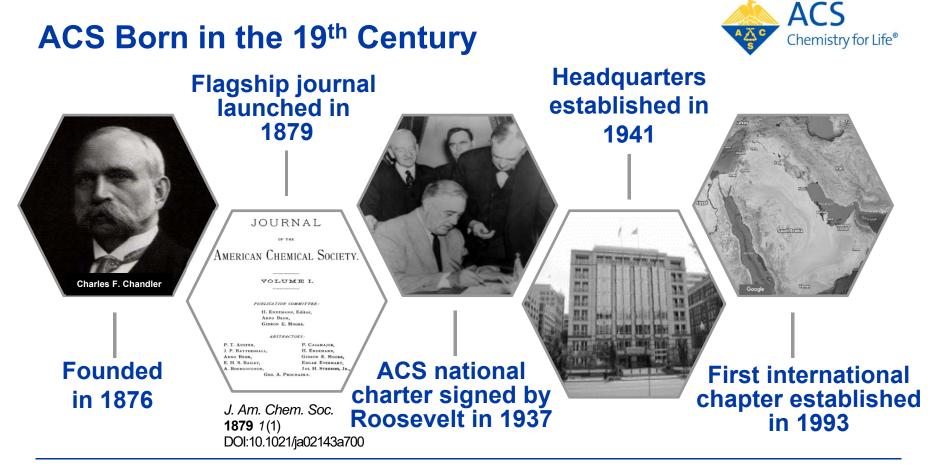




## About ACS





### In 1876

- Cars didn't exist yet in America.
- Alexander Graham Bell was inventing the telephone.
- Dmitri Mendeleev formulated the periodic table of elements just seven years prior.
- It was the centennial of the Declaration of Independence.



### **About ACS – Our Presence Today**



	2,000	2	20+	
	Employees	Primary U.S. locations	Countries	
180+	20+	30+	155,000+	130+

### **About ACS – Our Impact**



65	3,400+	11,200+	\$20M+
National awards administered	Current & former ACS Scholars	High school students sponsored	Research grants & scholarships awarded annually
<b>55,000</b> +	3.6M+	156M+	165M+

### **ACS Vision, Mission and Core Values**



#### 📀 Vision

Improving peoples lives through the transforming power of chemistry



Advancing the broader chemistry enterprise and its practitioners for the benefit of Earth and its people

### Core Values

Passion for chemistry and the global chemistry enterprise

Focus on members

Professionalism, safety and ethics

Diversity, equity, inclusion and respect



#### **ACS Goals**



Goal 1 Provide information solutions

Goal 2 Empower members and member communities

Goal 3 Support excellence in education

Goal 4 Communicate chemistry's value

Goal 5 Embrace and advance inclusion in chemistry





#### **Goal 1 Provide information solutions National meetings & expositions**



<b>2x</b> Per year	<b>14,000+</b> Attendees per event	ACS Chemistry for Life
12,800+	200+	
Presentations per event	Exhibitors & free workshops per event	

#### Goal 1 Provide information solutions Most trusted. Most cited. Most read





**American Chemical Society** 

ACS Publications' goal is to deliver indispensable solutions to researchers who are addressing global challenges.

#### Journals, Books and Resources

- Portfolio of 65+ peer-reviewed journals, including the Journal of the American Chemical Society
- ACS Legacy Archives: Digital archive of all journal articles from 1879-1995
- ACS Symposium Series
- ACS Guide to Scholarly Communication
- ACS Reagent Chemicals

#### Goal 1 Provide information solutions Most trusted. Most cited. Most read.

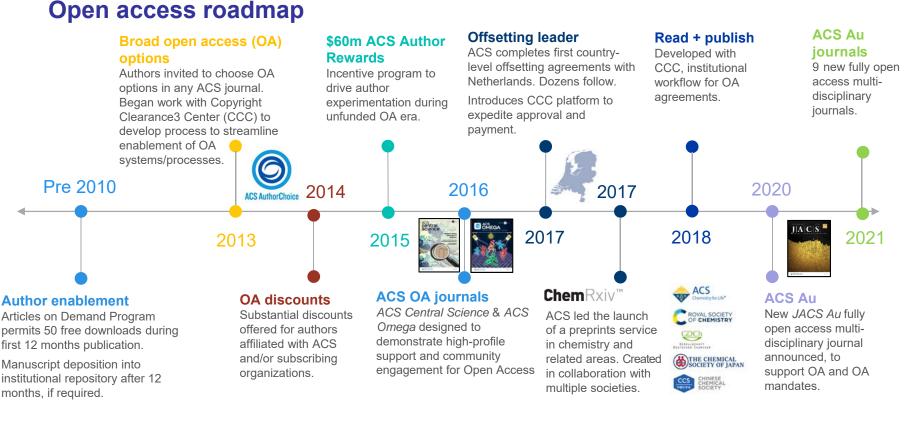
#### ACS Publications by the numbers...

