

# ASEE Chemical Engineering Division Newsletter

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## A Message from the Chair:



**David Silverstein**  
University of Kentucky

### In this issue...

#### Chair's Message

Page 1

#### Award Recipients & Call for Nominations

Pages 2-4

#### Call for Papers

Pages 5 - 7

#### Community Announcements

Page 8 – send any announcements you'd like included in future newsletters to [elif.miskioglu@bucknell.edu](mailto:elif.miskioglu@bucknell.edu)

Midterm Greetings to everyone! It has been a busy time for all of us and for the ASEE Chemical Engineering Division since our last newsletter. In the interim, we've enjoyed our first face-to-face ASEE Annual Meeting in several years; the quinquennial Chemical Engineering Summer School for Faculty (ChESS); and a fall term that I hope continues the journey back to a term with close interaction with our peers and our students.

Our 2022 Meeting in Minneapolis was a tremendous success with much to be learned from friends old and new. Thanks to Jackie Berger for her hard work in planning the meeting and to all of our presenters for luring us in with knowledge in order to also gain from the personal connections made during the meeting.

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 2023 is opening soon, so be thinking about who you work with that should be recognized next year.

The 2023 ChESSS was another memorable event as we gathered a couple of hundred faculty members and some prospective ones to share a community with a shared passion for effective and inclusive instruction. New ideas, new relationships, and a sense of community were built thanks to the hard work of ChESS planning committee, led by Margot Vigeant, and the host institution and coordinators at the Colorado School of Mines.

Even as the Fall term continues to rush by us all, there is yet more to come! Planning is underway for the 2023 ASEE Annual Meeting in Baltimore, and the Call for Papers has been issued. Submissions are currently being 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 2023 meeting.

Finally, I want to thank Elif Eda Miskioğlu for her continuing work of producing this newsletter. It has been continually published in some form since 1998, but has transitioned from a printed newsletter to a mix of print and electronic distribution to all electronic distribution. We are considering changing the format to a monthly email newsletter featuring the same items but becoming more current with announcements. Your officers will be discussing the topic and then determine whether the Spring 2023 issue featuring the Annual Meeting Program and our Officer Elections will be this newsletter's Final Edition.

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 [david.silverstein@uky.edu](mailto:david.silverstein@uky.edu). In the meantime, I look forward to seeing many of you in Phoenix later this month!

David Silverstein

# 2022 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.*

*“A Sociocultural Learning  
Framework for Inclusive  
Pedagogy in Engineering”*

Paper: <https://doi.org/10.18260/2-1-370.660-128660>



Stephanie Farrell  
Rowan University



Allison Godwin  
Purdue University



Donna M. Riley  
Purdue University

## Joseph J. Martin Award

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

*“Organizational Citizenship Behavior  
and Care in Chemical Engineering”*

Paper: <https://peer.asee.org/37551>



Top Row: Kristen Ferris, Pil Kang, Madalyn Wilson-Fetrow, Vanessa Svihla, Eva Chi

Bottom Row: Jamie Gomez, Yan Chen, Susannah C. Davis, Sang M. Han, Abhaya K. Datye

# 2022 ASEE Chemical Engineering Division Award Recipients



Rafiqul Gani  
CEO  
PSE for SPEED

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

*Sponsored by the CACHE Corporation*

*This award, 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. 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.



Sarah Wilson  
Assistant Professor of Chemical Engr.  
University of Kentucky

# **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](mailto:mvigeant@bucknell.edu) and Ashlee Ford-Versypt [asleefv@buffalo.edu](mailto:asleefv@buffalo.edu) and for the most complete version of each award description, criteria, and nomination materials please see: <http://ched.asee.org/awards/> and <http://ched.asee.org/awards/nomination-information/>

## **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 amount of the honorarium, 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 (newly with honorarium, with much thanks to our sponsor!)
- Best Poster Award
- William H. Corcoran Award for the best paper in Chemical Engineering Education.

