



Perhaps it was that first rudimentary chemistry set, the allure of changing one substance into another, or an overwhelming desire to understand *everything* around us. Perhaps it was nurtured by an elegant book, an encouraging parent, or an extraordinary teacher. But at some point, **chemistry captivated us...**







...and *never* let go.

The thrill still stirs us. You can hear it in the voice of the industrial chemist who marvels that without chemistry there would be no iPhones, computers or life-saving drugs. It's evident in the words of the theoretical chemist who finds the molecular world is, in many ways, a physical manifestation of her culture's philosophy. And it's in the voice of the young chemical engineer who is excited to be a part of a team developing new fuel cell technology.

Our challenges differ. Our specialties vary. But we share a passion for the chemical sciences and the American Chemical Society. *Our science, our lives, our stories are intertwined.*





Catherine T. (Katie) Hunt  
ACS President



Judith L. Benham  
Chair, Board of Directors



Madeleine Jacobs  
Executive Director & CEO

In 2007, we spent a lot of time listening to our members. We continue to be impressed with their ideas, their optimism and, yes, their passion.

They want an ACS that reflects their changing interests, expectations and needs. They want a Society that delivers access to relevant news, information, career help and professional development. They want tools and services that will enhance their research capabilities as well as allow the global scientific community to connect, communicate and collaborate. In short, they want a Society that will help us all thrive in the 21st century.

We heard and acted, launching a series of bold initiatives and strategic efforts — discussed elsewhere in this message — that will ensure ACS continues to provide its members with premier benefits and value.

As we listened, we were impressed with our members' stories about their lives and their work. Many of these stories are featured in a

special section of this year's annual report. This section, which includes dozens of comments from ACS members, explores some of the fundamental inspirations and motivations that drive chemists and chemical engineers and why they value ACS and its services.

What is striking about these stories is a common commitment to the spirit of the ACS vision statement, **"Improving people's lives through the transforming power of chemistry."** This vision, adopted in 2006 after broad consultation with our membership, clearly resonates. Whether they are producing better medicines, new sources of renewable energy or one of the thousands of other advances that will allow us to live on a clean, sustainable planet, ACS members have embraced this vision and are acting on it.

### Board approves new strategic plan

The ACS Board of Directors spent much of 2007 developing a robust strategic plan that builds and expands on this vision as well as our mission, **"To advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people."** This plan, *ACS Strategic Plan for 2008 and Beyond*, marks both the culmination of a deliberative process — involving thousands of members, our volunteer governance and ACS staff — and the launch of an exciting path toward creating the ACS of the future. The plan will ensure that ACS remains the leading professional society for our members and our science.

The centerpiece of the plan is six specific forward-thinking goals, along with detailed strategies and

metrics for achieving each. Very briefly, the goals are to provide indispensable resources, engage the global community, affect world challenges, communicate chemistry, advocate for the profession, and maintain financial health.

Today's chemistry enterprise faces pressures of globalization, increased competition for research funding and the ever-growing influence of new information technologies. To respond and lead, ACS must position itself through strategic thinking and planning. We believe *ACS Strategic Plan for 2008 and Beyond* will help us achieve this end. The complete text of the plan, as adopted by the Board, is available at [www.acs.org/strategicplan](http://www.acs.org/strategicplan).

In 2007, ACS also completed a review of the Society's governance and its Constitution and Bylaws to ensure that the Society has a governing framework that best enables us to meet member needs and remain a world-class organization. During this review, ACS volunteers and staff made significant strides toward improving ACS governance structures, policies and procedures. Certainly, changes to an organization as successful as the ACS are never made lightly, and it will take some time to see the final outcomes of the many reforms underway. But we believe that, as a result of this governance review, ACS will be much better positioned to fulfill our vision.

In addition, the ACS Petroleum Research Fund (ACS PRF), one of the nation's largest private chemistry

philanthropies, completed a major review of its programs. With assets approaching \$600 million, ACS PRF represents one of the Society's most significant financial commitments to the scientific community and, more importantly, advances our fields of science in ways that no other organization can accomplish. It occupies a unique and critical niche in the chemistry enterprise.

As a result of this review, the ACS PRF developed a set of modified grant guidelines driven by its new vision statement, which commits the ACS PRF to "support innovative fundamental research, advanced scientific education, and the careers of scientists to aid in significantly increasing the world's energy options." The Society is also considering three new ACS PRF programs that will promote innovation, multidisciplinary research and the participation of minorities and women in the petroleum sciences. We anticipate that implementing these changes will allow the fund — which has supported nearly \$500 million of energy-related research in the past 50 years — to have significant and lasting impact in the years ahead.

### ACS rejuvenates its Web presence

Perhaps the most visible and exciting change is our new Web site. Over the past three years, we have been developing a new Web presence based on hundreds of user tests, surveys and focus groups. In sum, members told us that finding

information in one place is a top priority. The result is [www.acs.org](http://www.acs.org).

Unveiled in September, [www.acs.org](http://www.acs.org) is the global hub for chemistry and other scientific disciplines that involve chemistry and chemical engineering. The new site provides more intuitive access to information from the world's largest scientific society. That bounty includes cutting-edge science news, subscriber access to the Society's suite of 36 peer-reviewed scientific journals, job listings and career services, podcasts and other resources. All ACS information and services are grouped into ten categories, which simplify navigation across the site. In addition, an improved search engine helps users quickly find out about meetings, society programs, peer-reviewed research and other topics. So whether you are an ACS member, a policy maker, a journalist or science teacher, you will find that ACS has a lot to offer — and now it's all easy to find.

As the Web site evolves, ACS plans to add social networking tools, a searchable membership directory and other features.

In conjunction with the launch of this new Web site, the Society consolidated its career-related offerings to better meet the needs of our members seeking employment in a globally competitive environment. As a result, all ACS resources for jobseekers are now available at [www.acs.org/careers](http://www.acs.org/careers).

This "one-stop" online center integrates our services into an ACS Careers suite, allowing quick access

to job listings, the ACS Career Consultant Program and a plethora of electronic career advice publications. Electronic resources from the Education and Membership and Scientific Advancement Divisions as well as articles from *Chemical & Engineering News* are also available.

The Internet also was a vital tool for ACS President Catherine T. (Katie) Hunt, who created a Web site for the Office of the ACS President. This new site, [www.acspresident.org](http://www.acspresident.org), previewed presidential events and promoted thematic programming for the ACS national meetings. The site also featured video highlights from two presidential symposia — “*Sustainability of Energy, Food and Water*” and “*Material Innovations, from Nanotechnology to Biotechnology and Beyond!*” — presented at 2007 ACS national meetings in Chicago and Boston.

President Hunt focused much of her efforts on sustainability and other emerging global challenges. She joined with other scientific society presidents worldwide in crafting and signing a pledge to “work together to promote global sustainable development, demand responsible use of resources, and ensure that the next generation of scientists protects and maintains the well-being of Earth and its inhabitants.” ACS President-elect Bruce Bursten supports this pledge and plans to build on his predecessor’s achievements in 2008, stressing the importance of education and more effectively communicating the beauty, value and centrality of chemistry to policy makers and the general public.

President Hunt also formed an ACS Task Force on Enhancing Innovation and Competitiveness. The goal of this task force is to evaluate and recommend new, innovative advocacy processes and tools to even more effectively communicate the importance of science and technology to our everyday lives. In addition, she testified before Congress and spent countless hours discussing vital scientific issues with the public, industry leaders and the media.

In her Congressional testimony and her media appearances — including an hour on National Public Radio’s *Science Friday* with Ira Flatow — President Hunt’s message was straightforward and compelling: chemistry is at a crossroads. As a nation, it’s time for us, she said, to reignite our commitment to science and technology. As a Society, it’s time for us to promote science and technology on the local and national stage, from championing research investment to building technology partnerships, and from mentoring students to promoting science fairs. As scientists, it’s time for us to collaborate, forming a vibrant and vocal technical community. As individuals, it’s time for us to innovate, recreating our companies, our universities/schools and ourselves. And as always, our membership is a driving force in each of these efforts.

### Membership helps pass America COMPETES Act

For the second consecutive year, ACS membership exceeded 160,000. And these members made their voices heard in an important 2007 legisla-

tive effort: the America COMPETES Act signed by President George W. Bush in August. This milestone legislation will bolster U.S. innovation and foster global competitiveness. The act brought together various pieces of legislation dealing with federal research and development as well as science, technology, engineering and math (STEM) education into a comprehensive bill. Passage of the act culminated two years of sharply focused ACS advocacy. That effort included 41 ACS Presidential letters to the White House and Capitol Hill, 75 meetings between local section members and their congressional representatives, 167 meetings of ACS governance with congressman and senators, 250 ACS staff meetings with congressional offices, and 21,370 ACS Legislative Action Network Letters to elected officials. Like her predecessors, ACS President Hunt played a vital leadership role in bringing together the science, technology, business and education communities in support of America COMPETES and in communicating the importance of funding scientific research and education to our nation’s leaders. Overall, this was an extraordinary advocacy effort and achievement for ACS and its members.

ACS members substantially increased their advocacy efforts to promote other key legislative priorities. More than 14,000 members participated in the ACS Legislative Action Network, sending 13,030 letters to elected officials in 2007. In addition, 85 ACS members, representing 39 local sections, participated in 150 congressional office visits.

Members also generously supported ACS programs that contribute to the future of chemistry. More than 7,500 members and friends made donations to help foster the next generation of scientists through Project SEED, a high school summer research program, and the ACS Scholars Program, a scholarship and mentoring program for minority students pursuing undergraduate degrees in the chemical sciences. Grants from corporations and foundations allowed us to extend the reach of these programs and significantly increase our offerings for teacher professional development to include interdisciplinary training for middle school science teachers, green chemistry training for high school chemistry teachers, and new undergraduate faculty development. Individuals, corporations and foundations also contributed to protecting human health and the environment through support of the ACS Green Chemistry Institute® and sponsorship of the Green Chemistry and Engineering Conference.