- Most cited and/or impactful scientific journals in five core chemistry categories, according to the 2019 Journal Citation Reports<sup>®</sup>
- More than 55,000 peer reviewed articles published annually by a global community of scientists
- Researchers from around the world engaged with over **1.3 million** research articles
- Over 156 million article downloads from 6,000+ academic, government and corporate institutions
- 100,000+ original news stories

2019 data







#### Goal 1 Provide information solutions Author and reviewer resources





#### Goal 1 Provide information solutions C&EN and its expanding digital offerings





- C&EN is the world's most comprehensive and authoritative news source about chemistry and related fields
- C&EN has been published by ACS since 1923
- C&EN publishes daily news online, a weekly magazine in print and digital formats, weekly email newsletters, a video series, a podcast, a daily Alexa briefing and more



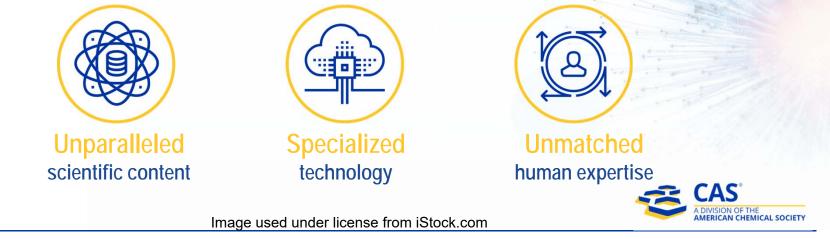
facebook.com/cenews instagram.com/cenmag twitter.com/cenmag

**Goal 1 Provide information solutions CAS is a specialist in scientific information** 



We power discovery to solve our world's biggest challenges.

With over 110 years of experience, no one knows more about scientific information and related technology than CAS.



# Today, the CAS content collection is unparalleled in breadth, depth and quality





#### Goal 1 Provide information solutions Partner with CAS to unleash innovation



Maximize the value of your IP portfolio	Ensure that your intellectual property is protected and find opportunities to extend into new markets.	Upgrade your data assets to drive success with new technologies that are transforming R&D.	Capture the promise of AI and big data
Stay ahead with a 360-degree view of the landscape	Avoid surprises and make smart investments with insight into the latest discoveries and competitive intelligence.	Get discoveries to market faster and optimize margins by giving researchers the information they need.	Accelerate your discovery pipeline
	Images used under lice	nse from iStock.com	CAS® A DIVISION OF THE AMERICAN CHEMICAL SOCIETY

#### **Goal 1 Provide information solutions Human expertise continues to differentiate CAS solutions and service today**

- CAS now employs hundreds of scientists and technologists across disciplines
- Curate data from nearly 3 million publications a year
- Collectively speak 50+ languages
- Provide insight, context and connections between data beyond what algorithms can do

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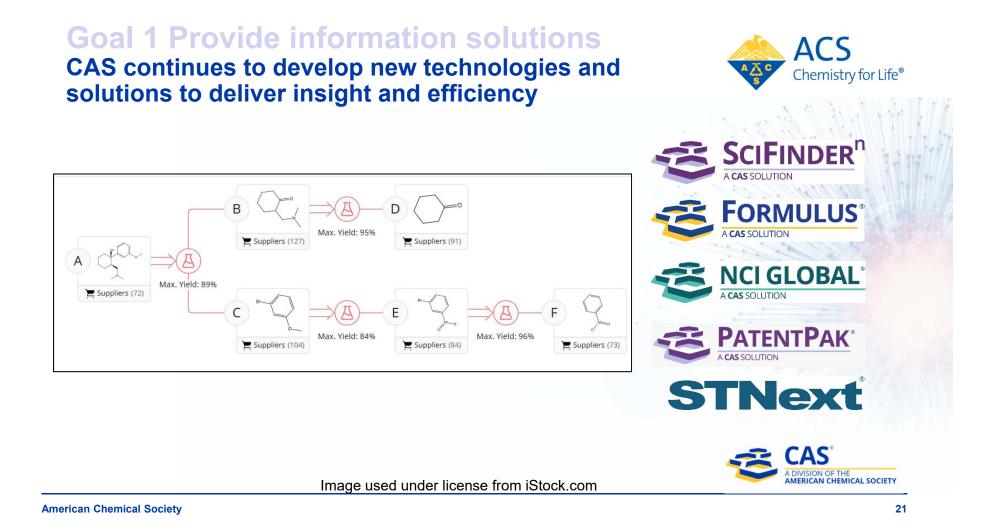
# CAS continues to develop new technologies and solutions to deliver insight and efficiency



