

Spring 2021 CASTing

CAST 2020 Division Awards



For the first time, the CAST Awards Banquet was virtual. It was held on November 24th, 2020 and was attended by more than 125 members. Dr. Mahmood El-Halwagi

gave a great talk as the recipient of the Computing and Chemical Engineering Award.

Other awards that were recognized were:

- [Dr. Kamil A Khan and Dr. Blake Rawlings: 2020 CAST W. David Smith Jr. Graduate Publication Award](#)
- [Dr. John D. Siirola: 2020 CAST Computing Practice Award](#)
- [Dr. Daniel Rivera: 2020 CAST David Himmelblau Award for Innovations in Computer-Based Chemical Engineering Education](#)
- [Dr. Ruth Misener, 2020 CAST Outstanding Young Researcher Award](#)

The recording of Virtual CAST Awards Banquet is available online:

<https://youtu.be/2A5nmWJfmNw>

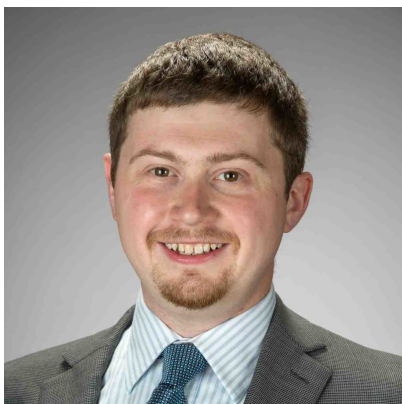
CAST 2020 Presentation and Poster Awards

- The 2020 CAST Directors ♦ Student Presentation Award winner is **Sungho Shin** from Professor Victor Zavala ♦s group at UW-Madison. His talk was about: ♦Overlapping Schwarz: A New Decomposition Paradigm for Large-Scale Optimization ♦.

- The 2020 CAST Directors Award for outstanding poster winners are: **Burcu Beykal** from Texas A&M (poster: Data-driven optimization of integrated planning and scheduling problems under demand uncertainty, co-authors: S Avraamidou, EN Pistikopoulos) and **Kevin Silmore** from MIT (poster: Minimum-Energy Shapes of Open Fluid Membranes with Boundaries, co-authors: James W. Swan).
- The 2020 Undergraduate poster awards for the Computing and Process Control Section at the AIChE Annual Student Conference winners are: **Stephen Quiton** from University of Southern California on "A Matrix Completion Algorithm to Recover Modes Orthogonal to the Minimum Energy Reaction Path" and **Maya Desai** from Rowan University on "Development of Wastewater Treatment Networks Using the P-Graph Approach".

Read the full article [here](#)

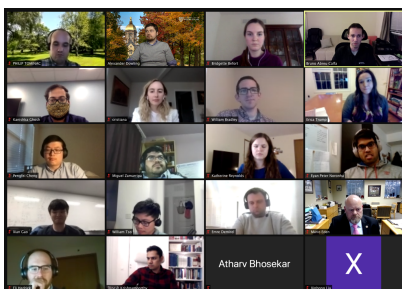
CAST-AIChE Young Professionals News



New Leadership: Alexander Dowling (Assistant Professor, Notre Dame) has been selected as the new academic Liaison for the CAST-AIChE Young Professionals community. He joins Onur Onel (ExxonMobil, Industrial Liaison) and together they have lots of exciting ideas and plans for the YP community. Current plans for Summer 2021 include a career-focused virtual event (email with details will follow)

and hopefully an in-person social event at the Annual AIChE meeting in Fall 2021.

2020 Annual AIChE Meeting Social: The YP social was also held online on



November 17th, 2020 and attended by more than 40 CAST YPs. The CAST-YP committee (Alexander Dowling, Onur Onel and Fani Boukouvala) organized an event where students got to interact with early career and senior professors, as well as industrial professionals to

talk about the the job market and career advice. The group also played a fun abstract-writing game that led to awards for the funniest and most likely to appear in 2021 CAST AIChE Abstracts:

Funniest: *"On how to organize a virtual AIChE Annual Meeting using machine*

learning quantum techniques amid a COVID-19 crisis"

Most Likely to appear in 2021: *"Process intensification using quantum computing and machine learning under uncertainty"*

For more information about the AIChE-YP community, please visit [this link](#)

For more information about CAST and how to become a member, please visit [our website](#).

Join our social media pages: [Facebook](#), Twitter: @AICHECAST10 or [linkedin](#).

Elected Positions

The following 2023 **Programming Coordinators** have been elected by the CAST community:



Area 10A: Selen Cremaschi

Area 10B: Ali Mesbah

Area 10C: Faruque Hasan

Area 10D: Kamil Khan

Area 10E: Salvador Garcia Muñoz

The full article with the elected coordinators' biosketches can be found [here](#)

The following **Executive committee members** were also elected for the following positions:

- 2021 Second Vice Chair: [Matt Bassett](#)
- 2021-2023 Director: [Fani Boukouvala](#)
- 2021-2023 Director: [Chrysanthos Gounaris](#)



Highlighting diversity in the CAST community

Black, Latinx/Hispanics, Native American/Indigenous in PSE: Victor Zavala, Martha Grover, and Tunde Ogunnaike started a public-facing "Black, Latinx/Hispanics, Native American/Indigenous in PSE" list.

You can find the list of current members [here](#) (this is a non-editable document).

If you would like to sign up on the list or submit the name of a trainee or colleague, use [this form](#).

Process Systems Engineering Webinars

Visit <https://apmonitor.com/wiki/index.php/Main/ApplicationWebinars> to find many informative webinars on topics including modeling, control, optimization, data-science & machine learning, and more. Recent entries include talks from CAST Award winners. You can also find a link for future speaker nominations.

Find Out More about CAST

