

ASEE Chemical Engineering Division Newsletter

Editors: Lorena Grundy, Tufts University and Monika Crowl, University of Connecticut

A Message from the Chair:



Reginald Rogers
University of Missouri

In this issue...

Chair's Message

Page 1

Award Recipients & Call for Nominations

Pages 2-5

Call for Papers

Pages 6-8

Community Announcements

Pages 9-10 – send any announcements you'd like included in future newsletters to ChED.ASEE.newsletter@gmail.com

Greetings to everyone! I hope the start of the new academic year is going well for all of you. It has been a busy time for all of us and for the ASEE Chemical Engineering Division since our last newsletter. It was great to see many of you in Baltimore for the ASEE Annual Meeting back in June. We had a huge success with our 2023 meeting. A huge thank you to Janie Brennan who served as our Program Chair. Additional thank you goes out to Neha Raikar for her hard work in serving as our local events coordinator.

It was also a time to recognize our peers for their outstanding work, and to continue that recognition please take note of all of the award winners highlighted in this newsletter. Thanks to the Awards Committee for coordinating all of the judging! Please take note that the nomination period for 2024 is opening soon, so be thinking about who you work with that should be recognized next year. Please especially consider nominating individuals for the Donald R. Woods Lectureship for Lifetime Achievement in Chemical Engineering Pedagogy. Additional information on all of the ChED Awards can be found on the division website.

Even as the Fall term continues to cruise by us all, there is yet more to come! Planning is underway for the 2024 ASEE Annual Meeting in Portland, OR. The Call for Papers will be issued in the coming weeks. Submissions will soon be accepted for the program. Please take a few minutes to review the Call featured in this issue and consider what you can share with the community at the June 2024 meeting.

Finally, I want to thank Elif Eda Miskioğlu for her dedicated work of producing this newsletter. Since 2017, Elif has worked hard to ensure our members had the most up-to-date information on the business of the division. After 6 years in the role, she has transitioned the role to our new newsletter co-editors. I would like to take this opportunity to welcome Monika Crowl and Lorena Grundy to the team. They will be working together to continue publishing the newsletter, picking up where Elif left off in her role. We are planning to continue the format of a monthly email newsletter featuring the same items but becoming more current with announcements.

In the meantime, enjoy this newsletter. If you'd like to offer your perspective on the continuance of the newsletter or to volunteer to take on a more active role in the ChED, drop me an email at rerogers@missouri.edu. In the meantime, I look forward to hopefully seeing many of you in person in Orlando in early November at the AIChE Annual Meeting!

Reginald Rogers

2023 ASEE Chemical Engineering Division Award Recipients

William H. Corcoran Award

*Sponsored by the ASEE
Chemical Engineering Division*

*This award is presented to the
author of the most outstanding
article published in Chemical
Engineering Education.*

*“AIChE Virtual Communities of
Practice - Supporting Faculty
During the COVID-19 Pandemic”*

Paper:

<https://doi.org/10.18260/2-1-370.660-125282>



row 1: Matthew Liberatore, Daniel Lepek, Laura Ford, Tracy Carter, Jennifer Pascal

row 2: Monica Lamm, Christi Patton Luks, David Silverstein, Ashlee Ford Versypt, Stephanie Butler Velegol

row 3: Troy Vogel, Neha Raikar, Matt Kipper, Christy Wheeler West

Ray W. Fahien Award

This award is given in honor of Ray Fahien, who was editor of Chemical Engineering Education from 1967-1995, and who was effectively the founding father of the journal, establishing it as a premier publication vehicle in the field of chemical engineering education. This award is given to an educator who has shown evidence of vision and contribution to chemical engineering education within their first 10 years as faculty.



