

# ASEE AMERICAN SOCIETY FOR ENGINEERING EDUCATION

## CHEMICAL ENGINEERING DIVISION

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Business Meeting Minutes  
Wednesday, June 29, 2016 – 10:45 AM – 12:15 PM  
New Orleans Convention Center, Room 241, New Orleans, LA

### Attendees and Affiliations

Julie Albert	Tulane University
Daniel Anastasio	Rose-Hulman
Taryn Bayles	University of Pittsburgh
Cheryl Bodnar	Rowan
Janie Brennan	Washington University in St. Louis
Lisa Bullard	North Carolina State
Daniel Burkey	Connecticut
Anthony Butterfield	Utah
Shannon Ciston	UC Berkley
Matthew Cooper	North Carolina State
Kevin Dahm	Rowan
Jennifer Duis	Northern Arizona University
Michael Elsass	Dayton
Joshua Enszer	University of Delaware
Arthur Felse	Northwestern
Laura Ford	Tulsa
Richard Gilbert	South Florida
Kevin Hadley	South Dakota School of Mines and Technology
Elizabeth Hill	Duluth
Jason Keith	Mississippi State
Patricia Kieran	University College Dublin
Daniel Lepek	Cooper Union
Matt Liberatore	University of Toledo
Christi Patton Luks	Missouri S & T
Michel Perrier	Polytechnique Montreal
Polly Piergiovanni	Lafayette College
Timothy Raymond	Bucknell
Jim Riggs	Texas Tech
Joe Shaeiwitz	Auburn
David Silverstein	Kentucky
David Tomasko	Ohio State University
Bernard Van Wie	Washington State
Margot Vigeant	Bucknell
Troy Vogel (via phone)	Illinois at Urbana-Champaign
Jason White	UC Davis

1. Greetings and Introductions (Christi Luks)
  - a. Introductions (as above in the Attendees and Affiliations)
  - b. Promotions, new positions and passing of members:
    - 1) New Position: Paul Golter – Lecturer at Ohio University
2. Minutes from the last Business Meeting (June 17, 2015 in Seattle, WA) were approved as submitted.
3. Ongoing Business
  - a. Election results (Anthony Butterfield) – Troy Vogel will be the chair-elect and Matt Cooper will be the new Director
  - b. Finances (Cheryl Bodnar) – a financial report is attached as Appendix 1. It was mentioned that the BASS account funds come from donations and membership fees so it is important that we take in more than the banquet and awards cost over time to be sustainable.
  - c. Membership (Christi Luks for Anju Gupta) – We have 519 total members. We are currently the 4<sup>th</sup> largest of all the technical divisions but our membership has decreased by 40 over the last year alone. In general, ASEE membership as a whole is down with the majority of this loss due to financial reasons.
4. Updates
  - a. Report from Program Chair (Arthur Felse) – 45 abstracts were submitted with 33 final papers. Papers that were withdrawn from the conference were mostly withdrawn for financial reasons. We had 1 panel discussion, the Chemstations Lectureship, 1 poster session, and 5 podium sessions. 5 Diversity papers were submitted and one of these was nominated for best diversity paper overall. 124 reviewers volunteered this year and weren't able to use all of them. Based on analysis performed the translation rate between abstracts to paper was 74% this year whereas in the past it has been only 64%. Division was involved in co-sponsoring multiple sessions and the panel was co-sponsored by ERM.
  - b. Report on Awards (Bernie Van Wie) – Bernie recognized the work of his co-chair, Joe Menicucci for his significant effort in getting committees together and bringing on co-chairs to figure out how to share responsibilities. The awardees are given in the brochure attached as Appendix 2. The Division gave 7 awards this past year but didn't give the Lifetime Achievement Award. Fahien Award had a lot of really high quality applicants. Lifetime Achievement Award had no complete applications. The decision of the executive committee to combine the Future Faculty (\$500) and Mentoring Award (\$500) into a Future Faculty Mentor Award (\$900 total) to provide better opportunities for awardees to attend the annual conference was discussed. The award could be given to a graduate student or 1st or 2nd year faculty member. In regards to award funding, there are two sponsors pending - Armfield and Exxon Mobil. A proposal was also just provided to U.S. Didatic about potential award sponsorship. If anyone has corporate contacts that they think might want to sponsor an award then they can reach out to Bernie VanWie.

