1. Welcome & Review of Agenda- Holly Matusovich

2. Consent Agenda (Attached)
   Reports from ERM leaders:
   • Secretary/Treasurer – Tamecia Jones
   • Vice Chair for ASEE 2017 – Deborah Grzybowski
   • Vice Chair for ASEE 2018 – Joyce Main
   • Vice Chair for ASEE 2019 – Jay Pembridge
   • Vice Chair for FIE 2018- Beth Eschenbach- No report
   • Vice Chair for FIE 2019- Alejandra Magana- No report
   • Vice Chair for Publications – Geoffrey Herman
   • Nominating Committee – Monique Ross
   • Apprentice Faculty Grant Committee – Jennifer Bekki and Courtney Faber
   • FIE Helen Plants Award Committee – Position Open
   • Dasher Award – Emily Dringenberg- No Report
   • Best Paper Award for 2019 ASEE Conference – Jake Grohs
   • Diversity Delegate/At Large Director – Beth Cady
   • Directors- Samantha Brunhaver, Aditya Johri, Mathew Verleger, Allison Godwin
   • Directors at Large- Justin Major and Cory Brozina

3. Introductions Around the Room

4. Updates
   • Diversity Chair Report
   • PIC Reorganization

5. Thank You

6. PIC Chair Report

7. Opportunities to Get Involved with ERM
   a. Committee Members: Nominating, Diversity Paper, Best Paper, AFG
   b. Vice Chair for Publications
   c. Nominating Committee Chair
   d. FIE Steering Committee (3-yr position)
   e. FIE Helen Plants Committee (3-yr position)
   f. Vice Chair for FIE 2020 (3-yr position)

8. AFG Discussion

9. ERM Finance Review/FIE/Raising Dues
Consent Agenda Reports

Chair- Submitted by Holly Matusovich

Last year, I reported a desire to continue the agenda that Immediate Past Chair Monica Cardella had set for our division as I believe those same challenges remain. Those priorities are: 1) Being a welcoming division, 2) Providing opportunities for people to get involved with ERM, 3) Ensuring that our paper review processes are fair and consistent, and 4) Connecting with other divisions and communities. Being a welcoming division was my highest priority, as I believe it is an integral outcome of the other three priorities. I believe we have made some progress in these areas which I will describe further on, but an additional, unexpected challenge arose this past year with regard to finances. For perspective, Table 1 shows a comparison between last year and this year as of March 31st (the last quarterly report received before the ASEE annual conference this year).

Table 1: Finance Comparison 2019 and 2018

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One root cause of our financial challenge has been the Frontiers in Education (FIE) Annual Conference for which ERM is one of three sponsors. After we enjoyed 10 years of income from that conference, we received a significant bill for deficits associated with the 2017 conference. While there are multiple factors that contributed to that loss, that situation also provided an opportunity for the FIE Steering Committee (on which ERM is represented by 3 members) to take a close look at FIE Conference business practice. The FIE Steering Committee has implemented some changes to prevent future losses, including raising the conference fee and having a contingency fund, though I believe it is still a work-in-progress in terms of getting a handle on the audience, services provided, and associated costs. As noted later in this report, the 2018 FIE Conference made a small amount of money but that was resulted from one-time a rebate from the hotel due to an employee strike that happened during the conference. Based on the FIE Steering Committee meeting at this conference, projections for 2019 are to break-even. This is indeed a situation that needs further attention and monitoring.

At the same time, the prospect of limited funds for ASEE 2019 caused us to take a good, hard look at our own ERM ASEE expenses. We found that despite the cost, the Brouhaha also has a history of losing approximately $2,000 annually over the past couple years. Although we could typically absorb this cost, for 2019 we made it a priority to break even and Jay Pembridge has worked hard in that direction.