In addition, the Society introduced a planned giving newsletter, confirmed several deferred gifts, and planned the formal launch of ACS Legacy Leaders to recognize members who have included the Society in their estate plans. Dr. Alfred Bader, a longtime ACS supporter, along with his wife, Isabel, presented the Society with an estate-intent document that will provide \$100,000 annually for 30 years to fund college scholarships for students who have completed two summers of Project SEED.

### Society formulates international strategy

Globally, the Society continued to promote education and international cooperation. For instance, ACS and the U.K.-based Society of Chemical Industry entered into a partnership to organize a series of events around Global Innovation Imperatives designed to foster knowledge exchange and innovation on topics of particular urgency for the global community. In conjunction with the U.S. Civilian Research and Development Foundation, ACS provided professional training for Iraqi chemists during the Society’s national meeting in Boston. And with the cooperation of the National Natural Science Foundation of China, ACS organized a collaborative workshop to catalyze research between young Chinese and American chemical biologists.

As we face the realities of globalization, fashioning a comprehensive and effective international strategy is critical. To address these concerns, the Board of Directors appointed an International Strategy Working Group in early 2007 to identify opportunities to enhance our international alliances and be more welcoming to chemical scientists worldwide. After nearly a year of consultation, the working group made several recommendations for ACS to better serve an increasingly global chemistry community. ACS will implement several key elements of the international strategy in 2008.

### CAS celebrates centennial

While much changed in 2007, one thing remained constant: ACS continued to provide top-notch scientific information through our publications — our journals and *C&EN* — and products of the Chemical Abstracts Service (CAS) that help make progress possible.

CAS celebrated 100 years of service to the chemical sciences in 2007. Of course, we are also proud of many other significant ACS celebrations that occurred this year — the 20<sup>th</sup> anniversary of National Chemistry Week, the 80<sup>th</sup> year of the Women’s Chemists Committee, the 85<sup>th</sup> anniversary of the ACS History Division — but CAS is the granddaddy of them all.

Beginning with slightly more than 11,000 abstracts in 1907, CAS has become the world’s most comprehensive digital source of chemical information and has truly transformed the way scientists conduct research. In recognition of these accomplishments, CAS was designated a National Historic Chemical Landmark in June. *C&EN* devoted a special issue to CAS, and it was the subject of a 100<sup>th</sup> anniversary Presidential symposium at the 234<sup>th</sup> ACS National Meeting in Boston. International celebrations were held in Berlin and Tokyo.

As it enters its second century, CAS remains committed to keeping the CAS Registry<sup>SM</sup> the most authoritative collection of disclosed chemical substance information, drawing upon

additional valid sources including prophetic substances described in patents, chemical libraries, and new Web-based resources of value. CAS added nearly 1.1 million indexed document records in 2007, an all-time high. CAS also added approximately 3.1 million substance records to the CAS Registry, which by year end included more than 33 million organic and inorganic substances.

CAS continued to improve and expand its family of SciFinder® research tools, with the addition of SubScape™ — a powerful new substance visualization feature — and the introduction of a new Web-enabled version of SciFinder, which provides chemists and chemical engineers ready and reliable access to our databases from virtually anywhere in the world. The phased

introduction of SciFinder on the Web will continue through much of 2008. In addition, 1,457 academic institutions in 55 countries installed SciFinder Scholar™ last year, a 10 percent increase since 2006.

#### ACS Publications thrive

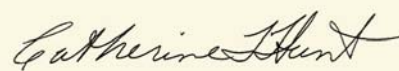
ACS Publications also had an outstanding year. ACS journals published more than 31,000 articles in 2007, exceeding 30,000 for the first time. Researchers downloaded 57 million articles in 2007, a 4 percent increase from 2006 and downloaded 34 million abstracts, a 26 percent increase in just 12 months. ACS peer-reviewed journals continued to rank first in citations and/or ISI Impact Factor in the seven core chemistry categories, as reported

in the 2006 Thomson Scientific Journal Citation Reports®.

In addition, ACS Publications launched two journals — *The Journal of Physical Chemistry C* and *ACS Nano* — and introduced ACS Paragon Plus, an online system for manuscript submission and peer-review. This Web-based, real-time system provides editors, authors, and reviewers with robust new capabilities to simplify the review process and help to ensure the integrity of published information.

The financial contributions of CAS and ACS Publications, revenues from dues, meetings and other activities, as well as solid investment returns and prudent expense control throughout ACS, allowed us to end 2007 in a strong financial position and will allow our Society to thrive in uncertain economic times.

AS WE PROGRESS INTO 2008, ACS WILL REMAIN AN ELEMENTAL PART OF THE CHEMISTRY ENTERPRISE, ADVANCING OUR SCIENCE AND ENSURING THAT THE TRANSFORMING POWER OF CHEMISTRY CONTINUES TO IMPROVE PEOPLE'S LIVES.



**Catherine T. (Katie) Hunt**  
ACS President



**Judith L. Benham**  
Chair, Board of Directors



**Madeleine Jacobs**  
Executive Director & CEO

“Tell Us Your Story,” we asked. And our members responded, eagerly describing why they became chemists, what they find rewarding about our science and why they value the ACS. Some of these compelling stories — part of an ongoing Society oral history project — are featured in the following pages.

In their own words, our members reveal why they are committed to **improving people's lives through the transforming power of chemistry.**





# Why?

## Why chemistry?

“I discovered I wanted to major in chemistry as a freshman when I had the chance to do research with Professor Michael Eastman at Northern Arizona University. Through that research, working on questions related to the ‘origins of life’ within clay substrates, I discovered a molecular world that was a physical manifestation of Navajo philosophy — our world view is based on understanding the beginning of things.”

**SHANADEEN BEGAY**

Former ACS Scholar; Ph.D. candidate, Boston University.  
She is a 5-year ACS member.

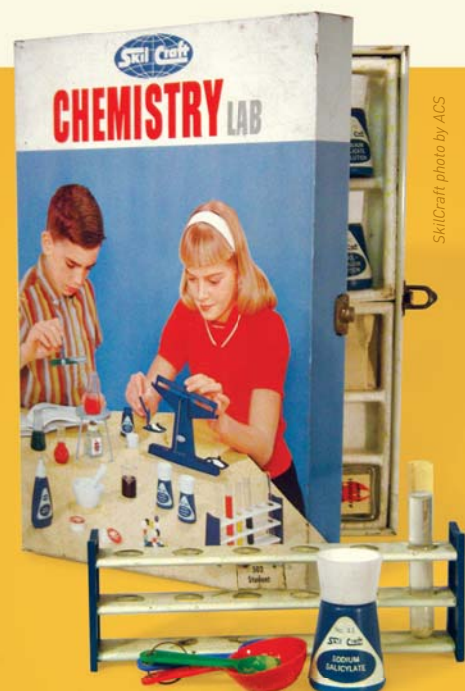
“My interest in chemistry was sparked by two main sources: My first chemistry set at the age of 12 and watching my favorite program, *Mr. Wizard*. While others watched cartoons on Saturday morning, I watched *Mr. Wizard*.”



NBC Television/Hulton Archive/Getty Images.

**ISIAH M. WARNER**

Vice Chancellor for Strategic Initiatives and Boyd Professor and Philip W. West Professor of Analytical and Environmental Chemistry at Louisiana State University, Baton Rouge. He is a 33-year ACS member.



SkitCraft photo by ACS

“I wanted to see things happen. I didn’t see that with biology. I mean, it’s nice to dissect frogs, night crawlers and things like that. But it was the hands-on — where you could make a reaction happen — that really turned the spark on.”

**JOHN ENGELMAN**

Scientist, S.C. Johnson & Son, Racine, Wis.  
He is a 12-year ACS member.

“I was in 7<sup>th</sup> or 8<sup>th</sup> grade when *COSMOS* appeared on PBS. The episode that got me was the one where Carl Sagan took a box full of chemical elements and threw them into the air and they landed in the right order on the periodic table. Of course, it was basically just a camera trick. But then he went on to link chemistry to how the universe is made. After that, I wanted to collect my own set of elements and have everything that makes up the universe in one place.”

**ROBERT de GROOT**

Coordinator for Educational Outreach, Center for the Science and Engineering of Materials, California Institute of Technology, Pasadena, Calif. He is a 16-year ACS member.

“My exuberance for fireworks must have seemed a bit hazardous, so my parents bought me a chemistry set when I was about 8 years old and told me to limit my experiments to our solid concrete basement. From then on I was hooked!”

**PRESTON MacDOUGALL**

Associate Professor of Chemistry, Middle Tennessee State University, Murfreesboro, Tenn. He is a 13-year ACS member.

“When I was 11, my father bought me a book called *Chemistry Creates a New World*. It was a beautifully written book that told different stories about how chemistry has revolutionized the world. I’m very proud of that book. In fact, I keep a copy of it in my office to this day.”

**MUKUND CHORGHADE**

President, Chorghade Enterprises, Natick, Mass. He is a 26-year ACS member.

“I read two books as a 10-year-old in a refugee camp in Germany. One was a biography of Marie Curie. The other was about George Washington Carver. These books gave me my first image of what a chemist did. I was enchanted by the world they portrayed. There was a reason to like Marie Skłodowska [Curie]. She came from Poland. Perhaps my interest in Carver derived from the fact that I had never seen or tasted peanuts or yams or soybeans — his ‘chemical feedstocks.’ ”

**ROALD HOFFMANN**

1981 Nobel Laureate in Chemistry and the Frank H.T. Rhodes Professor of Humane Letters, and Professor of Chemistry, Cornell University, Ithaca, N.Y. He is a 45-year ACS member.



FOR OTHER COMPELLING STORIES GO TO [WWW.ACS.ORG/ANNUALREPORT](http://WWW.ACS.ORG/ANNUALREPORT)



# HOW?

## How did we improve **OUR VALUE** in 2007?

“Without ACS, you’ll be out in the middle of the sea with not a drop of water to drink.”

**BELA BUSLIG**  
Retired chemist, Auburndale, Fla.  
He is a 44-year ACS member.

HIGHLIGHTS | 2007

### CAS databases reach all-time high

CAS scientists indexed nearly 1.1 million documents for CAS databases in 2007, an all-time high. In the same span, more than 3.1 million substance records were added to the CAS Registry<sup>SM</sup>, which reached a total of 33 million organic and inorganic substances by year end.

