



2019

AIChE[®]
ANNUAL
REPORT

AIChE 
The Global Home of Chemical Engineers



June C. Wispelwey
 AIChE Executive Director
 and Chief Executive Officer



Kim Ogden
 2019 AIChE President

2019 was another dynamic year for AIChE as we continued to evolve and diversify, keeping pace with our members' many diverse characteristics, interests, and technical specializations.

This past year, we reflected on the concept of community. Our members represent an ever widening spectrum of knowledge, industrial platforms, and personal affiliations – making AIChE a home to many interconnected communities. These communities collectively form the architecture of AIChE, and together they are shaping the Institute and our profession.

As a community and a professional society, AIChE had much to be proud of last year. This report presents many of our accomplishments for 2019, driven by our numerous and diverse entities.

In 2019, we:

- ▶ Provided new leadership for the emerging hydrogen economy through the establishment of our Center for Hydrogen Safety
- ▶ Launched 20 new technical conferences that address emerging areas of chemical and biological engineering application and practice – significantly expanding our portfolio of international events
- ▶ Offered new platforms for innovation and achievement – through projects led by our technical entities, industry technology groups, and the AIChE Foundation. This included a newly established endowment for innovation and entrepreneurial excellence: the Langer Prize fellowship
- ▶ Developed a revised climate policy statement – supported by the launch of a new Climate Solutions Community
- ▶ Created new major-meeting program tracks that highlight the many ways chemical engineers contribute to global well-being
- ▶ Provided the next generation with a new K-12 STEM showcase of engineering demonstrations
- ▶ Empowered underrepresented communities through leadership development programs and other recruitment and retention initiatives
- ▶ Redesigned and relaunched aiche.org as the main information portal for AIChE communities
- ▶ Grew the engagement of industry and academia through our Spring and Annual meetings.

These programs were developed by members who joined forces to pursue meaningful community objectives. Many of these activities are supported in part by the AIChE Foundation, through its Doing a World of Good and All for Good initiatives. Our 2019 Doing a World of Good Gala was our most successful to date – raising more than \$700K to help us continue our work to build a profession that is inclusive, powerful, and unquestionably diverse.

In order to ensure that chemical engineers can continue their leadership in addressing the world's challenges in resource availability, healthcare, food, water and energy, AIChE must continue to encourage the full and equitable participation of all of its members and stakeholders.

In 2019, AIChE's Board of Directors amended the Institute's vision and mission statements and adopted a new aspirational statement as a guidepost for AIChE and its members, emphasizing our commitment to a united community of chemical engineers and their associates.

Our aspiration: To inspire a safe, connected, and inclusive community – Doing a World of Good as:

- ▶ *The Global Leader of the chemical engineering profession*
- ▶ *The Center for lifelong professional and personal growth*
- ▶ *The Foremost Catalyst in applying our expertise to sustainably meet societal needs.*

We believe that community counts. AIChE is dedicated to helping its many diverse communities communicate the positive impact the chemical engineering profession has throughout the world. We encourage all of our members to build AIChE communities that advance our shared aspirations to do a world of good.

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Membership

In 2019, AIChE's Board of Directors continued to offer a sponsored first year of membership for graduating senior student members. The program supports early career engineers as they transition from student to young professional membership.

AIChE launched its Community Counts program — a membership development effort to share curated technical content and generate engagement through the Institute's technical divisions. The pilot kicked off in 2018 with the Fuels and Petrochemicals Division and the Food, Pharmaceutical, and Bioengineering Division. In 2019, the efforts extended to the Computing and Systems Technology Division (CAST), the Education Division, the Management Division, and the Materials Engineering and Sciences Division (MESD).