- c. PIC I Updates (Adrienne Minnerick) – Finances are in good shape and ASEE is back in the black. Some additional decisions are still in the process of being made at headquarters. It was mentioned that more than half of the endowed awards aren't able to be paid out. In this case it may be necessary to go back to the sponsor or not provide a monetary award until sustainability can be ensured. ASEE offers a conference in a box that might be helpful to those planning the Summer School. The focus for 2016/2017 will be P-12. There is a diversity shirt that has been designed by ASEE that comes blank and allows you to personalize it. ASEE is going to be looking into more detail related to diversity including the composition of each division and whether the leadership positions are proportional to the diversity of the division membership. Feedback to ASEE was provided that by moving back the program to start at 8 am it made it difficult to fit in lunch between sessions. It was also suggested that providing the Program Chair with system wide events in advance could be helpful to ensure there are no scheduling conflicts. It was mentioned that there was interest in the Division to move away from the "Publish to Present" requirement. ASEE responded by stating that we should look more into the Work in Progress submissions rather than full papers to overcome issues being faced. Updates on the female membership at ASEE, 24.2%, and minority membership, 23%, was provided. Christi thanked ASEE headquarters and Adrienne for all they have done.
  - d. Summer School (David Silverstein) – The next Summer School for Chemical Engineering Faculty will be held in July 29 – Aug. 4, 2017, in Raleigh, NC. Summer school proposals are now being solicited with a deadline of November. This allows for advertisement of proposal submissions at this year's AIChE. Starting in November the Summer School will open nominations from department chairs for individuals to attend. The Summer School will be a comprehensive professional development event. There will also be an industry day event to give new faculty ideas about how to collaborate with industry. Additional sessions include highlighting the benefits of professional networking, career award preparation. For the 1st faculty member from any department the chairs only need to cover plane tickets to the event. Any additional faculty can come at a \$500 registration fee.
5. New Business
- a. Banquet Ticketing – The Division may need to cut off banquet sales prior to individuals attending the conference. The Division will try to be reasonable with this decision but it may depend on the venue and change from year to year.
  - b. Volunteer Opportunities
    - i) Columbus, OH 2017 – Daniel Burkey, Program Chair; Michael Elsass, Local Arrangements –
    - ii) Salt Lake City, UT 2018 – ?, Program Chair; ?, Local Arrangements – Volunteers are welcome!
  - c. Lifetime Achievement Award – It will be important for nominators to get nomination packages together early to ensure sufficient nominees are submitted. The process for applying for the award will be changed to 1 nomination letter and a CV. General brainstorming in response to this suggestion included providing a minimum and

maximum number of letters that would be acceptable. It will also be important to mention prior award winners when marketing this award to indicate the caliber of individual the committee is expecting as applicants. A vote was held with the majority of members in favor and a few opposed. The change will not be sent out to the entire division membership since it is not a by-laws change.

- d. Misc. – It is possible to submit a grant request if you want travel arrangements for the upcoming conference in Ohio but this must be done by October. Ohio State will be offering tours to their university including the new Chemical Engineering building as part of the conference.
  - e. General Brainstorming about ASEE ChED was done. Notes are included in Appendix 3.
6. Passing of “The Golden Wrench” to incoming chair Laura Ford. Laura thanked Christi for her work as Division Chair, and Arthur for his work as Program Chair.

American Society for Engineering Education Chemical Engineering Division  
Treasurer's Report – June 2016

**BASS Account total reported June 17, 2015** **\$30,485.37**

Credits

Missing Interest (based on discrepancy between our Bass account report and that of ASEE)	\$16.34
Interest (posted for FY Oct. 2014 – May. 2016)	\$25.64
2015 Banquet Revenue	\$2,652.00
Sponsorships (CACHE 2016)	\$1,200.00
Dues (February 2015 through February 2016)	<u>\$1,367.00</u>
	\$5,260.98

Debits

2015 Lectureship Travel	\$500.00
2016 Awards Banquet Deposit	\$562.50
ASEE 2015 Printing	\$10.50
Awards Banquet 2015	\$2,219.42
BASS Admin Fee FY16 (October 2015 – May 2016)	\$136.80
2016 Awards (Lectureship, CACHE, Fahien, Corcoran)	\$7,000.00
Part of 2016 Appreciation Plaques (\$168.00 total)	<u>\$100.00</u>
	\$10,529.22

**Total BASS Account (June 19, 2016)** **\$25,217.13**

**Operating Account total reported June 17, 2015** **\$0.00**

Credits

2015/2016 Allocation	\$568.00
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Debits

Part of 2016 Appreciation Plaques (\$168.00 total)	\$68.00
Future Faculty Grant	<u>\$500.00</u>
	\$568.00

**Total Operating Account (June 19, 2016)** **\$ 0.00**

### CACHE Award

(for contributions to computing in chemical engineering)  
Sponsored by the CACHE Corporation

Dr. Milo Koretsky  
Oregon State University

Milo Koretsky is a Professor of Chemical Engineering at Oregon State University. He received his B.S. and M.S. degrees from UC San Diego and his Ph.D. from UC Berkeley, all in Chemical Engineering. He currently has research activity in areas related to engineering education and is interested in integrating technology into effective educational practices and in promoting the use of higher-level cognitive and social skills in engineering problem solving. Towards this end, his group has developed innovative tools including the AIChE Concept Warehouse, the Industrially-Situated Virtual Labs, and the concept-based, Interactive Virtual Labs. His research interests particularly focus on what prevents students from being able to integrate and extend the knowledge developed in specific courses in the core curriculum to the more complex, authentic problems and projects they face as professionals. For more information see <http://research.engr.oregonstate.edu/koretsky/>.



