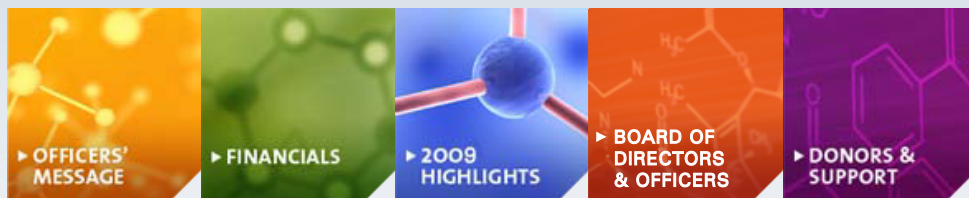


American Chemical Society

ANNUAL REPORT 2009



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OFFICERS' MESSAGE

Introduction

Without a doubt, 2009 was a tough year. Financial markets were in turmoil, unemployment soared, and, frankly, many of us wondered whether the business and government economic counter measures instituted would get us going back in the right direction. At home and at work, almost all of us faced hard choices and difficult decisions.

The American Chemical Society wasn't immune. Fortunately, we were prepared.

Several years ago, the [ACS Board of Directors](#) — in consultation with senior management, and in keeping with our [strategic plan](#) — developed a Society-wide contingency plan. This plan identified potential events and circumstances that could derail our efforts to promote our science and help our members improve people's lives through the transforming power of chemistry. For each of these adverse scenarios, the plan detailed specific or potential actions the Society could take to mitigate them. So when the economic downturn struck, we were ready to act. And we did so, vigorously.

As a result, and through process efficiencies and strict accountability practices, the Society remains financially healthy. This success extended to [ACS Publications](#) and [Chemical Abstracts Service](#) (CAS). Most important, our ability to serve the public and strengthen our science was enhanced, and we are well-positioned to advance our strategic goals.

ACS Publications launched three new journals — *ACS Chemical Neuroscience*, *Journal of Physical Chemistry Letters*, and *ACS Medicinal Chemistry Letters* — and took advantage of new technology to publish articles online more rapidly than ever before. By year-end, more than 70 million articles were downloaded from the ACS Web Editions platform. In addition, ACS Journals ranked first in ISI Impact Factor and/or total citations in 15 unique subject categories in the 2008 Journal Citation Reports from Thomson Reuters. ACS journals collectively garnered over 1.5 million citations in the past year.

CAS reached yet another milestone in 2009, assigning its 50 millionth CAS Registry Number® (CAS RN) for organic and inorganic substances. CAS also released an enhanced Web version of [SciFinder](#)®. And, working together, CAS and ACS Publications completed the first phase of linking articles on the ACS publications Web site to references in SciFinder.

Overall, our ability to provide ACS members and the general public with the best programs, products, and services to further their careers and their science remains unmatched.

In fact, instead of retreating from this commitment, we launched several new initiatives and reinvented or reinvigorated many others to help our members and other scientists and engineers in these turbulent times.



Thomas H. Lane
President



Judith L. Benham
Chair
Board of Directors



Madeleine Jacobs
Executive Director
& CEO

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Exciting New Programs

We launched the [Career Caffeine](#) video series to help members plan job searches, develop résumés and interview successfully. We began offering Webinars on [career](#) and professional issues, which drew up to 800 registrants per event. We also launched "[Boil This Down](#)," a new Web site for industry members. The new site gathers information from select scientific and business publications each day and spotlights ACS services most relevant to industry members. It also includes a popular section for members employed by small businesses.

In January 2009, the [ACS Leadership Institute](#) debuted in Fort Worth, Texas. Here, for the first time, delegates received comprehensive leadership training. In cooperation with Harvard Business Publishing, ACS began offering a suite of 42 introductory online business and management skills courses at substantially discounted rates to members and reduced rates for the unemployed. The [ACS Network](#) – the premier online forum for chemists and other scientists to find colleagues and share ideas as well as content with them – continued to grow, exceeding 22,000 participants by year-end 2009.

We expanded access to national meeting content by recording and posting [200 national meeting presentations](#) on the Web. This effort attracted more than 14,000 users. More than half of the users surveyed reported that this site is among the ACS services that they value most and that it will make them more likely to renew their memberships.

By year-end, [Society membership](#) exceeded 161,000. This number reflects 6,500 student affiliates who became student members when changes to the ACS governing documents became effective in June 2009.

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Advancing Education

ACS played a leading role in 2009 in promoting policies and building partnerships to improve Science, Technology, Engineering and Mathematics (STEM) education. The Society worked with the Obama Administration to help organize National Lab Day, a new, innovative effort to connect thousands of teachers, educators, and students with science and technology professionals across the country to improve hands-on science learning. ACS President Tom Lane was invited to the White House announcement of this initiative and ACS has been intimately involved in planning the first National Lab Day, scheduled for May 12, 2010, as well as the development of a state-of-the-art Web site, www.nationallabday.org. This program is just one of many exciting initiatives launched during Dr. Lane's presidential year.

ACS also helped lead a comprehensive campaign on Capitol Hill to advocate for increased funding of federal STEM education initiatives. The Society leads the STEM Education Coalition, a nationwide alliance of more than 1000 organizations and individuals that successfully advocated for the inclusion of STEM subjects as a top priority in the Administration's flagship \$4 billion Race to the Top initiative. In addition, ACS worked closely with Congressional leaders and Administration officials to push for an increased appropriation for the Department of Education's Math and Science Partnership, the first such funding increase in more than four years.

Early in 2009, we were also privileged to receive a gift of approximately \$34 million from the Hach Scientific Foundation to support high school chemistry teaching. The Hach family chose the ACS because the Society "represents permanence and stability, and it truly embraces chemistry on a national level."

The foundation's programs are a natural fit with the Society, complementing what ACS has been doing in high school chemistry, but not duplicating any existing programs. ACS will continue the Hach Scientific Foundation's support of a scholarship program for undergraduate chemistry majors interested in a career teaching chemistry, a scholarship program for chemists who have a degree and who want to pursue careers teaching chemistry, and outreach grants to chemistry teachers. In honor of this gift, the ACS headquarters building in Washington, D.C., was renamed the Clifford & Kathryn Hach Building of the American Chemical Society.

