

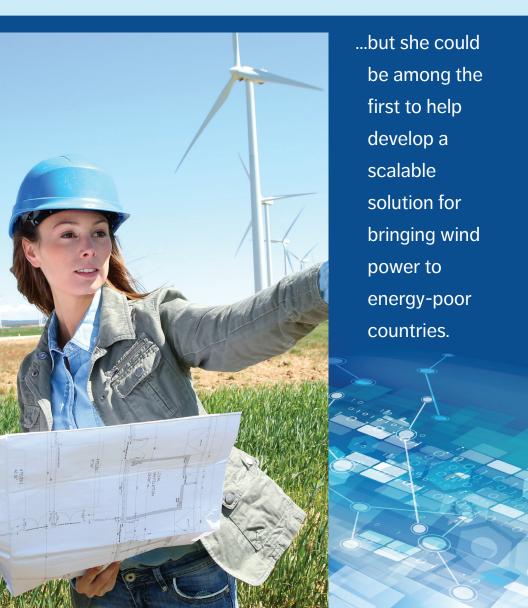
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She's not the only

chemical engineering student to be interested in renewable energy resources...



Enrich Your Professional Development.

Get an AIChE® Undergraduate Student Membership.

In a competitive, ever-changing world, you need professional support to guide you on your journey and help you reach your destination. AIChE®, the global home of chemical engineers, gives you your first professional credential, exciting networking and mentorship opportunities, essential educational and technical resources and career services — all the tools you need, all in one place. Plus eligibility for more than \$50,000 (USD) in scholarships and awards, just for belonging.

And thanks to ScaleUp Platinum Sponsor Chevron, and Gold sponsors Air Products, AspenTech, Corning, Dow, Honeywell UOP and Praxair, AlChE student membership is fully sponsored for undergraduates attending accredited programs anywhere in the world. Apply or renew online at the start of the academic year to keep your membership active.

Join or renew today by visiting **www.aiche.org/studentmembership**.

AIChE®. For the life of your career.

Chemical engineers' innovations, products, and solutions play essential roles in people's lives all over the world. AIChE is helping to shape the future of the chemical engineering profession and ensure it remains a positive, responsible force for change that benefits all of humankind. Join AIChE today to be a part of that mission.

Membership Matters

Develop your leadership skills. Gain technical knowledge. Build your chemical engineering network. Apply for scholarships and awards. Take advantage of exclusive member savings.

With an AIChE student membership, you have access to resources and benefits that will help you optimize your time at college and make a smooth transition from the classroom to a career.

Learning to Lead

Start to establish your name with a global network of students and professionals.

- Student Chapters
- Sister Chapters

- Local Sections
- Executive Student Committee

Technical Resources

Stay current with the latest technologies and trends in mature and cutting-edge industries.

- SAChE Safety Certification
- AIChE eLibrary

- · Online Publications
- AIChE Academy

Build Your Chemical Engineering Network

Connect with industry experts, young professionals, AIChE leaders and other student engineers.

- Conferences
- Competitions
- Internships
- CareerEngineer
- ChEnected Blog and Social Media

- AIChE Engage NEW
- Local Sections
- Virtual Local Section
- · Divisions and Forums
- Industry Technology Groups

Scholarships and Awards

Enrich your résumé and earn recognition for your academic achievement.

 AIChE scholarships and awards are valued at more than \$50,000 (USD). See if you qualify.

Exclusive Member Savings

Take advantage of these valuable member savings:

- Earn cash back for shopping at your favorite stores at the Azigo online mall
- Save on hotels, vacations, car rentals and more
- Save up to 80% at Office Depot
- Save on renters insurance from the AIChE Liberty Mutual Renters Program*

*Renters insurance from the AIChE Liberty Mutual Renters Program covers all of your possessions, including portable devices. You're covered if you accidentally damage someone else's property, too. Most landlords' policies do not cover any of this.



