



*virtu*AIChE®

This month's meeting:

*Primary (with live discussion/live chat) Wednesday, October 25 at 9 pm ET (US) / 1 am GMT
Alternate 1 (with live discussion/live chat) Thursday, October 26 at 7 am ET (US) / 11 am GMT
Alternate 2 (with live discussion/live chat) Thursday, October 26 at 1 pm ET (US) / 5 pm GMT*

Student Co-op and Internship Presentation Competition

hosted by Marc Clithero

AIChE's Virtual Local Section is sponsoring the 2023 Student Co-op and Internship Presentation Competition at our October 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. Marc Clithero, the host for the competition, will announce the winners after the Alternate 2 meeting and the judges have submitted their evaluations. Prizes will be awarded: \$500 1st place • \$300 2nd place • \$200 3rd place(s)!





All VLS meetings are free to attend and open to all, but registration is required.

October Meeting Registration Information

Primary	Alternate 1	Alternate 2
(Live Presentation/Live Chat)	(Recorded Presentation/Live Chat)	(Recorded Presentation/Live Chat)
October 25 at 9 PM ET (US)/ 1 AM GMT	October 26 at 7 AM ET (US) / 11 AM GMT	October 26 at 1 PM ET (US) / 5 PM GMT
Register in advance for the Primary Meeting	Register in advance for the Alternate 1 Meeting	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: Poh</p> <p>University: Universiti Teknologi PETRONAS, Seri Iskandar, Perak, Malaysia</p> <p>Project title: Dosing Optimization of BOE for Wet Etching Process</p> <p>Project summary: Optimizing dosing frequency of buffered oxide etch (BOE) used for solar wafer etching by applying knowledge about process engineering, statistical process control and data analytics.</p> <p>https://www.linkedin.com/in/poh-ching-hong/</p> <p>Mentor's name: Efreliie Watt</p> <p>Mentor's university: Maxeon Solar Technologies</p>		<p>Name: Alex</p> <p>University: Oregon State University</p> <p>Project title: Gas Monitoring System</p> <p>Project summary: I developed and implemented a remote monitoring system for gas cylinders that feed tools inside the wafer fab. The monitoring system is equipped with many safety mechanisms, data upload for live viewing of cylinder pressure, and the ability to shut down tools in case of low gas delivery pressure. My project was constructed using PLCs coded with ladder logic, HMI screens, and I/O modules.</p> <p>https://www.linkedin.com/in/alex-moga-5b308a207</p> <p>Mentor's name: Lars Kempainen</p> <p>Mentor's company: Analog Devices</p>	
<p>Name: Sara Ahmad</p> <p>University: Brigham Young University</p> <p>Project title: Efficiency through CIP System Optimization and Profitable Recycling Initiatives</p> <p>Project summary: I optimized a non-dairy CIP wash system, saving 1500 gallons and 600 minutes weekly. I also used Seeq and SCADA for data analysis and initiated a recycling program with potential \$320,000/year savings</p> <p>Mentor: Josh Lynard</p> <p>Mentor's company: Chobani</p>		<p>Name: Jyotisman Rath</p> <p>University: Institute of Chemical Technology IOC Bhubaneswar, Odisha, India</p> <p>Project title: Engineering of metal foils (Ni) using laser ablation (ULPING) for catalytic hydrogen production</p> <p>Project summary: Moving away from conventional approaches for materials synthesis, the objective of this study was to establish the use of pulsed laser in the synthesis of nanostructured materials for efficient hydrogen production.</p> <p>https://www.linkedin.com/in/jrath2001</p> <p>Mentor: Dr. Amirkianoosh Kiani</p> <p>Mentor's university: Ontario Tech University, Oshawa Ontario, Canada</p>	

VLS Membership Survey

VLS sent out our membership annual survey on October 15 so please check your email.

We do need your feedback to build on what is working well within VLS and also where we can improve.

VLS Elections

Elections are coming! Elections are coming! Look for the ballot in your email and please vote as we look to the coming year to staff up our Executive Committee.

AIChE News

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

Dates	Event
Oct 22-24	2023 AfroBiotech Conference
Oct 24-25	2023 Global Conference on Process Safety and Big Data
Oct 24-25	2023 Diversity and Equity Accelerator through Learning for Startups
Oct 24-26	2023 OTC Brazil
Nov 5-10	2023 AIChE Annual Meeting
Nov 8-9	November 2023 TSC Meeting
Nov 15-17	2 nd Cell Free Systems Conference
Nov 15-17	5 th Battery and Energy Storage Conference
Nov 27-29	7 th CCPS Global Summit on Process Safety
Nov 27-30	ChemE Show

Upcoming VLS Meetings

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

Dates	Topic
Oct 25-26	Student Competition
Nov 15-16	The Zap Energy Approach to Commercial Fusion
Dec 13-14	Holiday Social
Jan 24-25	Proposed Process Safety Management Changes
Feb 28-29	PFAS Regulations and Water Providers

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. To view a recording as a VLS member, click on the link to go to the recording. Checkout and use the “Purchase with Money” option. The cost should show as \$0.00. Purchase the recording.

Date	Event
Sep 2023	Language is the Future of Chemistry
Aug 2023	How to Commercialize Innovative Ideas
Jul 2023	Creating a Sustainable Lifecycle for Chemical Manufacturing Plants
Jun 2023	LA100 Roadmap: LA's Path to 100% Carbon Free Energy by 2035
May 2023	Higher Goals, Lower Emissions: Recharging the Chemical Industry [only until Nov. 2023]
Apr 2023	Engineering Ethics: Challenges for Innovation and Society
Mar 2023	Alternatives to Toxic Substances
Feb 2023	Introduction to an Atmospheric Radiation Model
Jan 2023	Applied Thermodynamics for CO2 Capture
Nov 2022	Modeling and Digital Twins for Process Development
Oct 2022	Decarbonization of Chemical Manufacturing by CO2 Electrolysis
Sep 2022	Anaerobic Digestion: Sustainability through Organic Waste Management
Aug 2022	Boost Green and Sustainable Chemical Development with AI
Jul 2022	The TurboPy Approach to Learning Python
Jun 2022	Automation Cybersecurity: Connectivity's Double-Edged Sword
May 2022	Evaluating our Assumptions: The Need for Diverse Perspectives
Apr 2022	Lessons on Incident Investigations
Mar 2022	Converting CO₂ into useful products?? What's up with that??
Feb 2022	2022 Student Co-Op and Internship Competition hosted by Noah Meeks
Jan 2022	Biomimicry: Green Chemistry Innovations Inspired by Nature
Nov 2021	Reimagining Energy and the Case for Greening Companies
Oct 2021	Don't Wake Sleeping Dragons: Managing Often-Overlooked Ignition Hazards
earlier meetings	https://www.aiche.org/node/140121/redux-events

The Virtual Local Section's Executive Committee

Officers

Chair:	Fred Fischl
Senior Vice Chair:	Charlie Brown
Vice Chair Pro Tem:	Arokiaraj Alphones
Immediate Past Chair:	Steve Treese
Secretary:	Laura Gimpelson
Treasurer:	Jacob Matthews

Directors

Member Care	Andrew Riederer
Programming	Kirsten Rosselot
Newsletter	Shannon Brown
Member Feedback	Dhananjay Ghonasgi
Publicity/Website	Paul Adamson
Student Competition	Marc Clithero

Contact info for VLS leadership:

<https://www.aiche.org/community/sites/local-sections/virtual-local-section/leadership>

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@aiiche.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, Laura Gimpelson (at lg_environmental@bellsouth.net), to receive one hour of continuing education credit for attending this meeting.