## 2023 ASEE Annual Meeting June 25 - 28, Minneapolis, MN

The Chemical Engineering Division (ChED) of ASEE invites papers for the 2023 Annual Conference and Exposition in Baltimore, MD (June 25 – 28, 2023). While all topics of Chemical Engineering education will be considered, papers on the following general topics are strongly encouraged:

- **Early impacts of the 2022 Chemical Engineering Summer School**
- **Diversity and Inclusion initiatives on all fronts –(race, gender, etc.) in chemical engineering programs.**
- **Teaching chemical engineering solutions to address ABET outcomes 2 & 4: global, societal, environmental, and economic contexts**
- **Incorporating safety and regulatory compliance in chemical engineering curricula.**
- **Non-traditional learning experiences such as experiential, inquiry-based, problem-based, and immersive learning in chemical engineering.**
- **Bring-your-own-experiment/demo in chemical engineering (hands-on, online, and virtual).**
- **Works-in-progress you would like to discuss or solicit for feedback**
- Learning outcomes, assessment, and accreditation of chemical engineering programs.
- Contemporary perspectives (or new advances) in chemical engineering education.
- How are we helping our students with mental health issues – everything from recognition to resources and strategies.
- Teaching professional skills in chemical engineering courses - critical thinking, creativity, communication, and collaboration skills.
- Business and entrepreneurship literacy in chemical engineering.
- All other topics related to chemical engineering education.

In addition, suggestions/proposals for panel discussions, workshops, and cross divisional sessions are welcome. During the brainstorming, there was a strong desire to have a ChED workshop after a short hiatus. We will consider all ideas submitted for workshop proposals and select the most appropriate to be presented during the Sunday/Wednesday workshop sessions.

### **Deadlines:**

Abstract Submission Closes: **Monday, November 7, 2022**

Notification on Acceptance/Rejection of Abstracts: **Monday, November 21, 2022**

# See author guidelines on next page

## 2023 ASEE Annual Meeting June 25 - 28, Baltimore MD

### **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/documents/conferences/annual/2021/2021-Authors-Kit.pdf>

**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:**

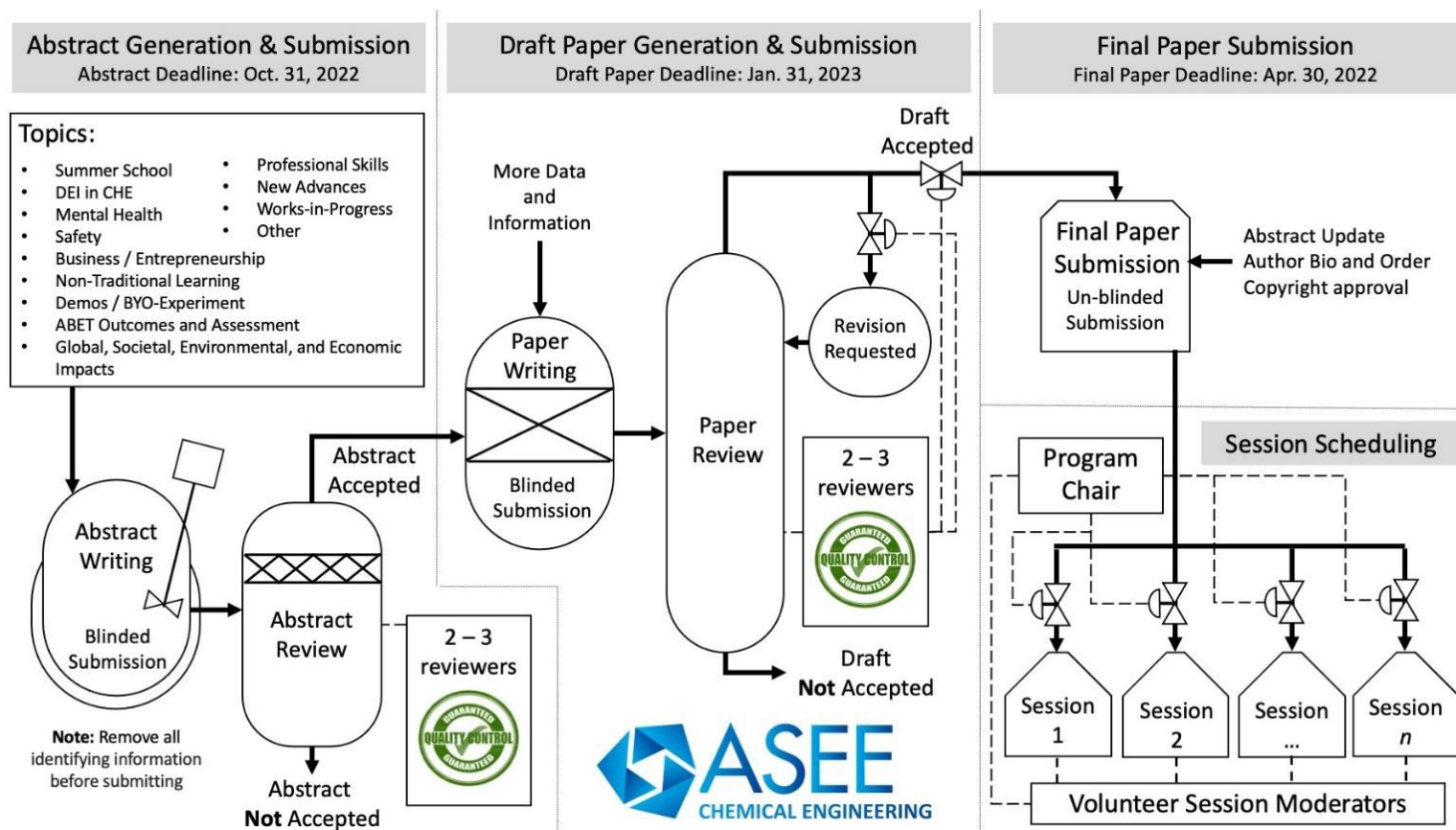
1. Abstract submission, review, and acceptance, followed by
2. Paper submission, review, and acceptance.

