American Chemical Society

# ANNUAL REPORT 2010

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## Introduction

In 2005, the American Chemical Society produced a report called *The Chemical Enterprise in 2015.* This report foresaw that the coming decade — years in which the scientific world would meld and the global economy would expand — as one of extraordinary transformation and unprecedented challenges.

Looking back, little did we know how monumentally transforming and challenging those changes would be and how rapidly they would occur.

As we conclude 2010 — still five years short of the report's projected timeline — much of what was predicted in it has come to pass and, based on its recommendations, we have positioned the Society to remain at the forefront of the chemistry enterprise and have developed a broad array of new programs and services to meet our members' evolving needs.

And yet, so much that has happened in the past two years — particularly the unexpected global economic downturn — has left many of our members trying to make sense of it all. As they look to ACS for guidance and support in these difficult times, we find ourselves drawing strength from the conclusions of that 2005 report as well as other forward-looking documents such as the ACS Strategic Plan.

As we move forward, ACS members can rest assured that their Society has faced challenges head-on and we continue to provide the important programs, products, and services they value and rely upon to advance their careers and improve people's lives. We remain poised to address future challenges in constructive ways.

With that in mind, we are pleased to report that ACS ended 2010 with many mission-related accomplishments and in a sound financial position. Stable revenues and a continued focus on rigorous expense management contributed to a seventh consecutive year of positive net contribution from operations. In addition, the combination of strong operating results and favorable capital market returns bolstered the Society's financial position by increasing unrestricted net assets. The Board of Directors has made several important decisions over the past two years to ensure the Society's continued financial sustainability. As a result, ACS is well positioned for the future.

**Joseph S. Francisco**
President

**Bonnie A. Charpentier**
Chair
Board of Directors

**Madeleine Jacobs**
Executive Director
& CEO

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# Trailblazing New Research Paths

*The Chemical Enterprise in 2015* report recommended that ACS strengthen its position as the place to find and publish groundbreaking research. And over the past five years, that is exactly what we have done. But by almost any measure, 2010 stands out.

ACS Publications was particularly active this year, launching several new journals — including *Journal of Physical Chemistry Letters*, *ACS Chemical Neuroscience* and *ACS Catalysis* — as well as ACS Mobile, a mobile software application for users of Apple's iPhone®, iPod Touch® and iPad® devices. This new information delivery service provides readers with an up-to-the-minute live stream of peer-reviewed research content published across the Society's preeminent portfolio of scholarly research journals and is augmented by "Latest News" from Chemical & Engineering News (C&EN).

C&EN Archives, a digital (PDF) collection of every page of every C&EN issue from 1923 to the present debuted in November. This new resource gives students, journalists, scientists, libraries and others instant access to more than eight decades of content from this popular ACS weekly newsmagazine. It includes more than 500,000 pages of content. C&EN Archives is fully searchable and accessible via the same user-friendly platform that enables readers to peruse their current electronic editions of ACS' suite of 39 peer-reviewed scientific journals.

By year end, more than 71 million articles were requested from the ACS Web Editions platform. In addition, ACS Journals ranked first in ISI Impact Factor and/or total citations in 13 unique subject categories in the 2009 Journal Citation Reports from Thomson Reuters. ACS journals collectively garnered more than 1.68 million citations in the past year.

And in yet another important advance, ACS Publications teamed up with Chemical Abstracts Service (CAS) to link ACS journal articles to SciFinder® so our readers can easily access patent-related information. By year end, the CAS Registry exceeded more than 56 million records for organic and inorganic substances. In addition, enhancements to the Web version of SciFinder are helping scientists and other researchers speed up the inquiries, lab preparations and synthesis planning processes.

More than 32,000 people participated in ACS National Meetings in San Francisco and Boston in 2010. Participants presented more than 20,000 papers at these two meetings. For those unable to attend or who missed a presentation, ACS posted nearly 750 presentations online after these meetings concluded. In all, more than 21,500 unique visitors viewed these online presentations by year end.

The ACS Petroleum Research Fund 54th Annual Report is yet another source of important scientific information available online. In 2010, the ACS PRF funded 131 grants, totaling more than $11 million. It also continued its track record of helping to jump-start careers of Nobel Laureates. Two of the three 2010 chemistry Laureates — Richard F. Heck and Ei-ichi Negishi — were supported by ACS PRF funding. In all, the ACS PRF has now supported 26 Nobel laureates over the years.

Together, these advances ensure that our members can always connect to ACS resources and readily tap into the latest and most reliable scientific information in the world.

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## Focusing on What Matters Most

For nearly 135 years, ACS has been chemistry's "hometown": The central gathering point for chemical professionals to meet, share information, and find tools and guidance that enable them to become stronger and more marketable scientists.

Over the years, our focus has shifted as our members' needs have evolved. In the current, fluctuating economic climate, we are committed to supporting career and leadership training, bolstering international cooperation, enhancing chemistry education (particularly among underrepresented populations), and promoting communication to the general public in order to "put a human face on chemistry."

In 2010, we made significant strides in each of these areas – all of which were emphasized in *The Chemical Enterprise in 2015* report and were priorities this year during Joseph Francisco's ACS Presidency. We believe these efforts on behalf of our more than 163,000 members at year-end 2010 will yield tremendous benefits for them in the years ahead.

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## A Look Back, A Glimpse Ahead

In 2005, we opened our Annual Report with these words:

The power of chemistry to improve people's lives is extraordinary. We see its transforming power everywhere, from pharmaceuticals that cure diseases and enhance the quality of life, to plastics and electronics in our homes and workplaces, to new sources of energy. Yet as we move deeper into the 21st century, chemistry itself is being transformed. The distinct edges that have traditionally separated chemistry from other scientific disciplines are melting away. *And as chemistry changes, so does the American Chemical Society.*

In the past five years, we have changed in ways that are truly helping our members improve people's lives through the transforming power of chemistry. In the years ahead, we will continue to adapt and grow. We will continue to mirror our members' aspirations. Like them, we will continue to collaborate, innovate and make a difference in the world.

