Welcome to the Education Division Business Meeting

Wednesday, November 18th 2020
2:30 PM Eastern Time
“Education of chemical engineers as it pertains to educational research, scholarly teaching, and broader endeavors encompassing education, such as the Division’s programming.”
Today’s Objectives:

Disseminate news and information about Education Division

Create open discussion about our offerings and what we can do to help our community of educators
EdDiv Org Chart 2020

Division Board of Directors (9 total members)

Executive Committee (5 members)
Chair  1st Vice Chair  2nd Vice Chair
Secretary/Treasurer  Past Chair

Director1  Director2  Director3  Director4
Institute Liaison

Committees (7)
Survey + Webinars + Future Faculty + Membership +
Communication + Nominating + Awards
Our Board of Volunteers

Executive Committee 2020-2021
Ben Davis, Chair
Daniel Lepek, 1st Vice-Chair
Christy Wheeler West, 2nd Vice Chair
Matt Liberatore, Past Chair
Katie Cadwell, Secretary-Treasurer

Board Members
Priscilla Hill, Director, 2018-2021
Shannon Ciston, Director, 2019-2021
Dan Burkey, Director, 2020-2023
Jennifer Cole, Director 2020-2023
Gina Gatto, Institute Liaison (AIChE Staff)

We hold elections for new leadership every 2 years (next election in 2021 - contact past chair)

Directors now serve for 4 years. Chairs make an 8 year commitment!
Announcements of interest to Ed Div members

Division business
Faculty position postings
Calls for participation - surveys, studies

Submit announcements to Katie Cadwell (kdcadwel@syr.edu)

Submission deadline: Around the end of each month
Finances in good shape

Fund balance in March:

<table>
<thead>
<tr>
<th>Year</th>
<th>Balance</th>
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<tbody>
<tr>
<td>2020</td>
<td>$14,800</td>
</tr>
<tr>
<td>2019</td>
<td>$14,200</td>
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<tr>
<td>2018</td>
<td>$10,600</td>
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<tr>
<td>2017</td>
<td>$10,400</td>
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Revenue sources:
Dues, banquet fees, award sponsorship, interest

Expenses:
Banquet (net neutral), Awards/plaques, Domain registration fee, Communication, Mentor/mentee food

Katie Cadwell: kdcadwel@syr.edu
Thank you to our ~50 session chairs and moderators!

Please come to our programming meeting tomorrow:

Thursday 2:30 PM Eastern Time

Great sessions remain for the rest of the week!
### 2020 EDUCATION DIVISION PROGRAM