Daniel Anastasio
Associate Professor of Chemical Engineering
Rose-Hulman Institute of Technology

2023 ASEE Chemical Engineering Division Award Recipients

Joseph J. Martin Award

Recognizes the most outstanding Chemical Engineering Division paper presented at the ASEE Annual Conference (sponsored by Gamry Instruments)

*“Redesigning to Foster Community in an Online Introductory Chemical Engineering Course”
(ASEE 2022)*

Paper: <https://peer.asee.org/41889>



Christopher Chen
Senior Assistant Director of Graduate Student Programs and Services at the Center for Teaching and Learning and an Adjunct Assistant Professor of Chemical Engineering
Columbia University

Best Poster Award

Recognizes the most outstanding Chemical Engineering Division poster presented at the ASEE Annual Conference

*“Can the COVID-19 pandemic boost collaborative online international learning (COIL) in engineering education? - A review for potential implementations”
(ASEE 2022)*

Paper: <https://peer.asee.org/41654>



Erick Vasquez
Associate Professor
Department of Chemical and Materials Engineering
University of Dayton



Erick Ramos
Department of Processes Engineering and Environmental Sciences
Universidad Centroamericana “José Simeón Cañas” (UCA), El Salvador

2023 ASEE Chemical Engineering Division Award Recipients

2023 ASEE Annual Conference Best Diversity, Equity, and Inclusion (DEI) Paper Award

The ASEE Best Diversity, Equity, and Inclusion Paper Award strives to enhance the visibility and sustainment of actions supporting diversity and engineering and engineering technology.

“Designing and Implementing a Workshop on the Intersection between Social Justice and Engineering”
(ASEE 2023)

Paper: <https://peer.asee.org/42969>



row 1: Kavi Chintam, Dr. Alex Prybutok, Willa Brenneis, Dr. Jonathan Chan,
row 2: Joie Green, Ruihan Li, Meagan Olsen, Sapna Ramesh,
row 3: Dr. Carolyn Ramirez, Dhanvi Vemulapalli, and Dr. Jennifer Cole

2023 ASEE ChED Award Recipients

To be formally recognized at the 2024 conference banquet

Joseph J. Martin Award

“Teaching Fugacity through Comics and Assessing the Impact on Student Confidence and Understanding” (ASEE 2023)

Paper: <https://peer.asee.org/44418>



Luke Landherr

Best Poster Award

“A Laboratory Platform for Learning Chemical Engineering” (ASEE 2023)

Paper: <https://peer.asee.org/42897>



Benjamin Phillips



Anne Spence



Alexandre Yokochi

Inspired to nominate a colleague for an award? Check out the details for nominations on the next page!

Nominations for Division Awards

Email completed packet to awards co-chairs Margot Vigeant (mvigeant@bucknell.edu) and Ashlee Ford-Versypt (asleefv@buffalo.edu) and the most complete version of each award description, criteria, and nomination materials please see: <http://ched.asee.org/awards/>

Awards with a nomination deadline of November 15:

ChE Division Young Faculty / Future Faculty Mentoring and Travel Grant

All chemical engineering or chemistry faculty within their first two years of teaching, or graduate students in chemical engineering or a related field and intending to go into teaching as a career are eligible. The honorarium amount is intended to subsidize travel to the conference, and will include a ticket to the ChE Division Banquet. A condition of the grant is that the winner attends the meeting and presents their paper.

Awards with a nomination deadline of January 15:

The Thomas and Donna Edgar CACHE Award for Excellence in Chemical Engineering Education

This award, sponsored by the CACHE Corporation, is presented for significant contributions in the development of computer aids for chemical engineering education.

Ray W. Fahien Award

This award is given in honor of Ray Fahien, who was editor of Chemical Engineering Education from 1967-1995, and who was effectively the founding father of the journal, establishing it as a premier publication vehicle in the field of chemical engineering education. The award is given annually to an educator who has shown evidence of vision and contribution to chemical engineering education. Educators who have been faculty members for not more than ten years as of July 1st in the year of the award are eligible.

The Donald R. Woods Lectureship Award for Lifetime Achievement in Chemical Engineering Pedagogy

This award is presented to a distinguished engineering educator to recognize and to encourage outstanding achievement. This award will normally be given for lifetime achievement, recognizing a sustained career of contributions to pedagogical practice, scholarship, and mentoring that not only caused innovative and substantial changes, but also inspired other educators to new behaviors that benefit students in Chemical Engineering. The recipient will be obligated to present a lecture at the ASEE annual conference or ASEE Chemical Engineering Summer School.