Develop Your Leadership Skills

Your AIChE undergraduate student membership opens the door to valuable leadership opportunities that will look great on your résumé and carry over throughout your career. When you join AIChE, you are part of a global organization that's helping shape the future of the chemical engineering profession, with the collective power of more than 50,000 members worldwide. And that includes 22,500 student members in over 235 student chapters. How's that for collective power?

STUDENT CHAPTERS

AIChE student chapters are places where you can grow through professional programs, affiliation with other student chapters and association with professional members. Any undergraduate student who is enrolled in a chemical engineering program can join. Get involved and see what's in it for you.

Find a Student Chapter

www.aiche.org/findastudentchapter

Looking for a student chapter near you? AIChE has more than 235 student chapters to choose from. And if you can't find what you're looking for, you can start a new one.

Start a Student Chapter

www.aiche.org/startastudentchapter

Few things are more exciting than building something from the ground up. And that's what you'll be doing if you choose to start a new student chapter. Of course, you'll need to gauge student interest in your area, determine your chapter's objectives, select an advisor who can support your effort and guide your chapter as it gains momentum, elect officers and schedule regular meetings. It's a lot of work. But think of the rewards. You'll be sharing your leadership vision with other AlChE student members. Developing project management and program planning skills that will take you far. Broadening your professional network by hosting educational events with AlChE

professional members and social events with your fellow chemical engineering students. From access to industrial speakers and plant tours to community service and social gatherings, the opportunities are tremendous



"Not only was I able to learn more about chemical engineering through the AIChE Recruitment Fair and various workshops, I also had the opportunity to meet chemical engineers from across the world who have similar interests. The national conference definitely helped me define goals for my career as well as for my student chapter."

- Katherine Lai, UC Irvine Student Chapter President

Discover AIChE's Sister Chapters Program www.aiche.org/sisterchapter

Be part of something new. As the geographic boundaries that define our world are erased by digital space and time, the AIChE Sister Chapters Program helps you prepare for an increasingly global workplace by connecting student chapters from different countries in exciting partnerships.

Calls for participation typically go out when the school year begins, and student chapters can elect to participate yearly in the program.

You'll be surprised how much fun you'll have learning about chemical engineering challenges around the globe — and working together to find viable solutions

• Join the Executive Student Committee

www.aiche.org/esc

Interested in taking on an even bigger role? As a member of the Executive Student Committee (ESC), you can hone your leadership skills even further while building collaboration, negotiation and facilitation skills, too. ESC members serve as regional liaisons that communicate with the student chapter presidents in their assigned regions. They also run presidents' meetings and workshops at the Annual Student Conference and regional conferences. Positions for regional liaisons and executive board members are open to all undergraduates. It's a terrific way to build highly desirable management and people skills that employers seek when they make hiring decisions.

Looking for a little friendly competition?

AIChE competitions are open exclusively to student chapter members. And they're a highlight at the AIChE Annual Student Conference. For details, see page 14.

Gain Technical Knowledge

Wherever you are in your studies, the world, or your career, AIChE is your first, best connection to authoritative information, lifelong education, and training that will help you advance your skills, keep current on trends and new developments, and reach your goals in a competitive industry.

SACHE CERTIFICATION

www.aiche.org/sache

Build process safety knowledge while you are still an undergraduate with the Safety and Chemical Engineering Education (SAChE) program, delivered through the AIChE Academy. Participation is free with your student membership and 100% online — so you can learn at your own pace and place. Successful completion of each program earns you a valuable credential that can give you an edge in today's competitive job market.

Earning SAChE certification allows you to:

- Add your SAChE certifications to your résumé prove to employers that you have process safety training beyond your undergraduate degree
- Gain proficiency in process safety knowledge you can use for your studies now or on the job later
- Stay up to date on the same process safety standards used by chemical engineers in industry

SACHE Safety Certification

The SAChE certification program is part of the Center for Chemical Process Safety (CCPS) Undergraduate Process Safety Education Initiative, a global effort to accelerate undergraduate process safety learning, spearheaded by industry, academia and AIChE. Early leadership support for this initiative is being provided by The Dow Chemical Company, a Founders' Circle Benefactor, and Chevron, a Founders' Circle Underwriter. These efforts will improve process safety education and training at the university level, so that all graduating bachelor-level chemical engineers are better prepared for the workforce, now and in the future.