### SciFinder<sup>®</sup> now available on the Internet

CAS introduced a Web version of the SciFinder<sup>®</sup> research tool. With the Web version, installation of desktop client software is no longer required, thus reducing customers' administrative costs and giving scientists speedier access to the latest SciFinder version.

### SciFinder Scholar<sup>™</sup> use surges 10 percent

SciFinder Scholar<sup>™</sup> was installed in 1,457 academic institutions in 55 countries by year-end 2007. This is a 10 percent increase from 2006. In the U.S. alone, SciFinder Scholar is now in use at more than 600 schools.

### Society consolidates career services on Web

Launched in October, the ACS Careers site, [www.acs.org/careers](http://www.acs.org/careers), is a “one-stop” shop for our members' career management and development needs. In addition to *C&EN* classifieds, the site is the place for employers to post jobs online in the ACS Careers Jobs database.

### Employer participation at ACS career fairs soars

In 2007, career fairs at ACS national meetings attracted 199 employers offering 1,546 positions. This record participation tops the previous high in 2004.

### Two cutting-edge ACS journals debut

In January, ACS began publishing *The Journal of Physical Chemistry C*. In its first year, this weekly published 2,653 articles. *ACS Nano* launched in August, quickly doubling in articles published each month. The online version of *ACS Nano* features a new design template that will be a model for future journal Web pages. These launches contributed to record growth in 2007 for ACS journals overall, with more than 31,000 articles published, 57 million full-text article downloads, and 34 million abstract downloads — a 26 percent increase since 2006.

### C&EN goes digital

In 2007, *C&EN* began publishing in a new, digital format that includes all of the same editorial content and advertising as the printed magazine, making it the “version of record” for readers worldwide who may not have access to the printed copy. Initially, this new delivery option is limited to *C&EN* subscribers and ACS members who reside outside of North America.

### Authors choose ACS open-access option

More than 70 authors selected the ACS AuthorChoice option to make their articles freely available on the Web. ACS AuthorChoice, an initiative implemented in October 2006, gives authors the option of sponsoring immediate open access to their research articles by paying a one-time fee. Unlike most other publishers, ACS offers significant discounts for contributing authors who are members of the American Chemical Society and/or who are affiliated with an ACS subscribing institution.

### ChemInsight<sup>®</sup> promotes chemists as legal, business consultants

In early 2007, ACS debuted ChemInsight<sup>®</sup>, a service that helps chemical scientists connect with legal and business consulting professionals who are seeking expert scientific advice. ChemInsight published its first Nationwide Directory of Scientific Experts, which was mailed to more than 80,000 firms engaged in legal, business consulting and forensic accounting services in the United States.

### National meeting symposia, posters available on Web

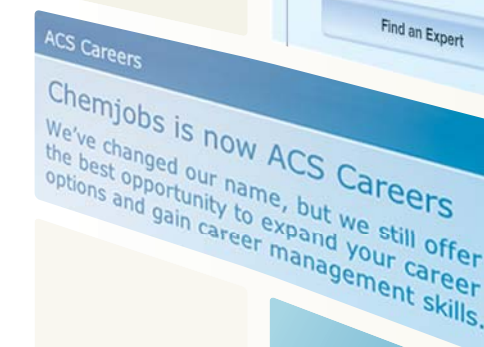
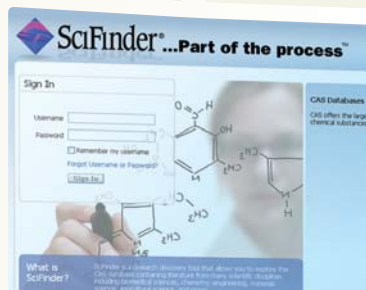
Videos of two 2007 national meeting Presidential symposia — on sustainability and material innovations — were posted at [www.acspresident.org](http://www.acspresident.org). At the Chicago national meeting, 358 authors uploaded their posters to ACS Posters2View<sup>™</sup>, a Web site that allowed other meeting registrants to view their work. During the short time the site was active, it recorded 9,885 page views and 71,053 hits.

### ACS creates online nano community

The Society established [www.acsnanotation.org](http://www.acsnanotation.org), a Web community for nanoscience and nanotechnology researchers. The free site offers features such as Nano Picks, which provides timesaving synopses and commentary on the best emerging findings, and NanoTube, where researchers can post short videos about their work.

### ACS PRF supports 519 grants in 2007

In 2007, the ACS Petroleum Research Fund supported 519 research and educational grants valued at \$25.1 million. The ACS PRF also developed new guidelines designed to support grants that promote innovative fundamental research and aid in significantly increasing the world's energy options.





# Why?

## Why is chemistry rewarding?

"Chemistry is the science that touches everyone. As a medicinal chemist, I find chemistry rewarding because it allows me the ability to touch others by trying to alleviate pain and suffering in their lives."

**SYLVESTER MOSLEY**

Former ACS Scholar; Postdoctoral Research Associate, U.S. Food & Drug Administration, Bethesda, Md. He is a 4-year ACS member.

"The intellectual stimulation as a chemist is never ending. I never have two days alike. And it keeps my mind fresh. Coming to ACS national meetings, for instance. I might be exhausted after running from meeting to meeting, but when I go back to work I feel mentally refreshed ... People wonder what I've done. Have I gone to a spa? Well, no. I've rediscovered being a chemist."

**JANET BRYANT**

Scientist/Engineer IV, Pacific Northwest National Laboratory, Richland, Wash. She is a 12-year ACS member.

"Right now, I'm part of a research team that is developing uses for a certain set of polymers in alternative energy. Finding applications for these polymers in membrane systems could, one day, make fuel cells more efficient and practical for everyday use. As a chemical engineer, being able to say that I have a hand in that is exhilarating."

**KEITH G. REED**

Former ACS Scholar; Ph.D. candidate, School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, Atlanta. He is an 8-year ACS member.

"I actually have things I can reach up and hold in my hand and say I did this. I did this with chemistry."

**JOHN ENGELMAN**

Scientist, S.C. Johnson & Son, Racine, Wis. He is a 12-year ACS member.



"It's a fascinating thing to know that all that complex machinery of life is all based on fairly simple chemical principles. No matter how you look at it, it's chemistry. And to me, that's sufficient reward."

**BELA BUSLIG**

Retired chemist, Auburndale, Fla. He is a 44-year ACS member.

"Two of the things I find most rewarding about being a chemist come when I am working with the public and I can see the 'Wow!' moment in their eyes and when they ask for more."

**JILL ROCKWOOD**

Science teacher, Montessori Children's House, Peoria, Ill. She is a 10-year ACS member.

"Without chemists, there would be no iPhones, computers or life-saving drugs. Each year *Time* magazine selects its "Man of the Year." If the magazine ever selected a "Field of the Year," chemistry would be a multi-year winner."

**GARY CALABRESE**

Vice President, Science and Technology, Corning, Inc., Corning N.Y. He is a 30-year ACS member.



"One time I went into the emergency room because I twisted my knee, and the nurse was one of my former students. Most recently, I went in for a routine procedure, and the first person I saw was a physician's assistant who was another former student. It is incredibly rewarding to see these professionals, whom I taught, helping others and doing their best to make the world a better place."

**JOHN CLEVINGER**

Professor of Chemistry, Truckee Meadows Community College, Reno, Nev. He is a 42-year ACS member.



FOR OTHER COMPELLING STORIES GO TO [WWW.ACS.ORG/ANNUALREPORT](http://WWW.ACS.ORG/ANNUALREPORT)





# How?

## How did we enhance OUR IMAGE in 2007?

HIGHLIGHTS / 2007

### ACS journals dominate chemistry and related categories

Our 36 peer-reviewed journals rank number one in citations and/or Impact Factor in the seven ISI core chemistry categories. ACS journals also topped eight other ISI categories ranging from agriculture and polymer science to nanoscience & nanotechnology. In all, 24 out of 32 ACS journals receiving Impact Factors for 2006 achieved their highest Impact Factors ever.

### CAS celebrates 100<sup>th</sup> anniversary, Landmark designation

Chemical Abstracts Service (CAS) celebrated its 100<sup>th</sup> anniversary and was designated a National Historic Chemical Landmark in 2007. Festivities were held in Columbus on June 14 at both CAS and The Ohio State University, which shared the Landmark honor as the home of *Chemical Abstracts* during the first half century of CAS' existence. Other events focusing on the centenary included customer meetings in Europe and Japan and a Presidential symposium at the 234<sup>th</sup> ACS National Meeting in Boston. *C&EN* also commemorated CAS achievements in a special edition.

### ACS lights up Broadway

The NBC Jumbotron in New York City's Times Square screened a public service announcement highlighting ACS, Dec. 8 through 10 and Dec. 18, 2007 to Jan. 1, 2008. The video ran 32 times a day and had an estimated audience of 1.5 million people daily. The video gave more than 25 million people an opportunity to learn about ACS.

### ACS media coverage reaches 400 million people

More than 4,500 news media outlets — including *The New York Times* and *The Wall Street Journal* — featured ACS in stories during 2007. This coverage reached a potential audience of almost 410 million people. Television stations nationwide, including all of the major networks — *ABC*, *CBS*, *NBC*, and *FOX* — also reported on ACS research in journals and from the national meetings. Thirty-one of the Society's journals received coverage in 2007. Journal coverage reached a potential audience of 146 million people.

### ACS introduces chemistry podcasts

ACS launched two podcasts in 2007, marking one of the Society's first forays into this emerging medium. *Science Elements*, hosted by Steve Showalter, a chemist and ACS member from the Sandia National Laboratory in New Mexico, debuted on July 3. *Bytesize Science*, a podcast for children and young adults, began on Oct. 16. Both are available on iTunes and by visiting [www.acs.org/pressroom](http://www.acs.org/pressroom), and clicking on Podcast. iTunes called *Bytesize Science* a "New & Notable" podcast in the Natural Sciences and Science & Medicine categories.