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Fostering Collaboration and Cooperation

Our efforts to improve people's lives through the transforming power of chemistry also focused on advancing collaborations in science. ACS is working closely with the Chemical Heritage Foundation and the American Institute of Chemical Engineers (AIChE) on plans for celebrating the International Year of Chemistry 2011. We have a long-standing relationship with the National Organization for the Professional Advancement of Black Chemists & Chemical Engineers and other organizations dedicated to advancing underrepresented minorities in science and engineering. Working with these groups, we believe we can change the face of chemistry.

The ACS Board of Directors and staff have worked systematically to identify specific, strategic opportunities for collaborations with our international counterparts. One of those opportunities came to full fruition in July, when ACS Board Chair Judith Benham and Executive Director & CEO Madeleine Jacobs signed a broad strategic alliance with our counterparts at the London-based Society of Chemical Industry (SCI).

Both societies believe that there are many significant issues with societal and global impact that have chemistry as part of the solution. Indeed, ACS Corporation Associates has had a collaboration for the past several years known as "Global Innovation Imperatives" (gii) whose mission is "to create community and knowledge transfer to stimulate global scientific innovations to meet societal imperatives." The main output of this program to date has been ACS-SCI co-sponsorship of scientific programs around the world focusing on water and sustainability. Gii also has its own group on the ACS Network where people can discuss and share ideas (www.acs.org/network/gii).

In August, the ACS Board of Directors approved a memorandum of understanding between ACS and the Royal Society of Chemistry (RSC) for collaborative activities to promote understanding of and to address issues related to [sustainability](#). In addition, we worked to increase multi-lateral international research cooperation on global challenges. The centerpiece of these efforts was a chemical science symposium near Munich, jointly organized with chemical societies in Germany, Japan and China. This forum on solar energy attracted many of the world's leading experts in the field.

In December, the Board approved a collaboration alliance with the Chinese Chemical Society (CCS). We believe this alliance is mutually beneficial and will lead to significant cooperation in service to chemical scientists, engineers and professionals in our respective nations. That same month, the Board approved another important alliance with the Gesellschaft Deutscher Chemiker (GDCh), this one focused on communication of the value of chemistry to the general public and the role chemistry plays in addressing global challenges.

Closer to home, ACS is working with the American Section of the Society of Chemical Industry and the Chemical Heritage Foundation to launch the SCI Scholars program, a new initiative that will provide undergraduate chemistry and chemical engineering majors with summer industrial internships. Members of ACS and AIChE will serve on these selection panels for these prestigious internships, which will give student exposure to some of the exciting work that goes on in industry. In today's global environment, it is hard to see how any one scientific society can thrive without these kinds of collaborations, both at home and abroad.

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The Road Ahead

The road ahead remains challenging. We recognize that many of our members continue to struggle. ACS can't fix the economy. We can't undo what has been done in the global marketplace.

But we will continue to offer our support. We will continue to deliver products and services our current and future members and other stakeholders value. We will continue to provide them with the tools they need to enhance their skills, further their research and advance their careers. That's been our pledge for more than 130 years. And we remain committed to it.

Thomas H. Lane
President

Judith L. Benham
Chair, Board of Directors

Madeleine Jacobs
Executive Director & CEO

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Strategic Plan

ACS Strategic Plan Keeps Society on Course Through Tumultuous Times

In these turbulent times, ACS members can be assured that their Society will continue to provide the excellent programs, products, and services upon which they can rely. 2009 was, as we all know, a challenging year for chemistry and its practitioners. We have not been immune to the economic turmoil facing the nation and much of the rest of the world. ACS, however, has emerged from the year financially strong, thanks in part to our strategic plan that focuses on the most effective approaches to respond to external trends, challenges, and opportunities. The ACS Board of Directors has made many difficult decisions to ensure the Society's continued financial sustainability during the year, and we are now well positioned for the future.

The [ACS Strategic Plan for 2010 and Beyond](#) continues to provide a blueprint for how the Society can fully recognize our vision of "Improving people's lives through the transforming power of chemistry" in this environment. Our vision, mission, and core values continue to be the foundation of the plan. They support our six strategic goals, which are to:

- *Provide Indispensable Information* – ACS will be the indispensable professional and information resource for members and other chemistry-related practitioners.
- *Engage Global Community* – ACS will be a preeminent global scientific community that engages members and other scientific professionals to advance the Society's Vision and Mission, including science education, research, knowledge, interaction, and collaboration.
- *Address Global Challenges* – ACS will be a global leader in enlisting the world's scientific professionals to address, through chemistry, the challenges facing our world.
- *Communicate with the Public* – ACS will be a leader in communicating to the general public the nature and value of chemistry and related sciences.
- *Advocate for the Profession* – ACS will be a premier advocacy organization for members and the profession, creating and supporting the implementation of public policy statements.
- *Maintain Financial Health* – ACS will be a financially sustainable organization that serves members, chemistry, and related sciences.

Within this framework, 2009 was a year of ACS progress, accomplishments, and milestones. The value of information provided by our scientific [publications](#) and the [Chemical Abstracts Service](#) continues to grow. Through the [ACS Network](#) and our meetings, we are enabling the global community of chemists to collaborate on challenges where chemistry is vital to the solution. We have launched a major sustainability initiative, in which all members and stakeholders are invited to participate. Our members are active in their communities acting as [Chemistry Ambassadors](#) to promote the nature and value of our science within their communities. In 2009, our members joined together to [ACT4chemistry](#) resulting in many legislative successes on the state and federal levels which address ACS policy priorities.

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ACS Publications

2009 – A Banner Year for the Most Cited, Most Trusted, and Most Read Journals in Chemistry

In 2009, ACS journal articles were published online more rapidly than ever before – capitalizing on an end-to-end fully online and digital workflow. These articles are now routinely published in less than three weeks after acceptance. In all, ACS journals published 34,796 articles in 2009, the third consecutive year that we have published more than 30,000 articles. In addition, [Chemical & Engineering News \(C&EN\)](#) continued delivering the Chemistry Story Behind the News in 2009.

By year-end, more than 70 million articles were downloaded from the ACS Web Editions platform – a 13 percent increase in 12 months. Most journals experienced at least 20 percent growth in full text article requests.

ACS journals ranked first in ISI Impact Factor and/or total citations in 15 unique subject categories in the 2008 Journal Citation Reports from Thomson Reuters. ACS journals collectively garnered over 1.5 million citations in the past year.