WEBINARS

www.aiche.org/archivedwebinars

What do you want to learn today? As an AIChE student member, you have free, unlimited access to the AIChE Academy's archived webinar library, featuring thousands of presentations on technical subjects and career skills — as well as AIChE conference sessions

AICHE eLIBRARY

www.aiche.org/elibrary

Looking for an authoritative source of technical information for chemical engineers? The AIChE eLibrary is continually growing to meet your research and coursework needs.

Enjoy fast, interactive online access to more than 500 textbooks, handbooks, standards and databases — including *Yaws' Critical Property Data* for Chemical Engineers and Chemists, with 450,000 data records — in the Knovel Life Sciences collection, plus real-life engineering video training, *Perry's Handbook*, and more in McGraw-Hill's AccessEngineering collection.

ONLINE PUBLICATIONS

www.aiche.org/publications

Stay on top of the latest changes in chemical engineering industries with these online publications, free to student members.

© CEP Chemical Engineering Progress® www.aiche.org/cep

Want the latest information on chemical engineering developments and breakthroughs? *Chemical Engineering Progress* (in print and online) is packed with practical information, insight on technical issues, career advice and guidance that you can apply to current or future projects. Archived issues are available online dating back to 2001. And now you can read the current issue of *CEP* online or download feature articles as PDF files for your personal reference.

• AIChExchange

www.aiche.org/resources/newsletters

Make the most of your membership benefits with this essential guide to AIChE's upcoming events.

AIChE SmartBrief

www.aiche.org/smartbrief

Why slog through piles of journals to see what's happening in your field? You can get news at a glance — handpicked from hundreds of publications — in this weekly summary of stories and trends of special interest to members of the chemical engineering profession. Includes featured job postings for chemical engineers every week. Don't miss a single issue.

THE STUDENT POCKET HANDBOOK

www.aiche.org/studenthandbook

Put an expert in your pocket with this handy reference to technical facts and fundamental data and formulas. in a downloadable PDF format.

AICHE ACADEMY

www.aiche.org/academy

Advance your technical skills and knowledge as you transition from student to professional. At the AIChE Academy, you'll find the training and continuing education resources you need to support your professional development — all in one place.

Get to Know the ScaleUp Sponsors

ScaleUp sponsors do so much more than just sponsor your AIChE undergraduate student membership. They host tours and events. Offer internships. Recruit AIChE members. You're not likely to make industry contacts like these in a classroom. Make the connection to these ScaleUp sponsors and connect to global industry leaders from every field of chemical engineering.

PLATINUM SPONSOR

Chevron

www.chevron.com



Chevron Chevron is one of the world's leading integrated energy companies. Chevron produces and transports crude oil and natural gas; distributes transportation fuels and lubricants; manufactures petrochemical products; generates power and geothermal energy; invests in profitable renewable energy solutions; and develops the energy resources

of the future, including researching advanced biofuels.

GOLD SPONSORS

Air Products

www.airproducts.com



With 20,000 employees and operations in 50 countries, Air Products supplies the gas products, performance materials, equipment, and services needed to

create products that touch our lives every day — from running shoes to flat-screen TVs, bone scans to cleaner fuel for today's cars.

AspenTech

www.aspentech.com



The AspenTech University Program has been a cornerstone of commitment to the academic community

for more than 25 years. Currently, over 800 universities worldwide in undergraduate and graduate levels use the same AspenTech software as global industry leaders helping them gain the skills and expertise needed in the workforce. To learn more, please visit www.aspentech.com/industry solutions/universities/.