### Joseph J. Martin Award

(for the best paper in the ChE Division at the previous ASEE meeting that also appears in the proceedings)

Jacob J. Elmer, Noelle K. Comolli, William J. Kelly, and Zuyi (Jacky) Huang (Villanova University) are recognized for their paper:

"Preparation of Biology Review and Virtual Experiment/Training Videos to Enhance Learning in Biochemical Engineering Courses".



### ASEE Chemical Engineering Division



### Award Recipients for 2016

ASEE Annual Conference  
New Orleans, Louisiana

### Lectureship Award

Sponsored by the ASEE Chemical Engineering Division

Dr. Mark Prausnitz  
Georgia Institute of Technology



Mark Prausnitz is a Regents Professor and holds the J. Erskine Love Jr. Chair in Chemical & Biomolecular Engineering at the Georgia Institute of Technology. He earned his BS from Stanford and PhD from MIT, both in chemical engineering. In addition to teaching mass and energy balances to sophomores, Dr. Prausnitz has developed courses on pharmaceutical development for senior undergraduates at Georgia Tech and doctoral students from multiple Atlanta-area universities that emphasize the holistic process of bringing a drug from concept to the market. Dr. Prausnitz and his colleagues carry out research on biophysical methods of drug delivery, which employ physical mechanisms, including microneedles, lasers, ultrasound, electric fields and heat, to control the transport of drugs and vaccines in the body.

Dr. Prausnitz's microneedle technology has been the focus of six human clinical trials and he has co-founded four start-up companies. Dr. Prausnitz supervises a laboratory containing 25 doctoral and postdoctoral researchers, has published more than 225 peer-reviewed articles, has given more than 200 invited talks and has won numerous awards.

**Best Poster Award Winner**

*(for the best poster in the ChE Division at the previous ASEE meeting)*

Christi L. Patton Luks (Missouri University of Science & Technology)  
& Laura P. Ford (University of Tulsa)

*"Analysis of a Small Gamification Addition to Labs"*



**Ray W. Fahien Award**

(for outstanding teaching effectiveness and educational scholarship for faculty members in their first 10 years)

Dr. Matthew E. Cooper (North Carolina State University)



Dr. Matthew Cooper is a Teaching Assistant Professor in the Department of Chemical and Biomolecular Engineering at North Carolina State University where he teaches Material and Energy Balances, Unit Operations, Transport Phenomena and Mathematical/Computational Methods. He is the recipient of the 2014 NCSU Outstanding Teacher Award, 2014 ASEE Southeastern Section Outstanding New Teacher Award, and currently serves as the National ASEE Chemical Engineering Division's newsletter editor. Dr. Cooper's research interests include effective teaching, conceptual and inductive learning, integrating writing and speaking into the curriculum and professional ethics.

**William H. Corcoran Award**

(for the best paper published in the previous calendar year in *Chemical Engineering Education*)

Sponsored by the ASEE Chemical Engineering Division

Randy D. Weinstein (Villanova University)

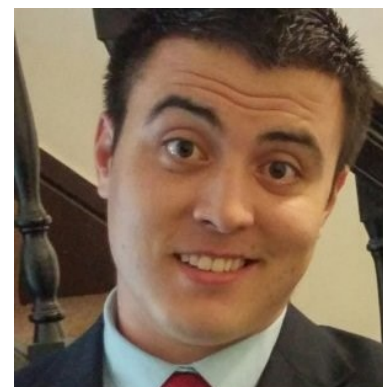
"Improved Performance via the Inverted Classroom"



**ChE Division Graduate Student Future Faculty Grant**

(for chemical engineering graduate students who have not presented at an ASEE Annual Conference)

Matthew R. Markovetz (University of Pittsburgh)



## Appendix 3 Input from General Brainstorming

### **Publish to Present (David Silverstein)**

I wanted to pass on the feedback received on paper and during the discussion on the Publish To Present (PTP) issue. I didn't see any pushback against the PIC response articulated by Adrienne, that we utilize the Work In Progress (WIP) approach to facilitate simpler, less-detailed papers. What I did hear and read multiple times was a need for effective communication from both the author and reviewer perspective.

Some would like to know what a typical abstract should look like, perhaps with an example. Some abstracts are a few sentences, others are multi-paragraph. It was noted that other conferences require a structured abstract addressing a series of particular questions (which for some papers can be challenging to fit). The same would apply to papers, both the need to know what is expected for both regular and WIP.

Reviewers also want to know the standard for a quality review. Some treat the reviews as they would an archival article, others address basic questions like is it reasonable, readable, and interesting.

Above all, communication from the program chair from the opening of the call (with a reminder close to the deadline) and at each stage after that with as much detail as possible communicated to both authors and reviewers would be appreciated. In light of the distinct WIP category, this is important.

The poster session preference should also be noted so that the poster session is not restricted to WIP but can remain a viable dissemination platform for those who prefer it.