Finally, we wanted to note that in 2010 we laid the groundwork for the International Year of Chemistry 2011. This exciting global celebration, as declared by the United Nations, focuses on the achievements of chemistry and the many positive ways that chemists and chemical engineers have improved people's lives. We have posted a toolkit online and even have a daily web feature titled 365 Chemistry for Life. As we experience 2011, we hope our members will take advantage of this once-in-a-lifetime opportunity opportunity to share their passion for our science with others.

It will be our year! Our time to shine and showcase the wonders of chemistry!

| Joseph S. Francisco | Bonnie A. Charpentier | Madeleine Jacobs |
|---|---|---|
| President | Chair, Board of Directors | Executive Director & CEO |

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# Strategic Plan

## ACS Strategic Plan Keeps Society Focused on Supporting Chemists' Aspirations

The *ACS Strategic Plan for 2011 and Beyond* incorporates ideas from a broad range of members and stakeholders to ensure that ACS remains the leading professional society in chemistry for our members and our science. The ACS Board of Directors conducted internal and external environmental scans of the evolving challenges and opportunities related to each goal, and specific strategies and metrics were revised accordingly. Some strategies represent ongoing work from last year, while others are new initiatives that remain a priority.

Our vision, mission, and core values continue to be the foundation of the plan. The centerpiece of the plan continues to be its aspirational goals, of which there are now five. What was formerly a goal of the ACS Strategic Plan, "ACS will be a financially sustainable organization that serves members, chemistry and related sciences," is the subject of a new Preamble to the plan. Maintaining financial sustainability has always been a critical focus of ACS, cutting across all of our activities. The goals, in brief, continue to be providing indispensable information, engaging the global community, addressing global challenges, communicating with the public, and advocating for the profession.

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# ACS Publications

## 2010: An Award-Winning Year for Innovation and Growth for the Most-Trusted, Most-Cited, and Most-Read Journals in Chemistry and the Related Sciences

ACS Publications continued to introduce innovations to the ACS Web Editions platform and new journal products to its portfolio of the leading journals in chemistry and the related sciences in 2010. With more than 37,000 new research articles added this year, ACS Publications now hosts over one million research articles, book chapters, and, with the recent launch of the C&EN Archives, more than 85 years of historic content from the premier newsmagazine covering the chemistry enterprise dating back to 1923.

Launched in 2010, the ACS Mobile application for the iPhone®, iPod Touch®, and iPad® was named the "Best New eProduct in Electronic Publishing" and the "Best New eProduct in Physical Sciences and Mathematics" by the Association of American Publishers. The application provides researchers more options and flexibility for staying current with research and news published by the ACS while on-the-go. This marks the second time that the ACS has received the Best New eProduct award, following the 2008 award for the launch of the ACS Web Editions platform.

During 2010, total article requests from the ACS Web Editions platform grew to more than 71 million, building on the record growth achieved in 2009. Linking at the article level between the ACS Web Editions Platform and CAS SciFinder® was enhanced to include linking to patents and reaction narratives, adding more unique benefits for the research community.

ACS Publications ranked #1 in citations and/or ISI® Impact Factor in 13 separate subject categories as reported in the 2009 Journal Citation Reports from Thomson Reuters, including all seven of the Core Chemistry categories.

ACS Publications expanded its portfolio of high quality, high impact journals in 2010:

- *ACS Chemical Neuroscience* introduced its first volume of publication with more than 80 research articles and reviews in all the major fields of neuroscience, led by Editor-in-Chief Craig W. Lindsley from Vanderbilt University.
- The *Journal of Physical Chemistry Letters* completed its first full year of publication under the leadership of Editor-in-Chief George C. Schatz of Northwestern University and Deputy Editor Prashant V. Kamat from the University of Notre Dame, with 557 published letters and 58 perspectives.
- The *Journal of Chemical Education* completed its first year of co-publication in conjunction with the ACS Division of Chemical Education under the editorship of Norbert J. Pienta, University of Iowa.
- *ACS Medicinal Chemistry Letters* began publication, led by Editor-in-Chief Dennis Liotta from Emory University.
- *ACS Catalysis* posted its first articles online in late 2010 under the leadership of Christopher W. Jones from the Georgia Institute of Technology.

In addition to the new journals listed above, the *Journal of Combinatorial Chemistry* was retitled as *ACS Combinatorial Science*, with an expanded scope and updated format under the leadership of Editor-in-Chief M.G. Finn from the Scripps Research Institute.

Responding to continued growth in authorship and publishing demand, ACS Publications opened 33 new editorial offices in 2010, bringing the overall number of ACS Editors-in-Chief and Associate Editors to more than 320 experts worldwide, approximately a quarter of whom are now based outside the United States.

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# C&EN

## Magazine Expands Electronic Reach, Access to Archives

Employing the highest journalistic standards, C&EN kept readers abreast of news, trends, events, and activities of the chemical enterprise in 2010. One of the most significant events of 2010 was the explosion of BP's Deepwater Horizon oil drilling rig and the resulting massive oil spill in the Gulf of Mexico. C&EN's comprehensive coverage involved science, business, and government reporters and included at least 15 stories, including the June 14, 2010, cover story.

Other noteworthy topics of coverage were: China's rise as a scientific power (Jan. 11 and Dec. 13), five decades of laser technology (March 8), how chemistry helps paper companies develop recycled products that are easy on the environment and the skin (April 19), the much-awaited rankings of chemistry graduate schools (Oct. 25), growing cooperation between industry and academia in drug discovery (Nov. 8), and the midterm elections and their impact on science policy (Nov. 8 and 22).