***Times listed below are in Pacific Standard Time (PST)!***

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>8:00-9:00</td>
<td><strong>Poster Session: Chemical Engineering Education</strong></td>
<td><strong>Free Forum on Engineering Education: First Year and Sophomore Year</strong></td>
<td><strong>Free Forum on Engineering Education: Junior and Senior Years</strong></td>
<td><strong>Free Forum on Eng. Ed: Topics by Popular Request!</strong></td>
<td><strong>Supporting Faculty, Staff and Students - Helping Others Achieve Success</strong></td>
</tr>
<tr>
<td>8:00-9:00</td>
<td><strong>Poster Session: Meet the Faculty Candidates</strong></td>
<td><strong>New Approaches to Active Learning and Student Engagement</strong></td>
<td><strong>Computing and Data Science in CHE Education: In Honor of Fred Justice’s Contributions to the Education Division</strong></td>
<td><strong>Professional and Personal Skills for Chemical Engineering Students and Academic Professionals</strong></td>
<td><strong>Survey Results and Best Practices (Invited Talks)</strong></td>
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<tr>
<td>8:00-9:00</td>
<td><strong>Incorporating Sustainability and Social Responsibility Topics in CHE Courses and Curriculum</strong></td>
<td><strong>Unit Operations: Experiments, Labs, Demos, and Hands-On Activities</strong></td>
<td><strong>Evaluating Chemical Engineers in a Virtual World: Reflections on the Spring 2020 Semester</strong></td>
<td><strong>Best Practices in Teaching Design (Steal this Design Project)</strong></td>
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<td>8:00-9:00</td>
<td><strong>Workshop: Career Planning for Prospective Faculty</strong></td>
<td><strong>NSF Workshop I: Highlights from CBET</strong></td>
<td><strong>NSF Workshop II: Proposal Writing and Discussions with Program Managers</strong></td>
<td><strong>Educating Chemical Engineers in a Virtual World: Reflections on the Spring 2020 Semester “Town Hall Discussion” - Live Breakout Session</strong></td>
<td><strong>Survey Results and Best Practices (Invited Talks) - Live Breakout Discussion</strong></td>
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<td>9:00-10:00</td>
<td><strong>BREAK</strong></td>
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<td>10:30-11:30</td>
<td><strong>Workshop: Career Planning for Prospective Faculty - Live Breakout Session</strong></td>
<td><strong>NSF Workshop I - Part II: Interactive Question and Answer Session with NSF Program Directors - Live Breakout Session</strong></td>
<td><strong>NSF Workshop II - Part II: Interactive Breakout Panels - Live Breakout Session</strong></td>
<td><strong>AIChE Education Division Programming Meeting (Ancillary)</strong></td>
<td><strong>Lunch with the AIChE Education Division Board (Ancillary)</strong></td>
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<tr>
<td>11:30-12:30</td>
<td><strong>ABET Updates and Insights (Invited Talks) - Live Breakout Session</strong></td>
<td><strong>AIChE Education Division Business Meeting (Ancillary)</strong></td>
<td><strong>Lectures</strong></td>
<td><strong>Lectures</strong></td>
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<tr>
<td>12:30-13:30</td>
<td><strong>Lectures</strong></td>
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<td>13:30-14</td>
<td><strong>BREAK</strong></td>
<td><strong>BREAK</strong></td>
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<td><strong>BREAK</strong></td>
<td><strong>BREAK</strong></td>
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<tr>
<td>14:15-15:15</td>
<td><strong>Workshop: Effective Teaching for New or Prospective Faculty</strong></td>
<td><strong>Workshop: Student Mental Health and Wellness</strong></td>
<td><strong>Workshop: Inclusive Pedagogy</strong></td>
<td><strong>Young Faculty Forum (Invited Talks)</strong></td>
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<td>15:16-16</td>
<td><strong>Future Faculty Mentoring Meeting (by Invitation only) (Ancillary)</strong></td>
<td><strong>ASEE/AIChE Summer School Meetup/Trivia Night (Ancillary)</strong></td>
<td><strong>AIChE Education Division Awards Dinner (Ancillary)</strong></td>
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Looking ahead to 2021

2021 Spring Meeting & 17th Global Congress on Process Safety April 18-21, 2021 in Dallas, TX
No Ed Div programming

2021 Annual Meeting
November 7-12 in Boston, MA
If interested in chairing a session, contact: Daniel.Lepek@cooper.edu

Programming meeting is tomorrow / Thursday
Question for the Group

Since we all love active participation here!

Please give your answer to the following question in the chat:

What are you still hoarding in quarantine?
Communications Committee

Accomplishments

- Increased social media presence
- Engage with audience
- Created marketing materials
  - Workshops
  - Awards and recognitions
  - Conference programming

28 day summary with change over previous period

<table>
<thead>
<tr>
<th>Metric</th>
<th>Previous</th>
<th>Current</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tweets</td>
<td></td>
<td>20</td>
<td>15.3%</td>
</tr>
<tr>
<td>Tweet impressions</td>
<td></td>
<td>13.4K</td>
<td>7.8%</td>
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<tr>
<td>Profile visits</td>
<td></td>
<td>111</td>
<td>27.6%</td>
</tr>
<tr>
<td>Mentions</td>
<td></td>
<td>26</td>
<td>8.3%</td>
</tr>
<tr>
<td>Followers</td>
<td></td>
<td>316</td>
<td>38</td>
</tr>
</tbody>
</table>

Next steps

- Evaluate website rehab
- Create monthly thematic post for AIChE Engage (e.g., CoP topics)
- Recruit 1-2 volunteer

Sindia M. Rivera-Jiménez

Follow us!

@aicheeddiv

https://www.linkedin.com/company/aiche-education-division
Membership (as of October 2020)

Growing membership since last year!

About 370 professional members

Priscilla Hill
Course Survey Committee

2020-21 Survey = Kinetics and Reactor Design (81 programs responding)
Presentation Friday morning 8 - 9 PST

Breakout discussion session Friday 9 - 10 PST
https://aiche.zoom.us/j/95218502882?pwd=STRBcE10MHdxOGw3eFJlajJaOFgzdz09

2021-22 Survey Topics: Material and Energy Balances
Continue looping through the previous topics

Janie Brennan, Jennifer Cole, Kevin Dahm, Laura Ford (chair), Marnie Jamieson, Lucas Landherr, David Silverstein, Steve Thiel, Christy Wheeler-West
Future Faculty Mentoring Program

Mentees: Advertised to the Meet the Faculty Candidate pool, Department Heads List-serve, Social Media.