Award with a nomination deadline of February 1:

ChE Division "Engineering Education" Mentoring Grant

All chemical engineering or chemistry faculty who have not attended an ASEE Annual Conference in the past five years are eligible for this grant. The grant will be a ticket to the ChE Division Banquet. The grant winner(s) will be provided with a ChE Division mentor (an individual determined by the ASEE CHED executive committee) who will meet with the grant winner for both formal and informal interactions during the meeting.

Non-nominated Awards include:

- Gamry Instruments Sponsored Joseph J. Martin Best Paper Award in the ASEE Chemical Engineering Division
- Best Poster Award
- William H. Corcoran Award for the best paper in Chemical Engineering Education.

2024 ASEE Annual Meeting June 23 - 26, Portland OR

The Chemical Engineering Division (ChED) of ASEE invites papers for the 2024 Annual Conference and Exposition in Portland, OR (June 23 – 26, 2024). While all topics of Chemical Engineering education will be considered, papers on the following general topics are strongly encouraged:

- | | |
|--|---|
| • Diversity, Equity, Inclusion, and Justice initiatives in ChE programs | • ChE faculty professional development |
| • Supporting ChE student wellness (e.g., mental health, belonging, etc.) | • Learning outcomes, assessment, and accreditation of ChE programs |
| • Teaching across the three pillars of sustainability: social, environmental, and economic | • Non-traditional experiences such as experiential, inquiry-based, and immersive learning |
| • Incorporating safety and regulatory compliance in ChE curricula | • Bring-your-own-experiment/demos in ChE (hands-on, online, and virtual) |
| • Teaching ChE in the era of AI | • Contemporary perspectives in ChE education |
| • Professional skills in ChE - critical thinking, creativity, communication, collaboration | • Works-in-progress for discussion or feedback |

In addition, suggestions/proposals for panel discussions, workshops, and cross divisional sessions are welcome. We will consider all ideas submitted for workshop proposals and select the most appropriate to be presented during the Sunday workshop sessions.

Deadlines: (As a note, ASEE has emphasized that there will be NO deadline extensions this year)

Abstract Submission Opens: **Sunday, October 1, 2023**

Abstract Submission Closes: **Wednesday, November 1, 2023**

Notification on Acceptance/Rejection of Abstracts: **Friday, December 1, 2023**

See author guidelines on next page

2024 ASEE Annual Meeting June 23 - 26, Portland OR

Author Guidelines:

Please note that both abstract and draft paper reviews are **double blind**, so do not include personal or institutional identification.

Abstracts: Submitted abstracts should be approximately one page or less in length, with a suggestion of 250-500 words (See **Appendix B** of the Author Kit for details).

Paper Submissions: Full paper submissions should be approximately 10-20 pages in length, inclusive of figures and other graphical elements (See **Appendix B** of the Author Kit for details).

Please limit Work-in-Progress papers to 3-5 pages (see below).

ASEE Author Kit: Please make sure to follow the abstract and paper submission guidelines, available at:

<https://www.asee.org/events/Conferences-and-Meetings/2023-Annual-Conference-Highlights/Poster-Management/2023-Authors>

(Note: This is the 2023 document. Please look for an updated version to be released soon.)

Work-in-Progress: Papers describing ongoing work (“work-in-progress”) are welcome in all sessions, including the poster session. **Please title your WiP Papers in the format of “Work-in-Progress: Title of your project” in addition to indicating it is WiP in the abstract submission portal.** This will help us easily identify these submissions. The Works-in-Progress oral sessions will include shorter presentations with time allotted to meet and exchange ideas with session attendees.

Poster Presentations: Poster papers can be in any topic related to chemical engineering education including the list above, including works-in-progress. **If you would like to submit a paper to the poster session directly, please clearly designate this request at the end of your abstract.** Please note that poster papers also go through ASEE’s double-blind review process.