C&EN also continued to closely monitor the employment situation of chemists in the aftermath of the Great Recession. In an unprecedented collaboration, C&EN worked with ACS's Office of Career Management & Development to link C&EN's annual employment survey (Nov. 1) with the ACS Virtual Career Fair held in November. Editor-In-Chief Rudy Baum and Senior Editor Susan Ainsworth discussed the employment outlook during a webcast at the virtual fair and took questions from the audience.

Finally, a series of ACS Scholars profiles, which the ACS's Office of Development collected into a 2011 calendar featuring the scholars, brought attention to this important program for supporting minority students.

Following are other major achievements in 2010:

- C&EN Archives launched on November 8, 2010, enabling users to search and access more than 500,000 pages of content back to 1923. Full text article requests in November and December 2010 totaled more than 16,000. In that period, C&EN Archives received more than 118,000 views of the first 150 words of each article.

- C&EN launched two topical news channels: the Environmental SCENE, in July, and the Analytical SCENE, in October. The channels provide tailored news streams to readers of ACS publications by highlighting important new environmental and analytical results. The channels publish stories from C&EN's pages as well as original news reporting on studies published in ACS journals. In 2010, the two young channels provided readers with more than 100 original news articles.

- C&EN's blog, CENtral Science, relaunched as a chemistry blog network at the end of March and is now home to eight blogs written by staff and outside contributors: Cleantech Chemistry, Just Another Electron Pusher, Newscripts, Terra Sigillata, The Chemical Notebook, The Editor's Blog, The Haystack, and The Safety Zone. Page views for each of the blogs have increased since launch, and overall page views for CENtral Science grew from 122,500 by the end of November 2009 to more than 229,000 by the end of November 2010.

- Through ACS's Weekly PressPac, C&EN stories appeared in online sites receiving more than 211 million unique visits per month and in publications with combined circulation of 1.5 million. Among the prominent media outlets that ran C&EN stories were the Los Angeles Times, the Huffington Post, Yahoo News, and MSNBC.

- C&EN Online received more than 14.3 million page views, for an average of 1.2 million per month.

- C&EN Webinars hosted 12 live webcasts, with an average of 650 attendees per webcast. The webcast on Oct. 12, 2010, about the ZACA reaction, was the first public lecture of Professor Ei-ichi Negishi after he was named one of three winners of the 2010 Nobel Prize in Chemistry.

- C&EN's Facebook page has more than 500 active users daily; it received 1,300 new "likes" in 2010 and more than 230,000 post views. Our twitter account (@cenmag) garnered more than 900 followers between its launch in March and the end of December.

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# Chemical Abstracts Service(CAS)

## CAS — the Global Leader in Chemical Information

As the world's authority for chemical information, CAS delivers the most current, complete, and cross-linked secure digital information environment for scientific discovery. CAS products and services bring speed and accuracy to customer research processes and help ensure their research is at the cutting edge.

In 2010, CAS set new records for database growth, adding more than 1.3 million searchable journal articles and patent documents, for a new total of nearly 33.5 million indexed records. CAS's reaction database saw even greater gains, adding upwards of 7.8 million reactions. Both additions topped those from 2009, the previous record-high year. Thanks to the scientists who build CAS databases, researchers can explore the largest collection of disclosed chemical synthesis information, including more than 30 million single- and multi-step reactions from 1840 to the present.

As of year-end 2010, CAS REGISTRY℠ included more than 56 million organic and inorganic substances, plus more than 62 million sequences. The continual growth and updating of the CAS REGISTRY database is apparent from the REGISTRY counter on the CAS home page (www.cas.org). This growth has been aided by CAS's expanding coverage of predicted and experimental properties, spectra, and data tags, to more than 3 billion. The spectral data includes more than 43 million predicted proton NMR spectra and 44 million predicted carbon NMR spectra.

CAS's patent authority coverage expanded to include the Costa Rica Registry of Industrial Properties (CR). CAS covers 61 patent authorities worldwide to ensure comprehensive patent information within its databases.

Released in late summer and fall, two separate full-featured enhancements to the web version of SciFinder® helped scientists and other researchers expedite research inquiries, lab preparations, and synthesis-planning processes. The enhancements included Markush searching, Digital Object Identifier (DOI) search and display, transformation center highlighting, monthly "Keep Me Posted" alerts, experimental procedures for chemical reactions, substance searching via Simplified Molecular Input Line Entry (SMILES) and InChI strings, relevance ranking of reactions, and various efficiency- and usability-improving features. Also, continuing work begun in 2009, CAS and the ACS Publications division enabled journal article readers on the ACS publication website to easily access patent-related information in SciFinder.

## CAS Increases Academic Access to SciFinder at No Additional Cost

In the summer, CAS provided approximately 500 academic institutions around the world with 20 percent additional capacity for the web version of SciFinder, at no additional cost. This initiative, made possible through improved cost efficiency of CAS technology infrastructure, allows CAS to continue its mission of providing access to the best digital chemical information while elevating SciFinder competitively. Allocation of seats to an additional 500 schools began in December and will continue as capacity becomes available.

## USPTO Signs Single Source Contract with CAS for STN

The United States Patent and Trademark Office (USPTO) signed a five-year "single source" contract with CAS for STN®. According to a notice from the USPTO, "CAS' STN databases offer the largest collection and depth of chemical and related information compared to other commercial web based databases. In addition, CAS is the only company that has a unique, proprietary, chemical structure searching capability using its STN Express® software. No other source can successfully meet the USPTO's requirements."

This endorsement of STN bodes well for the next step in the product's evolution. A proof-of-concept prototype was well-received by the global members of the STN Customer Advisory Council and is the basis for the pilot release of the new STN platform, tentatively called STN 21, due at the end of 2011.