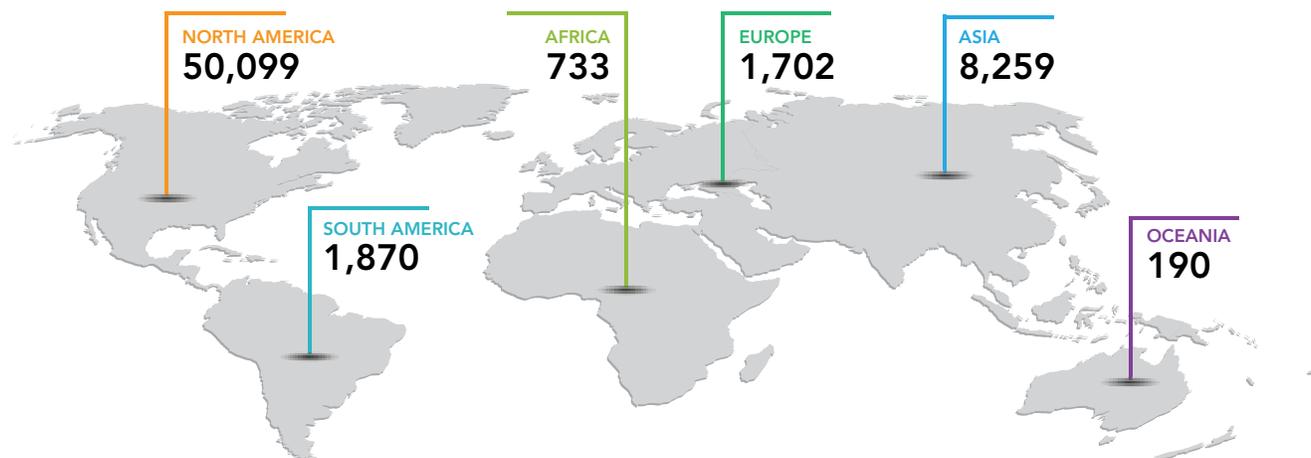
 **60,000+**
TOTAL MEMBERS

 **110+**
COUNTRIES

 **39.4K+**
PROFESSIONAL MEMBERS

 **23.4K+**
UNDERGRADUATE MEMBERS

International distribution of all members



Divisions and Forums

11,000+
DISTINCT MEMBERS

are also members of at least one technical division or forum. Learn about **divisions and forums** at: <https://www.aiche.org/community/divisions-forums>

Local Sections

7,100+
MEMBER PROFESSIONALS

participate in **local sections** across North America and at international locations — <https://www.aiche.org/local-sections>

Many other members also participate in the monthly online meetings of AIChE's **Virtual Local Section** — <https://www.aiche.org/community/sites/local-sections/virtual-local-section>

Building communities

In 1908, a community of chemical engineers joined together to establish AIChE. Since then, members of the Institute have continued to affiliate through AIChE's many communities, fueled by their shared interests and expertise. Recently, AIChE has created even more of these communities, allowing like-minded engineers to exchange knowledge, shared technical interests, and pursue professional, societal, and personal development objectives.

In addition to entities based on geographic location or technical interest, AIChE is building distinct communities that serve process engineers, chemical engineers with disabilities, LGBTQ+ engineers, engineers working toward climate solutions, and more — helping members to strengthen the profession and thrive as individuals and engineers.

Technical Entities

AIChE's Society for Biological Engineering (SBE) and the Institute for Sustainability (IfS) have expanded their reach and technical content through conferences, peer-reviewed journals, credentials, awards, and educational offerings. Additional technical entities include the Center for Energy Initiatives (CEI), the International Metabolic Engineering Society (IMES), the International Society for Water Solutions (ISWS), the Center for Innovation and Entrepreneurship Excellence (CIEE), and the Regenerative Engineering Society (RE Society).

In 2019, the technical entities (TEs) added 20 new conferences, bringing more than 4,600 attendees to international destinations including Bahrain, China, Germany, Korea, Spain, the United Arab Emirates, the U.K., and other locations. Additionally, the TEs fully supported 466 early career academics, postdocs and student attendees via grants from private and governmental programs. The TEs also launched new awards in entrepreneurship and metabolic engineering. Another highlight was the Spring 2019 debut of the Center for Hydrogen Safety (CHS) — aiche.org/chs, reaching more than 28 industrial members globally. The first CHS Conference was held Oct. 14–15 in Sacramento, CA.

AIChE.org/TEs

New Conferences in 2019

- **Waste to Energy Asia** (Mar. 11–13, Singapore)
- **Chemical Ventures** (Apr. 23–24, Wilmington, DE)
- **Enterprise and Infrastructure Resilience** (Aug. 12–13, Cincinnati, OH)
- **Global Symposium on Waste Plastic** (Sept. 19–20, Lexington, KY)
- **Middle East Competitive Energy Systems Symposium** (Sept. 24, Bahrain)
- **PD2M Process Control Workshop** (Sept. 30–Oct. 10, Bethesda, MD)
- **Battery and Energy Storage** (Oct. 21–22, New York, NY)
- **Bioenergy Sustainability** (Oct. 21–23, Nashville, TN)
- **AfroBioTech Conference** (Oct. 27–29, Atlanta, GA)
- **Emerging Meat Alternatives** (Oct. 31–Nov. 2, San Diego, CA)
- **Polymers & Textiles** (Nov. 6–8, Lowell, MA)
- **Engineering Cosmetics & Consumer Products** (Nov. 9–10, Orlando, FL)
- **PD2M Future of Pharmaceutical Manufacturing** (Nov. 21–22, Washington, DC)
- **Cell Free Systems** (Dec. 4–6, Boston, MA)
- **Food Innovation & Engineering Asia** (FOODIE Asia) (Dec. 5–6, Singapore)
- **Food–Energy–Water Nexus** (Dec. 8–10, New York, NY)
- **Optogenetic Technologies & Applications** (Dec. 8–10, Boston, MA)
- **Engineering Sustainable Development** (Dec. 12–13, Korea)
- **Solar Energy System** (Dec. 12–13, Waco, TX)



Student Membership

AIChE saw continued expansion of its undergraduate student activities in 2019, with the establishment of 29 new student chapters — including four in Brazil, four in Colombia, three in China, and two each in Ecuador, India, Lebanon, Pakistan, and the U.S. AIChE also launched its first chapters in Argentina and Sri Lanka, plus new chapters in Canada, Indonesia, Jordan, Korea, Mexico, and Saudi Arabia.