Conference paper submission is a two-step process, detailed in the diagram on the next page:

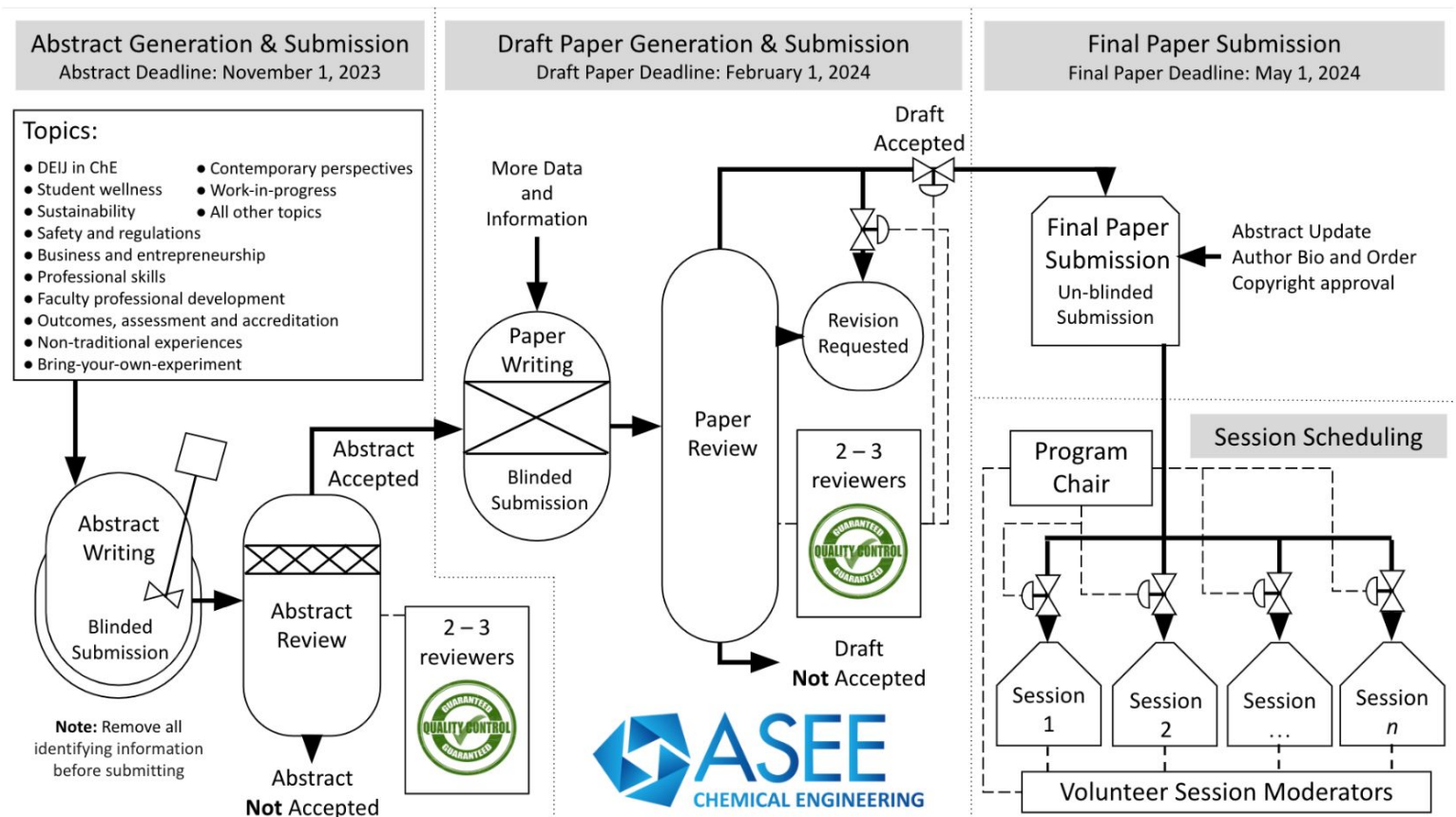
1. Abstract submission, review, and acceptance, followed by
2. Paper submission, review, and acceptance.

As stated above reviews are double-blind, **please do not include the names of authors, institutions, or other identifying information anywhere in the abstract, draft paper, or file names.** At the end of your abstract, please state if you would particularly like your paper to be in a regular session or a poster session. Abstracts will be reviewed, and if accepted, authors are invited to complete full papers for further review. The ChED is a “publish-to-present” division: to present at the conference, you must have your paper accepted for publication and have at least one author participate in the peer review.