## CAS Chemistry Research Reports Confirm CAS' Chemical Authority

The CAS Chemistry Research Report series examines global trends in journal and patent publications from the CAS databases. The reports identify categories of scientific research presenting promise for today's global challenges as well as geographic shifts in scientific research and commercialization. The first report—*China Takes Lead in the Commercialization of Bioethanol*—was released mid-year to an enthusiastic reception. Two later reports—*Human Genome Discoveries Spur Growth of Cancer Treatments* and *Nanofiltration Shows Promise in the Quest for Pure Water*—also attracted attention in traditional and social media outlets while demonstrating CAS' breadth on a range of topics. Watch for more reports to come in 2011.

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# Joseph S. Francisco

## 2010 ACS President Seeks Ways to Keep American Chemical Enterprise Competitive

In 2010, ACS President Joseph S. Francisco sought out innovative ways to help make the American chemistry enterprise more competitive in the worldwide marketplace. On top of his very busy agenda were education and job creation in the new global age as well as international collaboration.

Dr. Francisco traveled widely, visiting Canada, England, Egypt, China, South Korea, Taiwan, Germany, Norway, Columbia, Bahrain and Israel. In all of his encounters with global leaders of the chemical enterprise, he urged them to collaborate with ACS in creating opportunities for undergraduates, graduate students and researchers.

One of Dr. Francisco's primary goals for the year was the creation of a Presidential Task Force to consider the development of an International Center. As envisioned by Dr. Francisco, this center would provide American students with the experiences, including cultural training, they will need to compete in the international workplace and help them recognize innovative advances being made in other countries. The task force report on implementing this concept was presented to the Board in December and is expected to be considered in 2011.

In addition, Dr. Francisco assembled a Presidential Task Force on Innovation in the Chemical Enterprise: New Technologies for Society; New Jobs for Chemists. This task force, led by Dr. George Whitesides of Harvard University, is developing a plan and creating a roadmap for how new job opportunities can be created through entrepreneurship and how ACS might support this new concept. Their report will be completed in early 2011.

He also sponsored Presidential Symposia on the future of American job creation at ACS National Meetings in San Francisco and Boston including "Translational Chemical R&D: The Driving Force for Job Creation," and "Educating Chemists with the Skills Needed to Compete in the New Global Economy." Dr. Francisco spoke during an ACS Webinar about "Using Your Chemistry Education to Unlock Career Opportunities in the New Decade." In addition, he participated in an ACS Town Hall Forum, hosted by the Society's Northeastern Local Section, on "Prospects for Chemistry in the U.S. Economy."

As only the second African-American to serve as ACS president, Dr. Francisco promoted diversity during his year in office. He sponsored a Presidential Symposium on "Women of Color," and was an active participant in the 15th anniversary of the ACS Scholars Program, which helps underrepresented minority students achieve their dreams of degrees and careers in a broad range of chemical sciences. During his presidential year, the ACS Board of Directors received a report from a Task Force on Implementing the ACS Diversity Reports. This task force was formed in 2009 and jointly appointed by Dr. Francisco and his predecessor, Thomas H. Lane. Dr. Francisco was also the featured speaker at Tuskegee University's 11th Annual George Washington Carver Convocation, which celebrates the achievements and legacy of this world-renown African-American scientist and educator.

During Dr. Francisco's presidential year, The Kavli Foundation, an internationally recognized philanthropic organization known for its support of basic scientific research, agreed to sponsor a series of lectures on scientific innovation at ACS National Meetings beginning in 2011. These lectures will address the urgent need for vigorous "outside-the-box" thinking by scientists as they tackle many of the world's mounting challenges including climate change, emerging diseases and water and energy shortages.

In summing up his presidential year, Dr. Francisco says, "It has been about creating opportunities for our citizenry to develop skills and gain experience to function effectively and competitively in the global marketplace by keeping innovations from around the globe flowing into the chemical enterprise of this country. International collaborations are essential to the future health and vibrancy of chemical research and innovations from our industries and universities. ACS is key to catalyzing these opportunities for our enterprise."

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# Career Services

## Working on Job Creation

In addition to its many valued career services and professional development programs, the Society held its first Virtual Career Fair in November. More than 2,600 people registered for the event, which featured 27 exhibitors, 109 recruiters and had 196 job openings available. Job seekers made more than 10,000 visits to employer booths to discuss these open positions. Exhibitors and job seekers initiated more than 1,400 real-time chats and exchanged more than 600 emails. This virtual event also offered six online Webinars, which attracted nearly 1,900 participants. Additional Career Webinars are now available online weekly. ACS also began offering members guidelines and tips on how to set up job clubs for unemployed or underemployed chemical professionals in their communities.

In addition, ACS President Joseph S. Francisco assembled a Presidential Task Force on Innovation in the Chemical Enterprise: New Technologies for Society; New Jobs for Chemists. This task force, led by Dr. George Whitesides of Harvard University, is developing a plan and creating a roadmap for how new job opportunities can be created through entrepreneurship and how ACS might support this new concept. Their report will be completed in early 2011.

In December, the ACS Board of Directors adopted the 2011-2012 ACS Public Policy Priorities that continue the Society's focus on creating opportunity through scientific innovation. The Board also adopted a new policy statement focused on strengthening the U.S. business climate through policies that impact tax and trade, intellectual property, technology transfer and commercialization, small business, and entrepreneurship. Along with continuing ACS statements on research and technology development and science education, the new statement will guide our efforts as we advocate for the chemistry enterprise with members of Congress and other public officials.

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# Communicating the Value of Our Science

Science is a bit like a tree falling in the forest. If nobody knows what you're doing or why it matters, odds are they won't notice you.