### ACS Green Chemistry conference focuses on sustainable innovations

In June, more than 440 scientists and students participated in the 11<sup>th</sup> Annual Green Chemistry & Engineering Conference, *From Small Steps to Giant Leaps – Breakthrough Innovations for Sustainability*, in Washington, D.C. The conference featured sessions on health and medicine, energy, chemical processes and new materials as well as a special student workshop. Scientific journals such as *Nature* and popular media such as *USA Today* featured highlights from this conference and other ACS Green Chemistry Institute® events.

### Record number of graduates reported by ACS-approved schools

Chemistry students earned a record 12,120 bachelor's degrees from ACS-approved chemistry programs in 2005-06, according to the ACS Committee on Professional Training's Annual Report. A record 2,321 doctoral degrees were awarded in 2006.

### 'Forgotten Genius' remembered

ACS supported production of "Forgotten Genius," a PBS/NOVA documentary about pioneering African-American chemist Percy Julian. The two-hour program, which aired in February (Black History Month), explored Julian's efforts to overcome racial prejudice within the 20<sup>th</sup> century American scientific community and his eventual rise to world-wide fame for his accomplishments in organic chemistry, especially in the synthesis of medicinal drugs.

**"With help from ACS, we can reach out to others and help them understand why chemistry is important and how it relates to their everyday lives."**

#### ERICA JACOBSEN

Secondary School Chemistry Education Editor,  
*Journal of Chemical Education*, The Dalles, Ore.  
She is a 4-year ACS member.



# How?

How do we transform lives?

“As overused as the expression is, I do believe that chemistry is the central science and many, if not most, of the challenges facing the key areas of research this century (medicine, energy, nanotechnology) will be solved using fundamental chemical approaches at the molecular level.”

**DAN RABINOVICH**  
Professor of Chemistry, University of North Carolina, Charlotte.  
*He is a 19-year ACS member.*

“Chemistry has lifted society to an unprecedented level of human comfort and well being. Obvious examples are drugs, nutritional products, cosmetics and personal care items. We can readily write an encyclopedia that includes all the products that came from chemical research and manufacturing.”

**H.N. CHENG**  
Senior Research Fellow/team leader, Hercules Inc.,  
Wilmington, Del. *He is a 27-year ACS member.*

“Chemistry is a truly democratizing force, making available to a wide range of people products and comforts that were available to only a few in centuries past.”

**ROALD HOFFMANN**  
1981 Nobel Laureate in Chemistry and the Frank H.T. Rhodes  
Professor of Humane Letters, and Professor of Chemistry,  
Cornell University, Ithaca, N.Y. *He is a 45-year ACS member.*

“An easier question would be, how does chemistry *not* transform people’s lives? It is a part of everything we do. It improves our everyday lives from materials to processes, from toys to space shuttles. It helps us learn about where we have been and where we are going, making us better equipped for what the future holds.”

**JILL ROCKWOOD**  
Science teacher, Montessori  
Children’s House, Peoria, Ill.  
*She is a 10-year ACS member.*

“My experience as a scientist and manager working in a large pharmaceutical company has given me a first-hand view of how chemistry can be applied to the discovery and development of new medicines. When any one of us — or our family members — take those medicines, embedded in those tablets or capsules is the expert knowledge and dedication of a chemist. You can bet on it. It makes me proud.”

**JOHN LECHLEITER**  
President and Chief Executive Officer, Eli Lilly and Company,  
Indianapolis, Ind. *He is a 34-year ACS member.*

“Chemical advances in medicine and materials have already transformed people’s lives, resulting in efficient and effective treatments for previously deadly diseases and fantastic fibers and building materials that increase the quality and decrease the cost of clothing and shelter. In the years ahead, I foresee chemists teaming up with engineers and physicists to introduce zero-impact energy production and to improve recycling and waste remediation, in order to improve our earth and, thus, our lives.”

**JUDITH N. CURRANO**  
Chemistry Librarian, University of Pennsylvania,  
Philadelphia. *She is a 10-year ACS member.*



“Most advances in our lives can be attributed to chemistry including new materials, food improvements and the advances in drugs. I foresee advances in how we make compounds, how we discover better drugs and how we turn current processes into efficient, green ones.”

**JOSEPH VACCA**  
Executive Director, Merck Research Labs,  
West Point, Pa. *He is a 31-year ACS member.*

“Chemistry always looks for ways that might be less expensive, more efficient, or more environmentally friendly. Chemistry seems to be a field that is constantly dissatisfied with the status quo and always looks for a better way.”

**KATHERINE GLASGOW**  
Senior Materials Scientist, Nomatic LLC, Zebulon, N.C.  
*She is a 12-year ACS member.*



# HOW?

How did **OUR MEMBERS** make a difference in 2007?

HIGHLIGHTS / 2007



## ACS members speak out for science legislation

ACS members substantially increased their engagement with policy makers in 2007 and successfully advocated for several key legislative priorities, including the America COMPETES Act. Membership in the ACS Legislative Action Network (LAN) increased 15 percent to more than 14,000. These LAN members generated 13,030 letters to elected officials, nearly 1,000 more than in 2006. Local sections formed 22 Government Affairs Committees (GAC) in 2007. By year end, there were 64 of these committees nationwide. In addition, 85 ACS members representing 39 local sections, participated in 150 congressional office visits. ACS governance approved a new state government affairs advocacy program, which will begin in 2008.

## Many faces highlight 20<sup>th</sup> National Chemistry Week

More than 175 ACS local sections participated in the 20<sup>th</sup> anniversary of National Chemistry Week, "The Many Faces of Chemistry." ACS members highlighted the *many faces* in their local areas who make outstanding contributions to chemistry or the chemical sciences. The 2007 celebration included a symposium, poster presentations, and a community outreach event at the Notebaert Nature Museum during the ACS national meeting in Chicago.

## ACS membership exceeds 160,000

As of Dec. 31, 2007, ACS membership was 160,052, the second consecutive year it has topped 160,000. The Society received 16,553 membership applications in 2007, the second-highest total in ACS history. The highly successful Member-Get-A-Member campaign resulted in 1,526 nominations, an all-time high for this effort.

## ACS national meetings attract more than 30,000

More than 30,000 people participated in the two ACS national meetings and expositions, which showcased approximately 18,900 technical presentations and products and services from nearly 3,000 exhibitors. In addition, nearly 6,000 chemists attended the Society's eight regional meetings.



## Students, poster presentations set records in Chicago

A record number of undergraduates attended the 233<sup>rd</sup> ACS National Meeting in Chicago. The 2,345 students at the meeting presented an unprecedented 1,264 undergraduate research and Student Affiliates Chapter posters in the Division of Chemical Education.

## U.S. Chemistry Olympiad team wins four medals

The 2007 U.S. Chemistry Olympiad team won three silver medals and one bronze medal at the 39<sup>th</sup> annual International Chemistry Olympiad in Moscow. The U.S. team, consisting of the nation's top high school chemistry students, competed with 254 students representing 66 countries. The U.S. team was selected from more than 10,000 students screened by ACS Local Sections nationwide.

## High School ChemClubs program expands

As of Dec. 31, 2007, 117 Chemistry Clubs were chartered with the ACS Office of High School Chemistry, exceeding the goal (100) established for 2007-2008 in the initial program funding request. Also in December, the ACS Board of Directors approved the continuation of the High School Chemistry Clubs program as an ongoing Society program. High school chemistry teachers serve as volunteer advisors to these clubs.

## Project SEED continues to sprout

In 2007, more than 100 institutions sponsored 316 students — all mentored by ACS members — in the Project SEED summer research program. The program awarded 38 Project SEED college scholarships to qualified Project SEED alumni. More than 50 Project SEED students presented posters about their summer research at the 234<sup>th</sup> ACS National Meeting in Boston.



Photo courtesy of Lea Sorel

**"People ask me why I am such an 'active' volunteer in the American Chemical Society. My response is pretty simple — the ACS allows me to focus my volunteer time to coincide with personal passions, including improving science education for future generations."**

**JANET BRYANT**  
Scientist/Engineer IV, Pacific Northwest National Laboratory,  
Richland, Wash. She is a 12-year ACS member.

# How?

How has ACS helped you?

“Most people think of national meetings as a place to meet your peers working in a narrow, specific area. I do just the opposite. I usually try to attend sessions that are outside of my job. I do that in order to broaden myself. What I find is I get ideas that relate back to what I am doing.”

**RUSSELL W. JOHNSON**

Corporate Fellow, Honeywell International, Inc., Des Plaines, Ill.  
He is a 36-year ACS member.

“The advocacy staff in the ACS Office of Legislative and Government Affairs (OLGA) has helped me tremendously in forming a government affairs committee for our local section (South Central Missouri). I find this program very beneficial to serve people in the community and to promote public policies favoring science education.”

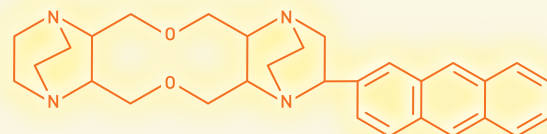
**JYOTI DALVI-MALHOTRA**

Senior Research Associate, Brewer Science, Inc., Rolla, Mo. She is a 7-year ACS member.

“An ACS Petroleum Research Fund grant allowed me to carry out early work on fluorescent chemosensors — molecule-sized ‘devices’ that signal the presence of analytes via fluorescence. The success of that early project enabled me to start what proved to be a major new area of research to my group. Without ACS PRF support, we would not have been able to even start in that field.”

**ANTHONY W. CZARNIK**

Visiting Professor of Chemistry, University of Nevada, Reno; Editor, *Journal of Combinatorial Chemistry*.  
He is a 33-year ACS member.



“Getting involved with Project SEED turned my entire life around. It gave me hope, it gave me a future. Meeting the scientists, meeting the chemists really changed my outlook on the world. I really can’t say enough good things about the program.”

**STEVEN FURYK**

Project SEED alumnus; Research Chemist, Dow Chemical, Wilmington, Del. He is a 9-year ACS member.



“When I became an ACS Scholar, it opened many doors. Professionally, it helped me learn that there were researchers out there from whom I can learn and get the chance to know. Academically, it encouraged me to keep up my good grades and pursue a higher education, which I did. I completed my bachelor’s degree in chemistry and went on to get a Ph.D., which I completed in 2006. The ACS Scholars Program has been there for me along the way.”