For questions regarding paper submission and review, and also suggestions for panels, workshops, or other non-traditional sessions or interdivisional sessions, please contact the 2024 ASEE ChED Program Chair, Sarah Wilson, at s.wilson@uky.edu

2024 ASEE Annual Meeting June 23 - 26, Portland OR

Diagram of Paper Submission Process:



Special thanks to Chris Barr (University of Michigan) for drafting this diagram!



Community Announcements

1. **Tenure-Track Position in Engineering, Elizabethtown College**

Elizabethtown College is seeking an innovative and engaging faculty member to support our growing programs and increasingly diverse student body. We invite applicants for a tenure-track Assistant Professor of Engineering position to begin in August 2024. We are seeking a candidate who has a multidisciplinary background and can teach a variety of courses across thermal-fluid sciences, mechanics, introductory and capstone design, and potentially chemical engineering. The ideal candidate is passionate about undergraduate teaching, embraces innovative and evidenced-based pedagogies, mentors undergraduate students in published research, and contributes to an environment that fosters diversity, collegiality, and teamwork. Review will begin on October 1, 2023 and continue until filled. Questions can be directed to Dr. Sara Atwood, Dean of the School of Engineering and Computer Science, atwoods@etown.edu. Additional details at: <https://etown.peopleadmin.com/postings/5372>.

2. **Tenured or Tenure-Track Engineering Education Faculty Position in Chemical and Biomolecular Engineering and Systems Engineering**

The Robert F. Smith School of Chemical and Biomolecular Engineering (CBE) and Systems Engineering Program (SYSEN) at Cornell University, Ithaca, New York invites applications for a tenured or tenure-track engineering education research faculty position (assistant, associate, or full professor) in chemical and biomolecular engineering, who will have a joint teaching and service role in CBE and SYSEN and a tenure home in CBE. Please see the job listing here: <https://academicjobsonline.org/ajo/jobs/25702> and contact Allison Godwin (afg64@cornell.edu) for additional information.

3. **Chemical Engineering Education Feedback Survey**

We are seeking feedback on how the journal, *Chemical Engineering Education* (CEE) can best serve the needs of the engineering education research and teaching community. If you currently engage with the journal in any form or might engage with the journal at some point in the future, we would like to hear from you! You can provide feedback via a short survey:

https://cornell.ca1.qualtrics.com/jfe/form/SV_2na5tdUN9D3nPcW

For questions, please contact Allison Godwin at afg64@cornell.edu.

Please send future announcements to ChED.ASEE.newsletter@gmail.com by the end of the first week of each month to be included in that month's newsletter.

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Announcements from the AIChE Education Division

1. AIChE Education Division Dinner/Awards Banquet

The Education Division Dinner / Awards Banquet will be held on Tuesday, November 7th from 6:30 – 9:00 PM at Mia's Italian Kitchen.

Tickets for the event will be **\$85.00** and can be purchased through AIChE with your conference registration.

2. AIChE Teaching Focused Faculty (TFF) Meetings

AIChE TFF (Teaching Focused Faculty) will continue to meet this fall. Please email Stephanie Velegol at sbv1@psu.edu if you would like to join this virtual community! We meet on zoom here:

<https://psu.zoom.us/my/svelegol>

Upcoming meetings: September 20, 2:30 pm EST; October 17, 2 pm EST; December 4, 1:30 pm EST

3. AIChE Education Division survey

The survey topic for the AIChE Education Division is electives. Please have one person in your department familiar with elective course offerings and curriculum requirements complete the survey at https://utulsa.az1.qualtrics.com/jfe/form/SV_bvzcxlExA7FDOzc before Monday, October 16. A fillable version of the survey is available at

https://drive.google.com/file/d/1RDNyk48KcRRHJCjHfT6_MVMbu46-b6U/_view?usp=sharing for you to view before starting the Qualtrics version.

Thank you for your contributions to this survey over the state of chemical engineering electives.

Committee members: Janie Brennan, Heather Chenette, Jennifer Cole, Kevin D. Dahm, David L. Silverstein, and Stephen W. Thiels

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Summer School: Lisa Bullard