The financial challenge required us to cut some services this year at ASEE. The ERM Board had to make some hard choices. For example, Apprentice Faculty Grant (AFG) winners received less travel funding, the ERM Breakfast of Champions was Bring Your Own Breakfast (BYOB), best paper author teams did not get an honorarium and also received only one plaque for the whole team. Our funding balance remains low going into the next conference cycle and hence our planned discussion on raising dues at the ERM Business Meeting.

To highlight some positive accomplishments over the past year, Allison Godwin and Mathew Verleger successfully implemented an appeals process for authors if they believe their paper was not appropriately evaluated. And, Justin Major and Cory Brozina made some great strides in opportunities for graduate student engagement with the division.

Clearly there is more work to do and Sarah Zappe is at the ready to take the helm and move forward. When Monica Cardella “passed the hat” to me two years ago, she gave me a Captain’s Hat. Given the
storm we have weathered this year, it was most fitting! As I transition to the Immediate Past Chair, my commitment to Sarah, and to ERM, is to continue to wrangle the financial issues so that she can launch and advance her own agenda.

Thank you for the opportunity to serve as the ERM Chair these past two years, it has been a wonderful learning opportunity for me and I enjoyed getting to know many of you better.

**Secretary/Treasurer Report - Submitted by Tamecia Jones**

ASEE accounting has gone through some staffing changes this past year. The transition happened around January, and it was relatively smooth. We have paid the overage from FIE from last year, but that meant we needed to be conservative in planning for the rest of the year. We trimmed activities and awards budgets this year. We learned that it is possible to request disbursements prior to ASEE instead of reimbursements after ASEE when considering how to manage award winners’ prizes. We are piloting a strategy of leaving a list of award winners at the door of Brouhaha so that we have fewer reimbursements to process.

Account balances as of March 31, 2019:

- BASS Account: $10,679.99
- Operating Account: $1282.00

This larger balance is a result of an overage from 2018 FIE of $4188.06 after we planned to operate on an approximate budget of $6000. These totals do not reflect any transactions that took place in April, May or June 2018. These transactions would include ERM expenses, Best Papers, and AFG award winners.

**Vice Chair for ASEE 2018 - Submitted by Joyce Main**

Alice Pawley was selected to deliver the ERM distinguished lecture. Her talk is entitled “Come Get Your People!” Breaking Silences about Equity in Engineering Education.”

ERM is also a co-sponsor of the Distinguished Lecture by Mel Chua and Ian Smith on “Alternate-Universe ASEE: An Engineering Education Conference Session from a World Where the Majority of Engineers are Deaf.”

**Vice Chair for ASEE 2019 - Submitted by Joyce Main**

*Conference Papers*

The call for papers was posted on the asee.org website, as well as through the ERM listserv. The Committee on Diversity, Equity & Inclusion has encouraged every division to include diversity, equity, and inclusion in their call for papers. New in this year’s ERM call for papers is addition of language regarding ERM’s primary objectives: “knowledge on diversity, equity, and inclusion in engineering education.” We maintained the criteria for evaluation and the page limits for papers identified from previous years: 4 pages for WIPs and 12 pages for research, theory, and evidence-based papers.

ERM directors Matthew Verleger and Allison Godwin also piloted a new appeals process for abstracts and papers that were not accepted. Details regarding the appeals process were sent to authors whose papers were not accepted through Monolith, along with their paper reviews. Overall, 29 abstracts/papers were not accepted, and authors of 3 abstracts/papers appealed the decision. The directors reviewed the abstracts/papers and the reviewers’ comments, and provided the authors with their appeals decision. In all cases, the directors upheld the original paper decision.

This year, the 2020 Vice Chair, Jay Pembridge was able to access Monolith. This “new” feature will facilitate a smoother transition for those who hold the Program Chair role from year to year.
The ERM Program Includes:

- 24 Technical Sessions
- 4 Panels of Invited Speakers
- 3 Workshops
- 2 Distinguished Lectures (1 is co-sponsored)
- 2 Social Events (Breakfast with Champions and Brouhaha)
- 1 Poster Session
- 1 Business Meeting (plus 3 FIE Steering/Planning Committee meetings)

ERM will also be participating in the Division Mixer on Sunday evening, 4:30pm – 6:00pm, and the Interdivisional Town Hall Meeting on Monday, 3:15-4:45pm.