SCIFINDER <sup>n</sup>	Substances 🕶 taxol		× 🕐 Draw Q
Return to Home Filter by	♀ Substance	S (1)	
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<ul> <li>Reaction Role</li> <li>Product (1)</li> <li>Reactant (1)</li> <li>Reagent (1)</li> <li>Catalyst (1)</li> </ul>	<b>33069-62-4</b> View Detail	r V	
<ul> <li>Reference Role</li> <li>Adverse Effect (1)</li> <li>Analytical Study (1)</li> </ul>	Absolute stereochemistry sho $C_{47}H_{51}NO_{14}$ Taxol	wn, Rotation (-)	
<ul> <li>Biological Study (1)</li> <li>Combinatorial Study (1)</li> <li>Formation (1)</li> <li>View All</li> </ul>	■ 68K References Reactions	T73 Suppliers	

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# CAS continues to develop new technologies and solutions to deliver insight and efficiency

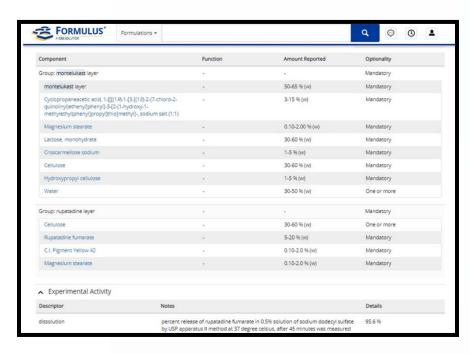






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# Customized services are allowing innovators to leverage CAS assets in new ways







#### Powerful predictions to transform R&D

- Specialized training sets
- Data structuring
- Customized molecular fingerprints
- Consulting

#### Actionable insights for datadriven decisions

- Prediction & insights
- Landscape & trend analysis
- Decision support

#### Insights for confident IP decisions

Strategic IP

- IP search & analysis
- Patent
   landscape
   analysis
   Whitespace

analysis

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Workflow Integration

#### More efficient R&D for faster discoveries

- API integration
- Data harmonization
- Data integrity
- Custom curation .

#### Unlock value from your scientific data

Knowledge

Management

### Consultation & training

- Data management
- Data governance
- Custom search tools



#### **Goal 1 Provide information solutions** Supporting research to meet global needs



#### **ACS Petroleum Research Fund**

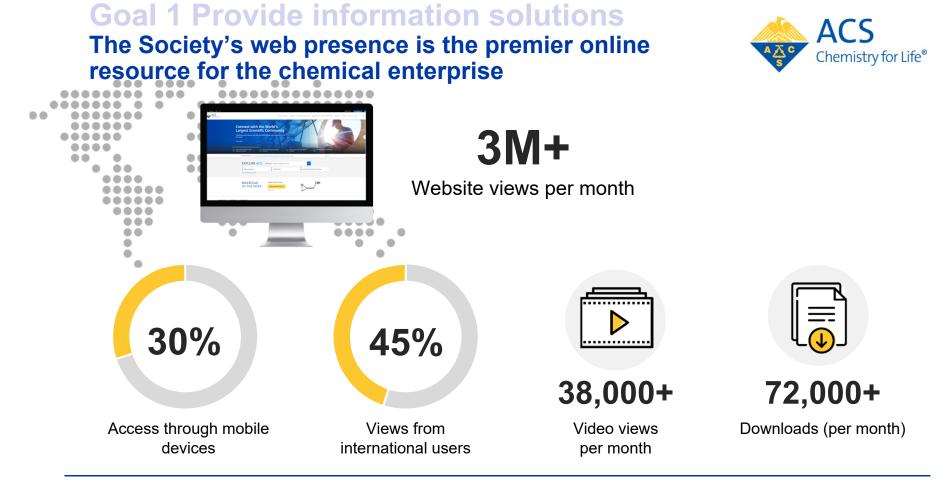
- Supports the advancement of scientific education and fundamental research directly related to petroleum and fossil fuels
- The grant enables new investigators to start programs and established researchers to initiate a new research direction. 30 Nobel laureates have been supported by PRF grants