Robust linking at the article level between the ACS Web Editions Platform and CAS SciFinder® was introduced in 2009. Readers can now easily connect from abstracts, journal articles and book chapters to SciFinder® for details about an article's associated substances, reactions, citing and cited articles and can explore related articles from authors and/or on the same research topic.

ACS Publications expanded its content offering in 2009 with the launch of:

- *ACS Applied Materials & Interfaces* — more than 400 articles published to date and widely showcased in scientific and news media.
- ACS Symposium Series Online — more than 19,000 chapters from more than 1,200 books fully integrated with journal content on the ACS Web Editions Platform.
- *The Journal of Chemical Education* — in conjunction with a landmark co-publishing arrangement with the ACS Division of Chemical Education.

Three new journals debuted in 2009: *ACS Chemical Neuroscience*, *Journal of Physical Chemistry Letters*, and *ACS Medicinal Chemistry Letters* – all three outpacing expectations by the close of the year, prior to commercial launch in 2010.

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C&EN

Delivering the Chemistry Story Behind the News

Employing the highest journalistic standards, C&EN kept readers abreast of news, trends, events, and activities of the chemical enterprise in 2009. The [Dec. 21 cover story](#) on climate change was one of the most thorough and neutral examinations of the science behind the debate ever to be published. Also noteworthy was C&EN's coverage of clean technology in articles such as the [April 27 cover story](#) on the emerging cellulosic ethanol industry. We also examined the implications of the Obama Administration's stimulus package in articles such as the [July 27 cover story](#) on stimulus money seeding a clean-energy future. Our [Aug. 17 cover story](#) focused on stimulus money spurring sales and development of scientific instruments. C&EN's [comprehensive coverage of the American Recovery & Reinvestment Act of 2009](#) is consolidated on [C&EN Online](#). The following are other major achievements in 2009:

- C&EN stories were cited by at least 44 print publications with a combined circulation of 2.13 million people.
 - C&EN Online received almost 13 million page views, for an average of more than 1 million per month. Page views for the latest news rose 5 percent to almost 79,000 per week.
 - C&EN Online launched a redesign featuring a cleaner look and a homepage that enables access to all the latest news, feature stories, [C&ENtral Science](#) blog, archive, and social media outlets within one or two clicks.
 - The debut of C&EN Webinars, a series of commercially sponsored live webcasts on niche industry topics, exceeded expectations by 63 percent with two programs reaching a highly targeted audience of more than 700 combined.
 - About 278,000 pages of C&EN issues published from 1923 to 2007 have been digitized and will soon be available in digital format as C&EN Archives.
 - C&EN Electronic Edition moved to a new platform offering more options and a better user experience. Penetration of the electronic edition reached 52 percent among subscribers outside of North America and 12 percent among subscribers in North America.
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Chemical Abstracts Service (CAS)

Another Record-Breaking Year For CAS

In 2009, [CAS](#) continued the rate of database growth established in 2008, once again adding more than 1.2 million indexed document records to [CAplusSM](#). [CAS REGISTRYSM](#) saw even greater gains, adding more than 10 million records for organic and inorganic substances.

[CAS REGISTRY](#) now includes more than 51 million organic and inorganic substances. On September 7, 2009, CAS achieved a significant milestone. It assigned its 50 millionth CAS Registry Number® (CAS RN) for organic and inorganic substances: CAS RN 1181081-51-5 for a novel arylmethylidene heterocycle with analgesic properties. This is an outstanding achievement—considering it took 33 years for the REGISTRY to reach 10 million chemical substances in 1990.

The phenomenal growth of the [CAS REGISTRY](#) database has also been aided by CAS' increased coverage of predicted and experimental properties, spectra, and data tags to 2.6 billion. This increase includes more than 33 million predicted proton NMR spectra and 33 million predicted ¹³C-NMR spectra.

In [CAS](#) databases, researchers can now explore the largest collection of disclosed chemical synthesis information, including over 22 million single- and multi-step reactions from 1840 to the present.

[CAS'](#) patent authority coverage expanded to include the following patent offices: Gulf Cooperation Council (GC), Irish Patent Office (IE), and Intellectual Property Office of the Philippines (PH). [CAS](#) now covers 60 patent authorities worldwide to ensure comprehensive patent information within its databases.

Also in September, [CAS](#) released an enhanced web version of [SciFinder®](#). Features new with this release included more focused reaction searching, refining by and exporting physical property values, viewing additional ¹³C-NMR predicted spectra, and collaborating by sharing reference comments and tags with colleagues at the same research site. [CAS](#) and the [ACS Publications Division](#) also completed the first phase of linking articles on the [ACS publications website](#) to references in [SciFinder](#).

CAS provides free offerings to promote science and chemistry

In early 2009, [CAS](#) officially launched [Common Chemistry™](#), a free web-based access resource providing accurate and authoritative [CAS Registry Numbers](#) and associated substance data for some 7,900 substances of widespread, general public interest. [Common Chemistry](#) can be searched free of charge and includes reciprocal links to related chemical information on [Wikipedia](#).

In late 2009, [CAS](#) released another free web-based resource, the [CAS Source Index](#) ([CASSISM](#)) search tool. This publication look-up service provides an easy way to find journal title and abbreviation information. The [CASSI](#) print publication, which was discontinued as of December 31, 2009, continues as [CASSI on CD™](#) which provides additional functionality, such as access to holdings information.

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Career Services

ACS Career Services and Center for Professional Development Offers Critical Resources

In 2009, ACS launched several exciting new resources that were delivered just when they were needed most. With over 30,000 chemists displaced this past year and new chemistry grads entering a shrinking job market, ACS Career Services and the ACS Center for Professional Development offered critical resources to members.