In 2010, ACS relied on a mixture of old, but dependable, and new, cutting-edge techniques to reach as broad an audience as possible and to teach our members the value of simple, straight-forward communication.

ACS issued more than 1,000 print, electronic and social media news items in 2010, reaching an estimated potential audience of *3.1 billion people per month*. In addition to a Press Blog, which highlights prominent research from ACS' 39 peer-reviewed journals and other interesting scientific developments, we expanded our Digital Services Unit. This unit created popular general audience videos about the Chemistry of Fireworks, the Chemistry of Barbecue, Chemistry of Sourdough, the Chemistry of Thanksgiving and other topics. These videos received tens of thousands of views on YouTube and Vimeo, as well as coverage on Time, Wired, Los Angeles Times, Washington Post, AOL News, LiveScience and many other sites.

Video also had a prominent role in the Chemistry Ambassadors program. Founded in 2009, the program helps connect our members and their messages with the people who live in their communities. It's about encouraging our members to be compelling spokespersons for their profession, whether they have a lot of time, or a little. It's about connecting ACS's many and excellent resources with the audiences they are intended to serve. And doing it with a human face and voice.

To encourage that, we conducted more than 300 mini-media training sessions at ACS National Meetings in 2010. These 2- to 5-minute sessions helped members develop brief, effective "elevator" speeches they can use to describe their work to friends, neighbors and others. In many cases, the results as shown in this short video are truly remarkable.

More than 6,500 ACS members became Chemistry Ambassadors in 2010, nearly quadrupling the reach of the program since it began in August 2009.

In October, we revived the "Sparkle" communications workshops, which were a once-popular ACS fixture in the 1990s. This two-day seminar immersed local section participants in hands-on activities, including writing press releases and speaking with the media, that familiarized them with ways to put chemistry into the headlines. Among the speakers was Ron Seely, a journalist at the Wisconsin State Journal and recipient of the 2010 Grady-Stack Award. In all, 25 local sections sent public relations chairs to be trained—to speak and write compellingly on behalf of chemistry, and to use those skills to build greater community awareness for their local sections through the news media. These workshops are scheduled to continue in 2011.

Finally, good leadership begins with good communication. That's what nearly 300 ACS members learned in Fort Worth in 2010 at the ACS Leadership Training Institute. This comprehensive curriculum that provides practical courses, including developing communications strategies, will help these leaders of the future advance their careers, and equip them with tools to more effectively take charge of ACS volunteer initiatives.

The net result of all of these efforts is this: The next time a scientific "tree" falls in the ACS forest, we will be heard.

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# Making International Connections

More than 24,000 ACS members live overseas. That is nearly 15 percent of our membership, and it is growing daily. So if chemistry is going global, what should ACS do? Go with it, says ACS President-Elect Nancy B. Jackson.

In a C&EN commentary earlier this year, Jackson concluded: "Leadership in the international community will help others, but it will also help our U.S. members, providing access to international networks, encouraging that the best papers be published in ACS journals, and providing us with insights into new opportunities for research and manufacturing.

"The world is changing. If ACS is to remain a global leader, the time to act is now."

The ACS Board of Directors agrees. And in 2010 we acted vigorously to ensure our continued prominence on the global stage.

One of Dr. Francisco's primary goals for the year was the creation of a Presidential Task Force to consider the development of an International Center. As envisioned by Dr. Francisco, this center would provide American students with the experiences, including cultural training, they will need to compete in the international workplace and help them recognize innovative advances being made in other countries. The task force report on implementing this concept was presented to the ACS Board of Directors in December and is expected to be considered in 2011.

Dr. Francisco also traveled widely on behalf of ACS and its members, visiting Canada, England, Egypt, China, South Korea, Taiwan, Germany, Norway, Columbia, Bahrain and Israel. In all of his encounters with global leaders of the chemical enterprise, he urged them to collaborate with ACS in creating opportunities for undergraduates, graduate students and researchers.

In June, ACS signed a memorandum of collaboration with the Chinese Chemical Society to further strengthen our bilateral ties. Both sides agreed to a three-year cooperation alliance beginning in 2010, promising to better serve chemical scientists, engineers, and professionals in the two countries. In September, we signed a Memorandum of Understanding with Gesellschaft Deutscher Chemiker (the German Chemical Society, GDCh). In conjunction with our German counterparts, we plan to carry out joint activities focused on communicating the value of chemistry to the general public and the role chemistry plays in addressing global challenges.

We also followed up on a previous agreement with the Royal Society of Chemistry (RSC), launching complementary Web sites that will help the public and chemists learn more about key global challenges and sustainability. These sites are the first fruit of several joint efforts planned under a cooperative memorandum of understanding signed by ACS and RSC in 2009.

In another action that had international implications, the Society added all ACS member profiles (except for those opting out) to the ACS Network. The Network is the premier online forum for chemists and other scientists to communicate and build professional connections. By vastly broadening its reach to more than 173,000 scientists, ACS is expanding the possibilities for its members to instantly connect and collaborate no matter where they are in the world.

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# Promoting Education

## Preparing Students for the Expanding Science-Driven Future

Sometimes it takes more than a match to light a fire and keep it going. That's the great challenge that we face as we try to inspire students to seek knowledge and careers in science and prepare them for the realities of the global marketplace.

In 2010, ACS met this challenge. We not only 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.

One of our most successful efforts, The ACS Scholars Program, celebrated its 15th anniversary in 2010. This program helps underrepresented minority students achieve their dreams of degrees and careers in a broad range of chemical sciences. In all, nearly 2,400 African-American, Hispanic/Latino, and Native American students have participated in the program since 1995. Of those, nearly 1,100 have earned bachelor's degrees in a chemical science and 37 percent have entered the chemical science workforce. More than 75 of these ACS Scholars have gone on to earn doctoral degrees in chemistry, chemical engineering or a related discipline.

