity of journals covered, with stories from more than half of ACS journals. Stories produced by the Journal News & Community group in 2013 received over 900,000 page views, and much of the group's traffic came as a result of *C&EN*'s social media promotion efforts on Slashdot and Reddit.

Chemical Abstracts Service (CAS)

CAS — the World's Authority for Chemical Information

Regarded as the world's authority for chemical information, CAS is the only organization in the world whose objective is to find, collect and organize all publicly disclosed substance information. A team of scientists worldwide curates and controls the quality of CAS databases, which are recognized as the most comprehensive and authoritative by chemical and pharmaceutical companies, universities, government organizations and patent offices around the world. By combining these databases with advanced search and analysis technologies ([SciFinder®](#) and [STN®](#)), CAS delivers the most current, complete, secure and interlinked digital information environment for scientific discovery.

In 2013, 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 38 million records. Updated daily, the CAS reaction database saw even greater gains, with growth exceeding 8 million new reactions, bringing the total to 70 million reactions 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 explore the largest collection of disclosed chemical synthesis information from 1840 to the present, including more than 25,000 reactions added in 2013 from Wiley. CAS also added thousands of experimental procedures from Springer and Thieme Publishing Group, now providing access to more than 5 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. CAS has more reactions and experimental procedures than any other single source.

The CAS REGISTRYSM is the world's largest collection of chemical substance information. In November 2013, CAS celebrated registration of the 75 millionth substance in the CAS REGISTRY. In addition to covering substances from journals and patents, CAS REGISTRY includes substances from chemical catalogs, worldwide governmental regulatory agencies and reputable web resources. By year-end, the CAS REGISTRY contained more than 78 million substances in total. The CAS REGISTRY also contains more than 65 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 CAS web site home page (www.cas.org). This growth has been complemented by CAS's expanding coverage of predicted and experimental property values, spectra, and data tags, which totaled more than 4 billion by year-end. Included are more than 22,000 experimental heteroatom NMR spectra added in 2013.

In total, CAS covers 63 patent authorities worldwide 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 added patent front page graphics from the U.S., Korean, Japanese, Chinese, European and World Patent Offices and expanded Patent Kind Code coverage for Brazil, Philippines, Romania and Switzerland. Another important content initiative added more than 45,000 records from the Inventory of Existing Chemical Substances in China, bringing CAS's coverage of regulated chemicals to more than 300,000 substances from 14 national inventories.

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SciFinder Helps Scientists Find the most Relevant Information for their Research

CAS introduced a new, streamlined design for SciFinder in 2013 to help users be more efficient than ever. New graphical content and the redesigned interface enable fast, accurate review of results and one-click access to powerful SciFinder search features. CAS also introduced a new structure editor that does not require a Java plugin, with import options now available on all pages featuring the CAS structure editor.

Other key SciFinder enhancements for 2013 included:

- A new default Analyze option for reaction searching lists all reagents contained in the current answer set.
- Quick View was added to commercial source answer sets to allow users to quickly view details related to a select substance with supply information still in view.
- Hyperlinks were added to many top catalogs listed in commercial sources.
- SciPlanner how-to guides were updated with advanced features and functionality.
- More than 27,000 biological synonyms were added to improve comprehensiveness of Research Topic Explore searches.
- Full-text PDFs are now available for U.S. patents.

CAS also introduced a range of Application Program Interface (API) capabilities for SciFinder designed to streamline researchers' workflows. CAS worked with several customers to develop API support for reaction, substance, and reference searching. The initial integration was with Vertex Pharmaceuticals, a global biotechnology company based in Cambridge, Massachusetts.

ACS ChemWorx, introduced in March 2013, includes the ability to explore referenced abstracts via SciFinder.

ACS members can now access SciFinder as part of the new ACS Member SciFinder Benefit. More than 14,000 members have opted to take advantage of complimentary access to SciFinder in 2013.

In December, an exciting new collaboration was announced with PerkinElmer to combine the power of two leading chemistry solutions: SciFinder and ChemBioDraw®. New functionality is being developed to enable a ChemBioDraw user to directly initiate a search in SciFinder, providing access to comprehensive content available in the CAS databases. The solution, which will enhance the efficiency of researchers' workflows, will be available early in 2014.