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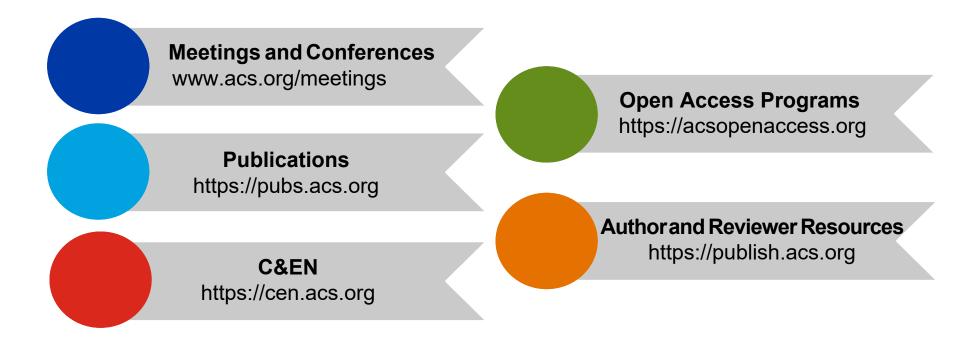
ACS also offers other grants and fellowships, such as:

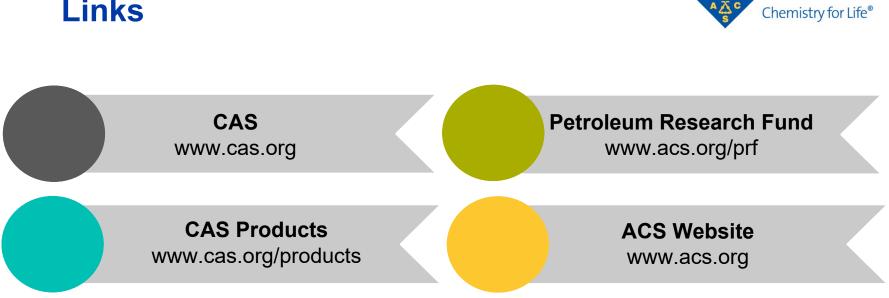
- Herman Frasch Foundation Grants
- Irving S. Sigal Postdoctoral **Fellowships**



### Links







### Links

**American Chemical Society** 

ACS



### Goal 2 Empower members



#### **Goal 2 Empower members** Helping to forge career pathways



ACS Career Navigator™ has resources that help ACS members stand out in the crowd when contemplating a new career path, searching for a job or striking out on their own.	<ul> <li>Career Growth &amp; Development</li> <li>ACS Career Pathways™</li> <li>Personal career consulting</li> <li>ChemIDP™</li> </ul>	
<ul> <li>Finding &amp; Landing the Job</li> <li>ACS Career Navigator Live</li> <li>C&amp;EN Jobs</li> <li>Getexperience.acs.org</li> <li>ACS Salary Calculator™</li> </ul>	<ul> <li>Exploring Career Options</li> <li>College to Career website</li> <li>inChemistry</li> <li>Graduate &amp; Postdoctoral Chemist</li> </ul>	Image used under license from Shutterstock.com

#### **Goal 2 Empower members** Developing leadership skills

The ACS Leadership Development System<sup>®</sup> offers courses designed to teach essential management and leadership skills to gain a competitive edge in today's global economy. Courses offered in-person include:

- Fostering
   Innovation
- Leading Without Authority
- Engaging Colleagues in Dialogue
- Coaching and Feedback
- Developing Communication Strategies

- ACS Chemistry for Life®
- Engaging and Motivating Volunteers
- Collaborating
   Across
   Boundaries
- Leading Change
- Strategic Planning
- Extraordinary Leader

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#### **Goal 2 Empower members** Fostering professional education