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 2023 ASEE ChED Program Chair, Janie Brennan, at [jbrennan@wustl.edu](mailto:jbrennan@wustl.edu).

## 2023 ASEE Annual Meeting June 25 - 28, Baltimore MD

### Diagram of Paper Submission Process:



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



# Community Announcements

## Session for Prospective Graduate Students

On behalf of the New York University (NYU) Chemical and Biomolecular Engineering (CBE) graduate recruiting committee, we invite you to a [Virtual Open House](#) on **Saturday, November 5, from 3:00 to 4:30 PM EST**. Join us to learn more about research and graduate life in our department from current students, alumni, and faculty!

It has never been a more exciting time to be a part of our community. NYU, the largest private research university in the US, is a dynamic place to pursue your graduate studies. At the NYU Tandon School of Engineering, we are part of the major tech renaissance occurring in New York City -- the 2nd fastest growing technology center in the country. In our department, we're home to several startups making waves in [sustainable manufacturing](#) and <https://engineering.nyu.edu/news/powerbridgeny-powers> **Invention, innovation, and entrepreneurship are in our DNA.**

Our [CBE Department](#) is undergoing major growth and rejuvenation, having hired seven new senior and junior faculty members in the last five years and approximately six to be added in the next four years with research interests spanning **energy, bioengineering, and materials science and sustainable chemical engineering**. Our entire department is undergoing complete renovation with new labs. Our degrees prepare graduate students with necessary skills to make positive contributions in academia, industry, consulting, finance, law, and medicine, among other fields.

We are currently accepting applications for **Fall 2023** for the following [graduate programs](#):

- [PhD](#) in Chemical Engineering
- M.S. in Chemical Engineering
- M.S. in Biotechnology
- M.S. in Biotechnology and Entrepreneurship

**[RSVP](#) and join us on Saturday to learn more. *All attendees will receive an application fee waiver for Fall 2023. Applications are due on December 1, 2022.***

Additional information can be found in our [department brochure and website](#). If you have any follow up questions, please feel free to contact our Graduate Recruiting Committee ([cbe-gradadmission@nyu.edu](mailto:cbe-gradadmission@nyu.edu)).

Best Regards,

New York University, Tandon School of Engineering  
**Department of Chemical and Biomolecular Engineering**

**Degrees:** Chemical Engineering-PhD; Chemical Engineering-MS, Biotechnology-MS, Biotechnology and Entrepreneurship-MS

**Website:** <https://engineering.nyu.edu/academics/departments/chemical-and-biomolecular-engineering/degrees-and-programs>

**Email:** [cbe-gradadmission@nyu.edu](mailto:cbe-gradadmission@nyu.edu)

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