Corning

www.corning.com

CORNING Corning is one of the world's leading innovators in materials science. For more than 160 years, Corning has

applied its unparalleled expertise in specialty glass, ceramics, and optical physics to develop products that have created new industries and transformed people's lives.

Dow www.dow.com



Dow works to help address many of the world's most challenging problems, such as the need for clean water, clean energy generation and conservation, and increas-

ing agricultural productivity. Dow's industry-leading portfolio of specialty chemicals, advanced materials, agrosciences, and plastics businesses delivers a broad range of products and solutions to customers in approximately 180 countries and in sectors such as packaging, electronics, water, coatings and agriculture.

Honeywell UOP

www.uop.com



With more than 3,000 active patents and a century of experience using breakthrough chemistry and engineering to fuel global growth, Honeywell UOP provides solutions and products that help power our vehicles, homes, factories and offices; manufacture our clothing; purify our water; and provide lifesaving medical technologies.

Praxair

www.praxair.com



PRAXAIR One of the largest industrial gases companies worldwide, Praxair creates products, services and

technologies that make our planet more productive by bringing efficiency and environmental benefits to many industries, including aerospace, chemicals, food and beverage, electronics, energy, health care, manufacturing, and metals.

> To learn more about AIChE ScaleUp sponsors, visit www.aiche.org/scaleup.

Develop Your Chemical Engineering Network

Connect to people and resources that will help you thrive while you are in school and support your success when you are ready to launch your career. AIChE provides a depth and breadth of resources you're not likely to find anywhere else.

CONFERENCES

www.aiche.org/studentconferences

Are you ready for four days of career information, social events, competitions and fun? That's just what you'll find when you attend the AIChE Annual Student Conference (ASC). It's a great place to make new friends, explore academic, internship and job opportunities, and start building your chemical engineering network. The ACS has hosted more than 1,600 student attendees from more than 18 countries — as well as young professionals, AIChE leaders and industry professionals from numerous engineering specialties.

Take a break from your books and come celebrate the chemical engineering profession. Featured events include:

Career-Planning Workshops

Acquire practical information from AIChE professional members and skilled career coaches to help you plan your career path.

Student Chapter Workshops

Learn best practices for successful student chapter operations.

Exciting Competitions

From the Chem-E-Car Competition® to ChemE Jeopardy, there's always something happening here.

Welcome Brunch & Keynote Speech

Kick off the conference at this welcome brunch, as you network with student members, meet AIChE leaders and enjoy a keynote speech that is sure to get you thinking.

Student Conference Bash

Mix and mingle with peers and make new connections at this popular conference event, featuring music, dancing and more.

Recruitment Fair

Meet AIChE ScaleUp sponsors, graduate school representatives and corporate recruiters with open positions and internships.

Plus ... undergraduate students registered for the Annual Student Conference can also attend the professional AIChE Annual Meeting at no extra cost.



Can't make the AIChE Annual Student Conference?

No worries. With nine regional student conferences across the United States each spring, there's bound to be one near you. Build your network close to home with relationships that could take you far.

COMPETITIONS

www.aiche.org/studentcompetitions

If you're serious about some friendly competition, these events are always a highlight at both the Annual Student Conference and the regional student conferences. Are you up to the challenge?

Chem-E-Car Competition®

More than 30 student teams from around the world race their chemically powered vehicles at this always-popular competition. Join a team or cheer for your favorites. Teams compete at the regional conferences and winners from each regional conference, along with international teams, compete at the AIChE Annual Student Conference, where they could win up to \$2,000 — and an international title.



"Chem-E-Car has helped me develop strong management and leadership skills through leading a team of 40 students to build the championship car. All the while, we were committed to practicing the highest lab safety protocols and having lots of fun."

 Ali Sahmoud, Chem-E-Car Team Captain, McGill University



"This interdisciplinary design experience put my classroom experience into a more practical, applied context ... Participating in Chem-E-Car has been a tremendous part of my undergraduate experience, where I became a better communicator and developed lasting relationships with peers and faculty."