Record numbers of students participated in Project SEED, which offers high school students the rare opportunity to work in academic, government or industrial research laboratories for an eight- to 10-week term. In 2010, the program placed 444 economically disadvantaged high school students in more than 150 research laboratories under the supervision of more than 420 volunteer scientific mentors.

We also launched the ACS Middle School Chemistry Unit. This six-chapter chemistry unit is available for free online and features demonstrations and hands-on activities along with molecular model images and animations that help students understand atoms, ions and molecules.

The Science Coaches Program was another new initiative in 2010. This program, which resulted from a recommendation by the ACS Board-Presidential Task Force on Education, matches a teacher with a Science Coach. Together, they 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. 32 coaches are participating in the pilot year.

For the second year in a row, ACS is collaborating with the Society of Chemical Industry (SCI), America International Group, and the American Institute of Chemical Engineers (AIChE) to provide a summer internship program that introduces exceptional chemistry and chemical engineering undergraduates to careers in the chemical industry. The program has expanded since the first year when 21 students participated. In 2011, 29 selected students will participate in paid summer internships and will also receive $1,000 to attend a technical meeting of their choice. They will also nominate a high school science teacher for recognition and a $1,000 award.

ACS advocated for science education on Capitol Hill. The reauthorization of the America COMPETES Act, a top ACS advocacy objective, was unexpectedly resurrected in the U.S. Senate by long-time ACS allies Senators Lamar Alexander (R-Tenn.) and Jeff Bingaman (D-N.M.) and passed by Congress and signed into law. The restructured bill covered a shorter timeframe and lower investments than those passed earlier by the House. The COMPETES law included language sought by ACS to create a green chemistry program at the National Science Foundation. The program will fund grants and curricula materials and support public-private green chemistry partnerships. ACS activated its Legislative Action Network (LAN) to encourage its 16,000 members to write their legislators in support of the legislation. ACS also issued a press release applauding Congress for passing the bill.

Our efforts to promote interest in science also went beyond the classroom.

In May ACS was one of the primary sponsors for National Lab Day. The event, which is now known as the National Lab Network, featured thousands of scientists — including more than 450 ACS members — participating in hands-on experiments and science-based activities with students across the nation in an effort to kindle an excitement for science, technology, engineering, and math (STEM). Nationally, the grassroots movement offered more than 1,700 projects matching 11,000 teachers and volunteers to bring real science to students from kindergarten to 12th grade.

"National Lab Day is truly breaking new ground in connecting scientists and engineers with educators and students across the country," said ACS President Joseph S. Francisco. "One project and community at a time, National Lab Day is helping our children learn about the wonders of science in ways that will help inspire them to pursue the technology careers that will keep our country strong and prosperous."

National Lab Day was launched in response to President Barack Obama's call at the National Academy of Sciences in 2009 for all Americans to elevate Science, Technology, Engineering and Math education as a national priority. As part of this commitment, President Obama invited Nathan S. Benjamin, a 2009 International Chemistry Olympiad silver medalist, to attend the first White House Science Fair in October.

Annual Report 2010
FINANCIALS

# Financial Highlights

Despite the relatively modest pace of the economic recovery, the American Chemical Society (ACS) ended 2010 with outstanding operating results. As noted in the accompanying financial summary, ACS generated a net contribution of $26.7 million, the highest net ever. The Society's record net contribution was attributable to a combination of outstanding financial performance from the Information Services divisions (Chemical Abstracts Service and ACS Publications) as well as effective expense management across the Society program and administrative units.

The Society's financial condition strengthened in 2010 with unrestricted net assets increasing to $169.9 million at December 31, 2010 from $159.3 million in 2009. The increase can be attributed to the net contribution combined with net investment gains of $19.1 million. These increases were partially offset by accounting charges ($35.2 million) related to the Society's postretirement benefit plans (i.e., defined benefit pension plan and retiree medical plan).

The 2010 financial results represent the seventh consecutive year of positive net contribution from operations. This achievement allowed the Society to increase its significant investment in technology and new product development including the launch of several new journals as well as ACS Mobile, a mobile software application for users of Apple's iPhone®, iPod Touch® and iPad® devices. By year end, ACS was publishing 39 peer-reviewed journals and the CAS Registry exceeded more than 56 million records for organic and inorganic substances.

The Society's ongoing commitment to technology investment and new product development will ensure that the ACS continues to meet the diverse needs of its many constituents including members, customers, technical divisions and local sections. Looking ahead, the Society is well positioned to extend the reach of its high quality products and services to assist both members and chemical practitioners coping with a rapidly changing and globalizing chemistry-related workplace.

A copy of the Society's audited financial statements for the year ended December 31, 2010, 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 2009 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 Info. ACS executive salaries and other compensation are outlined in the following four pages (Schedule J) of the document.