   35 applicants (30 last yr); 14 female applicants (8 last yr)

Mentors: Advertised to Ed Div, Dept. Chairs, Women’s Initiatives Committee, past mentor/mentees, and Twitter (including retweets by AIChE and WIC)

   9 Female Mentors/Junior Mentors (11 last year)

2020-2021 Cohort: 19 Mentees (down from 21), 17 mentors, 12 junior mentors; Next year - more matching questions; diversity

Dan Burkey
Future Faculty Mentoring Program

*Gap Year in 2016-2017

1st Year 2:1 Mentee:Mentor Ratio

Mentor Recruiting & Diversity Push
Education Division Webinars

15 completed to date

  Live attendance 5-125/session

  300+ views total of archived webinars

11 Archived at aiche.org/academy

  More coming soon!

Always free for Ed Div members

Looking for volunteers!

Contact sciston@lbl.gov

Shannon Ciston, Daniel Lepek, Sindia Rivera-Jimenez
Webinars on Academy: FREE!

Education Division Webinar: Concept Warehouse
Archived Webinar Jan 24, 2017
Many engineering educators and industry partners emphasize the need for students to apply their knowledge to new and challenging problems. A lack of conceptual understanding has been shown to severely restrict students’ ability to solve new problems since they do not have the foundational...

EMPOWER: A Bottom-Up Approach to Cultivate a Climate of Inclusivity
Fatima Alleyne and Lisa Pruitt
September 16, 2020

Effective Practices for Teaching Chemical Engineering Undergraduates Online
Sarah Wilson and David Silverstein
March 20, 2020

ABET Accreditation: Recent Updates and Insights
Randy Lewis
September 28, 2020

www.aiche.org/academy Check EDU under source on left menu
Congrats to our 2020 Award Winners!

Award for Innovation in Chemical Engineering Education
Dan Burkey

Award for Service to Chemical Engineering Education
Stephanie Farrell

Committee: Monica Lamm, Don Visco, Matt Liberatore, Christy Wheeler West
Activity: Award Nominees?

Award for Excellence in Engineering Education Research

Award for Innovation in Chemical Engineering Education

Award for Service to Chemical Engineering Education

Please take 2 minutes and brainstorm suggestions for nominees
Two Great Sponsors in 2020

Education Division Award for Service to Chemical Engineering Education

Chemstations™

Education Division Award for Innovation in Chemical Engineering Education

zyBooks
A Wiley Brand
Please Join Us for the Education Division Awards Event this evening!
Education Division Awards Event

Wednesday, November 18th 2020
7:00 PM Eastern Time

EdDiv

Education Division
An AIChE Community
Welcome to Our Virtual Banquet!

If you have complaints about the food, service, or drink selection, please E-mail:

whenwillquarantinebeover@yahoo.com
Thank you to our Sponsors!

Education Division Award for Service to Chemical Engineering Education sponsored by:

Chemstations™

Education Division Award for Innovation in Chemical Engineering Education sponsored by:

zyBooks
A Wiley Brand
Stephanie Farrell
Interim Dean and Professor/Founding Chair of the Experiential Engineering Education Department in the Henry M. Rowan College at Rowan University
ASEE President 2018-19
2020 Service Award Winner

Award for Service to Chemical Engineering Education

Stephanie Farrell

“Dr. Farrell has provided extensive service to engineering professional societies, delivered numerous educational workshops, and been a champion for diversity and inclusion in engineering education.”
2020 Innovation Award Winner

Daniel Burkey
Associate Dean for Undergraduate Education and Diversity, Professor in Residence in Chemical & Biomolecular Engineering at The University of Connecticut
AIChe EdDiv Director 2017-2023
The Award for Innovation in Chemical Engineering Education

Daniel Burkey

“For novel contributions to chemical engineering laboratory, design, engineering ethics, and first-year engineering instruction using game-based and narrative approaches.”
Time for Fun and Games

More than BS...BSS

A little bit **B**ingo

A little bit **S**cavenger hunt

A little bit **S**peed dating
Rules for this EdDiv game of BSS

~10 minutes in breakout rooms with small group

Repeat ~3 times

Each person/name can appear only once

Prizes: Free 1 year EdDiv membership to winner(s)
Most squares, most bingos