- Daniel Recalde, Chem-E-Car Team Captain, Cornell University

The AIChE Global Undergraduate Student Video Competition

Sharpen your focus on the world of chemical engineering. Student teams create 2- to 5-minute videos that explain chemical engineering to the general public and inspire high school students to consider a career in chemical engineering. The winner is announced at the AIChE Annual Student Conference in the fall.

Student Design Competition

Gain real-world experience as you tackle a practical assignment, created by chemical engineers, that typifies an authentic working situation that chemical engineers face. Winners present their work at the AlChE Annual Student Conference.

Student Paper Competition

Eager to share your research? The Student Paper Competition provides an excellent opportunity to present your technical paper and receive peer feedback. First-place winners from each of the nine regional competitions present their papers during the AIChE Annual Student Conference.

ChemE Jeopardy

www.aiche.org/chemejeopardy

How well do you know your coursework? The ChemE Jeopardy competition draws on standard chemical engineering subject matter to challenge and confound contestants from schools across the country. Games are held at each of the nine regional conferences in the spring. The winning teams from each regional conference go on to compete for the national championship title at the Annual Student Conference.

Poster Competition

www.aiche.org/postercompetition

With 320 posters and 100 judges last year, the Poster Competition is the largest forum for Chemical Engineering undergraduates to present their research activity to a professional community. All key areas of chemical engineering are covered, including: sustainability, catalysis and reaction engineering, computing and process control, environmental aspects of chemical engineering, food, pharmaceutical, bioengineering, fuels, petrochemicals, energy, materials and separations. Don't miss it.

CareerEngineer

www.aiche.org/careers

Planning ahead for your career? Smart move. You'll find internships and jobs at the only job board for chemical engineering undergraduates.

- Access internships and job openings with ScaleUp sponsors and other industry leaders
- Post your résumé online AIChE members are placed at the top of the list, so employers see your résumé first
- Use the Job Alerts feature to automatically receive emails when jobs come up that match your criteria
- Post your résumé anonymously you choose which employers may contact you

ChEnected BLOG & SOCIAL MEDIA

www.aiche.org/chenected

Created for and by young professional chemical engineers, ChEnected is a unique online community where you can read, contribute, and engage with everything ChemE. See what's trending, find mentors and gain exposure to hiring companies. "Blog on" and you could become a regular contributor.

Are you connected?





www.aiche.org/socialmedia

Meet fellow students and professionals on AIChE's Facebook and LinkedIn pages. You can build an online presence, connect with others, and find professional opportunities in the chemical engineering community. But wait, there's more...

AICHE ENGAGE — NEW

engage.aiche.org

Make it easy for people to find you with AIChE Engage — the new mobilefriendly community that connects AIChE members with each other and their chemical engineering communities. Filter your searches by specific criteria or within directories organized by member levels. Post photos and biographical information. Keep track of your member benefits in "My Stuff." Invite members to connect with you. In the next few months, there will be new capabilities that let you share knowledge, join communities, and search and apply for volunteer opportunities — from anywhere in the world. Visit the Engage webpage soon to see what's new.

LOCAL SECTIONS

www.aiche.org/localsections

Network with peers, young professionals and local industry engineers at regular meetings. Attend technical seminars, training courses, plant tours, networking events and roundtables on local issues. With nearly 100 local sections throughout the United States — and in Saudi Arabia, Egypt, Singapore and Canada — these grassroots groups make it easy to stay connected close to home

VIRTUAL LOCAL SECTION

www.aiche.org/virtual

And if you can't find a local section close to home, the Virtual Local Section isn't limited by geography. Visit the webpage to find out more.

DIVISION AND FORUM MEMBERSHIPS

www.aiche.org/divisionsforums

Enjoy free membership in up to two AIChE technical divisions or forums and connect with professionals who share your interests. Choose from 22 technical groups specializing in fields from environment to nuclear engineering to sustainability. AIChE divisions and forums are an excellent way to stay up to date on trends and further your career development. Which are right for you?