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Organizations around the globe rely on SciFinder for accurate, timely chemistry and related information. Customers around the world continued to commit to SciFinder as their choice for chemistry research, and CAS announced a five-year agreement that makes SciFinder available to researchers in the Czech Consortium, a regional consortium of schools outside Prague. Kalexsyn, a U.S.-based Contract Research Organization, also signed a multi-year contract to offer unlimited SciFinder access to its researchers.

CAS was pleased to welcome 17 students and postdocs to participate in the 4th annual prestigious SciFinder Future Leaders in Chemistry program in 2013. Participants, chosen from 40 countries and more than 160 universities worldwide, were selected from a pool of candidates whose research interests spanned the scientific spectrum, including synthetic chemistry, materials science, nanotechnology, biology and other disciplines demonstrating the breadth of information relied-upon in SciFinder. The group attended the ACS National Meeting and Exposition in Indianapolis in September, providing opportunities to exchange ideas and network with peer scientists from around the world.

Launch of Version One of new STN Begins New Era in IP Searching

CAS, along with its partner FIZ Karlsruhe, introduced Version One of new STN in July. Version One of the new STN platform delivers core STN content including the complete CAS REGISTRY and CPlusSM content along with Thomson Reuters' Derwent World Patent Index® (DWPI), and the Derwent Chemistry Resource (DCR). Proprietary search technology offers new features that allow for STN's unique content offering to be explored in new ways. With its advanced design, STN's intuitive user interface is oriented toward the work processes of patent specialists. Users can manage their search strategies and results in dedicated "projects," which enable search professionals to organize and efficiently work on numerous projects concurrently. Specific emphasis has been placed on workflow. The user interface has been designed to show search query, history, and results at a glance while highlighting the most relevant answer sets. The greatly increased search capacity allows for completely new approaches to searching and results evaluation.

Other enhancements assured valuable access to patent information for STN classic users, including:

- A new pharmacovigilance (PV) cluster simplifies PV alerting and searching.
- The addition of IFIALL, a comprehensive bibliographic U.S. patent database, consolidated information for more efficient retrieval of U.S. patent records.
- INFULL added full-text Indian patent applications and granted patents in English to STN.

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Manuel S. Guzman Appointed President of the American Chemical Society's CAS Division

In September, Manuel S. (Manny) Guzman joined CAS as President, succeeding Robert J. Massie, who led CAS for more than 21 years and is retiring at the end of March 2014. Prior to his appointment as CAS President, Guzman was Executive Vice President of Learning and Research Solutions and International at Cengage Learning, a leading provider of innovative teaching, learning, and research solutions for academic, professional, and library markets worldwide.

Careers & Professional Advancement

The Division of Membership & Scientific Advancement (M&SA) continues to offer 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. In 2013, SciMind launched another new topic, Toxicology for the Scientist, with over 100 learning elements to give R&D chemists the skills and knowledge to improve product safety and protect human health.

ACS Short Courses continue to provide the training scientists value and use in their careers. Based on post-course surveys conducted in 2013, the following findings back up this assertion. Ninety-four percent (94%) of respondents agreed or strongly agreed the content improved their knowledge of the subject, ninety-three percent (93%) indicated the information they learned at the ACS Short Course will help in their career, ninety-two percent (92%) noted the technical level of the content was appropriate, and ninety percent (90%) replied the course aligned well with their areas of interest.

ACS ProSpectives co-hosted an *International Symposium on Pharmaceutical Solid-State Research* with Crystal Pharmatech in Suzhou, China. The event was a great success, providing cutting-edge knowledge in the solid-state and material science areas to more than 100 participants from 38 major pharmaceutical and biotech companies, as well as 10 universities. The ACS Leadership Development System® (ACS LDS) offers ACS members and potential members the opportunity to learn essential skills to strengthen their competitive edge in today's global economy. Over 1,000 participants enrolled in 66 courses—both new records—that were held at local sections, divisions, regional and national meetings, and internationally. In addition to providing leadership skills training for individuals, the ACS LDS conducted nine Strategic Planning Retreats for ACS subunit groups. The ACS Leadership Advisory Board hosted the 2013 ACS Leadership Institute in Dallas. Nearly 350 volunteers, governance leaders and staff participated in this annual event in 2013.