Two new AIChE Regional Student Conferences were held in Greece and Korea. Four additional Regional Student Conferences were held outside North America, in Bahrain, China, Colombia, and India.



23,000+
STUDENT MEMBERS



MORE THAN
340
STUDENT CHAPTERS



ACROSS
85
COUNTRIES



ACROSS
45
COUNTRIES

AIChE.org/Students



AIChE undergraduate student membership is subsidized through the generosity of its ScaleUp sponsor organizations. Thank you to our ScaleUp program sponsors for their generous support in helping to enrich the next generation of chemical engineers.

AIChE.org/ScaleUp

PLATINUM



GOLD



A Honeywell Company

Diverse and Inclusive Communities

AIChE continued its work to build a fully inclusive ChE profession with the support of the AIChE Foundation's



All for Good: Engineering for Inclusion initiative. This initial five-year, \$5MM fundraising effort aims to address gender and racial disparities and increase inclusion across the profession.

Highlights in 2019 included continued programming by the Disabilities Outreach & Inclusion Community and the LGBTQ+ (lesbian, gay, bisexual, transgender, questioning) Community. Volunteers expanded the K-12 Committee to help promote the best in pre-college STEM (science, technology, engineering, and math) outreach. The Minority Affairs Committee (MAC) offered new travel grants, awards, and a poster session to help build the pipeline of future leaders. The Foundation hosted its second Rising Star Leadership Workshop for women engineers and a new Leadership Equity in Engineering event (see p.13).

New in 2019

Climate Solutions Community



Correlating in 2019 with the AIChE Board's release of a revised climate

policy statement, AIChE launched a new Climate Solutions Community, in which interested members can help to identify viable solutions to mitigate, adapt, and become resilient to the effects of climate change, and to develop a portfolio of technical and government policy solutions necessary to address both industrial and community challenges.

<https://www.aiche.org/community/sites/climate-solutions-community>

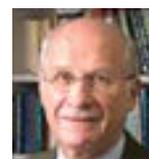
Awards and Honors

AICHE and its entities present dozens of awards, celebrating contributions across the spectrum of chemical engineering. The most prestigious honors are the Board of Directors' and Institute awards — presented at the Honors Ceremony during AICHE's Annual Meeting. See all the professional-level award winners for 2019 at [AICHE.org/2019/awards](https://www.aiche.org/2019/awards).

The Board of Directors' 2019 **Founders Award** was presented to **Ignacio E. Grossmann** of Carnegie Mellon University. The BOD's **Van Antwerpen Award for Service to the Institute** was presented to **H. Scott Fogler** of the University of Michigan.

The **John M. Prausnitz AICHE Institute Lecture** capped off the 2019 AICHE Annual Meeting on Nov. 13. **Karen K. Gleason** of MIT presented the 71st annual lecture, entitled "From Chemical Engineering Fundamentals to the Commercialization of Vapor Deposited Polymers."

At the 2019 Spring Meeting and Global Congress on Process Safety, **Sharon Beshouri** of Shell Global Solutions presented the **AICHE Government and Industry Leaders (AGILE) Award** lecture on embracing transitions to ensure a robust future.



Ignacio E. Grossmann



H. Scott Fogler



Karen K. Gleason



Sharon Beshouri



Matt Sigelman



Michael D. Graham



César de la Fuente

New in 2019

Thanks to the generous support of donors, the AICHE Foundation established several new endowments and honors:

- The inaugural **Presidential Lecture** was presented by **Matt Sigelman** of Burning Glass Technologies on Nov. 11 at the Annual Meeting. His talk reflected on the rise of "hybrid jobs" and the new skills-based economy.
- The **William R. Schowalter Lecture** debuted at the Annual Meeting on Nov. 13. Named for fluid mechanics pioneer Schowalter, the lecture was given by **Michael D. Graham** of the University of Wisconsin-Madison.

Another newly-endowed honor is AICHE's **Langer Prize for Innovation and Entrepreneurial Excellence**. Named for biomedical pioneer Robert Langer (MIT), and administered by AICHE's Center for Innovation and Entrepreneurial Excellence, the inaugural fellowship was awarded to **César de la Fuente** of the University of Pennsylvania. The prize provides an unrestricted grant to enable creative researchers and engineering entrepreneurs to pursue game-changing innovations.

Education

In 2019, AICHE Academy delivered eLearning and face-to-face courses, webinars, conference presentations and more to chemical engineers and their organizations worldwide.

In addition to conducting dozens of webinars and in-person courses, the Academy launched new eLearning courses on process safety, hydrogen safety, diversity and inclusion, and engineering leadership development — as well as new courses for the SACHE (Safety and Chemical Engineering Education) program.