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

# Financial Summary

($ in Thousands)

| | 2010 | | | 2009 |
|---|---|---|---|---|
| **Statement of Financial Position** | ACS Programs | Petroleum Research Fund | Total | Total |
| ASSETS | | | | |
| Cash and Cash Equivalents | $ 28,710 | $ 10,505 | $ 39,215 | $ 43,898 |
| Accounts and Pledges Receivable | 70,306 | – | 70,306 | 60,013 |
| Inventories | 4,841 | – | 4,841 | 6,264 |
| Investments | 425,137 | 472,012 | 897,149 | 844,429 |
| Interfund (Payable) Receivable | (15,986) | 15,986 | – | – |
| Collateral Held | 37,332 | 25,770 | 63,102 | 33,315 |
| Other | 12,940 | 22 | 12,962 | 16,550 |
| Buildings, Land, and Other Property | 104,030 | – | 104,030 | 105,534 |
| Total Assets | $ 667,310 | $ 524,295 | $ 1,191,605 | $ 1,110,003 |
| LIABILITIES AND NET ASSETS | | | | |
| LIABILITIES | | | | |
| Accrued Expenses and Accounts Payable | $ 68,226 | $ 7,800 | $ 76,026 | $ 74,382 |
| Deferred Revenues | 120,205 | – | 120,205 | 106,392 |
| Short and Long-Term Debt | 3,869 | – | 3,869 | 25,182 |
| Postretirement Benefits and Other | 182,289 | 2,788 | 185,077 | 183,055 |
| Collateral Payable | 37,332 | 25,770 | 63,102 | 33,315 |
| Total Liabilities | 411,921 | 36,358 | 448,279 | 422,326 |
| NET ASSETS | | | | |
| Unrestricted | 169,922 | – | 169,922 | 159,338 |
| Temporarily Restricted | 22,685 | 415,437 | 438,122 | 396,396 |
| Permanently Restricted | 62,782 | 72,500 | 135,282 | 131,943 |
| Total Net Assets | 255,389 | 487,937 | 743,326 | 687,677 |
| Total Liabilities and Net Assets | $ 667,310 | $ 524,295 | $ 1,191,605 | $ 1,110,003 |
| **Statement of Activities** | | | | |
| REVENUES | | | | |
| Electronic Services | $ 390,386 | $ – | $ 390,386 | $ 375,742 |
| Printed Services | 14,270 | – | 14,270 | 23,707 |
| Advertising | 8,824 | – | 8,824 | 8,977 |
| Dues | 12,361 | – | 12,361 | 12,098 |
| Registration Fees and Booth Sales | 11,438 | – | 11,438 | 9,781 |
| Member Insurance Premiums | 14,482 | – | 14,482 | 15,709 |
| Investment Income | 10,015 | 60 | 10,075 | 12,153 |
| Other | 6,641 | – | 6,641 | 6,981 |
| Net Assets Released from Restriction | 5,977 | 15,781 | 21,758 | 34,392 |
| Total Unrestricted Revenues | 474,394 | 15,841 | 490,235 | $ 499,540 |
| EXPENSES | | | | |
| Information Services | 345,707 | – | 345,707 | 347,918 |
| Member Programs and Services | 40,075 | – | 40,075 | 40,437 |
| Member Insurance Program | 14,582 | – | 14,582 | 15,270 |
| Grants and Awards | 3,117 | 14,029 | 17,146 | 28,822 |
| Administrative | 34,652 | 1,812 | 36,464 | 37,532 |
| Other | 9,574 | – | 9,574 | 9,654 |
| Total Expenses | 447,707 | 15,841 | 463,548 | 479,633 |
| Net Contribution | 26,687 | – | 26,687 | 19,907 |
| Net Investment Gains | 19,096 | – | 19,096 | 32,120 |
| Change in Pension Funding Status and Other | (35,199) | – | (35,199) | 17,600 |
| Change in Unrestricted Net Assets | 10,584 | – | 10,584 | 69,627 |
| Contributions | 3,416 | – | 3,416 | 40,147 |
| Investment Income and Net Investment Gains | 7,551 | 55,856 | 63,407 | 93,569 |
| Net Assets Released From Restriction | (5,977) | (15,781) | (21,758) | (34,392) |
| Other | 238 | (238) | – | (43) |
| Change in Restricted Net Assets | 5,228 | 39,837 | 45,065 | 99,281 |
| Change in Total Net Assets | 15,812 | 39,837 | 55,649 | 168,908 |
| Beginning Total Net Assets | 239,577 | 448,100 | 687,677 | 518,769 |
| Ending Total Net Assets | $ 255,389 | $ 487,937 | $ 743,326 | $ 687,677 |

# Allocation of Dues & Member Status

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

## 2010 Allocation of Dues

| ($ in Thousands) | | |
|---|---|---|
| C&EN | $ 5,897 | 38% |
| Support for Society Programs | 2,596 | 16% |
| Member Services | 3,868 | 25% |
| Local Section Allotments | 1,820 | 12% |
| Division Allotments | 1,387 | 9% |
| Total | $ 15,568 | 100.0% |

Excluding the impact of Local Section and Division Allotments. 2010 dues revenue totaled $12,361,000 as reported on the Financial Summary page.

## Membership Status*

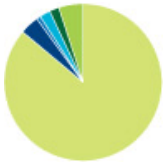
| Year-End 2010 | |
|---|---|
| Emeritus Member | 13,600 |
| Regular Member | 105,842 |
| Regular Student Member | 19,770 |
| Undergraduate Student Member | 14,575 |
| Retired Member | 5,706 |
| Society Affiliate | 1,105 |
| Unemployed Member | 2,513 |
| Total | 163,111 |

*Source: ACS Demographics

## ACS Members in the Workplace 2010*

Education
- 64% Ph.D.
- 18% M.S.
- 17% B.S.
- 1% Less than B.S. or other

Employment
- 60% business/industry
- 31% academia
- 9% government, other sectors, self-employed



Employment of domestic ACS members under 70 years old
- 84% employed full-time
- 4% employed part-time
- 4% postdoc
- 4% unemployed
- 2% not employed, but not seeking employment
- 2% retired