ACS launched a new workshop series called "Career Pathways." The six workshops include Finding Your Pathway, Working in Higher Education, Working in Industry, Working in Government, Working for Yourself and Acing the Interview. The Career Pathways program offers workshops at national and regional meetings. They provide an opportunity to delve further into careers of interest and conduct a more personalized assessment of an individual's skills and values.

ACS enhanced its Online Jobs Club program in 2013 to help displaced workers. Long-term unemployed members in particular gained new tools, leads, and insights from colleagues on job search and employment issues. These clubs met regularly through web-based communication.

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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 2013, 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 High School Chemistry Club Program, established in 2005 with 15 clubs, now has more than 559 clubs across the United States and Puerto Rico. During 2013, ACS High School Chemistry Clubs participated in the Coins for Cleaner Water Initiative (in collaboration with the ACS Office of Local Section Activities). Over \$10,000 was raised by ACS High School Chemistry Clubs, surpassing the initial goal of \$5,000.

The [website](#) was nominated for a Webby Award. These awards are presented by the International Academy of Digital Arts & Sciences to recognize the top education websites in the world. In its category, *Middle School Chemistry* was nominated alongside such high-profile organizations as TED-ed and Google Chrome Web Lab. Since launching, the site has received over 2.2 million visits from 222 countries and territories. The book has been downloaded over 12,000 times.

The April 2013 issue of ChemMatters (with two NASA-sponsored articles) was submitted for NASA science education product review. This independent peer review helps to ensure that education products distributed by NASA are of high quality and meet rigorous standards. The review resulted in four outstanding ratings and one very good rating. With these strong ratings, the panel recommended ChemMatters articles for distribution through the many NASA outreach channels. Additionally, ChemMatters received two Awards for Publication Excellence (APEX) in 2013. The December 2012 issue received an APEX award for magazine design and layout, and the February 2013 issue received an APEX award for magazine writing. The APEX awards are sponsored by Communications Concepts, Inc., a company that advises publishing, public relations, and marketing professionals on best practices.

The ACS Science Coaches program encourages chemists to assist teachers on an on-going basis throughout the school year. In 2013, 168 chemist-teacher partnerships were accepted into the ACS Science Coaches program. They were spread over 39 states, Puerto Rico, and the District of Columbia.

The number of undergraduate student chapters has grown to 1,060, with more than 19,000 members.

A new College to Career website launched this year aimed at helping undergraduates explore chemistry-related career options. The initial launch included 35 career descriptions, 68 individual career profiles, and advice and guidance on how to achieve career goals.

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A total of \$20,750 was distributed in a new student chapter grant program, the Inter Chapter Relations grant. It promotes activities between chapters and between chapters and local sections. Student chapters at 30 four-year institutions and 4 two-year institutions received the grant, and 15 local sections pledged their support.

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 an all-time high of 38 internships in summer 2013. Every SCI scholar selects a high school chemistry teacher to receive recognition and a \$1,000 award.

One of the most successful Education 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, over 1,400 have earned bachelor's degrees in a chemical science and over 40 percent have entered the chemical science workforce, many with advanced degrees. More than 180 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 2013, a record number of volunteer scientists and coordinators—493 mentored 442 students, in nearly 150 institutions in 36 states, the District of Columbia, and Puerto Rico.

For the 2013–2014 school year, the Project SEED Scholarship Subcommittee awarded 28 Project SEED College Scholarships, totaling \$140,000, to former SEED students for their freshman year. In addition, three new renewable Ciba Specialty Chemicals scholarships (\$5,000/year) were awarded for the 2013–2016 academic years.

Communicating the Value of Our Science

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

In 2013 news about chemistry from ACS journals, *Chemical & Engineering News* and national meetings reached the public in record numbers. Independent monitoring data for 2013 shows that ACS-generated publicity resulted in more than 23,000 news media articles, a significant increase from 2012, resulting in potential readership or viewership of billions. These include stories from media outlets such as *Time*, *The New York Times*, *The Washington Post*, *The Wall Street Journal*, *Yahoo! News*, *Scientific American*, *the Associated Press*, *NPR*, *PBS*, *ABC News*, *Huffington Post*, *U.S. News & World Report*, *The Economist* and *Science*. Science Communications staff publicized this research by issuing press releases (including the weekly ACS PressPac), holding press conferences, blogging and tweeting.

