

# AIChE's Impact on the ChemE Industry

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# Membership

# Who is AIChE?

More than 60,000 chemical engineers from 100+ countries. Since 1908.

- **International professional:** 4,300
- **US professional:** 23,000
- **International undergraduate:** 7,200
- **US undergraduate:** 17,378
- **Male** (professional & undergrad): 43,300
- **Female** (professional & undergrad): 16,531
- **Top 7 industries:** Education, Other, Chemicals – Specialty, Engineering Procurement & Construction, Petroleum Production & Refining, Chemicals – Commodity, Consulting

# Benefits of Membership

Sharing resources and expertise to support you in core process industries and emerging areas.

Providing benefits, tools, communities and services so you can move forward professionally and enrich the world we live in.

# Benefits of Membership

## Networks

- Technical Divisions & Forums
- Local Sections
- Meetings & Conferences
- Online connections (AIChE Engage & social medias)

## Professional Development

- AIChE Academy
- Publications
- Career Resources (salary survey, job search engine, career fairs)

## Member products & services

- Insurance plans (life, dental, health, disability, renters, home, etc.)
- Discounts (UPS, Office Depot, Dell)

# Membership Dues

Professional	\$199
Professional - Senior	\$199
Young Professional (4 <sup>th</sup> year post-undergrad)	\$150
Young Professional (3 <sup>rd</sup> year post-undergrad)	\$100
Young Professional (2 <sup>nd</sup> year post-undergrad)	\$50
Young Professional (1 <sup>st</sup> year post-undergrad)	\$0
Graduate Student	\$50
Postdoctorate Researcher	\$75
Unemployed	\$50
Undergraduate Student	\$0

# Volunteers

- AIChE Board of Directors
- 3 Operating Councils
- 80+ Local Sections
- 22 Technical Divisions and Forums
- 8 Technical Communities
- 25 Committees
- 250+ Undergraduate Student Chapters

# AIChE Communities & Networks



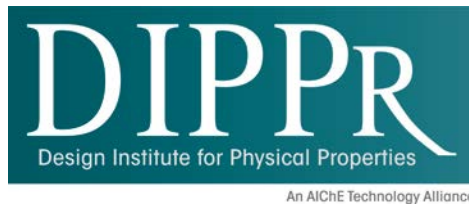
# Divisions and Forums

AIChE offers members a global network to exchange ideas and build your connections.

Divisions	Forums
<ul style="list-style-type: none"><li>• Catalysis &amp; Reaction Engineering</li><li>• Computing &amp; Systems Technology Education</li><li>• Environmental</li><li>• Food, Pharmaceutical &amp; Bioengineering</li><li>• Forest Bioproducts</li><li>• Fuels &amp; Petrochemicals Management</li><li>• Materials Engineering &amp; Sciences</li><li>• Nuclear Engineering</li><li>• Process Development</li><li>• Safety &amp; Health</li><li>• Separations</li><li>• Transport &amp; Energy Processes</li></ul>	<ul style="list-style-type: none"><li>• Chemical Engineering &amp; the Law</li><li>• Computational Molecular Science &amp; Engineering</li><li>• Nanoscale Science &amp; Engineering</li><li>• North American Mixing</li><li>• Particle Technology</li><li>• Pharmaceutical Discovery, Development &amp; Manufacturing</li><li>• Sustainable Engineering</li><li>• Upstream Engineering &amp; Flow Assurance</li></ul>

# Technical Entities

Development of these groups has brought AIChE to the industry forefront as they bring minds together and help impact and shape industry so it evolves with the newest technologies.



# Conferences

[www.aiche.org/conferences](http://www.aiche.org/conferences)



