

2016

AMERICAN CHEMICAL SOCIETY

PROGRESS REPORT



Courtesy Nexeo Solutions



ACS
Chemistry for Life®



Credit: Steve Ashe

DEAR FRIENDS,

With your support, the American Chemical Society made great progress towards its educational goals in 2016. The ACS Scholars Program is now halfway to establishing a \$5 million endowment that will encourage diversity in the chemical sciences well into the future. The ACS Board of Directors reauthorized the American Association of Chemistry Teachers (AACT), recognizing the importance of this unique community in supporting classroom teaching and preparing students for the opportunities that lie ahead.

As we turn to the future, it is worth noting that Project SEED will reach its 50th anniversary in 2018—a milestone in our efforts to provide economically disadvantaged students with opportunities for hands-on research and to introduce a passion for chemistry early on in their lives.

ACS is proud to lead in chemical education. We provide trusted guidance to policy makers and classroom teachers alike and offer resources to encourage promising students at all levels. We strive to ensure that future generations of

professionals are prepared to improve people's lives through the transforming power of chemistry, and that non-scientists, too, are able to interpret the scientific information that affects their everyday lives.

Project SEED, ACS Scholars and AACT are part of a broad portfolio of teaching and learning resources that are the foundation of the Society's support for chemistry education. However, there is so much more that ACS can do. I welcome your transformative ideas as we continue our invaluable work to build a strong future for the chemical profession.

To those who made annual or pledged gifts or included ACS in your wills to ensure the future of these programs, thank you again for sharing ACS's vision of excellence in education and for partnering with us to support students and teachers of chemistry. Together, we have truly made a difference.

Sincerely yours,

Thomas M. Connelly, Jr., Ph.D.
ACS Executive Director & CEO

The Project SEED summer research program offers bright, economically disadvantaged high school students the opportunity to experience chemistry research first-hand.

Students entering their junior or senior year of high school are matched with mentors in academic, industrial and governmental laboratories where they receive individualized attention and guidance on conducting research and entering a career in science. Students participate in research, write reports, and present their findings at scientific meetings, helping them gain essential skills and further insights into chemistry careers.

414 students participated in Project SEED in 2016

67% of students in 2016 said the program led them to consider pursuing a career in science



Courtesy ACS

PROJECT SEED

89% indicate that Project SEED helped them decide to continue their education beyond high school

82% of students come from families with incomes of \$35,000 or less



Yingqi (Linda) Lin

“Project SEED exposed me to a very academic college environment, and now I’m even more excited to hopefully attend college next year as a first generation college student majoring in biochemistry. After getting a glimpse of scientific research, and organic synthesis specifically, my career goal is now to become a scientific researcher who designs and synthesizes new drugs to aid disease treatment and prevention.”

—Yingqi (Linda) Lin, Project SEED



ACS SCHOLARS PROGRAM

The ACS Scholars Program awards renewable scholarships to underrepresented minority students who wish to enter chemistry-related fields. Scholarships are awarded on the basis of academic achievement, career objective, financial need, leadership ability, participation in school activities and community service. High school seniors and college freshmen, sophomores or juniors are eligible to apply.

To help scholarship winners achieve success, ACS seeks mentors from college and university faculty, industry, minority scientific organizations and other institutions. ACS Scholars are encouraged to participate in undergraduate research and internships and to attend ACS National Meetings.

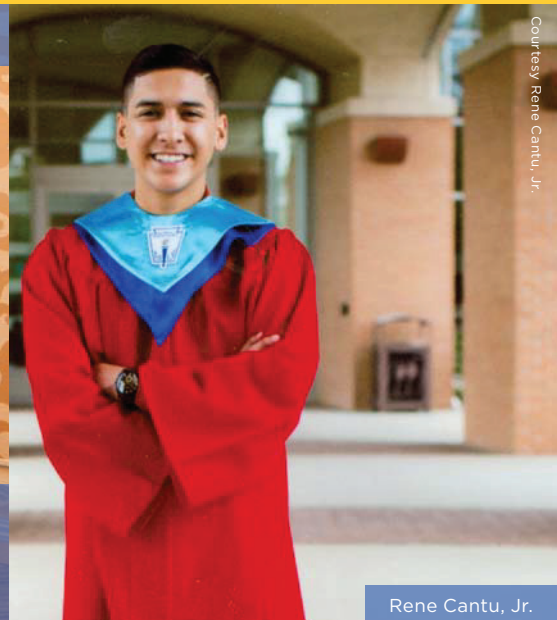
355 undergraduates received scholarships in the 2016–2017 academic year

185 colleges and universities are included in the current cohort

Gender of 2016 Scholars:
56% female, 43% male

270 program alumni have received Ph.D. degrees, 40 of whom are now in academic positions

100% OF YOUR DONATION SUPPORTS AWARDS FOR ACS SCHOLARS



Rene Cantu, Jr.

"I am honored to be one of the recipients of the American Chemical Society Scholarship. Thanks to your generous support I am the first in my family to attend college."

—Rene Cantu, Jr.,
ACS Scholar



ACS Scholars and friends at the ACS National Meeting in Philadelphia.

ACS provides a broad portfolio of teaching and learning resources to support teachers of chemistry and foster scientific curiosity among youth. This includes:

- The American Association of Chemistry Teachers, offering teaching and learning resources to K-12 educators nationwide
- ChemClubs, a unique opportunity for high school students to experience chemistry beyond the classroom
- Science Coaches, a partnership between volunteer professional scientists and K-12 educators

60+ professional development workshops and presentations for K-12 teachers provided in person and online

871 ACS-Hach scholarships have been awarded to support future chemistry teachers in all 50 states

250 Science Coaches in classrooms in the 2016–2017 school year



Students investigate chemiluminescence through an ACS activity kit.

ADVANCING CHEMISTRY TEACHING



Courtesy: Simona Murph

"Most of the complete online curricula [like ACS's] cost money. I have no budget. I spent hours of my own time each week searching to find free activities and worksheets, but inevitably, they did not align with my textbook.

"I was so frustrated and felt like I was failing my students. However, I didn't see a way out. One night I found your free textbooks and I felt incredible relief!

"Thanks to you, I feel like I can educate my students and do my best for them."

—Anonymous K-12 special education teacher

100% OF YOUR DONATION SUPPORTS RESOURCES FOR CHEMISTRY TEACHING

THANK YOU

ACS thanks the following donors for their support of students and teachers in the chemical sciences.



Courtesy ACS.
Genentech's Michael Varney welcomes representatives from Bay Area businesses to an ACS Scholars Program reception hosted by the company.



Credit: Linda Weng/C&EN
ACS Scholar and Project SEED alumna Samsam Dirie (center) speaks with mentor Sarah Mullins of 3M during the ACS National Meeting in Philadelphia.

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Courtesy James Leenhouts.
ACS Executive Director and CEO Tom Connolly (center right) speaks with ACS members and educators in Florida about attracting students to STEM careers.

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Diane Schmidt receives her Legacy Leader pin from Tom Connelly at the ACS National Meeting in San Diego.

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