Members and non-members alike use these resources to improve their professional skills, train teams, and brush up on trending topics. AICHE Academy courses can be sorted by topic area and skill level. Many Academy products offer continuing education units (CEUs) and professional development hours (PDHs). AICHE Academy is committed to enhancing its learning delivery methods to meet the evolving needs of our growing professional and student base.

[AICHE.org/Academy](https://www.aiche.org/academy)



Publications

Journal Highlights

2019 was an excellent and successful year for AIChE's six journals: *AIChE Journal*, *Bioengineering & Translational Medicine*, *Biotechnology Progress*, *Environmental Progress & Sustainable Energy*, *Process Safety Progress*, and the newly launched *Journal of Advanced Manufacturing and Processing*. The journals published a total of 9,973 pages in 2019.

In addition to the new *Journal of Advanced Manufacturing and Processing*, highlights of 2019 included:

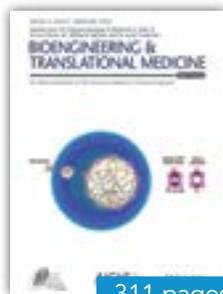
Bioengineering & Translational Medicine (BioTM) completed Year 3 of publication, further expanding AIChE's footprint in Open Access (OA).

AIChE and its publishing partner, Wiley, further embraced Open Research — mandating ORCID IDs across the portfolio.

[AIChE.org/journals](https://www.aiche.org/journals)



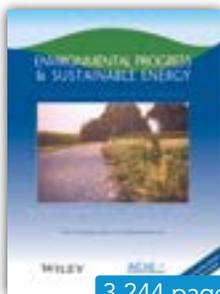
3,951 pages



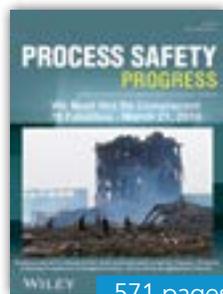
311 pages



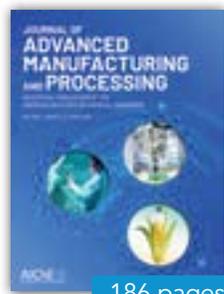
1,710 pages



3,244 pages



571 pages



186 pages

CEP Highlights

Chemical Engineering Progress (CEP) — the Institute's flagship monthly magazine — continued to publish distinctive technical articles, feature stories, product updates, and columns in 2019. User sessions for the electronic versions of CEP (online and via the CEP app) rose by 37%, to more than 348K sessions.

Among the highlights for CEP in 2019 were the biennial **Salary Survey** (June; see sidebar) and four special sections:

- ▶ **Process Intensification** (March)
- ▶ **Society for Biological Engineering: Food Engineering** (May)
- ▶ **Hydrogen Deployment** (August)
- ▶ **Society for Biological Engineering: Industrial Biotechnology** (October)

[AIChE.org/CEP](https://www.aiche.org/cep)

MORE THAN
348K
USER SESSIONS

2019 AIChE SALARY SURVEY

In June 2019, CEP produced and published AIChE's biennial Salary Survey. The results revealed positive advances for the chemical engineering profession, including a median annual salary of respondents that rose by 1.6% over the 2017 median. Among numerous demographic breakdowns, the 2019 survey took a close look at recent graduates entering the workforce.

[aiche.org/salariesurvey19](https://www.aiche.org/salariesurvey19)

SNAPSHOT

\$126K

MEDIAN SALARY

+1.6%

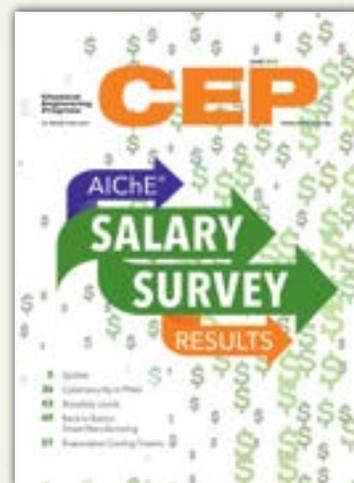
FROM 2017

\$68,000

MEDIAN STARTING SALARY FOR 2016, 2017, 2018 GRADUATES

5 months

AVERAGE TIME TO FIND A JOB FOR 2016, 2017, 2018 GRADUATES



Events

AIChE's major conferences continue to attract chemical engineers and allied professionals working in industry and academia around the world.

2019 AIChE Spring Meeting & 15th Global Congress on Process Safety

The Spring Meeting is AIChE's key technical conference for practicing chemical engineers. Emphasizing technology in core and emerging areas, the 2019 meeting in New Orleans, LA (Mar. 31 – Apr. 4), showcased sessions devoted to Industry 4.0, hydrogen safety, leadership skills, clean energy, gas utilization, refinery processing, ethylene production, distillation, and more. The Global Congress on Process Safety (GCPS) addresses the needs of process safety practitioners, with programming devoted to loss prevention, plant safety, process safety management, and global perspectives.

