

Annual Report 2013

PROGRAM HIGHLIGHTS

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.

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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 barbeques, 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.

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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

Financial Summary

(\$ in Thousands)

Statement of Financial Position

| | 2013 | | | 2012 |
|--|-------------------|-------------------------|---------------------|---------------------|
| | ACS Programs | Petroleum Research Fund | Total | Total |
| ASSETS | | | | |
| Cash and Cash Equivalents | \$ 23,173 | \$ 14,496 | \$ 37,669 | \$ 86,601 |
| Accounts and Pledges Receivable, Net | 107,634 | - | 107,634 | 106,091 |
| Inventories | 2,114 | - | 2,114 | 1,953 |
| Investments | 483,689 | 531,915 | 1,015,604 | 863,085 |
| Interfund (Payable) Receivable | (13,466) | 13,466 | - | - |
| Other | 20,826 | 30 | 20,856 | 20,860 |
| Buildings, Land, and Other Property, Net | 107,570 | 12 | 107,582 | 109,467 |
| Total Assets | \$ 731,540 | \$ 559,919 | \$ 1,291,459 | \$ 1,188,057 |
| LIABILITIES AND NET ASSETS | | | | |
| LIABILITIES | | | | |
| Accrued Expenses and Accounts Payable | \$ 67,442 | \$ 12,158 | \$ 79,600 | \$ 75,828 |
| Deferred Revenues | 168,134 | - | 168,134 | 161,449 |
| Short and Long-Term Debt | 1,660 | - | 1,660 | 2,431 |
| Postretirement Benefits and Other | 141,712 | 4,489 | 146,201 | 222,527 |
| Total Liabilities | 378,948 | 16,647 | 395,595 | 462,235 |
| NET ASSETS | | | | |
| Unrestricted | 250,730 | - | 250,730 | 138,796 |
| Temporarily Restricted | 28,431 | 470,772 | 499,203 | 447,543 |
| Permanently Restricted | 73,431 | 72,500 | 145,931 | 139,483 |
| Total Net Assets | 352,592 | 543,272 | 895,864 | 725,822 |
| Total Liabilities and Net Assets | \$ 731,540 | \$ 559,919 | \$ 1,291,459 | \$ 1,188,057 |

Statement of Activities

| | 2013 | | | 2012 |
|--|-------------------|-------------------------|-------------------|-------------------|
| | ACS Programs | Petroleum Research Fund | Total | Total |
| REVENUES | | | | |
| Electronic Services | \$ 429,988 | - | \$ 429,988 | \$ 421,862 |
| Member Insurance Premiums, Refunds, and Fees | 15,310 | - | 15,310 | 11,464 |
| Dues | 11,958 | - | 11,958 | 12,277 |
| Registration Fees and Booth Sales | 9,745 | - | 9,745 | 11,145 |
| Advertising | 7,947 | - | 7,947 | 9,217 |
| Printed Services | 6,651 | - | 6,651 | 7,135 |
| Investment Income | 6,609 | 75 | 6,684 | 8,666 |
| Net Assets Released from Restriction | 5,499 | 22,196 | 27,695 | 28,921 |
| Other | 6,660 | - | 6,660 | 7,108 |
| Total Unrestricted Revenues | 500,367 | 22,271 | 522,638 | 517,795 |
| EXPENSES | | | | |
| Information Services | 373,599 | - | 373,599 | 368,901 |
| Member Programs and Services | 46,029 | - | 46,029 | 46,391 |
| Member Insurance Program | 15,300 | - | 15,300 | 15,210 |
| Grants and Awards | 2,840 | 20,593 | 23,433 | 22,673 |
| Administrative | 37,523 | 1,678 | 39,201 | 39,597 |
| Other | 8,195 | - | 8,195 | 8,645 |
| Total Expenses | 483,486 | 22,271 | 505,757 | 501,417 |
| Net Contribution | 16,881 | - | 16,881 | 16,378 |
| Net Investment Gains | 34,107 | - | 34,107 | 31,568 |
| Change in Pension Funding Status and Other | 60,946 | - | 60,946 | (48,620) |
| Change in Unrestricted Net Assets | 111,934 | - | 111,934 | (674) |
| Contributions | 3,528 | - | 3,528 | 3,936 |
| Investment Income and Net Investment Gains | 9,928 | 72,376 | 82,304 | 64,698 |
| Net Assets Released From Restriction | (5,499) | (22,196) | (27,695) | (28,921) |
| Other | 921 | (950) | (29) | (19) |
| Change in Restricted Net Assets | 8,878 | 49,230 | 58,108 | 39,694 |
| Change in Total Net Assets | 120,812 | 49,230 | 170,042 | 39,020 |
| Beginning Total Net Assets | 231,780 | 494,042 | 725,822 | 686,802 |
| Ending Total Net Assets | \$ 352,592 | \$ 543,272 | \$ 895,864 | \$ 725,822 |

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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 |

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2013 HIGHLIGHTS

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.

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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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