**FATIN SAMARA**

Former ACS Scholar; Research Chemist, U.S. Environmental Protection Agency, Research Triangle Park, N.C. She is a 10-year ACS member.

“National Chemistry Week not only achieves its goal of educating the public, but it brings industrial, academic and government chemists together to convey a positive image of chemistry as the science that can change our lives.”

**MICHAEL B. MCGINNIS**

Professor, Department of Chemistry, North Georgia College & State University, Dahlonega, Ga. He is a 17-year ACS member.



FOR OTHER COMPELLING STORIES GO TO [WWW.ACS.ORG/ANNUALREPORT](http://WWW.ACS.ORG/ANNUALREPORT)



# HOW?

## How did we improve OUR RELATIONSHIPS in 2007?

HIGHLIGHTS / 2007

### Society co-sponsors biofuel symposium

In May, the Brazilian Chemical Society, the Brazilian Agricultural Research Corp. (Embrapa) and ACS organized an historic symposium in Águas de Lindóia, Brazil, to promote sustainable research collaborations for improving biomass conversion into fuels and value-added chemicals and materials. About 50 scientists and policy makers from Brazil and the United States — the world leaders in biofuel research and development — participated.

### ACS supports educational workshops in Latin America

The Society, in cooperation with Reverte Publishing, organized a series of workshops in Argentina, Chile, Mexico and Panama for chemistry teachers interested in activity-based learning, increased student engagement in the classroom and potentially adopting a Spanish language translation of the ACS general textbook, *Chemistry (Química)*. Up to 70 teachers and general chemistry lecturers participated in each country.

### ACS, European counterparts host joint medicinal chemistry conference

In conjunction with the European Federation for Medicinal Chemistry (EFMC), ACS inaugurated a new conference series, *Frontiers in Medicinal Chemistry*. The first meeting, which was in Siena, Italy, in October, focused on medicinal chemistry's role in developing therapies to combat cancer and neurodegenerative diseases. About 200 scientists from 20 countries participated.

### Early-career chemists meet in Shanghai

Twenty-four early-career Chinese and American researchers met in Shanghai to discuss the latest advances in chemical biology. The workshop, hosted by the Shanghai Institute of Organic Chemistry, was the first of a series organized by the ACS and the National Natural Science Foundation of China.

“As the world’s largest scientific society, the community served by ACS is no longer confined to the United States. Chemists in China, India and elsewhere seek the same physical truths as we do even as our social truths ebb and flow.”

#### ANTHONY CZARNIK

Visiting Professor of Chemistry, University of Nevada, Reno;  
Editor, *Journal of Combinatorial Chemistry*. He is a 33-year ACS member.

### Society, NSTA sponsor ‘Day of Chemistry’

ACS joined with the National Science Teachers Association (NSTA) to launch a “Day of Chemistry” at each of the 2007 NSTA Fall Regional Conferences (Birmingham, Detroit and Denver). Consisting of six consecutive sessions, the “Day of Chemistry” provided content and pedagogy for high school teachers, focusing on the concepts of energy and entropy.

### OSHA Alliance expands

In 2007, ACS actively contributed to the Reactive Chemicals Hazards Management Alliance, sponsored by the U.S. Occupational Safety and Health Administration (OSHA). During the year, ACS members provided expertise for a variety of projects related to safe practices with chemicals. The Alliance also brought in experts from OSHA to staff a booth at the ACS National Meeting and Exposition in Chicago.

### CAS, FIZ Karlsruhe debut new, improved STN® products

In cooperation with its STN® partner FIZ Karlsruhe, CAS implemented two significant product developments for information professionals and patent analysts:

A new and more powerful version of the STN® AnaVist™ analysis and visualization software was introduced. STN AnaVist 2.0 incorporates the Derwent World Patents Index (DWPI<sup>SM</sup>) database to complement the extensive patent content of CAplus<sup>SM</sup>. STN AnaVist is the only platform that permits analysis and visualization of both the CAplus and DWPI search results, with content processed by STN for optimal visualization.

CAS and FIZ Karlsruhe launched STN® Viewer™, a new Web-based workflow productivity tool that dramatically increases patent professionals' efficiency. STN Viewer makes it easy to evaluate patents by permitting the user to view major sections, publication stages and family members; define and highlight terms and phrases of interest; and navigate the entire patent document via a visual summary of highlighted terms.



# Why?

## Why are CAS and ACS Publications vital?

“As an executive in a corporation, I have often used content in *C&EN* as a way to stimulate discussion and ideas about what we should do in our company. Beyond that, our scientists and engineers rely heavily on ACS information engines to do the basic job of innovation.”

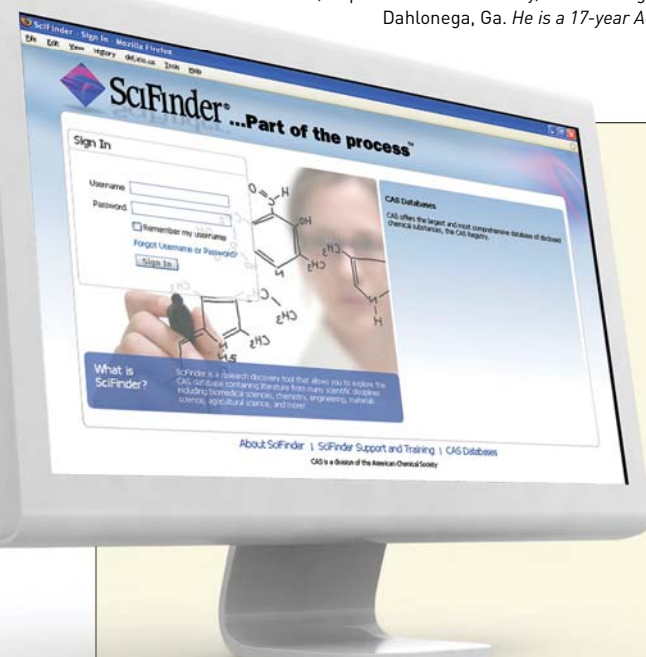
**GARY CALABRESE**

Vice President, Science and Technology, Corning, Inc., Corning N.Y. He is a 30-year ACS member.

“Publications — peer review at its best. CAS — the best search engine there is for chemists.”

**MICHAEL B. MCGINNIS**

Professor, Department of Chemistry, North Georgia College & State University, Dahlonega, Ga. He is a 17-year ACS member.



“I wouldn’t be able to live without SciFinder®. It is so wonderful. It’s so easy to search. When I’m in the lab trying to come up with a synthesis of a molecule the first thing I do is search through SciFinder and within minutes I have a prep for a new compound. It saves me time because somebody else has done the work so I can move on and do the novel chemistry that I want to do.”

**STEVEN FURYK**

Project SEED alumnus; Research Chemist, Dow Chemical, Wilmington, Del. He is a 9-year ACS member.

“The journals and their scientific content are beautifully reviewed and edited — even if they reject my papers sometimes! They are of immense value.”

**ROALD HOFFMANN**

1981 Nobel Laureate in Chemistry and the Frank H.T. Rhodes Professor of Humane Letters, and Professor of Chemistry, Cornell University, Ithaca, N.Y. He is a 45-year ACS member.

“It goes without saying that ACS journals as a group are indispensable and widely cited. I should add that I may be a bit prejudiced because I am an editor of an ACS journal, but I believe the overall highest Impact Factor of ACS journals proves my point.”

**PHILIP PORTOGHESE**

Distinguished Professor, Department of Medicinal Chemistry, University of Minnesota, Minneapolis; Editor, *Journal of Medicinal Chemistry*. He is a 48-year ACS member.

“ACS publications are among the world’s most cited and prestigious. If you publish in ACS journals, you have greater chances of being recognized in the world of chemical science. If you read ACS publications you have better chances to achieve the previous goal and to have up-to-date information and latest chemistry news. CAS is an important tool to navigate in the ocean of chemical information. All that worked for me.”

**ANDREI N. VEDERNIKOV**

Assistant Professor, Department of Chemistry & Biochemistry, University of Maryland, College Park. He is a 10-year ACS member.

“ACS journals have long been my primary source of information in the field. The evolution of my scientific career has largely been tied to what I’ve learned by reading the journals.”

**GEORGE SCHATZ**

Morrison Professor of Chemistry, Northwestern University, Evanston, Ill.; Editor-in-Chief, *Journal of Physical Chemistry*. He is a 40-year ACS member.





# HOW?

## How did we change OUR ORGANIZATION in 2007?

HIGHLIGHTS / 2007

### Society adopts new strategic plan

In December, the ACS Board of Directors unanimously approved *ACS Strategic Plan for 2008 and Beyond*. This new plan represents the successful culmination of months of work to create and refine a strategy of unprecedented specificity and participation. An overview of the plan is available at [www.acs.org/strategicplan](http://www.acs.org/strategicplan), along with discussion forums to help shape the future strategic priorities of the Society.

### Governance Review Task Force completes work

The ACS Governance Review Task Force completed its three-year effort in 2007, engaging many member volunteers to improve the Society's governance. It proposed broadening membership requirements, which will be acted upon by the ACS Council in 2008. It also recommended and implemented changes in committee structure, national meetings, staff support for governance and governance operations.

### Society reinvents itself on Web

In September, ACS unveiled [www.acs.org](http://www.acs.org), a new Web site that gathers all Society programs into a user-friendly format, making information, products and services easy to find and use. The Web site features an improved search engine as well as ready access to cutting-edge science news, career services and other resources.

### ACS launches presidential Web site

In 2007, ACS established [www.acspresident.org](http://www.acspresident.org), a Web site where individuals can learn about the responsibilities and duties of the ACS president; discover notable men and women who have served as president since the Society was founded; and keep up with the travel and activities of the president, especially presidential symposia at national meetings.

### Contingency plans finalized

The ACS Board of Directors completed a comprehensive contingency plan in 2007. This two-year effort ensures that the Society will be able to respond effectively to a range of threats that may emerge in the coming years.

### New manuscript submission system streamlines review process

By the end of 2007, the Society had moved 33 of its 36 journals into ACS Paragon Plus, a new online system for manuscript submission and peer-review. This Web-based, real-time system provides editors, authors, and reviewers with robust new capabilities to simplify the review process and help to ensure the integrity of published information. The Society's three other journals were added to ACS Paragon Plus in early 2008.

