

## WHY I DONATE TO ACS



ACS Loyal Donor Bassam Shakhshiri reviews a Project SEED student's research poster.

"Chemistry was always good to me... the least I can do is to give back to my profession."  
—Scholars Endowment Founder Joseph Vacca

"We need to encourage young people to believe that they can make the discoveries that will change the world. I searched the internet years ago and found the American Chemical Society, the world's largest scientific society with 158,000 members. This is a powerful number of scientists. I learned that these scientists founded Project SEED nearly 50 years ago. Supporting this program in my small way is the best place for me to start to encourage young people to do research. It is not research for America, but research for all people everywhere."  
—ACS Loyal Donor Masaki Tan



International Activities and Donor Reception at Pacificchem-International Chapter representatives Prof. James Darkwa of South Africa and Prof. Joshua Obaleye of Nigeria with Development Director, Kathy Fleming, and ACS Loyal Donor Masaki Tan of Japan.

Share why you support ACS Education Programs by sending an email to [donate@acs.org](mailto:donate@acs.org).

## PROJECT SEED

Project SEED places economically disadvantaged high school students in academic, industrial, or governmental laboratories for 8 to 10 weeks during the summer to engage in hands-on scientific research under the supervision of a volunteer scientist mentor. Since 1968, nearly 10,000 students have experienced the excitement of chemistry through research projects at more than 350 institutions nationwide. Project SEED has been proven effective, as exit surveys show that 78% of SEED participants plan to go to college, a far greater percentage than their economic demographic would predict.



A Project SEED student and mentor share a laugh in the lab at the University of South Carolina.

460

volunteer mentors and coordinators



Project SEED students working in the lab at Colorado State University.

97% of Project SEED students indicate the experience helped them to develop new skills and abilities

"The program has influenced me to major in chemistry pre-medicine and become an anesthesiologist. Not only do I want to help administer medicine but I would like to do research along with others and help advance medicine that will be used well past my lifetime. It has helped me grow into a very independent young woman and has helped me become [more] curious and eager to learn than ever before."  
—Aaliyah Ardoin, McNeese State University

## ACS SCHOLARS PROGRAM

The ACS Scholars Program was founded in 1995 to help students from underrepresented minority groups pursue degrees and careers in the chemical sciences. Awarding \$17 million in scholarships to high performing students with financial need, ACS has demonstrated unparalleled success in helping undergraduates meet the rigors of earning a chemistry-related degree. Fully 90% of ACS Scholars graduate from college, and more than 80% with degrees in the chemical sciences. What sets this program apart is that ACS complements academic scholarships with comprehensive support, including internships, mentoring, and networking opportunities to help minority students succeed in college and enter the profession.



ACS Scholar Endowment Founder Arindam Bose meets his named scholarship recipient Courtney Johnson who is majoring in chemical engineering.

"I am extremely grateful for being chosen as an ACS Scholar. The financial award will make it possible for me to concentrate on my studies without financial worries. I will be able to dedicate myself completely to studying and take the most rigorous courses during the school year without having to worry about balancing school and work."  
—Daniel Perry, Massachusetts Institute of Technology

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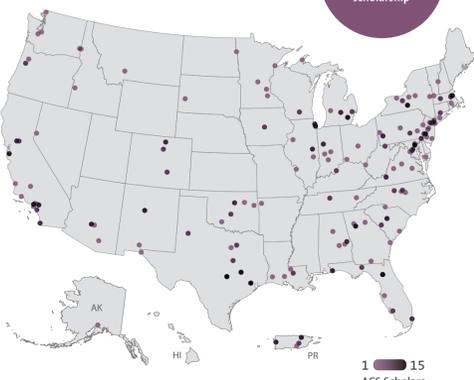
former ACS Scholars have earned a Ph.D. and 215 are currently enrolled in a program



ACS Scholar Melissa Ramirez will earn a B.S. in chemistry from the University of Pennsylvania in 2016 and plans to attend graduate school to obtain a doctorate in organic chemistry.

"Someone saw a greater potential in me than I could imagine for myself."  
—Kimberly Ortiz

### ACS SCHOLARS IN 2015



317

students were awarded scholarships

2015 ACS SCHOLARS	
Female	57%
Male	43%
MAJORS	
Chemical Engineering	39%
Chemistry	38%
Biochemistry	15%
Materials Science	2%
Environment Science/Chemistry	2%
Double majors and Related Chemical Science	4%

"One of the exceptional benefits of the program is identifying a mentor for each student. The continuing support from my ACS mentor has been great in making the daunting transition from community college to Stanford. Figuring out the education plan for each student is a unique and time consuming process. With the help of the scholarship, my mentor and so many others, I feel confident that I will be successful."  
—Sergio Banuelos, Stanford University

- \$5,000 provides a scholarship for a junior or senior
- \$ 625 provides one month of financial support for a junior or senior
- \$ 150 provides one week of financial support for a junior or senior



Selena Tran Jurado, a Project SEED student at Sandia National Laboratory for two summers, entered college as an ACS Scholar in the fall of 2015.



## ADVANCING CHEMISTRY TEACHING

Advancing Chemistry Teaching (ACT) supports the professional development of science teachers so that they can better present chemistry in the classroom and foster the scientific curiosity of our nation's youth. Science education was transformed in 2014 when ACS created the American Association of Chemistry Teachers (AACT), the first national organization dedicated solely to supporting K-12 teachers of chemistry by providing a professional home through which teachers have access to specialized resources and the broader chemistry community. By supporting teachers, who first spark in students a passion for science, chemistry education is made more innovative, relevant, and effective.