The new ACS Leadership Development System, the ACS Harvard online courses, and other key career development initiatives were completed and rolled out this year – the culmination of years of hard work on the part of volunteers and staff. Members demonstrated their appreciation of these valuable resources by enrolling in courses and attending the virtual Career Fair in numbers that exceeded goals. Highlights of the past year's most significant events, achievements, and additions to ACS' broad network of career and professional development resources include:

- ACS [Leadership Development System](#). Ten years in the making, driven by a vision and commitment to helping members advance their careers, the state-of-the-art Leadership Development System was launched at the 237th ACS National Meeting in Salt Lake City, Utah. This comprehensive, research-based leadership curriculum comprises 17 online and facilitated courses that equip members with tools to build leadership capabilities. The initial year's goals of 40 facilitated courses and 600 participants were significantly surpassed with 844 participants enrolled in 46 courses. Courses were delivered not only at the Leadership Institute and the National Meetings, but also at Regional and Local Section Meetings.
- ACS Harvard Online Courses. In the first full year, 145 members took one or more of these 42 business and communication skills online courses. Participants said the courses were a valuable resource that will help facilitate their career advancement.
- The [ACS Network](#). The Network is the premier online forum for chemists and other scientists to communicate and build professional connections. The Active Career Issues Group, in particular, is a vital component in supporting the professional and career development of ACS members and non-members.
- ACS Career Fair and virtual Career Fair. In response to travel restrictions and the changing marketplace, Career Services experimented with a virtual Career Fair that allowed job seekers and employers to attend from remote locations. The attendance of employers and jobseekers exceeded that of the in-person career fair by 40 more chemists and 14 more employers, an increase of 6.6 percent and 45.2 percent, respectively. Not surprisingly, the declining job market resulted in 73 fewer job postings than at the previous Fair. The feedback and knowledge gained from this pilot program will be used to create an enhanced virtual Career Fair option available to all members and employers. This option should be particularly helpful for younger chemists and international members whose travel may be more limited.

To assist members with their search for jobs in a tight market and help

employers identify the right candidates, ACS is offering various venues that are convenient, effective, and productive for both members and employers. In addition to the pilot virtual Career Fair, two in-person Career Fairs were conducted at the Spring and Fall National Meetings and six mini Career Fairs providing workshops and career consultants were conducted at Regional Meetings.

- ACS [Webinar Series](#). These informational Webinars occur weekly and will feature subject matter experts on a variety of professional development and small-to-medium business topics.
- ACS Grant to Develop a Training Program for Career Counselors. The State of New Jersey, using funds from the US Department of Labor, awarded ACS a grant to provide occupation information, skills, and career ladder information for the life sciences sector. The training is designed to equip career counselors with the necessary skills and knowledge to effectively advise clients and students about job opportunities. Specific emphasis is placed on the biotechnology/pharmaceutical sector and green technologies.

These benefits came at a time when ACS members had a particularly urgent need for career development resources and opportunities to develop their leadership skills. The dedication of member volunteer leaders and contributors who helped drive these initiatives, along with ACS staff, demonstrates the highest level of commitment, reflecting the Society's mission of chemical professionals making a better world for the earth and its people.

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Promoting Education

ACS Takes Lead in Promoting Science Education in 2009

In November 2009, ACS President Tom Lane invited college and university chemistry departments to support the Society Committee on Education Statement on Pre-service Education. This statement encourages chemistry departments to take an active role in preparing K-12 science teachers to ensure that our teachers and students are prepared to excel in the 21st century. At the close of 2009, 58 chemistry departments endorsed the statement, indicating their commitment to support pre-service teacher preparation on their campuses.

The ACS Board-Presidential Task Force on Education, chaired by Richard N. Zare of Stanford University, was charged with 1) reviewing recommendations contained in national STEM education reports released during the past five years, 2) identifying specific actions that the Society could undertake in response to these recommendations, and 3) creating a priority list of actions the Society can take to have a unique impact on STEM education. One such action item was approved by the ACS Board of Directors in August 2009, and in middle schools and high schools. The Science Coaches program will partner a teacher and Science Coach to mutually decide how the coach can best help the teacher. Beginning in the 2010-2011 school year, the Science Coaches program will partner a teacher with a science coach to form an ongoing relationship that is beneficial for the teacher, coach, and ultimately the students.

ACS is collaborating with the American Section of the Society of Chemical Industry (SCI), the Chemical Heritage Foundation and the American Institute of Chemical Engineers (AIChE) to provide a summer internship program that introduces exceptional chemistry and chemical engineering students to careers in the chemical industry. The 20 selected students will participate in paid internships during the summer of 2010 and will also receive \$1,000 to attend a technical meeting of their choice. Students also can nominate a high school science teacher for recognition and a \$1,000 award.

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Tom Lane

ACS President Thomas H. Lane Advances the Science of Chemistry

From the beginning of his tenure, 2009 ACS President Thomas H. Lane sought to put a human face on chemistry and energize ACS members to reach out to their communities in bold, new ways.

"I am proud to be a chemist. It's our science, and it's our collective responsibility to nurture and promote its centrality," he said. "We are the stewards of chemistry; past, present and future. As a society, we're all in this together!"

Dr. Lane's pride in his profession and science was clearly evident as he spent much of his presidential year promoting education, encouraging diversity and building new and productive relationships for the Society. By any measure, Dr. Lane had significant achievements in all of these areas.

Promoting education

Dr. Lane co-convened an ACS Board–Presidential task force on education to examine the recommendations contained in major science, technology, engineering, and math (STEM) education reports; to identify specific actions that the Society could undertake in response to these recommendations; and to create a priority list of actionable items where the Society can have a unique impact on STEM education.

In response to the task force report, the Society will launch Science Coaches in 2010. This new program that puts scientists into middle schools and high schools, and matches them with teachers. Together, they will mutually decide how the coach can best help the teacher. The partnership is intended to form an ongoing relationship that is beneficial for the teacher, coach, and ultimately the students.

Dr. Lane helped ACS kick off its 20th annual celebration of National Chemistry Week at Ballou Senior High School in the District of Columbia. During those festivities, more than 450 students had the opportunity to participate in 12 hands-on science experiments that covered a broad range of scientific topics including the fundamentals of chemical bonding, producing oxygen, and determining the electrical conductivity of liquids. In addition, ACS, in conjunction with Merck & Co., Inc., presented the school's science teachers with the first of more than 12,255 copies of The Merck Index that were donated that week to high school teachers nationwide.

Just before Thanksgiving, Dr. Lane was invited to the White House to participate in a press conference where President Barack Obama announced his Educate to Innovate initiative. A component of this new initiative is the establishment of National Lab Day, a major new science education effort designed to increase community-based collaborations between scientists, engineers, teachers, and students. The first National Lab Day is set for May 12, 2010, but the new initiative is intended to be much more than a single day event. ACS and other organizers hope National Lab Day will help stimulate more hands-on, science learning by fostering enduring collaborations that help students better understand what scientists do every day to improve people's lives.

Fostering international relationships

Dr. Lane traveled extensively during his presidential year, reaching out to the worldwide, scientific community. During all of these visits, his primary topic of discussion was improving the public perception of chemistry while continuing to build international alliances.