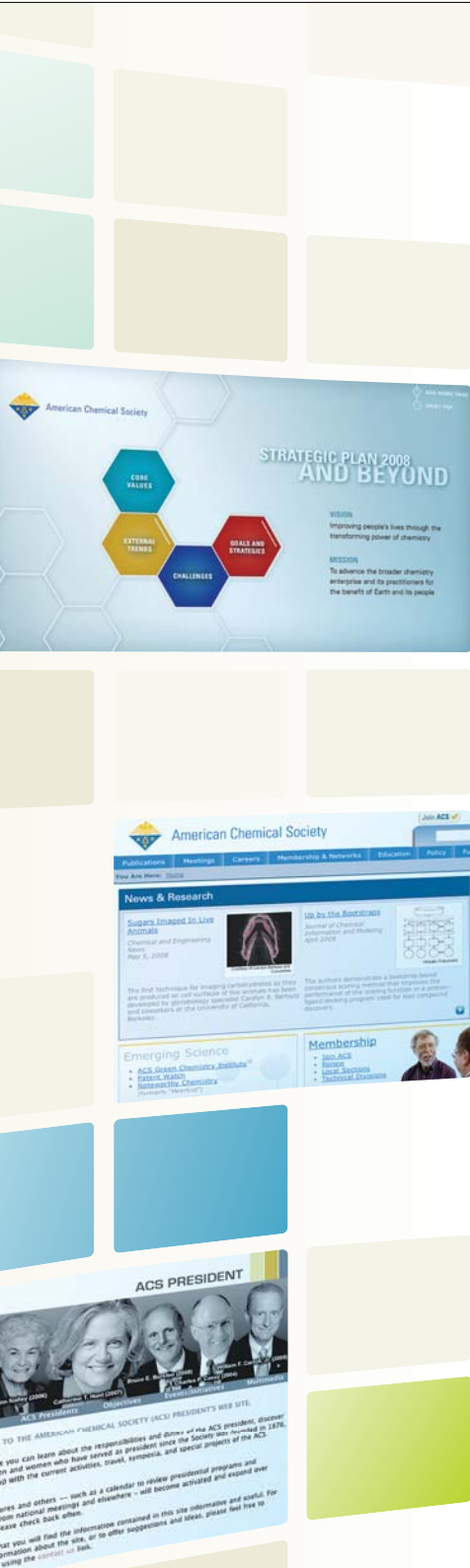
### Society spotlights green chemistry, climate on Capitol Hill

ACS efforts led to successful House passage of the Green Chemistry Research and Development Act of 2007 (H.R. 2850) and ACS worked closely with key senators in drafting the America Climate Security Act of 2007 (S. 2191) to incorporate ACS priorities, notably directing anticipated carbon auction revenues to fund advanced energy research programs. During 2007, ACS also reached out to the office of every freshman Congressional representative and senator with educational visits on science and competitiveness issues.

**“For me, the chief benefit of being an ACS member is the social network that slowly builds as one attends more and more ACS events. It really does start to become like a 160,000-member family.”**

**PRESTON MacDOUGALL**

Associate Professor of Chemistry, Middle Tennessee State University, Murfreesboro, Tenn. *He is a 13-year ACS member.*



# What?

What's next?

"As a college professor I find it very troublesome when I hear that my students, who want to be doctors, dentists, etc., hate chemistry. If I ask them the reason, their answers often point to the high school teacher. On the other hand when I find a student who wants to be a chemistry major and ask why did you become interested in chemistry, their answer is also the chemistry teacher. I think we need to mentor high school teachers and support the ACS High School Chemistry Clubs."

**CARMEN VALDEZ GAUTHIER**  
Associate Professor of Chemistry,  
Florida Southern College, Lakeland, Fla.  
*She is a 21-year ACS member.*

"The challenges that face us are multidisciplinary. The solutions are going to be science-based and are going to rely heavily on chemistry for their development. This is a fun and stimulating place to be and as such we can provide unique solutions."

**FRANKIE WOOD-BLACK**  
Senior Air Professional, Trihydro  
Corporation, Ponca City, Okla.  
*She is a 21-year ACS member.*



"ACS can help by defining where we are, what trajectory we are on and how we can make changes to become more sustainable."

**KATHERINE GLASGOW**  
Senior Materials Scientist, Nomacorc LLC, Zebulon, N.C.  
*She is a 12-year ACS member.*

"The most helpful thing for the ACS to do would be to help chemists better communicate to the tax-paying and product-buying public what it is that we do, and why it is important that we be encouraged to do it."

**PRESTON MacDOUGALL**  
Associate Professor of Chemistry,  
Middle Tennessee State University,  
Murfreesboro, Tenn. *He is a  
13-year ACS member.*

"The 21st Century will be a century of change and chemistry will play a decisive role in it. ACS can help in many ways supporting the debate of important issues such as global warming and new energy technologies. Another important point in my opinion is the joint effort with other chemistry societies to address these challenges, and I think ACS is doing well in this area."

**CLAUDIO J.A. MOTA**  
Institute of Chemistry, Universidade Federal  
do Rio de Janeiro, Brazil. *He is a 15-year ACS member.*

"One of the biggest challenges that we are still facing is getting more minorities and women in the chemical sciences. It is important that ACS programs like Project SEED and ACS Scholars continue to help increase the proverbial pipeline of minority chemists."

**SIBRINA COLLINS**  
Director of Graduate Diversity Recruiting,  
University of Washington. *She is a 12-year ACS member.*

"ACS needs to be the number one advocate at the state and federal level to be sure that the legislators and public are informed about the needs of scientists and the possibilities of future developments. I hope all ACS members will be involved in educating our government officials and the general public. A better scientifically informed public relates to R&D funding and potential life-changing discoveries."

**MICHAEL B. MCGINNIS**  
Professor, Department of Chemistry, North Georgia College &  
State University, Dahlonega, Ga. *He is a 17-year ACS member.*

FOR OTHER COMPELLING STORIES GO  
TO [WWW.ACS.ORG/ANNUALREPORT](http://WWW.ACS.ORG/ANNUALREPORT)





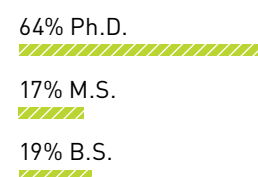
# Member Status & Allocation of Dues 2007

*The American Chemical Society is a non-profit organization with a multidisciplinary membership of more than 160,000 chemists and chemical engineers.*

*ACS is the world's largest scientific society and publishes scientific journals and databases, convenes major research conferences, and provides education, science policy and career programs in chemistry. Its main offices are in Washington, D.C., and Columbus, Ohio.*

## ACS MEMBERS IN THE WORKPLACE

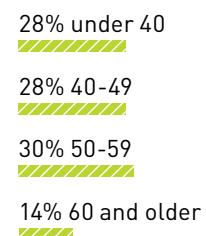
### Education



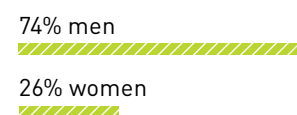
### Employment



### Age



### Gender



Percentages rounded. Data based on ACS censuses.

## 2007 ALLOCATION OF DUES

(\$ in Thousands)

C&EN	\$ 4,946	32.7%
Support for Society Programs	4,896	32.3%
Member Services	2,389	15.8%
Local Section Allotments	1,641	10.8%
Division Allotments	1,270	8.4%
<b>Total</b>	<b>\$ 15,142</b>	<b>100.0%</b>

Excluding the impact of Local Section and Division Allotments and adding Student Affiliate Dues of \$176,000, 2007 dues revenue totalled \$12,407,000 as reported on the Financial Summary on page 33.

## MEMBERSHIP STATUS\*

	12/31/07	12/31/06
Full Rate	104,324	104,617
Spouse Rate	1,248	1,293
Student Rate	13,660	13,968
National Service	13	12
Retired Rate	6,510	7,373
National Affiliates	1,165	1,118
Family Responsibility	123	136
GRADS	1,775	1,477
<b>Total Paid</b>	<b>128,818</b>	<b>129,994</b>
Dues Waiver - Unemployed	1,000	1,204
Disabled	338	335
Emeritus	16,565	15,519
<b>Total Free</b>	<b>17,903</b>	<b>17,058</b>
<b>Unpaid</b>	<b>13,331</b>	<b>13,439</b>
<b>Total Membership</b>	<b>160,052</b>	<b>160,491</b>

\*Source of actual figures: MEAD Report of that date.

## 2007 DIVISION YEAR-END MEMBERSHIP SUMMARY

ACS Divisions	Total
Agricultural & Food	2,759
Agrochemicals	1,148
Analytical Chemistry	9,948
Biochemical Technology	3,093
Biological Chemistry	6,405
Business Development & Management	1,183
Carbohydrate Chemistry	878
Cellulose and Renewable Materials	860
Chemical Education	5,463
Chemical Health & Safety	1,448
Chemical Information	1,416
Chemical Technicians	515
Chemical Toxicology	1,014
Chemistry and the Law	1,176
Colloid & Surface	2,689
Computers in Chemistry	2,386
Environmental	4,997
Fluorine	678
Fuel	1,228
Geochemistry	694
History	810
Industrial & Engineering	3,311
Inorganic	6,256
Medicinal	10,401
Nuclear	852
Organic	17,731
Petroleum	1,330
Physical	5,589
Polymer	6,311
Polymeric Materials: Science & Engineering	5,237
Professional Relations	719
Rubber	1,680
Small Chemical Businesses	645
<b>Total</b>	<b>110,850</b>

Source: ACS Membership Demographics Report, December 2007.

# Financial Highlights 2007

*As noted in the accompanying financial summary, 2007 was another successful year for the Society.*

**Including the ACS Petroleum Research Fund**, but excluding the impact of a new accounting standard discussed below, total net assets increased \$40.7 million, or 4.3 percent. This growth was primarily driven by favorable capital market conditions and strong operating results. Unrestricted net assets increased \$24.5 million, or 7.8 percent, attributable to a \$10.7 million net contribution combined with a \$13.8 million gain from investments.