The award-winning ACS Productions team (formerly Digital Services) produced more than 350 videos in 2013 for Office of Public Affairs and other ACS divisions. These videos were viewed more than 2 million times last year. They include popular *YouTube* series like *Bytesize Science* (renamed *ACS Reactions in 2014*), broadcast-quality promotional videos for ACS Publications and collaborations with sister scientific societies like the American Institute of Physics' *Inside Science* TV series.

Bytesize Science (now *Reactions*), the ACS' most popular ongoing series, uncovers chemistry's role in everyday life with episodes on the chemistry of alchemy, chocolate, hangovers and more. In 2013, an episode on the "Periodic Table Table," an actual table filled with samples of every element available (at least the stable, non-radioactive ones), received awards and recognition from eight international film festivals. The series has been featured on *NPR*, in *Wired*, *Time*, and *The Washington Post*, among many others, and is available [here](#).

In 2013, the *Bytesize Science* series became one of the most popular *YouTube* channels ever launched by a scientific organization. The channel now has more *YouTube* subscribers and/or views than channels belonging to the Royal Society of Chemistry, Environmental Protection Agency, National Science Foundation, and other large scientific organizations.

Under the banner of ACS Chemistry Ambassadors, our members are encouraged to be compelling spokespersons and advocates for their profession. During 2013 they took ACS scholarship information to teachers and guidance counselors; talked to elected officials about why funding for research matters; visited schools and scouts with ACS Kids and Chemistry kits; and they had a great answer ready for the inevitable "So what kind of work do you do?" question at family reunions, backyard barbecues, and in countless plane trips all around the globe. 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.

Following a 2013 recruitment campaign, the number of ACS Chemistry Ambassadors topped 10,000 at year-end, marking a 27 percent increase over membership at the start of the year. New recruits included Science Coaches, National Chemistry Week volunteers, Student Chapter and ChemClub advisors, and local section public relations chairs, among others.

Annual Report 2013

PROGRAM HIGHLIGHTS

The long-running Science & the Congress program that provides information about the role of science and technology in public policy issues also achieved a milestone in 2013, holding the 200th briefing since the program began in 1995. Aimed at elected officials, congressional staffers and D.C.-based thought leaders, Science and the Congress held nine briefings in 2013. Together, they featured 41 panelists and drew a collective audience of nearly 750 Hill staff, federal officials, and other policy stakeholders. Topics included STEM education, big data, energy, synthetic biology, biodiversity, extreme weather, space technology, electronic waste, and technology transfer.

ACS launched the ACS Experts Program in 2013. Less than three months after the inaugural class of 20 ACS Experts was selected and trained in September, 17 of them were engaged in speaking to news media, policymakers, students and educators about the role of chemistry in our world. The 20 Experts were recruited to serve as spokespersons in their respective fields, to be part of public dialog about jobs and innovation, STEM education, green chemistry, and other topics of national interest that involve chemists and chemistry. By year-end, they had 29 interactions with the news media and other public audiences, resulting in three op-eds, two TV appearances, a radio interview, and several newspaper and magazine items. They also delivered talks to students and to a Washington, D.C.-area gathering of community leaders and politicians about the need to invest in STEM education.

In 2013, ACS and its members celebrated National Chemistry Week (NCW) with the theme "Energy: Now and Forever!" Thousands of families and children of all ages celebrated with our members through hands-on activities for the public, contests, experiments, puzzles, online and printed publications, and various lectures and seminars. 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.

The "Sparkle" communication workshop was offered again in 2013, for members interested in serving as public relations (PR) chairs for their local sections, divisions and student chapters, bringing the total number of trained PR chairs in office to 99.

These volunteers learned how to write news releases that will get coverage, how to work effectively with the news media, and how to "speak simply" about chemistry in order to increase community awareness of the important activities of the local section, division, student chapter and their fellow members. "Share Chemistry! Spark a Reaction!"