AIChE.org/Spring

New in 2019

- ▶ **Meet the Industry Candidates Poster Session** — an opportunity for graduate students to showcase their research to industry reps, talent scouts, and recruiters.
- ▶ **Fuels & Petrochemicals Division and Big Data Joint Welcome Keynote Address** —covering the application of big data analytics, artificial intelligence, machine learning, and cloud computing.
- ▶ The launch of the **Center for Hydrogen Safety**, including a luncheon keynote and the opportunity to drive a hydrogen fuel cell vehicle.



2,500
ATTENDEES



800
PAPERS



196
SESSIONS



48
COUNTRIES
REPRESENTED



105
EXHIBITORS

2019 Annual Student Conference

Attendance at the Annual Student Conference (Nov. 8–11 in Orlando, FL), topped 2,000 undergraduates. Highlights included a welcome keynote by Karen McKee, ExxonMobil Chemical President, as well as career sessions, competitions, and networking events. The Undergraduate Poster Session featured more than 430 research presentations.

AIChE.org/ASC19

2019 Annual Chem-E-Car Competition®

Forty-two teams participated in AIChE's 21st Annual Chem-E-Car Competition, which include 12 teams from outside the U.S. Virginia Tech's "Ride or Iodide" won the performance competition, delivering its cargo of 450 ml of water to within 9 cm of the 25-m target distance. The competition is sponsored by Chevron. The \$2,000 first prize is funded by the H. Scott Fogler Endowment, named for the competition's founder.

See all the winners

AIChE.org/2019ChemECarWinners

- ▶ **Six international competitions were held in Bahrain, China, Colombia, Greece, India, and Korea.**



2019 AIChE Annual Meeting

AIChE's premier educational forum for chemical engineers interested in innovation, collaboration, and professional growth, the 2019 AIChE Annual Meeting attracted almost 5,900 attendees to Orlando, FL (Nov. 10–15). The meeting covered core and emerging areas of chemical engineering including energy, next-generation manufacturing, catalysis and reaction engineering, pharmaceutical and bioengineering, materials science, and more.

AIChE.org/Annual

New in 2019

- ▶ Featured panel session: **"Meet the Innovators: Transforming the Future through Chemical Engineering."**
- ▶ New lecture organized by the AIChE president: the **Presidential Lecture** featured remarks from Matt Sigelman, CEO of Burning Glass Technologies.
- ▶ The inaugural **William R. Schowalter Lecture** was delivered by Michael D. Graham, University of Wisconsin-Madison.
- ▶ New topical conferences covered **emerging topics such as food innovation, entrepreneurship, and data science applications.**
- ▶ Core programming on **alternative energy and fuel sources**, such as ammonia, hydrogen, and synthetic fuels.



5,900
ATTENDEES



6,000
PAPERS



750+
SESSIONS



57
COUNTRIES
REPRESENTED



65
EXHIBITORS

New in 2019

K–12 STEM Showcase and Outreach Competition

Grade school students, parents, and teachers were inspired by hands-on demonstrations of chemical engineering concepts at AIChE's inaugural K–12 STEM (Science, Technology, Engineering, Math) Showcase and Outreach Competition, held at the 2019 Annual Meeting in Orlando, FL, on Nov. 10.

Sixteen teams — consisting of AIChE member undergraduates and professionals — exhibited tabletop demos and participated in mentoring sessions. Volunteers judged the entries for originality, technical content, safety, and suitability for classroom use. AIChE will archive the top entries in an online STEM outreach database, containing lesson plans that can be used by anyone who wants to stimulate STEM interest among future engineers and scientists.

This new event was organized by AIChE's K–12 and Executive Student committees, and supported by the AIChE Foundation.

www.aiche.org/k12

**ALL
FOR
GOOD**

Engineering for Inclusion

A core priority of the
Doing a World of Good campaign



AIChE
K-12



Industry Technology Groups

RAPID Manufacturing Institute

In 2016, the U.S. Department of Energy established AIChE's Rapid Advancement in Process Intensification Deployment (RAPID) Institute. One of the Manufacturing USA institutes, RAPID's public-private collaborations focus on breakthrough process-related technologies aimed at boosting energy productivity and energy efficiency by 20% over five years. Process intensification (PI) is any technology development that leads to smaller, cleaner, or more energy efficient processes.

RAPID's Education and Workforce Development initiative aims to leverage existing training resources to enable the workforce to research, develop, and operate processes that incorporate new PI and modular chemical process intensification (MCPI) technologies.