## 2010 Division Year-End Membership Summary

| Division Name | Division Total |
|---|---|
| Agricultural & Food Chemistry Division | 2,973 |
| Agrochemicals Division | 1,271 |
| Analytical Chemistry Division | 8,655 |
| Biochemical Technology Division | 3,234 |
| Biological Chemistry Division | 7,371 |
| Business Development & Management Division | 974 |
| Carbohydrate Chemistry Division | 793 |
| Catalysis Science and Technology Division (probationary) | 513 |
| Cellulose & Renewable Materials Division | 1,265 |
| Chemical Education Division | 5,406 |
| Chemical Health & Safety Division | 1,368 |
| Chemical Information Division | 1,064 |
| Chemical Toxicology Division | 1,242 |
| Chemistry & the Law Division | 1,185 |
| Colloid & Surface Chemistry Division | 2,543 |
| Computers in Chemistry Division | 2,237 |
| Environmental Chemistry Division | 5,041 |
| Fluorine Chemistry Division | 577 |
| Fuel Chemistry Division | 1,382 |
| Geochemistry Division | 772 |
| History of Chemistry Division | 760 |
| Industrial & Engineering Chemistry Division | 3,668 |
| Inorganic Chemistry Division | 6,155 |
| Medicinal Chemistry Division | 10,575 |
| Nuclear Chemistry Division | 973 |
| Organic Chemistry Division | 16,081 |
| Petroleum Chemistry Division | 1,281 |
| Physical Chemistry Division | 5,800 |
| Polymer Chemistry Division | 5,247 |
| Polymeric Materials Science & Engineering Division | 4,522 |
| Professional Relations Division | 839 |
| Rubber Division | 1,604 |
| Small Chemical Businesses Division | 559 |
| Total | 107,930 |

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.


# ACS by the Numbers

The American Chemical Society achieved some significant milestones in 2010. We are 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.

**5,081**
ACS membership in 1910.

**163,000 +:**
ACS membership as of Dec. 31, 2010.

**32,000 +**
Combined attendance at 2010 ACS National Meetings in San Francisco and Boston.

**20,000 +**
Number of papers submitted for those ACS National Meetings.

**743**
Presentations posted online after 2010 ACS National Meetings.

**21,500+**
Unique visitors who viewed those presentations online.

**192**
Number of scientists inducted into the 2010 class of ACS Fellows during the Boston National Meeting.

**4,727**
Job seekers who participated in ACS Career Fairs at those national meetings and in the ACS Virtual Career Fair online.

**134**
Number of employers recruiting applicants.

**800**
Job opportunities available.

**131**
Total number of ACS Petroleum Research Fund grants awarded in 2010.

**$11 million**
Funding allocated for those grants.

**25**
Number of ACS PRF grantees who have received the Nobel Prize.

**2**
Number of 2010 Nobel Laureates in Chemistry – Ei-ichi Negishi and Richard F.Heck – whose work is supported by the ACS PRF.

**6,543**
Number of ACS members who became ACS Chemistry Ambassadors.

**100**
Percentage of ACS peer-reviewed journals that received news coverage in 2010.

**1,000 +**
Estimated number of print, electronic and social media news items issued by ACS in 2010.

**3.1 billion**
Average potential worldwide audience per month for those news items.

**300,000 +**
Downloads of ACS podcasts in 2010.

**444**
Number of economically disadvantaged high school students who participated in Project SEED in 2010, a record for the 42-year-old program.

**15**
Years since ACS inaugurated the ACS Scholars program.

**2,400**
Number of students from underrepresented backgrounds who have participated in ACS Scholars in that time.

**1,070**
Number who have earned at least a bachelor's degree in a chemical science.

**75**
Number of ACS Scholars who have earned Ph.Ds.

**173,000**
Members of the ACS Network, the premier online forum for chemists and other scientists to communicate and build professional connections.

**14,852**
ACS members who participate in the Legislative Action Network.

**77,000+**
Messages sent by ACS members to Congress and other public policy makers in support of science issues through the Legislative Action Network.

## 820
Number of people who enrolled in ACS Leadership Development courses in 2010.

## 56.2 million
Chemical substances in CAS REGISTRY at the end of 2010.

## 62 million
Sequences in CAS REGISTRY at the end of 2010.

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

## 1.3 million
Indexed records added to CAplus in 2010.

## 71
Countries where SciFinder® is used.

## 37,167
Number of peer-reviewed articles published in ACS Journals in 2010.

## More than 71 million
Journal articles downloaded by researchers from the ACS Web Editions Platform in 2010.

## 13
Number of subject categories in which ACS Journals rank #1 in total citations and/or ISI Impact Factor™ as reported in the 2009 Journal Citation Reports™ from Thomson Reuters.

## 325
ACS-chartered high school chemistry clubs in 2010.

## 25
Percentage increase in the number of ACS-chartered chemistry clubs from 2009 to 2010.

## 5
Medals won – two gold, one silver and one bronze – by the American team at the 42nd International Chemistry Olympiad (IChO) in Tokyo, Japan. It was the best performance by an American team since 2002.

## 470
Academic institutions worldwide that received a 20 percent boost in their concurrent CAS "user seats" in summer 2010, at no additional cost. Allocation of another 500 seats began in February 2011 and will continue as capacity becomes available.

## 50,000
Registrants who participated in ACS Webinars in 2010.

## 500,000
Estimated crowd at the USA Science and Engineering Festival on the National Mall in Washington, D.C. in October. ACS was recognized as a "Perfect Festival Partner" by event organizers.

## 100
Number of ACS Local Section Government Affairs Committees.

## 17
Science & the Congress briefings conducted on Capitol Hill and elsewhere to educate lawmakers and their staff about science issues.

## 1,565
The number of participants at those Science & the Congress briefings, including 431 U.S. House and Senate staff members

## 14,577
Bachelor's degrees earned by students in ACS-approved chemistry programs in 2008-09, an all-time high.

## 2,543
Doctorates earned by students in ACS-approved chemistry programs during that same time span.

Annual Report 2010

# BOARD OF DIRECTORS & OFFICERS 2010

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## Gifts were made in honor of the following individuals:

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

LEARN MORE

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

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