



*virtu*AIChE®

This month's meeting:

*Primary (with live discussion/live chat) Wednesday, Feb 23 at 9 pm ET (US) / 1 am GMT
Alternate 1 (with live discussion/live chat) Thursday, Feb 24 at 7 am ET (US) / 11 am GMT
Alternate 2 (with live discussion/live chat) Thursday, Feb 24 at 1 pm ET (US) / 5 pm GMT*

Student Co-op and Internship Presentation Competition

hosted by Noah Meeks

AIChE's Virtual Local Section is sponsoring the 2022 Student Co-op and Internship Presentation Competition at our February meeting. Top undergraduate student co-ops and interns will discuss their exciting work at this special Virtual Local Section event. The four finalists were chosen from among a pool of student competition applicants. Each finalist will have up to 10 minutes to present the results of their summer or co-op project and answer questions from our live audience. Members of the Virtual Local Section leadership will serve as judges. Dr. Noah Meeks, the host for the competition, will announce the winners shortly after the final presentation is completed and the judges have submitted their evaluations. Prizes will be awarded: \$500 1st place • \$300 2nd place • \$250 each for 2 Finalist Awards!

***Note that registration for VLS meetings is required.
Our meetings are still free to attend and open to all.***

February Meeting Registration Information

Primary
(Live Presentation/Live Chat)
Feb 23 at 9 PM EST / 1 AM GMT
Register in advance for the
[Primary Meeting](#)





Alternate 1
(Recorded Presentation/Live Chat)
Feb 24 at 7 AM EST / 10 AM GMT
Register in advance for the
[Alternate 1 Meeting](#)

Alternate 2
(Recorded Presentation/Live Chat)
Feb 24 at 1 PM EST / 5 PM GMT
Register in advance for the
[Alternate 2 Meeting](#)

After registering, you will receive a confirmation email containing instructions for joining the meeting, along with add-to-calendar links.



Student Co-op and Internship Competition Presenters

<p>Name: Rifat</p> <p>University: Shahjalal University Of Science And Technology, Sylhet Sadar, Sylhet, Bangladesh</p>  <p>Project title: Enhancement of bioethanol yield from sugarcane molasses in Carew and Co.(Bangladesh) Ltd.</p> <p>Summary of project: Improvement of bioethanol yield from sugarcane molasses in pilot scale.</p> <p>https://www.linkedin.com/in/rifat-27a0a91bb</p> <p>Mentor's name: Dr. Abu Yousuf</p> <p>Mentor's university: Shahjalal University Of Science And Technology, Sylhet Sadar, Sylhet, Bangladesh</p>	<p>Name: Kenna</p> <p>University: Georgia Institute of Technology, Atlanta, Georgia, United States of America</p>  <p>Project Title: Antifoam Pump Stroke DCS Integration</p> <p>Summary: "The process, from identification of an area of improvement to presentation of a final project package with price estimate, loops, P&IDs, wiring diagrams, and DCS tags, of automating a delayed coker unit's antifoam system."</p> <p>http://www.linkedin.com/in/kennaval</p> <p>Mentor's name: Jenna Lamb</p> <p>Mentor's company: Valero Energy Corporation</p>
<p>Name: Hannah</p> <p>University: Ohio State, Columbus, Ohio, United States</p>  <p>Project title: Food Science Engineering Internship</p> <p>Project summary: I spent a summer with Post Consumer Brands learning about the consumer goods industry and completed two projects during my 12-week internship.</p> <p>https://www.linkedin.com/in/hannahliu42</p> <p>Mentor: Julie Kindelshire, Ph.D.</p> <p>Mentor's Company: Post Consumer Brands</p>	<p>Name: Tomás</p> <p>University: Instituto Tecnológico de Buenos Aires, Argentina</p>  <p>Project title: Process optimization with advanced control technologies</p> <p>Project Summary: The project consisted of a challenging Advanced Process Control application development on a high-demand distillation column, making use of both general refinery process knowledge and process safety considerations which, with the aid of quality infernentials, concluded in a 3% performance improvement</p> <p>https://www.linkedin.com/in/tomas-barboni/</p> <p>Mentor: David Chang</p> <p>Mentor's Company: Raízen Argentina S.A.</p>