#### Available in-person and online

- 7+ subject areas
- 120+ course topics in catalog
- 45+ topics scheduled publicly
- **110+** total course instances
- 600 800 learners per year





### Links

#### Careers www.acs.org/careers

#### ACS Leadership Development System®

www.acs.org/leadershipdevelopment

#### **Professional Education**

www.proed.acs.org





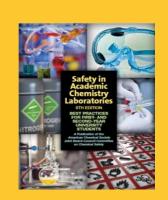
#### **Goal 3 Support excellence in education Promoting chemical safety**



Become the authoritative source for laboratory chemical safety information	Create strategic partnerships and communities across disciplines		
Support excellence in safety education	Develop and execute a progressive safety communication strategy	Image used under license from Shutterstock.com	

#### **Goal 3 Support excellence in education Promoting chemical safety**





Targets safety concerns encountered by first- and secondyear college students in general and organic chemistry laboratories



Provides guidance for faculty, teachers and students to develop, enhance and assess chemistry safety education ACS Creating Safety Calcures in Academic Institutions:

Discusses elements of safety culture and recommendations for strong safety cultures in academic institutions

#### Goal 3 Support excellence in education Offering resources for learners and educators



#### Resources for K-12

- Adventures in
   Chemistry
- middleschool chemistry.com
- ChemMatters
- ChemCom
- Science Coaches
- Inquiry in Action
- Chemistry Olympiad

American Chemical Society

# Resources for students and postdocs

- inChemistry Magazine
- Graduate &
   Postdoc Chemist
- Career
   Kickstarter
- Postdoc-to-Faculty
   workshop

# Resources for educators

- Laboratory safety resources and recommendations
- ACS Education
   publications
- Assessments and study guides
- ACS Approval Process
- New Faculty Workshop

#### **Goal 3 Support excellence in education Providing community support**



400+ ACS ChemClubs	<b>10+</b> ACS International ChemClubs	
1,100+ ACS Student Chapters	80+ ACS International Student Chapters	<image/> <caption></caption>

Salt Lake Community College ACS Student Chapter

#### **Goal 3 Support excellence in education** Meeting the needs of chemistry teachers



American Association of Chemistry Teachers	<b>7,500+</b> Members	
850+	140+	
<u> </u>	<u> </u>	
Labs, demos,	Professional	
lesson plans and	development	
other activities	webinars	Image used under license from iStock.com

#### **Goal 3 Support excellence in education Promoting diversity, equity, inclusion and respect**



#### **Project SEED**



**11,200+** economically disadvantaged high school students awarded scholarships & research opportunities

#### **ACS Scholars Program**



**3,400+** underrepresented students majoring in chemistry awarded scholarships & mentoring support

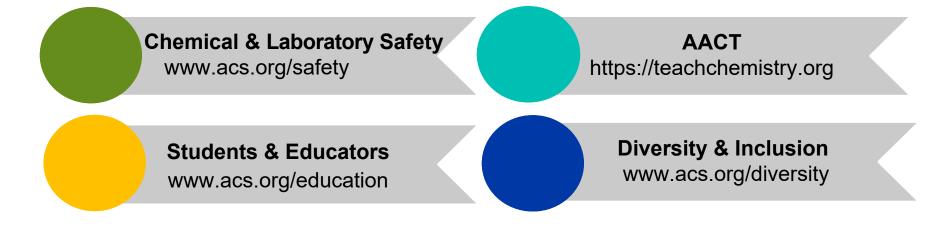
#### **ACS Bridge Project**



\$5.3M+

to broaden diversity in chemical sciences education over five years





Links







Goal 4 Communicate chemistry's value

**American Chemical Society** 

42

# Goal 4 Communicate chemistry's value Working to ensure the health of the chemistry enterprise



<b>225+</b> Congressional briefings for the ACS Science & the Congress project	<b>75+</b> Congressional Chemistry Caucus members	
<b>15,000+</b> Act4Chemistry Legislative Action Network members	<b>20+</b> ACS-issued public policy statements	Image used under license from Shutterstock.com

#### Goal 4 Communicate chemistry's value Improving legislative understanding of key public policy issues



Innovation through research and technology	Science education and workforce	Image used under license from Shutterstock.com
Sustainability and the environment	Science in public policy	