AIChE.org/RAPID



81
MEMBER ORGANIZATIONS
(UP FROM 75 IN 2018)

2019
IMPACT



33
RESEARCH PROJECTS
TO DATE



153
PROJECT PROPOSAL
SUBMISSIONS TO DATE



17
TRAINING WEBINARS

POTENTIAL
IMPACT



\$150MM
PUBLIC-PRIVATE
INVESTMENT



1,450+
PEOPLE TRAINED TO DATE



20%
REDUCTION IN
ENERGY INTENSITY*

*Potential future impact of PI on U.S. process industries

New in 2019

- ▶ Six new webinars on topics ranging from the Economics of Process Intensification to the Link Between Process Safety and PI.
- ▶ Bundled the RAPID 10-part webinar series on the Fundamentals of PI and continued to offer it and other webinars on-demand.
- ▶ Annualized the 10-week virtual summer intern program to develop future leaders in PI and MCPI. Twenty-six RAPID interns completed the program in 2019.
- ▶ Developed the 2020 AIChE Student Design Competition problem and free downloadable resources for faculty and those who train engineers.
- ▶ Piloted a face-to-face course, "Modular Chemical Process Intensification Boot Camp," at Oregon State University.

DIPPR

The Design Institute for Physical Properties (DIPPR®) is an international membership consortium. Its mission is to ensure that chemical processes are designed and operated as safely and efficiently as possible by producing the most accurate publicly available physical property database in the world. The DIPPR database is widely used by process engineering/R&D/safety teams, especially as an enhanced input data source in third-party simulation software, as well as in-house applications.

AIChE.org/DIPPR



50
CORPORATE MEMBERS



85
GLOBAL LICENSEES

New in 2019



AIChE's Advanced Manufacturing & Processing Society (AMPs) is a forum where chemical process industry stakeholders can receive news and information related to RAPID and the other Manufacturing USA institutes.

aiche.org/AMPs

CCPS

The Center for Chemical Process Safety (CCPS®) is a not-for-profit, corporate membership organization within AIChE that identifies and addresses process safety needs for facilities that handle, store, use, process or transport hazardous materials. CCPS member companies, working in project subcommittees, define and develop useful, time-tested guidelines that have practical applications within industry. CCPS educates employees of member companies through its events, courses, books, tools, online resources, and publications.



AIChE.org/CCPS

2019 Milestones: **2,800**
PEOPLE ATTENDED



MORE THAN

15

GLOBAL CONFERENCES &
REGIONAL MEETINGS



31

NEW MEMBER
COMPANIES HAVE
JOINED CCPS

Conference highlights in 2019:

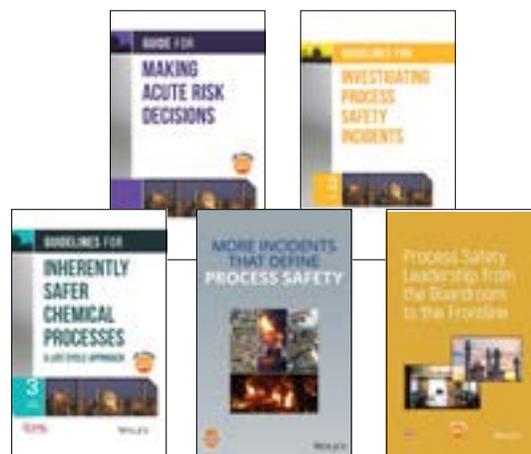
- ▶ The **15th Global Congress on Process Safety** (Mar. 31–Apr. 4, New Orleans, LA) drew 1,000 registrants from 300 companies and 30 countries
- ▶ The **7th CCPS China Conference on Process Safety** (Oct. 30–Nov. 1, Suzhou Bay, China)
- ▶ The **2019 European Conference on Process Safety and Big Data** (Oct. 1–2, Frankfurt am Main, Germany)
- ▶ The **5th CCPS Global Summit on Process Safety** (Oct. 22–23, Singapore)

New in 2019



5

BOOKS
PUBLISHED
IN 2019



- ▶ Developed eight new interactive **SACHe® (Safety & Chemical Engineering Education) modules**
AIChE.org/SACHe
- ▶ Increased incident input into the **Process Safety Incident Database**
- ▶ CCPS offered its **first joint webinar in collaboration with RAPID: “The Link between Process Safety and Process Intensification”**
- ▶ Newly revised **Chemical Reactivity Worksheet**
- ▶ Nearly 2,000 process safety experts worldwide have received **CCPS Process Safety Professional Certification**
- ▶ **Advanced process safety education for students and professors** in collaboration with companies and the AIChE Foundation via the **Undergraduate Process Safety Learning Initiative**. These efforts included **CCPS Faculty Process Safety Training Workshops** held at the facilities of BASF, Bayer, Chevron, Dow, ExxonMobil and LyondellBasell; and seven student boot camps.
AIChE.org/UPSLLI



- ▶ In its 19th year, the **CCPS Process Safety Beacon** continued to publish valuable process safety information for plant operators. Beacon is available in nearly 40 languages, with an estimated distribution of 1,000,000 readers.

AIChE.org/Beacon

Foundation

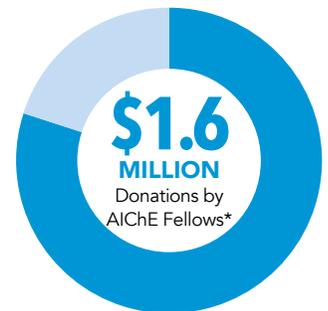
The AIChE Foundation launched its Doing a World of Good campaign in 2015, expanding the profession's positive impact by funding five transformative priorities that advance chemical engineering and bring that expertise to bear in addressing societal needs.