The 2007 financial results were negatively impacted by the implementation of a new accounting standard, Financial Accounting Standard (FAS) 158, *Employers' Accounting for Defined Benefit Pension and Other Postretirement Plans*. The standard required immediate recognition of the funded status of the Society's post-retirement benefit plans, with a corresponding adjustment to unrestricted net assets. As a result of implementing FAS 158, unrestricted net assets were reduced by \$89.5 million. When the

impact of FAS 158 is combined with the net contribution and investment gains noted earlier, the Society's unrestricted net assets declined by \$65.0 million from 2006 to \$247.4 million.

Total revenues increased 5.9 percent to \$487 million from \$460 million in 2006, while total expenses increased 6.2 percent over 2006. In 2007 the ACS continued to invest in information services and technology infrastructure. The Society launched two new journals (*ACS Nano* and *The Journal of Physical Chemistry C*), made significant enhancements to its end-to-end electronic workflow for ACS journals, introduced a Web version of the SciFinder® research tool, and revamped its Web site. These strategic initiatives serve two purposes: they maintain the Society's reputation as the world's leading provider of chemistry-related information and they enhance the value and relevance of ACS to its many constituents, including members and other chemical professionals.

A copy of the Society's audited financial statements for the year ended Dec. 31, 2007, together with the independent auditor's report thereon, and Management's Statement of Responsibility, can be located at <http://www.acs.org/annualreport>.

Information on ACS executive compensation is available on [www.acs.org](http://www.acs.org). Log on as a member, click on the ACS member tab and look for the link, "Compensation of ACS Officers and Key Employees," under "Member Information and Benefits."

## FINANCIAL SUMMARY

(\$ in Thousands)

### Statement of Financial Position

#### ASSETS

	2007		2006	
	ACS PROGRAMS	PETROLEUM RESEARCH FUND	TOTAL	TOTAL
Cash and Cash Equivalents	\$ 53,262	\$ 6,147	\$ 59,409	\$ 67,974
Accounts and Pledges Receivable	71,348	15	71,363	52,995
Inventories	7,022	-	7,022	6,751
Investments	400,898	599,106	1,000,004	966,119
Interfund (Payable) Receivable	(11,329)	11,329	-	-
Collateral Held	50,621	17,237	67,858	72,098
Other	12,745	38	12,783	21,961
Buildings, Land, and Other Property	101,136	-	101,136	93,760
<b>Total Assets</b>	<b>\$ 685,703</b>	<b>\$ 633,872</b>	<b>\$ 1,319,575</b>	<b>\$ 1,281,658</b>

#### LIABILITIES AND NET ASSETS

##### LIABILITIES

Accrued Expenses and Accounts Payable	\$ 57,607	\$ 141	\$ 57,748	\$ 58,539
Deferred Revenues	113,204	-	113,204	101,473
Long-Term Debt	33,245	-	33,245	36,980
Postretirement Benefits and Other	134,913	12,340	147,253	63,502
Collateral Payable	50,621	17,237	67,858	72,098
<b>Total Liabilities</b>	<b>389,590</b>	<b>29,718</b>	<b>419,308</b>	<b>332,592</b>

##### NET ASSETS

Unrestricted	247,406	-	247,406	312,326
Temporarily Restricted	26,402	531,654	558,056	542,731
Permanently Restricted	22,305	72,500	94,805	94,009
<b>Total Net Assets</b>	<b>296,113</b>	<b>604,154</b>	<b>900,267</b>	<b>949,066</b>
<b>Total Liabilities and Net Assets</b>	<b>\$ 685,703</b>	<b>\$ 633,872</b>	<b>\$ 1,319,575</b>	<b>\$ 1,281,658</b>

### Statement of Activities

#### REVENUES

Electronic Services	\$ 335,305	\$ -	\$ 335,305	\$ 312,111
Printed Services	43,592	-	43,592	47,620
Advertising	13,663	-	13,663	13,544
Dues	12,407	-	12,407	12,233
Registration Fees and Booth Sales	12,277	-	12,277	12,554
Member Insurance Premiums	14,626	-	14,626	11,723
Investment Income	12,864	450	13,314	11,976
Other	7,491	-	7,491	7,269
Net Assets Released from Restriction	4,034	30,357	34,391	30,809
<b>Total Unrestricted Revenues</b>	<b>456,259</b>	<b>30,807</b>	<b>487,066</b>	<b>459,839</b>

#### EXPENSES

Information Services	336,680	-	336,680	321,803
Member Programs and Services	41,530	-	41,530	38,543
Member Insurance Program	14,268	-	14,268	13,796
Grants and Awards	2,228	28,941	31,169	27,539
Administrative	40,379	1,866	42,245	38,409
Other	10,431	-	10,431	8,218
<b>Total Expenses</b>	<b>445,516</b>	<b>30,807</b>	<b>476,323</b>	<b>448,308</b>
<b>Net Contribution</b>	<b>10,743</b>	<b>-</b>	<b>10,743</b>	<b>11,531</b>
Net Investment Gains	13,835	-	13,835	27,637
Over Funded Pension and Other	-	-	-	32,350
Cumulative Effect of the Adoption of FAS 158	(89,498)	-	(89,498)	-
<b>Change in Unrestricted Net Assets</b>	<b>(64,920)</b>	<b>-</b>	<b>(64,920)</b>	<b>71,518</b>
Contributions	3,075	-	3,075	2,805
Net Investment Gains	3,303	44,170	47,473	78,774
Net Assets Released From Restriction	(4,034)	(30,357)	(34,391)	(30,809)
Transfer of Net Assets	239	(275)	(36)	(462)
<b>Change in Restricted Net Assets</b>	<b>2,583</b>	<b>13,538</b>	<b>16,121</b>	<b>50,308</b>
Change in Total Net Assets	(62,337)	13,538	(48,799)	121,826
Beginning Total Net Assets	358,450	590,616	949,066	827,240
<b>Ending Total Net Assets</b>	<b>\$ 296,113</b>	<b>\$ 604,154</b>	<b>\$ 900,267</b>	<b>\$ 949,066</b>



## Through Your Support in 2007

- **The ACS Green Chemistry Institute's Pharmaceutical Roundtable** funded almost \$500,000 in research addressing the top green chemistry research areas. The Roundtable also published "Key green chemistry research areas — a perspective from pharmaceutical manufacturers" in the journal, *Green Chemistry*.
- ACS Scholars Program graduate Steven Meier became the first Native American alumnus to earn a Ph.D., joining 34 other former Scholars with Ph.D. degrees. Three of the Program graduates are currently assistant professors on university faculties.
- Project SEED served 316 students in 2007 at research laboratories at more than 100 institutions in 27 states and the District of Columbia. New mentors and coordinators were trained to expand the program to the high-need cities of Austin, Houston, Milwaukee, St. Louis and St. Paul.
- Teacher Professional Development was expanded to include training for elementary and middle school science teachers, teamed with district science coordinators, in hands-on science content to improve teaching in chemistry, Earth science, physics and biology.

*The American Chemical Society works to improve the world through many programs and has identified the following as fundraising priorities:*

**ACS Green Chemistry Institute® (ACS GCI)** promotes the implementation of green chemistry and engineering principles into all aspects of the chemistry enterprise. To catalyze sustainability, ACS GCI supports research, works to integrate green chemistry into all levels of chemical education, aids companies with industrial implementation, hosts conferences, and coordinates efforts with an international network of green chemistry advocates across government, industrial, academic and private sectors.

**ACS Scholars Program** provides underserved minority undergraduates with the scholarships and mentoring support that they need to earn degrees in the chemical sciences. This program is helping the chemistry enterprise make the most of our nation's diverse talent pool.

**Project SEED** gives bright, economically disadvantaged high school students the opportunity to spend a summer conducting chemical laboratory research with the guidance

of a chemical scientist. Project SEED is inspiring many of these students to consider careers in the chemical sciences.

**Teacher Training** supports the professional development of science teachers, so that they may better present chemistry in the classroom and foster the scientific curiosity of our nation's youth.

You can support the American Chemical Society's work to advance the future of chemistry in many ways:

- Outright gifts and pledges*
- Securities and stocks*
- Named endowment funds*
- Estates and bequests*
- Gift annuities*
- In-kind goods and services*
- Individual and corporate matching gifts*
- Real estate*
- Event sponsorship*
- Memorials and tributes*

For more information about supporting the American Chemical Society, please contact the Development Office at (202) 872-6210 or visit our Web site, [www.acs.org/giving](http://www.acs.org/giving).

## Be curious, experiment!

NOBEL LAUREATE URGES STUDENTS OF ALL AGES

*On a recent spring day, Dudley Herschbach — distinguished Harvard University professor, guest voice on The Simpsons, recipient of the Linus Pauling Medal and numerous other honors including the 1986 Nobel Prize in Chemistry — took time from his busy schedule to speak to a notable group of VIPs: a fourth-grade class.*

"I told them that it doesn't take a rocket scientist to do rocket science," says Herschbach. "Science offers a great and congenial advantage over most human enterprises. What you seek waits patiently for you to find it. So even if you miss it again and again, with persistence you will ultimately succeed."

No matter if it's fourth graders getting their first peek at a real scientist, college freshmen in a general chemistry course or graduate students working in his lab, Herschbach is unabashedly evangelical about his profession. Each day is another chance to excite students, improve science education, and develop the next generation of scientific talent.

His efforts include support for the ACS Project SEED 40<sup>th</sup> Anniversary Appeal. As a volunteer leader of this

effort to raise funds for an important Society program — which provides economically disadvantaged high school students a summer of paid laboratory research — he not only made one of the first donations, he persuaded a number of other Nobel Laureates to endorse the program and participate in the appeal.

"In so many ways, Dudley Herschbach is the quintessential ACS member," says ACS Executive Director & CEO Madeleine Jacobs. "He backs up his words with action. He truly is a transforming force, both in the lab and in the classroom. No wonder students love him!"