# Online Communities

## AIChE Engage

- Keep track of your member benefits
- Connect with AIChE members worldwide

### Volunteer Central

- New opportunities available across the Institute

### Discussion Central

- Share knowledge and resources
- Pose and answer question to your ChemE Peers



★ Each membership comes with free access ★

<http://engage.aiche.org>

# Local sections

AIChE Local Sections serve as the **lifelong professional home** for AIChE members in all sectors of chemical engineering anywhere in the world. Each AIChE member is affiliated with one or more Local Sections, and for many, the Local Section is the most personal and accessible point of contact for professional support from AIChE. Local Sections, with the oversight and guidance of the Local Section Committee, exist to **provide support in the areas of career and leadership development, continuing education, networking, and supporting the local community**. Every Local Section provides the best support possible by taking into account the local interests and needs of its members. In turn, Local Sections depend on dedicated volunteers to support programming and pay dues. With this support, Local Sections can remain active and thriving and **provide benefits to members that far outweigh the costs of membership** such that all AIChE members will participate in Local Sections. As Local Sections continue to grow, all Local Sections will strive to be **self-sustaining, highly relevant to all AIChE Members, and advanced in the use of information technology (web and social media) to reach more members with more value**.

# Local sections



80+ local sections world-wide  
5 international local sections  
1 virtual-only section

# Professional Development

# Education & Training Resources

All skill levels, all industries, multiple languages, PDH/CEUs offered

- **Courses**
  - In-person and online
- **Webinars**
  - Live and recorded
- **Videos**
  - Conference presentations

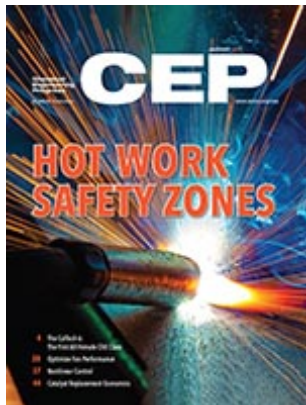
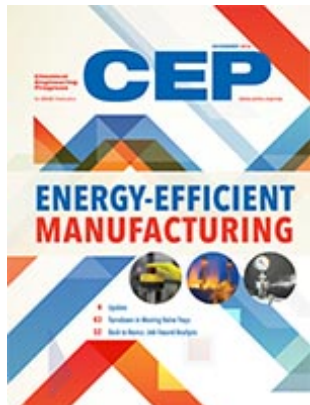


★ Each membership comes with 6 free webinar credits ★

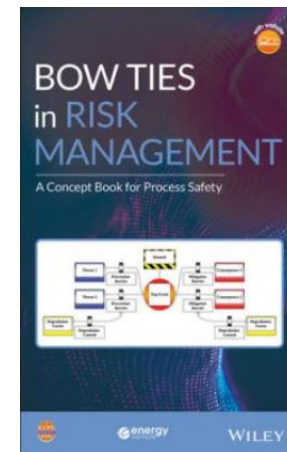
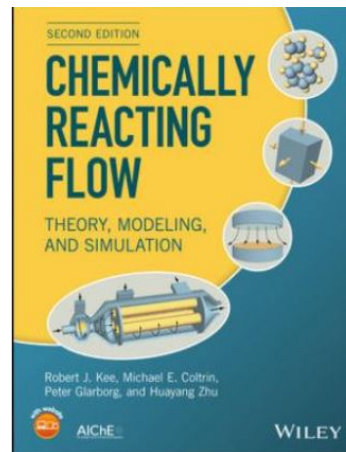
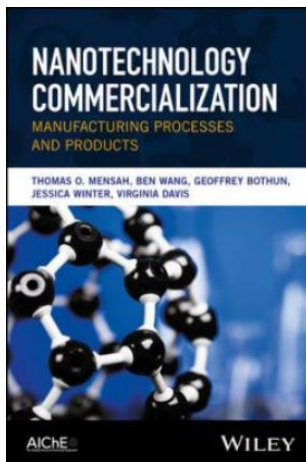


# Publications

**CEP** ★ Each membership comes with a subscription to CEP ★



## Journals & Books



- **Undergraduate Process Safety Learning Initiative (UPSLI)**
  - Global effort to accelerate process safety education and better prepare graduates for the workforce.
  - Free faculty workshops in process safety at various locations
  - Sponsored and supported by over 100 major companies
  
- **Safety and Chemical Engineering Education (SAChE)**
  - Cooperative effort between CCPS and engineering schools to provide teaching materials and programs that bring elements of process safety into chemE university programs.

AIChE Doing a World of Good

# AIChE Foundation

## Doing a World of Good

- A five-year challenge to raise \$15M toward:
  - Attracting & retaining the best and the brightest
  - Education, training & career development
  - Research & innovation
  - Safety & ethical practice
  - Changing perceptions
- To date we're at \$13M from 5,652 donors!