Thanks to the generosity of individual supporters and corporate partners, the campaign has raised \$17MM. More than \$1.6MM has been donated by AIChE Fellows.

DoingaWorldofGood.org



GIVING



\$2MM Campaign Goal

*Refers to overall Foundation donations, including the campaign

PARTICIPATION

120+
TOTAL COMPANIES PARTICIPATING
IN CAMPAIGN

6,000+
SUPPORTERS SINCE
CAMPAIGN LAUNCH

IMPACTS SINCE CAMPAIGN LAUNCH

SAFETY & ETHICAL PRACTICE

136,846

SAFETY CERTIFICATES
AWARDED TO STUDENTS
WORLDWIDE

40,874

STUDENTS COMPLETED
SACHE MODULES
WORLDWIDE

536

NEW FACULTY MEMBERS
EDUCATED ON PROCESS SAFETY
AT INDUSTRY WORKSHOPS

507

UNIVERSITIES
PARTICIPATED IN
UPSLI CURRICULUM

718

UNDERGRADUATES
PARTICIPATED IN
PROCESS SAFETY BOOT
CAMPS AT UNIVERSITIES

ATTRACTING & RETAINING THE BEST & THE BRIGHTEST

217

SCHOLARSHIPS AWARDED TO
UNDERREPRESENTED STUDENTS

52

INTERNATIONAL STUDENT
MEMBERS AWARDED TRAVEL
GRANTS TO ATTEND THE ANNUAL
STUDENT CONFERENCE

RESEARCH & INNOVATION

3,200

INDIVIDUALS TO DATE TRAINED IN
PROCESS INTENSIFICATION

40

UNDERGRADUATES TO DATE
PARTICIPATED IN RAPID'S
INTERNSHIP PROGRAM

EDUCATION & CAREER DEVELOPMENT

4,840

K-12 STUDENTS TO DATE
PARTICIPATED IN AIChE STEM
OUTREACH PROGRAMS

356

MEMBERS JOINED THE
AIChE ONLINE COMMUNITY
FOR PROCESS ENGINEERS

CHANGING PERCEPTIONS

6,500+

LISTENERS TUNED INTO THE RAJ
AND KAMLA GUPTA DOING A
WORLD OF GOOD PODCASTS

92K+

VIEWERS WATCHED THE
"WHAT CHEMICAL ENGINEERS
DO" VIDEO ON YOUTUBE IN
DECEMBER ALONE

FOUNDERS' CIRCLE

BENEFACTORS



UNDERWRITER



PATRONS



2019 AIChE Annual Gala

Held Dec. 3 in New York City, the 2019 AIChE Gala was the Institute's largest to date, raising more than \$725,000 to support the expansion of programs to help recruit, retain, and promote the equitable inclusion of women and other underrepresented groups in their pursuit of careers in STEM fields. The gala honored **Merck & Co.** for leadership in developing innovative therapies to prevent and treat diseases, and **Procter & Gamble Co.** for its leadership and achievements in sustainability. **Jay D. Keasling** (Berkeley Laboratory) received the Foundation's Doing a World of Good Medal for his contributions to resource sustainability and human welfare.

AIChE.org/Gala



▲ Kenneth C. Frasier (left), CEO of Merck, and Davis S. Taylor (right) CEO of Procter & Gamble, received honors at the 2019 Gala. Photo: HMPhotoshoots



▲ Jay D. Keasling

Pre-Gala Workshops

Supported by the Foundation's **All for Good: Engineering for Inclusion** initiative, AIChE hosted two leadership programs prior to the 2019 Gala. The second annual **Rising Star Leadership Workshop for Women in Engineering** provided insight into workplace gender dynamics and training in self-advocacy to more than 30 talented women from companies around the world. The inaugural **Leadership Equity in Engineering** workshop offered mentorship to more than 40 executive-track senior engineers from underrepresented segments of the ChE community.

New in 2019

Video: "What Chemical Engineers Do"

Released at the 2019 Gala, this short film illustrates the substance and breadth of chemical engineering's contributions, inspiring young people and the public to seek a better understanding and involvement in chemical engineering. The film went viral online, with more than 92,000 YouTube views in December alone.



AIChE's Reach

AIChE made an impact on media throughout the world via its numerous news releases and communication channels. AIChE received a total of 2,433 editorial mentions and 15,587 mentions on social media in 2019 (with 1,875 on Facebook and 9,687 on Twitter).

 **2,433**
TOTAL EDITORIAL MENTIONS IN 2019

 **15,587**
TOTAL SOCIAL MENTIONS IN 2019



WEB STATS

2019 2,350,786 USERS

2018 1,906,115 USERS

- ▶ **19% growth in website visitors from previous year**
- ▶ **AIChE.org** attracts site visitors from Australia, Canada, China, Germany, India, Malaysia, Philippines, Singapore, the U.K., and other international locations.