Another day, another "classroom." This time, Herschbach is speaking at a Silver Circle and Retiree Breakfast during the 234<sup>th</sup> ACS National Meeting in Boston. Although this audience is

quite a bit older and far more scientifically savvy than the fourth graders he spoke to earlier in the year, they are just as rapt. And the message that he delivers — with a little help from a Cole Porter tune that he learned via Jacobs — resonates just as well:

*Experiment.  
Be curious*

*Though interfering friends may frown  
Get furious at each attempt to hold you down*

*If this advice you always employ  
The future can offer you infinite joy*

*And merriment  
Experiment*

*And you'll see!"*

The words may be Porter's, but as the recording plays, it's clear Herschbach believes them, lives them and wants the audience to embrace them. The speech ends, the applause fades, but the fire still burns.

*ACS Scholar Melissa Quino McCreery and her mentor Dudley Herschbach dance to Cole Porter.*



EXPERIMENT - COLE PORTER (c) 1933  
WARNER BROS. INC. (Renewed)  
This arrangement (c) WARNER BROS. INC.  
All Rights Reserved Used by Permission of ALFRED PUBLISHING CO., INC.

## 2007 SUPPORT

*The American Chemical Society appreciates the support it receives from members, corporations, foundations and others involved in the chemistry enterprise. ACS thanks the following donors for new gifts and pledges made during 2007. Individual donors are indicated in italics.*

### Sustaining Partners

**DONORS OF \$100,000 - \$249,999**

Astellas USA Foundation  
The Dow Chemical Company  
Eli Lilly and Company  
GlaxoSmithKline  
Pfizer Global Research and Development  
Schering-Plough Corporation

### Partners

**DONORS OF \$50,000 - \$99,999**

Argosy Foundation  
AstraZeneca  
Bayer USA Foundation  
Dow Corning Foundation  
DuPont Center for Collaborative Research & Education  
ExxonMobil Foundation  
Motorola Foundation  
Rohm and Haas Company

### Platinum

**DONORS OF \$25,000 - \$49,999**

*Kenneth E. and Susan R. Fahrenholtz*  
Madeleine Jacobs  
Dorr Foundation  
Alfred P. Sloan Foundation  
Johnson and Johnson Pharmaceutical Research and Development, LLC  
Lord Corporation  
Merck & Co., Inc.  
Procter & Gamble Beauty

### Gold

**DONORS OF \$10,000 - \$24,999**

*Ellington M. Beavers*  
Robert M. Adams Foundation  
Air Products and Chemicals, Inc.

BASF  
S.D. Bechtel, Jr. Foundation  
Chevron Products Company  
Omnova Solutions Foundation  
Sigma-Aldrich Foundation  
Strem Chemicals, Inc.  
Wyeth

### Silver

**DONORS OF \$5,000 - \$9,999**

*Berkeley W. Cue*  
*Helen M. Free*  
*Dudley R. Herschbach*  
3M Foundation  
Akzo Nobel Chemicals, Inc.  
Arch Chemicals  
Bioverdan, Inc.  
Codexis, Inc.  
Lubrizol Corporation  
Nalco Foundation  
National Starch and Chemical Foundation  
Occidental Chemical Corporation  
Pfizer Foundation  
PPG Industries Foundation  
Solvay North America  
Société de Chimie Industrielle (American Section)  
Thomson, Brooks/Cole

### Copper

**DONORS OF \$2,500 - \$4,999**

*G. Ronald Dunn*  
*S. Allen Heininger*  
*C. F. Porter*  
ACS Northeastern Section  
Cornell University  
W.H. Freeman and Company  
Johnson Matthey, Inc.  
RJ Lee Group, Inc.  
McGraw Hill  
Pearson Prentice Hall  
Sasol North America  
Synthetic Organic Chemical Manufacturers Association

Texas Instruments  
Youngstown State University Foundation

### Iron

**DONORS OF \$1,000 - \$2,499**

*Bernard V. Baus*  
*Judith L. Benham*  
*Theodore L. Brown*  
*Matthew K. Chan*  
*Melvin J. Gortatowski*  
*Ned D. Heindel*  
*Catherine T. (Katie) Hunt*  
*Mary M. Kirchhoff*  
*Flint H. Lewis*  
*Claude A. Lucchesi*  
*Cynthia A. Maryanoff*  
*Roderic R. Moore*  
*Charles P. Riley, Jr.*  
*William R. Rolingson*  
*Graham D. Stewart*  
*J. Fraser Stoddart*  
*Robert L. Stout*  
*Jerry M. Sudarsky*  
*Suat I. Ulagay*  
*Warren B. Weisberg*  
ACS Greater Houston Local Section  
American Institute of Chemical Engineers  
Harris Family Foundation  
IBM Research Division  
Yale University

### Bequests

*A bequest was received from the estate of Carl W. Otto.*

### 2007 SPONSORS OF ACS AWARDS

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

Accelrys, Inc.  
ACS Corporation Associates  
ACS Division of Business Development and Management

ACS Division of Nuclear Chemistry and Technology  
ACS Northeastern Section  
Air Products and Chemicals, Inc. in memory of Joseph J. Breen  
Aldrich Chemical Company, Inc.  
Alpha Chi Sigma Educational Foundation  
Alpha Chi Sigma Fraternity  
Alfred R. Bader  
Battelle Memorial Institute  
Ronald Breslow Endowment  
Herbert C. Brown Award Endowment  
Arthur C. Cope Fund  
F. Albert Cotton Endowment Fund  
The Dow Chemical Company  
The Dow Chemical Company Foundation  
Dow Corning Corporation  
The Camille & Henry Dreyfus Foundation, Inc.  
E. I. DuPont 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  
GlaxoSmithKline  
Honeywell  
IBM Corporation  
The Ipatieff Trust Fund  
Mallinckrodt Baker, Inc.  
Merck Research Laboratories  
Nakanishi Prize Endowment  
National Starch and Chemical Company  
Newport Corporation  
Occidental Petroleum Corporation  
George A. Olah Endowment

Organic Reactions, Inc.  
Organic Synthesis, Inc.  
Pfizer Endowment Fund  
Phi Lambda Upsilon, the National Honorary Chemical Society  
Pearson Education  
The Procter & Gamble Company  
Purdue Borane Research Fund  
Research Corporation  
Rohm and Haas Company  
Schering-Plough Corporation  
Gabor A. and Judith K. Somorjai Endowment Fund  
Schrödinger  
SQM S.A.  
Strem Chemicals, Inc.  
SUPELCO, Inc.  
SynQuest Laboratories, Inc.  
Synthetic Organic Chemical Manufacturers Association  
Thermo Electron Corporation  
Waters Corporation  
Ahmed Zewail Endowment Fund

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

*Leslie De Riemer Anderson*  
*Pamela J. Ayre*  
*Alfred R. and Isabel L. Bader*  
*Brian A. Bernstein*  
*John C. Haas*  
*Marc A. McKithen*  
*Zaida Morales-Martinez*  
*Charles J. Reeder*  
*Barbara M. Ruppel*  
*Barbara Hodsdon Ulyot*

3M Foundation  
Acusis  
The Camille & Henry Dreyfus Foundation, Inc.  
Dow Corning Foundation  
DuPont Center for Collaborative Research & Education  
GlaxoSmithKline  
Hach Scientific Foundation  
PPG Industries Foundation  
Société de Chimie Industrielle (American Section)  
Westinghouse Electric

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

Werner Baumgarten  
Madeleine and Joe Jacobs  
Martin L. Peller

*Gifts were made in memory of the following individuals:*

Richard S. Egly  
Patrick Grimes  
Kitty Katz  
Rodwick L. Malan  
Josef F. Palme  
Samuel M. Tuthill  
Harold M. White  
Helga A. Whiteside  
George J. Ziarnik

### GIFTS FROM IRA ACCOUNTS

*Seven gifts were made from Individual Retirement Accounts for a total of \$44,240.*

## 2007 BOARD OF DIRECTORS AND OFFICERS

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

**Catherine T. (Katie) Hunt**  
President, ACS  
Rohm & Haas  
Spring House, PA

**Bruce E. Bursten**  
President-Elect, ACS  
University of Tennessee  
Knoxville, TN

**E. Ann Nalley**  
Immediate Past-President, ACS  
Cameron University  
Lawton, OK

**Madeleine Jacobs**  
Executive Director & CEO, ACS  
Washington, DC

**Anne T. O'Brien**  
Director, District I  
Wyeth-Ayerst Research (Retired)  
Tarrytown, NY

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

**Madeleine M. Joullie**  
Director, District III  
University of Pennsylvania  
Philadelphia, PA

**Eric C. Bigham**  
Director, District IV  
GlaxoSmithKline (Retired)  
Chapel Hill, NC

**Bonnie Charpentier**  
Director, District VI  
Metabolex, Inc.  
Palo Alto, CA

**Dennis Chamot**  
Director-at-Large  
National Research Council  
Washington, DC

**Valerie J. Kuck**  
Director-at-Large  
Bell Labs (Retired)  
Upper Montclair, NJ

**C. Gordon McCarty**  
Director-at-Large  
University of South Carolina  
Beaufort, SC

**Howard M. Peters**  
Director-at-Large  
Peters Verry LLP (Retired)  
Palo Alto, CA

**Kent J. Voorhees**  
Director-at-Large  
Colorado School of Mines  
Golden, CO

**Marinda Li Wu**  
Director-at-Large  
Science is Fun! Company  
Orinda, CA

**Flint H. Lewis**  
Secretary & General Counsel, ACS  
Washington, DC

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



This annual report is printed entirely on Forest Stewardship Council (FSC) certified paper. FSC certification ensures that the paper used in this report contains fiber from well-managed and responsibly harvested forests that meet strict environmental and socioeconomic standards. The logo also signals the printer's Chain-of-Custody certification, ensuring that raw materials have followed an environmentally-responsible path from harvest to final printing.



“Every member of the American Chemical Society has a story. Every member of the ACS is unique. But we also have something in common. And that is, we love chemistry. And why do we love chemistry? Because it offers us problems that are interesting, that we want to solve, and that, in turn, give back solutions to society.”

**RIGOBERTO HERNANDEZ**

Associate Professor of Chemistry and Biochemistry,  
Georgia Institute of Technology, Atlanta.

*He is a 15-year ACS member.*



THE AMERICAN CHEMICAL SOCIETY