Teachers prepare drops of colored water on a laminated chart in the Inquiry in Action Workshop.

1,100

chemistry educators supported through the ACS-Hach Program



Kathryn 'Kitty' Hach with ACS Board Member Ingrid Montes in Denver, CO. ACS has continued the Hach Scientific Foundation's commitment to chemistry educators.



During the ChemClub's 10th Anniversary celebration, presenter Sally Mitchell and two students explore the link between smell and flavor with nose clips.

## 20TH ANNIVERSARY OF THE ACS SCHOLARS PROGRAM

To celebrate the outcomes of 20 successful years of the ACS Scholars Program, the Society undertook a special 20th Anniversary Appeal with the goal of raising \$1 million in 2015. With results of \$1 million from corporations and \$700,000 from individuals ACS is committed to continuing fundraising to provide annual scholarship support and to build an endowment that will help provide long-term stability for the program. Corporations will continue to invest in developing the next generation of innovators, and generous individuals will play a critical role in ensuring the program's future by endowing named scholarships.

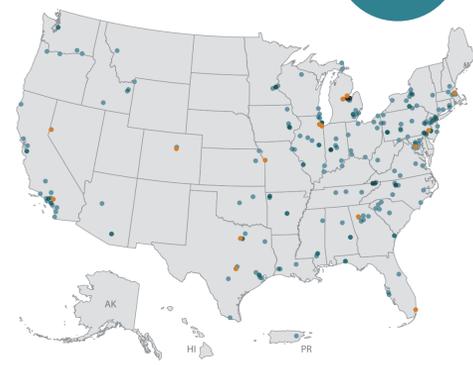


Above: Honorary Anniversary Appeal Chair Madeleine Jacobs and Co-Chair Carlos Gutierrez with program champions Zaida Morales Martinez and Al Heinger. ACS President and Appeal Co-Chair Diane Schmidt recognizes Procter & Gamble VP Alan Maingot for cumulative contributions of \$1.1 million with ACS Executive Director and CEO Tom Connelly. Milly Delgado accepts the Zaida C. Morales Martinez Prize for Outstanding Mentoring of ACS Scholars established by Robert Lichter and Diane Scott-Lichter.



"Very helpful in building my own background knowledge."  
—Big Ideas about the Very Small Workshop Participant

### ADVANCING CHEMISTRY TEACHING IN 2015



200

ACS Science Coaches participated

2015 ACS SCIENCE COACHES	
Graduate Student	12%
Professional	73%
Retiree	15%
GRADE LEVELS	
Elementary School (Grades K-5)	26%
Middle School (Grades 6-8)	25%
High School (Grades 9-12)	49%

85%

of teachers indicated that working with an ACS Science Coach improved their teaching

- \$5,000 provides ten teachers with leadership training
- \$ 500 gives materials for a classroom supported by a Science Coach
- \$ 100 provides three Science Activity Kits



## ACS LEGACY LEADERS

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

- Anonymous (4)
- Cameron and Jeanette Ainsworth
- Alfred and Isabel Bader
- Edward Becker
- Jeanette Brown
- Inara Brubaker
- Susan Butts
- Matthew Chan
- Susan and Kenneth Fahrenholtz
- George Fisher
- J. Lynn and Joellen Fordham
- Helen Free
- William Harlacher\*\*
- Sharon Haynie
- Ned and Linda Heindel
- Madeleine Jacobs
- Susan Jarboe
- Madeleine Joulie
- Bacon and Keiko Ke
- Ronald and Petta Khouw
- Sandra Lamb Sanford\*\*
- Joan Laredo-Liddell
- James and Marjorie Leenhouts
- Judith Leonard\*\*
- Adriane Ludwick
- Margo McIvor
- E. Gerald Meyer
- Josef Michl
- Glenn and Mary Ellen Moser
- Eli Pearce\*\*
- Glenn Prestwich and Barbara Bentley
- Charles Reeder
- Donald Rickett
- Carolyn Ruth
- Diane and Warren Schmidt
- Donald Seelzy\*\*
- Catherine Sigal
- George Sosnovsky
- Elizabeth Weisburger
- John Wiesensfeld

\*\*Recently deceased



16

webinars hosted by AACT reaching 1,000 people in 2015



Featured for Earth Day

- LESSON PLAN | Environmental Problems
- LESSON PLAN | Plant Chemistry
- LESSON PLAN | Now I Can Drink the Water



Clockwise from above: A teacher tries out the diffraction grating glasses to look at the light spectrum in a session on Energy in Chemistry: An Atomic View where participants engaged in "argumentation activities" that were designed to deepen students' conceptual understanding about atomic models of matter, quantization of energy, and atomic emission spectroscopy. ACS Leader Julie Ann Andrew leads discussion during the NSTA Day of Chemistry event titled Energy as a Framework to Teach Chemistry at Multiple Levels. ACS provides online teaching resources.

723

Teachers were reached by ACS in partnership with the National Science Teachers Association (NSTA) Day of Middle School Chemistry through workshops in major cities including Philadelphia, Reno, and Kansas City



ACS ChemMatters Lead Editor Patrice Pages speaks with a teacher visiting the ACS Education booth at the NSTA meeting. ACS Leader Rebecca Stober helps participant of the Days of Chemistry at the National Science Teacher Association to understand energy transfer between systems with different temperatures.