AIChE Engage

The Engage forum connects AIChE members with each other and their chemical engineering communities. It serves as the Institute's directory, discussion platform, and volunteer hub.

Discussion Central is a focal point of AIChE's online activity, with ongoing technical and professional development discussions. Student Central provides a discussion space for undergraduate students, and Engage is also the home for private or subject-specific communities.

[AIChE.org/Engage](https://www.aiche.org/engage)

AIChE Engage

2019 DISCUSSION CENTRAL STATS

 **33.4k**
SUBSCRIBED

 **220**
TOTAL THREADS

Find AIChE daily on
Twitter, Facebook, Instagram
LinkedIn, and YouTube.

New in 2019: Instagram



INSTAGRAM @CHENECTED



TWITTER @CHENECTED

14.3K
FOLLOWERS



LINKEDIN

36.2K
FOLLOWERS



FACEBOOK

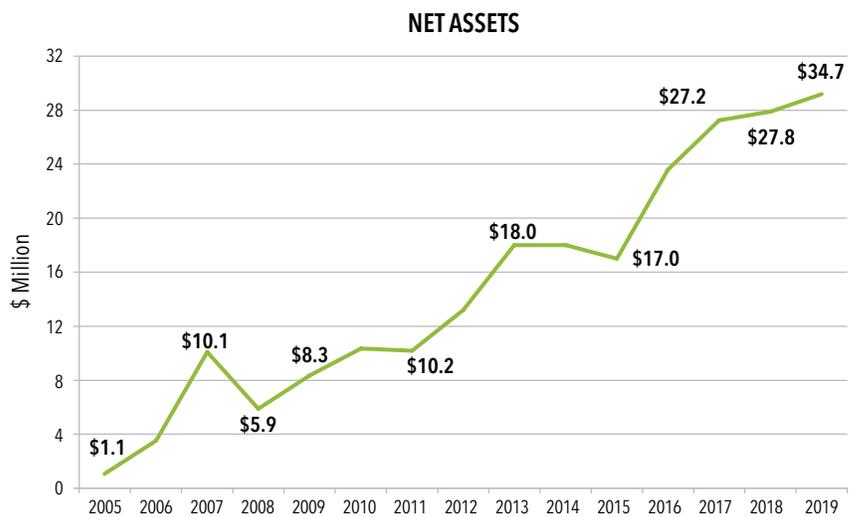
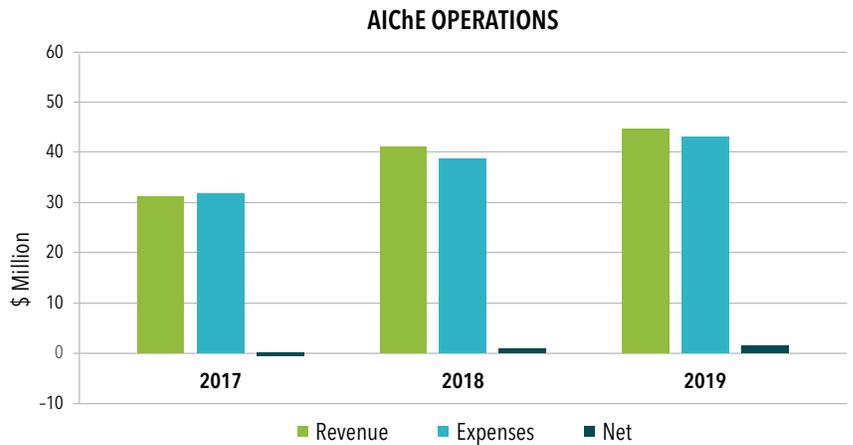
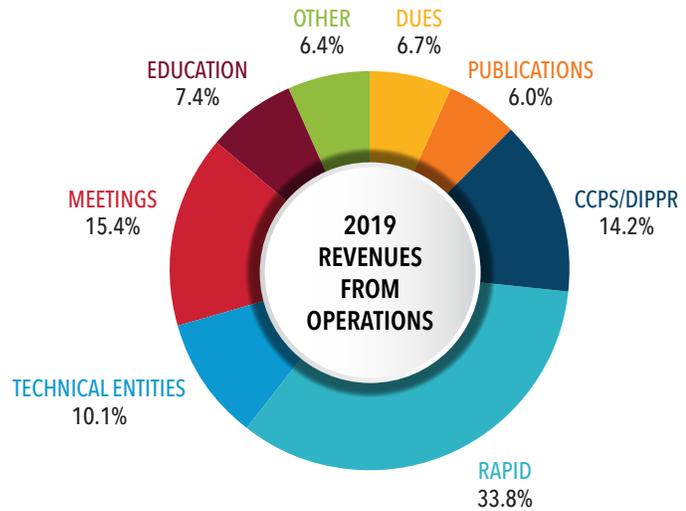
21.5K
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