U. S. National Engineers Week – February 20-26, 2022

Each year more than 70 United States engineering, education, and cultural societies, and more than 50 corporations and government agencies celebrate being an engineer during week of George Washington's birthday. In 2020, the week of February 20 – 26 had been declared "National Engineers Week" (Eweek) in the United States. Ireland (<http://www.engineersweek.ie/>) will celebrate Eweek the week of March 5 – March 11, 2022. Canada will honor engineers and engineering during the entire month of March (<https://nem-mng.ca/>). The website, <http://www.wfeo.org/engineersdays/>, tracks Eweek celebrations around world.

The goal of National Engineers Week (Eweek) is to promote engineering and the positive contributions engineers make to our lives especially at local schools and to the public. Depending on your location, events range from hosting competitions such Mathcounts, Future City, Robotics, Odyssey of the Mid, and Science and Engineering Fairs to honoring the top engineers, agencies and employers at banquets and dinners.

During my 40 plus years in the engineering field, I have judged science fair projects, introduced elementary, junior high and high schools students to environmental and chemical engineering, and organized award banquets to honor outstanding engineers and engineering projects.

My favorite event has been the "Introduce a Girl to Engineering" day. Using the process of baking cookies, I explain how engineers create the process, equipment and instructions to make millions of cookies each year. Even the safety department joins in by conducting a safety briefing on how to prevent burns, spills and fires when baking cookies at home. At the end of the day, most of the attendees including the chaperones and teachers understand engineering is more than building roads or power plants.

Another program that fits with being a virtual section is the Future City Completion. Even though I live about 250 miles (400 kilometers) from the nearest competition site, I can be a remote judge of the written presentations. For the 2021 Future City Competition, I reviewed 10 entries from the 6th -8th Grade level online using the guidance documents and scoring rubrics to record my scores. Some of the entries showed a true appreciation of the technical challenges to solving the problems a future city would face. Visit <http://discovere.org/our-programs/future-city> for more information on how to become a judge for the Future City Competition.

For information on the events in your location, check some of the websites listed below or contact your local engineering societies, school districts and private schools and governmental agencies for more information.

www.aiche-metrony.org/Engineers/Week.html

www.facebook.com/EngineersWeek

www.futurecity.org

www.discovere.org/ur-programs/girl-day

<https://msachieves.mdek12.org/2020-national-engineers-week-nasa>

www.carnegiesciencecenter.org/calendar/event-details/?eventID=2187

<https://www.ashrae.org/government-affairs/grassroots-advocacy/national-engineers-week-eweek>
www.engineeringfamilyday.org
www.dvewc.org/about
<https://www.sandiegoengineers.org/>
<https://www.army.mil/article/120306>
<http://www.wichitaengineers.net/>
www.wfeo.org/engineersdays (International Dates and host organizations)
Australia: <https://www.facebook.com/EngineersAustralia>
Canada: <http://www.nem-mng.ca/>
India: <https://www.ieindia.org/en>
Ireland: www.engineersweek.ie

AICHe News

The AICHe hosts technical conferences around the world. Check www.iche.org/conferences for registration and presentation information for this year's events.

Dates	Event
Feb 23	RAPID Technology Showcase Featuring Artisan Industries
Mar 1 - 2	14 th AICHe Midwest Regional Conference
Mar 3	CCPS India Regional Members Virtual Meeting
Mar 10	AI Showcase: No-code AI for Predicting Product Impurities
Mar 20	2022 Indonesia Student Regional Conference
Mar 23	Engineering for Bankability
Mar 24	Detect and Prevent Costly Spills with Double Contained Piping Systems
Mar 30	Environmental Justice Implications for PSM and RMP Programs

Upcoming VLS Meetings

The VLS has monthly meetings. The following meetings have firm dates and speakers.