[www.doingaworldofgood.org](http://www.doingaworldofgood.org)

# Member Products & Services

# Discounted Services

## **Student Loan Financing through Credible**

- Save thousands on your student loans. Credible is an online marketplace that provides borrowers with competitive, personalized, prequalified rates from top lenders.

## **Dell Computer Technology**

- The AIChE community saves up to 40% on the regular price of Dell computer systems and a wide range of Dell branded technology products.

Also check out our member discounts to Office Depot, UPS, Healthy Paws Pet Insurance, travel discounts and more!

# Discounted Insurance Plans

- Portable insurance plans you can take with you when you change jobs or careers. You'll receive competitive group rates and flexible plans to fit your budget and your needs.
  - Life Insurance
  - Health Insurance
  - Dental Plans
  - Disability Insurance
  - Professional Liability Insurance
  - Accidental Death & Dismemberment Insurance

# AIChE Strategic Plan



# AIChE's Vision

To provide value as...

- The global **leader** of the Chemical Engineering (ChE) **profession**
- The lifetime center for professional and personal growth and security of **Chemical Engineers**
- The foremost catalyst in applying ChE expertise in meeting **societal** needs

# 6 Strategic Priorities

- Enable the success of all members and stakeholders as the **leader** in advancing the chemical and related engineering professions
- Strengthen existing and create new, relevant **communities**
- Enhance the academic curriculum and promote lifelong learning across the profession by developing trusted **content**
- Expand the **diversity and inclusivity** of the profession
- Address important **societal** issues by utilizing the expertise of the profession
- Proactively innovate and deliver products and services through **transformational technologies**

# Leader

Enable the success of all members and stakeholders as *the leader* in advancing the chemical and related engineering professions

- Continue to advance the profession globally
- Be broad, diverse and inclusive
- Explore alternate models for engagement
- Strive to be the best
- Act nimbly



# Communities

Strengthen existing and create new, relevant communities

- Strengthen existing communities
- Develop new communities in emerging & underserved areas
- Grow in advanced manufacturing areas



# Content

Enhance the academic curriculum and promote lifelong learning across the profession by developing trusted **content**

- Develop and curate timely content across all delivery methods, with global reach
- Address workforce and professional development gaps to benefit industry and members
- Develop and implement competency assessment programs covering specific skills



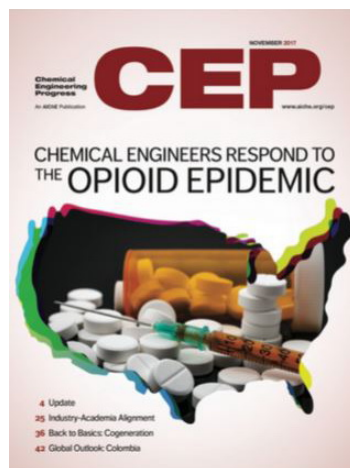
Introducing CCPSC - The CCPS Process Safety Professional Certification Designation

Your Future Is Now Open



**AIChE Academy**  
Connect | Learn | Solve

Education for engineering excellence.



**Safety** **Process-Safety** **Requirements** **SACHE** **Chemical** **Laboratory-safety** **Engineering** **Curricula** **Teaching**

LEARN ■ CONNECT ■ LEAD

# Diversity and Inclusion

Expand the diversity and inclusivity of the profession

- Develop initiatives to engage and retain diversity across the profession
  - Start early for engagement (i.e., middle and high schools)
  - Explore alternative entryways to ChE, e.g., community colleges
  - Promote inclusion programs
  - Leverage partnerships (e.g., organizations, universities, corporations and funding agencies)



## Address important *societal* issues by utilizing the expertise of the profession

- Discuss and engage with key constituencies on important issues
  - Constituencies include government, industry, academia, engineers, public, etc.
  - Topics may include safety, sustainability, public health, education, manufacturing, environmental, etc.
  - Perform societal outreach – how ChEs can and do make the world a better place



Proactively innovate and deliver products and services through *transformational technologies*

- Deliver content using state-of-the-art platforms
- Utilize more interactive and collaborative delivery methods
- Develop and deploy new tools for educational training





Thank you!

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