In just one example of these efforts, Dr. Lane met with the president of the Serbian Chemical Society, Dr. Ivanka Popovic. They discussed efforts to repurpose teacher training materials (created by the Midland Local Section, ACS) for use by Serbian elementary and secondary school teachers to help excite and engage children in the wonderment of science. These materials will be translated into Serbian and used as a teaching guide for safe and effective experiments that can be done with materials from the local grocery stores with educational outcomes tied to the local curriculum. This is an exciting international experiment that could serve as the pilot for other exchanges across the planet.

Expanding membership, increasing diversity

Closer to home, Dr. Lane challenged every ACS local section and technical division to recruit new ACS members in order to provide membership benefits to more chemical scientists and engineers. As a result of this challenge, the ACS recruited more than 3,700 new members.

Dr. Lane also spent much of his time promoting diversity within the Society. In particular, he and ACS President-elect Joseph S. Francisco formed the ACS Presidential Task Force on Implementing the ACS Diversity Reports. The task force was asked to:

- Conduct an inventory of diversity efforts in the Society.
- Assess the recommendations from the diversity workshop reports in the context of current efforts and committees of the Society and develop a road map for the implementation of the recommendations.
- Provide an assessment of whether current diversity efforts will properly position the Society to have an impact in broadening participation within the chemical enterprise to better reflect the nation's demography by 2020.

This task force is expected to make extensive recommendations to the ACS Board of Directors in 2010. In addition, Dr. Lane worked to build bonds with leaders from the American Indian Science & Engineering Society (AISES); the National Organization for the Professional Advancement of Black Chemists & Chemical Engineers (NOBCCChE); and the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS).

In recognition of these efforts, Dr. Lane was presented with a Kente cloth at NOBCCChE's annual conference in March. The cloth is a traditional sign of welcome into the NOBCCChE family. In October during the AISES Conference, Dr. Lane was inducted as a Sequoyah Fellow and became a lifetime member of that organization.

Putting a human face on chemistry

Putting a human face on chemistry is one of Dr. Lane's passions. During his presidential year, he issued a "call to arms" to all ACS local sections, and encouraged them to reach out to their communities and help their friends and neighbors realize that "Chemistry is cool!"

As part of his own efforts, Dr. Lane became a regular user of the ACS Network and began using Facebook, an online social networking tool, to engage other chemists—particularly younger ones—in an ongoing dialogue. He posted thought-provoking questions designed to engage ACS members, such as, "What do you think the world's largest scientific society can do for K-12 STEM education?"

Over the course of his presidential year, his Facebook connections grew from about 30 "friends" to more than 1,400. Each day, he received dozens of messages.

One of these messages, received shortly after the 237th ACS National Meeting in Salt Lake City, was from a small community college in the Midwest. The students had raised money to attend the meeting to give their oral and poster presentations. Unfortunately, these bright young students were scheduled late in the afternoon on the last day of the meeting and no one attended. The students and their professor were extremely disappointed.

After hearing this story, Dr. Lane contacted the professor and offered to listen to the presentations in a conference call. In turn, the students invited him to the college to hear their presentations in person and asked him to deliver a brief lecture. On the appointed day, the auditorium was packed with nearly 180 people, including the president of the college. Dr. Lane notes that these outstanding young chemists did an incredible job representing their discipline in front of an engaged and appreciative audience.

This event, perhaps more than any other, epitomizes Dr. Lane's dedication and commitment that resulted in such a noteworthy year of achievement. Dr. Lane actively promoted science education, built relationships with others in unexpected ways, and truly put a human face on chemistry so our science can continue making a difference in people's lives.

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Sustainability

Sustainability Through Green Chemistry

As the world's population continues to expand, the people of developing nations expect and deserve ready access to safe drinking water, increased food supplies, shelter, medicine, energy and transportation.

Scientific research strongly suggests that existing technology can not meet those needs in a sustainable manner. As chemists and stewards of this Earth, we recognize chemistry is the foundation of all modern technology.

To address these challenges, the American Chemical Society made a major commitment to sustainability in 2009. The [Sustainability Stakeholders Steering Group \(S3G\)](#) was created to integrate the many initiatives underway at your ACS.

Sustainability is a big topic for the ACS and one of the cornerstones of that commitment is the [ACS Green Chemistry Institute®](#). Of course credibility comes from action not words. The highly acclaimed [ACS \(GCI\) Pharmaceutical Roundtable](#) has administered more than \$800,000 in grants directed at the development of new green chemical transformations, helped support green chemistry education in the United States and Europe, and helped incorporate green chemistry criteria into the [NIH \\$200M Challenge grant program](#). Within this important grant program, green chemistry and engineering are identified as a high priority area within Enabling Technologies, one of the challenge topics.

In addition, ACS has been working hard to "green" our national meetings. Whether it is the use of biodiesel powered buses, recycling at hotels and conventions centers, online abstract books or pitchers of water as opposed to using plastic bottles, your ACS is "walking the talk" as well as working to help others implement green chemistry and sustainable practices. And right here at home the ACS Hach headquarters building was, at the time of certification, only one of only 40 existing buildings in the nation to receive Gold Certification in the Energy and Environmental Design (LEED) program, sponsored by the U.S. Green Building Council. Why is that important? Because it is estimated that buildings are associated with 30 percent of all greenhouse gas, 65 percent of total waste output and 70 percent of electricity emissions, consumption.

These efforts are all part of our CALL to Action – Collaborate, Advance, Learn and Lead—on the issue of sustainability. The global sustainability challenges will require the creative input of all of the planet's chemists. We believe green chemistry holds the key to a sustainable future for all humankind.

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FINANCIALS

Financial Highlights

The American Chemical Society (ACS) ended 2009 with favorable operating results, despite the severe global economic recession. As noted in the accompanying financial summary, total revenues increased 0.3 percent from \$498 million in 2008 to \$500 million in 2009, while total expenses decreased 1.9 percent compared to 2008. The Society's \$20 million net contribution was primarily attributable to solid performance from its Information Services units (CAS and ACS Publications). In addition, contingency plan actions and expense mitigation initiatives were implemented in early 2009 to reduce expenses and offset the impact of the global recession on Society revenues. These actions included a strategic reduction-in-force, changes in postretirement benefit plans, and a hiring freeze in programmatic and administrative units.