Dates	Topic
Mar 2022	Converting CO ₂ into useful products?? What's up with that??
Apr 2022	Process Safety
May 2022	Looking Beyond Engineering Perspective

Past VLS Meetings

The VLS records its monthly meetings and archives them on the AIChE Academy website in case you missed a meeting or are looking for a particular topic. See below for current recordings.

Date	Event
Aug 2021	How can nuclear energy help fight climate change?
Jul 2021	Automation of Process Simulation and Data Analytics with MATLAB
Jun 2021	Chemical Fuels in Carbon Neutral Energy system
Apr 2021	Impactful Online Meetings
Feb 2021	Overcoming the Challenge of Applying Chemical Engineering Principles to the Art of Winemaking
Jan 2021	DIERS Technology Fundamentals II: VLS January 2021 Webinar
Nov 2020	Protecting Lives and Livelihood: Hazardous Materials Classification and its Impact to the Supply Chain
Oct 2020	Chemical Safety Board (CSB) Accidental Release Reporting Rule
Sep 2020	Internships and Undergraduate Education
Aug 2020	Physical Property Models to Design Better Chemical Products
Jul 2020	Julia - A Fresh Approach to Technical Computing
Jun 2020	The Next Digital Leap to AI (An Interactive Webinar)
May 2020	Challenges and Benefits of Remote Operator Training using Cloud-Deployed High-Fidelity, First-Principles Based Standard Operator Training Simulators (SOTS)
Apr 2020	NASEM Chemical Engineering in the 21st Century Study: Give your input!
Mar 2020	Is Your Focus Your Magic!
Feb 2020	DIERS data/standards in HAZOPS of two phase flow
Jan 2020	A Brief History of Measurement
Nov 2019	Using Thermal Imaging to Guard Industrial Facilities
Oct 2019	Python for chemical engineers: Getting started
Aug 2019	Reactive Chemical Hazards
Jul 2019	Should I Py or Should I Fortran?
Jun 2019	Design Considerations for Organic Electronic Materials and Devices
May 2019	Why Can't You Compete Without Virtual/Augmented Reality in Your Plant
Apr 2019	The Chemistry of Bourbon: The "spirit" of molecules
Mar 2019	Demystifying Professional Engineering Licensure and How to Put it to Work for you
Feb 2019	Municipal Wastewater and Sludge Are a Resource, Not a Waste: Coping with Tightening Water Supplies and Limited Landfill Availability

We're in this Together

The ongoing COVID-19 situation has provided us with a reminder that even in uncertain times, AIChE is a diverse community of people who lead, create, inspire and learn—together. AIChE is here to help. Knowing that many of our members are working virtually, AIChE has created this page to act as a hub for online content, access to communities, and communication updates. [Learn more.](#)

The Virtual Local Section's Executive Committee

Officers

Chair:	Steve Treese
Senior Vice Chair:	Mario Arredondo
Vice Chair:	Hashim Al Hajji
Immediate Past Chair:	Paul Adamson
Secretary:	Laura Gimpelson
Treasurer:	Jennifer Brand

Directors

Director 1	Fred Fischl
Director 2	Kirsten Rosselot
Director 3	Shannon Brown
Director 4	Andrew Riederer
Director 5	Paul Wissmann
Director 6	Marc Clithero

Did You Know?

You can visit [the VLS website](#) for more information on the Virtual Local Section's mission, activities, and membership. Also at this website, AIChE student members and VLS members can watch previous webinars for free.

Subscription Information

Current fully paid members of the Virtual Local Section receive this newsletter. If you wish to update your email address, contact the AIChE's New York Office for Permanent Address Corrections at xpress@aiche.org or 1-800-242-4363.

Continuing Education Credits

Members of AIChE can receive 1 hour of continuing education/professional development credit for attending Virtual Local Section webinars. Send your name, the certificate number on your professional engineer's license, and the licensing entity (state or country) in which you are licensed to our Secretary, lg_environmental@bellsouth.net, to receive one hour of continuing education credit for attending this meeting.