In 2013 the National Historic Chemical Landmarks (NHCL) program recognized three subjects of importance in the history of chemistry with public events at the Mellon Institute of Industrial Research at Carnegie Mellon University, the Purdue University Wetherill Laboratory of Chemistry, and the USDA ARS Western Regional Research Center. The program reached more than 250,000 unique visitors through its [website](#), and others through articles in general press and local section media.

Financial Highlights

Despite challenging economic conditions, the American Chemical Society (ACS) ended 2013 with solid operating results. As noted in the accompanying financial summary, the ACS generated a net contribution of \$16.9 million. The 2013 financial results represent the tenth consecutive year of positive net contribution. The Society's strong operating performance was attributable to a combination of positive financial performance from the information services divisions and a continued emphasis on expense management across all operating units.

In addition to the positive operating results, the Society's financial position improved significantly in 2013 with unrestricted net assets increasing from \$111.9 million as of December 31, 2012, to \$250.7 million at December 31, 2013. The improvement is attributed to a combination of the net contribution, investment gains, and a partial reversal of non-cash accounting charges recorded in previous years related to the Society's underfunded postretirement benefit plans.

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, in 2013, ACS added 8 million new small molecules to the CAS REGISTRYSM, indexed more than 1.5 million articles and patents, and added more than 8 million reactions to CASREACT[®]. SciFinder introduced a new, streamlined design to enable fast, accurate review of results and one-click access to powerful SciFinder search features, and the second version of the new STN[®], powered by the Search Engine of Tomorrow (SPOT), was made available to customers. ACS Publications undertook the first full calendar year of publication of a new title: *ACS Sustainable Chemistry & Engineering* and announced a major new commitment to support Open Access. The program consists of 4 components: 1) ACS Central Science, a new journal that will be free to both readers and authors; 2) ACS Editors' Choice, designed to provide free public access to new research of importance to the global research community; 3) ACS Author Rewards, a loyalty program intended to encourage ACS authors to choose open access, via \$60 million in open access publishing credits redeemable over the period 2015–2016; and 4) ACS AuthorChoice, expanded in 2014 to include new and affordable licensing options to help authors meet open access requirements. ACS journals continued their preeminence in citations and Impact Factors, receiving more than 2.2 million total citations and posting a #1 ranking in either Impact Factor and/or Total Citations across 15 subject categories as reported in the 2012 Journal Citation Reports[®] released in June 2013.

Looking ahead, the Society intends to vigorously pursue the goals set out in its *Strategic Plan for 2014 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. This includes expanding the Society's global reach and creating more integration between the products and service offerings. In this way, ACS will enhance the Society's value and relevance to its diverse stakeholders, including members, educators, public policy makers, customers and other chemistry professionals.

To access ACS audited financial statements and IRS Form 990 filings, visit the ACS website at www.acs.org. Click the About Us tab, scroll down and click on the link to ACS Financial Information, or [click here](#).

Annual Report 2013
FINANCIALS

Allocation of Dues & Member Status

The American Chemical Society is a 501(c)3 non-profit organization with a multidisciplinary membership of more than 161,000 chemists and chemical engineers.

| 2013 Allocation of Dues | | |
|------------------------------|------------------|-------------|
| (\$ in Thousands) | | |
| <i>C&EN</i> | \$ 6,440 | 42% |
| Support for Society Programs | 895 | 6% |
| Member Services | 4,623 | 31% |
| Local Section Allotments | 1,846 | 12% |
| Division Allotments | 1,396 | 9% |
| Total | \$ 15,200 | 100% |

Excluding the impact of Local Section and Division Allotments, 2013 dues revenue totaled \$11,958,000 as reported on the [Financial Summary](#).

| Membership Status* | |
|------------------------------|----------------|
| Year-End 2013 | |
| Emeritus Member | 13,944 |
| Regular Member | 99,710 |
| Regular Student Member | 20,214 |
| Undergraduate Student Member | 19,144 |
| Retired Member | 5,505 |
| Society Affiliate | 951 |
| Unemployed Member | 1,672 |
| Total | 161,140 |