The Society's financial position strengthened considerably in 2009 with net assets increasing from \$519 million at year-end 2008 to \$688 million at December 31, 2009. The increase in net assets can be attributed to three factors – the net from operations, investment gains, and a net reduction in postretirement benefit plan liabilities. The investment gains and to some extent, the net reduction in the postretirement benefit plan liabilities were tied to the favorable capital market returns realized in 2009.

ACS continued to serve its members and the scientific enterprise worldwide during 2009. Accomplishments include record additions to the Chemical Abstracts Service (CAS) databases, with CAS adding its 50 millionth new substance since it started in 1957. The Publications division launched two new journals with publication to begin in 2010 – *The Journal of Physical Chemistry Letters* and *ACS Chemical Neuroscience*. In addition, the *Journal of Chemical Education* will be added to the portfolio of official ACS journals in 2010, the result of a publishing partnership with the Division of Chemical Education.

Despite the cost reductions achieved in 2009, the Society maintained a significant investment in technology and new product development. This ongoing commitment will ensure that the Society continues to meet the diverse needs of its many constituents including ACS members, customers, technical divisions and local sections.

A copy of the Society's audited financial statements for the year ended December 31, 2009, together with the independent auditor's report thereon, and Management's Statement of Responsibility, can be located at http://portal.acs.org/portal/PublicWebSite/about/aboutacs/financial/CNBP_024242.

As part of the Society's move to greater transparency, ACS executive compensation information is publicly available on our Web site, www.acs.org. To access this information:

- From the ACS home page, click on About Us. Scroll down and click on the link to ACS Financial Information.
- On the ACS Financial Information page, scroll down to ACS IRS Form 990 and click on 2008 IRS Form.
- When ACS IRS Form 990 downloads, a box listing all of the pages will appear on the left hand side of the page. Scroll down to 990 Sch. J Compensation Information: ACS Executive salaries and other compensation are outlined in the four pages (Schedule J) of the document.

For a further explanation of executive compensation, visit <http://www.acs.org/executivecomp>

Annual Report 2009
FINANCIALS

Financial Summary

(\$ in Thousands)

Statement of Financial Position

	2009			2008
	ACS Programs	Petroleum Research Fund	Total	Total
ASSETS				
Cash and Cash Equivalents	\$ 33,403	\$ 10,495	\$ 43,898	\$ 30,272
Accounts and Pledges Receivable	60,013	-	60,013	62,158
Inventories	6,264	-	6,264	7,899
Investments	402,740	441,689	844,429	710,057
Interfund (Payable) Receivable	(9,664)	9,664	-	-
Collateral Held	6,108	27,207	33,315	59,017
Other	16,529	21	16,550	12,526
Buildings, Land, and Other Property	105,533	1	105,534	109,109
Total Assets	\$ 620,926	\$ 489,077	\$ 1,110,003	\$ 991,038
LIABILITIES AND NET ASSETS				
LIABILITIES				
Accrued Expenses and Accounts Payable	\$ 62,802	\$ 11,580	\$ 74,382	\$ 73,107
Deferred Revenues	106,392	-	106,392	99,320
Short and Long-Term Debt	25,182	-	25,182	29,316
Postretirement Benefits and Other	180,865	2,190	183,055	211,509
Collateral Payable	6,108	27,207	33,315	59,017
Total Liabilities	381,349	40,977	422,326	472,269
NET ASSETS				
Unrestricted	159,338	-	159,338	89,711
Temporarily Restricted	20,796	375,600	396,396	337,122
Permanently Restricted	59,443	72,500	131,943	91,936
Total Net Assets	239,577	448,100	687,677	518,769
Total Liabilities and Net Assets	\$ 620,926	\$ 489,077	\$ 1,110,003	\$ 991,038

Statement of Activities

REVENUES				
Electronic Services	\$ 375,742	\$ -	\$ 375,742	\$ 359,356
Printed Services	23,707	-	23,707	34,684
Advertising	8,977	-	8,977	12,329
Dues	12,098	-	12,098	12,643
Registration Fees and Booth Sales	9,781	-	9,781	11,625
Member Insurance Premiums	15,709	-	15,709	13,599
Investment Income	11,823	330	12,153	12,928
Other	6,981	-	6,981	7,470
Net Assets Released from Restriction	7,339	27,053	34,392	33,452
Total Unrestricted Revenues	\$ 472,157	\$ 27,383	\$ 499,540	\$ 498,086
EXPENSES				
Information Services	347,918	-	347,918	351,435
Member Programs and Services	40,437	-	40,437	40,782
Member Insurance Program	15,270	-	15,270	14,732
Grants and Awards	3,217	25,605	28,822	29,786
Administrative	35,754	1,778	37,532	42,234
Other	9,654	-	9,654	10,192
Total Expenses	452,250	27,383	479,633	489,161
Net Contribution	19,907	-	19,907	8,925
Net Investment Gains / (Losses)	32,120	-	32,120	(91,685)
Change in Pension Funding Status and Other	17,600	-	17,600	(74,935)
Change in Unrestricted Net Assets	69,627	-	69,627	(157,695)
Contributions	40,147	-	40,147	3,347
Net Investment Revenue Gains / (Losses)	9,482	84,087	93,569	(193,758)
Net Assets Released From Restriction	(7,339)	(27,053)	(34,392)	(33,452)
Other	549	(592)	(43)	60
Change in Restricted Net Assets	42,839	56,442	99,281	(223,803)
Change in Total Net Assets	112,466	56,442	168,908	(381,498)
Beginning Total Net Assets	127,111	391,658	518,769	900,267
Ending Total Net Assets	\$ 239,577	\$ 448,100	\$ 687,677	\$ 518,769

Annual Report 2009 FINANCIALS

Member Status & Allocation of Dues

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.

2009 Allocation of Dues

(\$ in Thousands)

Category	Amount (\$ in Thousands)	Percentage
C&EN	\$ 5,887	38.5%
Support for Society Programs	2,666	17.5%
Member Services	3,580	23.4%
Local Section Allotments	1,788	11.7%
Division Allotments	1,356	8.9%
Total	\$ 15,277	100.0%

Excluding the impact of Local Section and Division Allotments and Student Members Dues to C&EN of \$35,000, 2009 dues revenue totaled \$12,098,000 as reported on the [Financial Summary](#) page.