#### Goal 4 Communicate chemistry's value Translating public policy issues into action



### ACS staff registered lobbyists

- Work with policymakers, the administration and federal agency staff
- Draft and endorse legislation
- Lead stakeholder coalitions
- Support bipartisan congressional caucuses, e.g., Chemistry Caucus, STEM Education Caucus

## ACS member public policy engagement

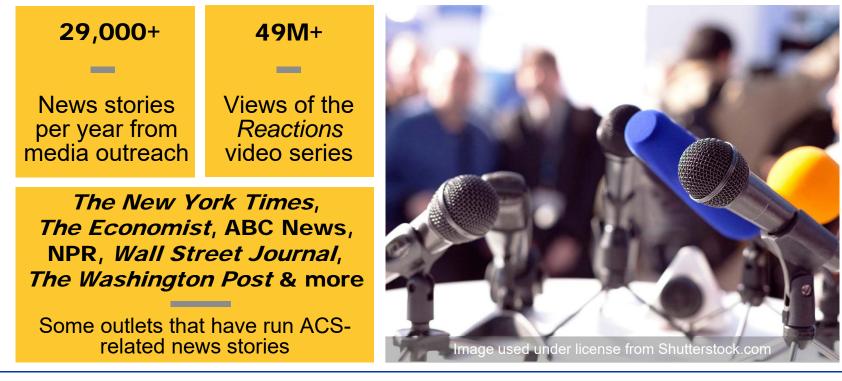
- Advocacy training workshops
- Act4Chemistry Legislative Action Network
- Meetings on Capitol Hill and with district offices and federal agencies
- Provide congressional testimony
- Participate in congressional briefings

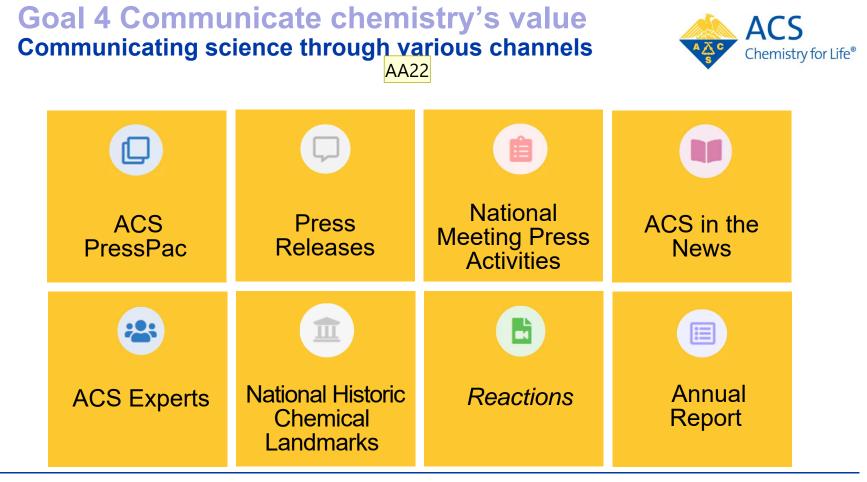


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#### Goal 4 Communicate chemistry's value Communicating science to the media







AA22 Does anything need to be changed with this slide? Confirm with Sue & Glenn. Abraham, Anju, 10/6/2020

#### Goal 4 Communicate chemistry's value Communicating science to the public





#### Goal 4 Communicate chemistry's value Promoting global scientific interests



ACS is committed to supporting the global chemistry community by:

- Collaborating with organizations to highlight the contributions of chemistry to the UN Sustainable Development Goals
- Empowering ACS members to build active chemistry communities through our 25 international chemical sciences chapters
- Monitoring potential threats to scientific freedom through the Science & Human Rights Initiative
- Promoting global scientific collaboration through international travel and project grants



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#### **Goal 4 Communicate chemistry's value** Seek sustainable solutions



ACS Green Chemistry Institute<sup>®</sup> (GCI) is dedicated to catalyzing the implementation of green and sustainable chemistry and engineering throughout the global chemistry enterprise and across the Society. Key GCI activities include:

- Annual Green Chemistry and Engineering Conference
- ACS GCI Industrial Roundtables
- Green Chemistry Education Roadmap
- Awards, grants, workshops and tools

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#### Goal 4 Communicate chemistry's value Seek sustainable solutions