*Source: ACS Demographics

| 2013 Division Year-End Membership Summary | |
|--|----------------|
| Name | Total |
| Agricultural & Food Chemistry Division | 2,965 |
| Agrochemicals Division | 1,176 |
| Analytical Chemistry Division | 7,589 |
| Biochemical Technology Division | 2,910 |
| Biological Chemistry Division | 6,714 |
| Business Development & Management Division | 928 |
| Carbohydrate Chemistry Division | 779 |
| Catalysis Science and Technology Division | 2,064 |
| Cellulose & Renewable Materials Division | 1,917 |
| Chemical Education Division | 5,068 |
| Chemical Health & Safety Division | 1,262 |
| Chemical Information Division | 891 |
| Chemical Toxicology Division | 1,334 |
| Chemistry & the Law Division | 1,192 |
| Colloid & Surface Chemistry Division | 2,461 |
| Computers in Chemistry Division | 2,180 |
| Division of Energy and Fuels | 2,709 |
| Environmental Chemistry Division | 4,598 |
| Fluorine Chemistry Division | 541 |
| Geochemistry Division | 801 |
| History of Chemistry Division | 643 |
| Industrial & Engineering Chemistry Division | 4,818 |
| Inorganic Chemistry Division | 5,808 |
| Medicinal Chemistry Division | 9,400 |
| Nuclear Chemistry & Technology Division | 965 |
| Organic Chemistry Division | 13,662 |
| Physical Chemistry Division | 5,310 |
| Polymer Chemistry Division | 4,314 |
| Polymeric Materials Science & Engineering Division | 4,033 |
| Professional Relations Division | 798 |
| Small Chemical Businesses Division | 603 |
| | 100,433 |
| Rubber Division | 1,877 |
| Total | 102,310 |

ACS by the Numbers

The American Chemical Society achieved some significant milestones in 2013 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.

6,673

ACS membership in 1913.

161,000 +

ACS membership as of Dec. 31, 2013.

90Year anniversary of continuous publishing of *Chemical and Engineering News* — C&EN.**26,000 +**

Combined attendance at 2013 ACS National Meetings in New Orleans and Indianapolis.

19,000 +

Number of papers submitted for those ACS National Meetings.

96

Number of scientists inducted into the 2013 class of ACS Fellows during the New Orleans National Meeting.

2,250 +

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

86

Number of employers recruiting applicants.

586

Job opportunities available.

25

Complimentary SciFinder® activities as a new member benefit allows the use of the world's largest and most reliable chemistry-related databases.

100

Complimentary activities from SciFinder® are available to our unemployed members.

198

Total number of ACS Petroleum Research Fund grants awarded in 2013.

\$18 million +

Total funding awarded to 2013 ACS PRF grantees.

27

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

\$532 million +

Value of the ACS PRF endowment at year-end.

3

Number of 2013 Nobel Laureates in Chemistry – Martin Karplus, Ph.D., Michael Levitt, Ph.D., and Arieh Warshel, Ph.D.

10,000 +

Number of ACS Chemistry Ambassadors by year-end.

23,000 +

News media stories generated by ACS press releases and social media activity in 2013.

12 billion +

Combined unique visits to websites and circulation of newspapers and magazines that ran stories on ACS journals and National Meeting research in 2013.

2 million +

Downloads/views of Office of Public Affairs videos and podcasts in 2013.

442

Number of economically disadvantaged high school students who participated in Project SEED in 2013.

493

Volunteer scientists and coordinators mentored these Project Seed students.

19

Years since ACS inaugurated the ACS Scholars program.

2,500 +

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

1,400

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

1.4 million+Indexed records added to CAPLUSSM in 2013.**77**

Countries where SciFinder® is used.

78 millionChemical substances in the CAS REGISTRYSM at the end of 2013.**65 million**Sequences in the CAS REGISTRYSM at the end of 2013.

Annual Report 2013

2013 HIGHLIGHTS

57 million

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

39,000 +

Number of peer-reviewed articles published in ACS Journals in 2013.

15

Number of subject 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.

566

ACS-chartered high school chemistry clubs in 2013.

15+

Percentage increase in the number of ACS-chartered chemistry clubs from 2012 to 2013.

4

Medals won – two gold, two silver – by the American team at the 46th International Chemistry Olympiad (IChO) in Moscow, Russia, in July 2013.

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BOARD OF DIRECTORS & OFFICERS 2013

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