Membership Status*

Year-End 2009

Emeritus Member	14,332
Regular Member	110,605
Regular Student Member	16,324
Undergraduate Student Member	11,473
Retired Member	6,024
Society Affiliate	1,215
Unemployed Member	1,810
Total	161,783

*Source: ACS Demographics

ACS Members in the Workplace 2009*



Education

- 62% Ph.D.
- 17% M.S.
- 19% B.S.
- 2% Less than B.S. or other



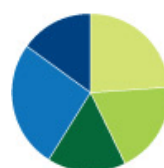
Employment

- 62% business/industry
- 29% academia
- 9% government, other sectors, self-employed



Employment of domestic ACS members under 70 years old

- 87% employed full-time
- 3% employed part-time
- 3% postdoc
- 4% unemployed
- 1% not employed, but not seeking employment
- 2% retired



Age

- 25% under 40
- 17% 40 - 49
- 15% 50-59
- 23% 60 and older
- 20% not provided



Gender

- 74% men
- 26% women

* Percentages rounded. Data based on ACS censuses, salary surveys and demographics reports.

2009 Division Year-End Membership Summary

Division Name	Division Total
Agricultural & Food Chemistry Division	2,784
Agrochemicals Division	1,406
Analytical Chemistry Division	8,924
Biochemical Technology Division	3,024
Biological Chemistry Division	6,587
Business Development & Management Division	983
Carbohydrate Chemistry Division	789
Catalysis Science and Technology Division (probationary)	194
Cellulose & Renewable Materials Division	1,028
Chemical Education Division	5,314
Chemical Health & Safety Division	1,336
Chemical Information Division	1,198
Chemical Technicians Division	393
Chemical Toxicology Division	1,118
Chemistry & the Law Division	1,139
Colloid & Surface Chemistry Division	2,581
Computers in Chemistry Division	2,200
Environmental Chemistry Division	4,788
Fluorine Chemistry Division	610
Fuel Chemistry Division	1,310
Geochemistry Division	716
History of Chemistry Division	733
Industrial & Engineering Chemistry Division	3,015
Inorganic Chemistry Division	6,004
Medicinal Chemistry Division	10,023
Nuclear Chemistry Division	885
Organic Chemistry Division	16,127
Petroleum Chemistry Division	1,270
Physical Chemistry Division	5,489
Polymer Chemistry Division	5,609
Polymeric Materials Science & Engineering Division	4,619
Professional Relations Division	794
Rubber Division	1,677
Small Chemical Businesses Division	585
Total	105,252

Annual Report 2009

2009 HIGHLIGHTS

ACS by the Numbers

2009 was a year of great achievement for the American Chemical Society. We are very pleased to present a summary of some of the highlights from the year, submitted by the ACS operating units and organized around the Society's six strategic goals. 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.

88,806

ACS membership in 1959.

161,000 +

ACS membership as of Dec. 31, 2009.

24,424

Combined attendance at 2009 ACS National Meetings in Salt Lake City and Washington, D.C.

1,578Job seekers who participated in [ACS Career Fairs](#) at those national meetings.**72**

Number of employers recruiting applicants.

500

Job opportunities available.

844

Number of people who enrolled in ACS Leadership Development courses in 2009

Sept. 7, 2009Date on which [CAS](#) scientists recorded the [50-millionth chemical substance](#) into the CAS Registry®.**51.7 million**

Chemical substances in registry at the end of 2009.

33

CAS

Years it took for CAS to encounter the first 10 million substances in the published literature.

9

Months it took for CAS to register its most recent 10 million substances.

25

Number of unique substances registered per minute during those nine months.

13[Science & the Congress briefings](#) conducted on Capitol Hill to educate lawmakers and their staff about science issues.**1,311**Number of participants at those [Science & the Congress briefings](#), including 408 U.S. House and Senate staff members.**34,796**Number of articles published in [ACS peer-reviewed journals](#) in 2009.**More than 70 million**

ACS journal articles downloaded in 2009 by researchers.

15

Number of subject categories in which ACS Journals rank #1 in total citations and/or ISI Impact Factor as reported in the 2008 Journal Citation Reports from Thomson Reuters.

1,470Number of ACS members who became [ACS Chemistry Ambassadors](#).**12,255**

Copies of The Merck Index distributed to chemistry teachers and students by ACS volunteers during National Chemistry Week.

800 +

Estimated number of print, electronic and social media news items issued by ACS in 2009.

1.1 billion

Average potential worldwide audience per month for those news items.

200,000 +

Downloads of ACS podcasts in 2009.

258ACS-chartered [high school chemistry clubs](#) in 2009.**53**

Percent increase in the number of ACS-chartered chemistry clubs from 2008 to 2009.

25Years since the first [U.S. National Chemistry Olympiad \(USNCO\)](#).**4**Medals won – one gold and three silver – by the American team at the 41st [International Chemistry Olympiad \(IChO\)](#) in Cambridge, England.**13,921**

Bachelor's degrees earned by students in ACS-approved chemistry programs in 2007–08, an all-time high.

2,362

Doctorates earned by students in ACS-approved chemistry programs during that time.

62Number of [ACS Scholars](#) who have earned Ph.Ds.**1**[Public service award](#) earned by [Project Seed](#) from the National Science Board for fostering interest in chemistry among students from economically disadvantaged backgrounds.**18,549**

ACS members who are members of the Legislative Action Network, a 16 percent increase since year-end 2008.

17Number of new [Government Affairs Committees](#) formed in ACS local sections, bringing the total to 97.

Annual Report 2009

BOARD OF DIRECTORS & OFFICERS 2009

2009 Board of Directors and Officers



Pictured

(from left to right)

Back row
 Brian A. Bernstein
 Flint H. Lewis
 Janan M. Hayes
 Marinda Li Wu
 Diane Grob Schmidt

Middle row
 Valerie J. Kuck
 Eric C. Bigham
 Madeleine Jacobs
 Kent J. Voorhees
 William F. Carroll, Jr.
 Pat N. Confalone

Front row
 Dennis Chamot
 Bruce E. Bursten
 Judith L. Benham
 Thomas H. Lane
 Joseph S. Francisco
 Bonnie A. Charpentier
 Anne T. O'Brien

Judith L. Benham
Chair, ACS Board of Directors
Director, District V
 3M Company (Retired)
 St. Paul, MN

Thomas H. Lane
President, ACS
 Dow Corning Corp. (Scientist
 Emeritus)
 Midland, MI

Joseph S. Francisco
President-Elect, ACS
 Purdue University
 West Lafayette, IN

Bruce E. Bursten
Immediate Past-President, ACS
 University of Tennessee
 Knoxville, TN