Divisions

Catalysis & Reaction Engineering*

Computing & Systems Technology

Education*

Environmental*

Food Pharmaceutical &

Bioengineering*

Forest Bioproducts*

Fuels & Petrochemicals*

Management

Materials Engineering & Sciences

Nuclear Engineering*

Process Development*

Safety & Health

Separations*

Transport & Energy Processes*

Forums

Chemical Engineering & the Law

Computational Molecular Science &

Engineering*

Nanoscale Science & Engineering*

North American Mixing*

Particle Technology*

Pharmaceutical Discovery, Development & Manufacturing

Sustainable Engineering*

Upstream Engineering &

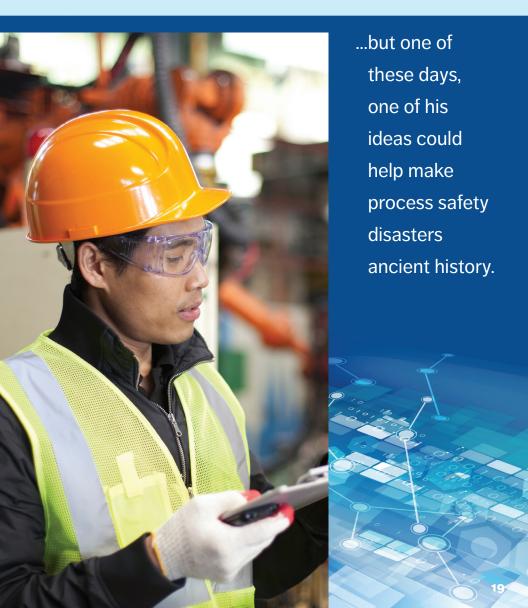
Flow Assurance*†

^{*} Includes free membership in AIChE's Center for Energy Initiatives (CEI).

[†] Not eligible for free membership. Students pay \$18 (USD).

He's not the only

chemical engineering student to participate in a process safety think tank...



INDUSTRY TECHNOLOGY GROUPS

www.aiche.org/technicalsocieties

AIChE Industry Technology Groups allow industry, academia and government representatives to collaborate and leverage resources for research, technology transfer and other activities.

Process Safety

Center for Chemical Process Safety (CCPS)

CCPS, a corporate membership organization, plays a vital role in advancing process safety excellence in our workplaces and communities. Member companies help make improving process safety a reality.

Safety and Chemical Engineering Education (SAChE)

Created by CCPS to increase process safety knowledge among chemical engineering graduates, SAChE provides curriculum materials and problem sets to undergraduate educators and professionals focusing on fundamental technical subjects for chemical engineers. These are available through the AIChE Academy.

Biological and Metabolic Engineering

International Metabolic Engineering Society (IMES)

Join with fellow researchers to promote and advance metabolic engineering as an enabling science for the bio-based production of materials, pharmaceuticals, food ingredients, chemicals and fuel.

Society for Biological Engineering (SBE)

Join leading engineers and scientists at the crossroads of biology and engineering as they work together to drive innovation in biological engineering, synthetic biology and bioprocessing for a wide range of applications for biopharmaceutical, biomedical and biomolecular advances.

Sustainability and Energy

Center for Energy Initiatives (CEI)

Interested in the design and development of energy solutions? CEI provides an invigorating platform for professionals who want to apply their best practices and leadership to impact the energy issues of the day.

Institute for Sustainability (IfS)

IfS serves the needs of engineers and scientists in all fields by providing a forum to share ideas, advocate policy change and influence research and development efforts. Get involved to help shape the future of sustainability and green engineering.

International Society for Water Solutions (ISWS)

Bring your passion and expertise to this global community of engineers and scientists working on research and technology that provides critical water solutions to the world.