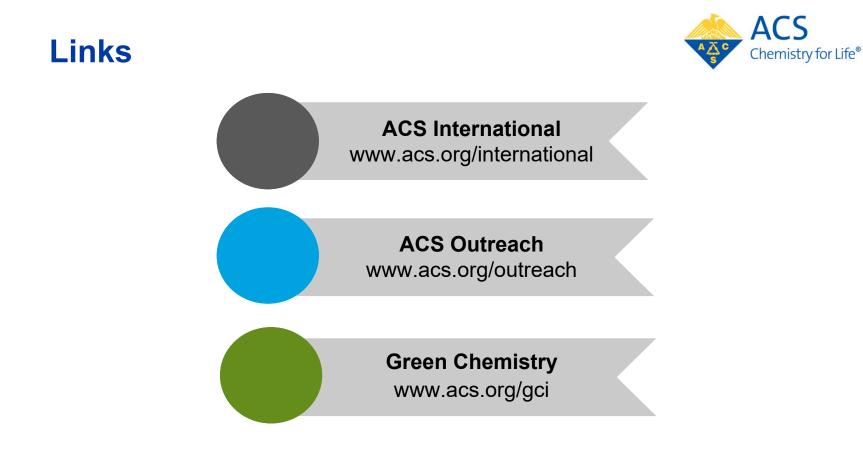


We recognize that chemistry is crucial to achieving many of the U.N. Sustainable Development Goals. ACS strives to lead change in this area by:

- Communicating progress toward the goals and motivating the community
- Fostering innovation, collaboration and translation of research
- Advocating for aligned policy changes
- Expanding global partnerships











#### Goal 5 Embrace and advance inclusion Supporting and affirming personal identity



The Author Name Change Policy removes or reduces barriers to inclusion, professional mobility and author credit by fulfilling name changes to previous ACS publications. The policy seeks to recognize authors who have changed their names for many reasons, including – but not limited to – gender identity, marriage, divorce or religious conversion.



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#### Goal 5 Embrace and advance inclusion Supporting the recruitment and retention of teachers



ACS has joined other organizations in the Get the Facts Out project to change the conversation around STEM teacher recruitment, providing a toolkit and data to dispel the myths.

ACS-Hach Programs provide scholarships for future high school teachers, along with grants and mentoring for current high school teachers.

### Get the Facts Out





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#### **Goal 5 Embrace and advance inclusion Breaking barriers for student success**



Each year, ACS Project SEED provides 350+ high school students from economically disadvantaged backgrounds with summer research experiences in various fields and industries, as well as stipends and mentoring in college preparation and professional development.



#### Goal 5 Embrace and advance inclusion Empowering under-represented students



Each year, the ACS Scholars Program provides ~350 undergraduate students from groups that are underrepresented in chemistry with scholarship and mentoring support as they pursue their degrees in the chemical sciences.



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#### Goal 5 Embrace and advance inclusion Creating a model of bridging experiences



The ACS Bridge Project is developing and connecting programs and activities that improve access to graduate education and completion of Ph.D. programs. Professional development activities, a national network of chemistry programs and the Inclusive Graduate Education Network are supporting ACS Bridge Fellows and other students from underrepresented groups.



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#### **Goal 5 Embrace and advance inclusion** Celebrating the diversity of chemistry



In 2020, over 20 women entrepreneurs were featured in C&EN's inaugural Trailblazers issue. The issue highlighted women in chemistry who have launched their own firms to find treatments for rare diseases, build better batteries, tackle the opioid crisis and more. In 2021, C&EN's Trailblazers issue will celebrate Black chemists and chemical engineers.



#### **Goal 5 Embrace and advance inclusion** Including and representing global voices



Over 30 scientists participated in the CAS Future Leaders Program in 2020. The program cultivates leaders worldwide through training, networking opportunities, CAS product access and expense-paid trips to CAS headquarters and ACS national meeting.



2019 CAS Future Leaders





Project SEED www.acs.org/projectseed

ACS Scholars www.acs.org/scholars

ACS Bridge Project www.acs.org/bridge CAS Future Leaders Program https://www.cas.org/about/future leaders

### Links



Get The Facts Out www.acs.org/getthefactsout

ACS Publications https://publish.acs.org/publish/ publishing\_policies/name\_change ACS-Hach Programs www.acs.org/Hach

**C&EN Trailblazers** https://cenm.ag/2020-trailblazers