Madeleine Jacobs
Executive Director & CEO, ACS
 Washington, DC

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Director, District I
 Wyeth-Ayerst Research (Retired)
 Tarrytown, NY

Diane Grob Schmidt
Director, District II
 Procter & Gamble
 Cincinnati, OH

Pat N. Confalone
Director, District III
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Director, District IV
 GlaxoSmithKline (Retired)
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 National Research Council
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Director-at-Large
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 Sacramento, CA

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Secretary & General Counsel, ACS
 Washington, DC

Brian A. Bernstein
Treasurer & Chief Financial Officer, ACS
 Washington, DC

Annual Report 2009

DONORS & SUPPORT

New Gifts & Pledges

2009 was a year of extraordinary philanthropy for the American Chemical Society. The Hach Scientific Foundation donated their assets of about \$34 million for the ACS to continue to run their outstanding teacher education programs. The Ciba Foundation contributed its endowment of \$2 million prior to the company's acquisition by BASF. Merck and Co. contributed more than 12,000 copies of The Merck Index that ACS Local Sections delivered as part of National Chemistry Week. And Teva Pharmaceuticals, USA pledged \$300,000 a year for three years to establish a research fellowship program.

ACS thanks the following donors for new gifts and pledges made during 2009. Individual donors are indicated in italics.

Visionary Partners

Donors of \$250,000+

Ciba Foundation, Inc.
Merck & Co., Inc.
Teva Pharmaceuticals USA, Inc.

Sustaining Partners

Donors of \$100,000 – \$249,999

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Astellas USA Foundation

Partners

Donors of \$50,000 – \$99,999

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Platinum

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3M Foundation
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Dow Chemical Company
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Wyeth Research

Gold

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Society for Analytical Chemists of Pittsburgh
Strem Chemicals, Inc.

Silver

Donors of \$5,000 – \$9,999

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Prentice Hall Publishers
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University of Missouri

Copper

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Society of Chemical Manufacturers and Affiliates
Stylus Publishing, LLC
Texas Instruments, Inc.
John Wiley Publishers
Youngstown State University Foundation

Iron

Donors of \$1,000 – \$2,499

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Daniel Charles Harris
Madeleine Jacobs
Madeleine M. Joullie
Mary M. Kirchhoff
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Cynthia A. and Bruce Maryanoff
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Advancing Green Chemistry
ACS Division of Analytical Chemistry
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Bissell
BrandTech Scientific, Inc.
Celgard
Church & Dwight
JohnsonDiversey
The National Academies
Newreka Green Synth Technologies
Rug Doctor
Seventh Generation
Sigma-Aldrich
Warner-Babcock Institute for Green Chemistry
Zep, Inc.

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DONORS & SUPPORT

Bequests/Honorifics/Memorials

Bequests were received from the estates of:

Barbara Anne Stott
Barbara Hodsdon Ulliyot
Kumsu Yang

Gifts were made in honor of the following:

Bonnie A. Charpentier
Stephanie Dilocker
Mary M. Kirchhoff
Lee Latimer
David M. Lemal
Raj Razdan
James Shoffner
20th anniversary of first meeting at
Project SEED's 20th anniversary celebration

Gifts were made in memory of the following individuals:

Karen Conway
Richard Cope
George Dahlgren
Nikolaos Dimitriou
Edgar Howard
Deborah Kilmartin
Raymond Kimbrough
Rudolph K. Kullnig
William Benjamin Prescott
Jack Stocker
Barbara Hodsdon Ulliyot
Harold Woltman
Kang Yang
John T. Yoke
John Young
Herman Ziffer

Annual Report 2009

DONORS & SUPPORT

ACS Legacy Leaders

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

Alfred and Isabel Bader
Jeannette Brown
Matthew K. Chan
James D'Ianni*
Ernest* and Eva Eliel
Kenneth and Susan Fahrenholtz
George H. Fisher
J. Lynn and JoEllen Fordham
Rodney Hader
Madeleine Jacobs
Lester Krogh
Judith Leondar
Margo Lynn Mclvor
Carl W. Otto*
Bing T. Poon
Glenn Prestwich and Barbara Bentley
Charles J. Reeder
Sandra Lamb Sanford
Gerald Schillon
Catherine T. Sigal
W. Mayo Smith
Barbara Anne Stott*
Roy W.H.* and Marjorie Tess
Barbara Hodsdon Ulliot*
Elizabeth K. Weisburger

* *deceased*

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DONORS & SUPPORT

Pledge Payments

ACS acknowledges these donors who made contributions on prior years' pledges.

Paul Stanley Anderson
Brian A. Bernstein
Theodore Lawrence Brown
Helen M. Free
John Charles Haas
Madeleine Jacobs
H. Eugene LeMay
Robert Lichter and Diane Scott-Lichter
Catherine Murphy
Ralph H. Petrucci
Dorr Foundation
Dow Chemical Company
Dow Corning Foundation
Lord Corporation
Monsanto Fund
PPG Industries Foundation

Annual Report 2009

DONORS & SUPPORT

2009 Sponsors of ACS Awards

ACS national awards honor individual or team accomplishments in diverse fields of the chemical sciences.

ACS Corporation Associates
ACS Division of Business Development and Management
ACS Division of Chemical Education
ACS Division of Nuclear Chemistry and Technology
ACS Division of Physical Chemistry
Air Products and Chemicals, Inc.
Aldrich Chemical Company, Inc.
Alfred R. Bader Fund
Battelle Memorial Institute
Ronald Breslow Endowment
Herbert C. Brown Award Endowment
Alpha Chi Sigma Fraternity
Alpha Chi Sigma Educational Foundation
Arthur C. Cope Fund
Cengage Publishing
Coherent Inc.
F. Albert Cotton Endowment Fund
The Camille and Henry Dreyfus Foundation, Inc.
The Dow Chemical Company
The Dow Chemical Company Foundation
Dow Corning Corporation
E. I. du Pont de Nemours & Company
Eastman Chemical Company
ExxonMobil Chemical Company
ExxonMobil Research and Engineering Company
Francis P. Garvan–John M. Olin Medal Endowment
General Electric Global Research
Givaudan
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Honeywell
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Nakanishi Prize Endowment
National Starch, LLC
Newport Corporation
Northeastern Section of the American Chemical Society
George A. Olah Award Endowment
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