Entrepreneurship and Innovation

Center for Innovation and Entrepreneuring Excellence (CIEE)

CIEE supports the professional development of chemical engineers and other scientists or engineers working with and in scientific, applied and professional entrepreneurship, innovation and creativity.



Scholarships and Awards

www.aiche.org/studentawards

Earning professional recognition and rewards for your accomplishments is a big deal. As an AIChE student member, you can enrich your résumé with AIChE scholarships and awards valued at more than \$50,000 (USD), if you qualify.

AIChE scholarships and awards recognize academic accomplishments, student chapter achievements, innovation, and diversity. And they're available exclusively to AIChE student members and chapters. In addition to the recognition, the extra financial support you'll receive will help cover essential expenses like books and tuition.

INTERNATIONAL STUDENT CHAPTER LEADERSHIP DEVELOPMENT GRANT

www.aiche.org/internationalstudenttravelgrant

Developing international undergraduate student chapters is one of the cornerstone initiatives in AlChE's plan to increase its global presence, recruit international members and serve the profession as it is practiced throughout the world. The International Student Chapter Leadership Development Travel Grant, sponsored by the AlChE Foundation, funded travel for eight international students to attend the Annual Student Conference in the United States in 2015. Here's what one travel grant recipient had to say:



"This one-week experience opened my eyes about chemical engineering more than anything I could learn from my classes alone. Having a small department at my home university, it was very fun and exciting to be with over one thousand students from around the world who shared my passion and excitement about the profession."

 Yörükcan Erbay, International Student Chapter Leadership Development Grant Recipient & Annual Student Conference Attendee

Exclusive Member Savings

www.aiche.org/memberservices

From exclusive member savings at your favorite stores to car rentals, hotels and cruises, your AIChE student membership comes with loads of valuable extras that make your downtime more enjoyable.

Big project coming up?

UPS Discounts

www.aiche.org/ups

Receive substantial discounts on overnight shipping with UPS.

Plus save 10% on copying, binding, laminating, packaging — everything you need to make your project look great.

Office Depot

www.aiche.org/office-depot



Save up to 80% on preferred products. More than 93,000 products are discounted. What do you need today?



Is there a road trip in your future?

Car Rentals

www.aiche.org/carrentaldiscounts



You'll save between 5% and 15% with your AIChE membership every time you rent a car from Avis or Hertz.

Shopping around for a good deal?

Azigo Online Shopping Mall

www.aiche.org/azigo



Earn cash back at popular stores — including Kohl's, Target, Nordstrom, Barnes & Noble, Sephora, and more — at this popular online shopping mall.

Planning a vacation?

Travel Benefits

www.aiche.org/travelbenefits



You can also save on cruises from Royal Caribbean, Norwegian Cruise Lines, Celebrity Cruises, Carnival, Princess Cruises, Holland America and more with your AIChE membership. Spring break, anyone?

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Join AIChE® as a Young Professional and save on membership for the first three years after graduation.

With an AIChE Young Professional membership, you'll have access to a wide range of benefits and services to help you launch your career, make lifelong connections and enhance your professional development. Now that you've graduated, take advantage of special Young Professional rates and save on membership until 2020. See how your savings add up:

Annual Membership	Dues
Immediately after graduation	\$50 (end of 2016-2017)
1 year after graduation	\$100 (2018)
2 years after graduation	\$150 (2019)
3 years after graduation	\$199* (2020)

^{*} Annual professional membership dues

To activate your Young Professional membership, please contact the AIChE Customer Service team at **customerservice@aiche.org** or call 800.242.4363 (toll free) in the U.S. Or visit **www.aiche.org/phone** (outside the U.S.) for your country's number.

www.aiche.org/youngprofessionals

American Institute of Chemical Engineers

PO Box 4429, Danbury, CT 06813-4429 Customer Service: 1.800.242.4363 www.aiche.org/phone (Outside U.S. Toll-Free Numbers) studentchapters@aiche.org www.aiche.org