Technical Session Paper Submissions:
- 255 abstracts submitted
- 13 abstracts rejected
- 43 abstracts withdrawn after review
- 16 draft papers rejected
- 5 papers withdrawn after draft review
- 19 abstracts/papers transferred to another division
- 27 abstracts/papers were past deadline
- 132 accepted & finalized for publication

Reviewers
- 446 Accepted Reviewers
- Three reviewers were assigned to each paper based on match in research expertise, subject matter interest, and/or availability.

Session Moderators
- 76 volunteered to be moderators
- 48 were assigned to sessions (2 moderators per session)
- 1 was assigned to moderate a panel

Panels of Invited Speakers and Workshops
This year, there were 4 proposals for Panels of Invited Speaker proposals and 7 proposals for workshops submitted. After peer review, 2 panels and 2 workshops were accepted. The PIC chairs accepted both workshop proposals. Authors of proposals that were not accepted by ERM were encouraged to submit directly through ASEE. We co-sponsored the workshops approved by ASEE if the authors requested the sponsorship from ERM. Reviewers for the panels and workshops include: Cory Brozina, Nathan Canney, Alexandra Strong, Joi-Lynn Mondisa, Jay Pembridge, and Idalis Villanueva.

Vice Chair for ASEE 2020- Submitted by Jay Pembridge
Brouhaha will be held in the Coral Reef Exhibit at the Florida Aquarium, 7–10pm. There event will include a strolling buffet featuring Tampa cuisine. The event will include both large rounds for seating and high top tables to encourage socialization amongst ERM members. Tickets are still available at $75.00 advanced registration and $85.00 on site registration. As of 6/14, there have been 107 tickets sold with a total interest of 117. Given previous years, it is expected that we will have approximately 125 attendees. It is projected that we will break even on the expense of the event with 120 paid tickets and donation of $1500 made to ERM.
Vice Chair for FIE 2018 - No report; update from FIE Open Steering Committee Meeting at ASEE 2019
Total overage from 2018 = $12576 divided among sponsoring groups paid out already
Compensation from hotel for the strike = about $15K
(Would have been a loss without hotel compensation)

Vice Chair for FIE 2019 - No report; update from FIE Open Steering Committee Meeting at ASEE 2019
Conference Papers/Sessions
623 submitted abstracts across all section types:
  • 16 rejected, 75 withdrawn for a 97% acceptance rate compared to about a 91% average over the past 6 years
414 papers submitted:
  • 115 accepted as is, 265 accepted with revisions 22 rejected, 1 withdraw
  • 391 papers anticipated against a target of 400

Vice Chair for Publications- Submitted by Geoffrey Herman
No updates to report.

Nominating Committee Report- Submitted by Monique Ross
Thank you to all who ran and all who voted! Election results are in. Congratulations to the newly elected ASEE ERM officers including:
  • Chair - Dr. Sarah Zappe (Penn State University)
  • Director -Dr. Stephanie Cutler (Penn State University)
  • Director -Dr. James Huff (Harding University)

All of the elected officials accepted their roles and are anxious to serve ERM. A big thank you to Monique Ross for chairing and Nicole Pitterson for serving on the election committee.

Apprentice Faculty Grant Committee- Submitted by Jennifer Bekki and Courtney Faber
We received 19 applications for the 2019 ASEE ERM Apprentice Faculty Grant (AFG) program. We asked previous AFG award winners and current ERM members to be reviewers for this year’s award selection, and 20 reviewers graciously gave their time to provide thoughtful reviews of our applicants. The applicant pool was very competitive, and we ultimately named four AFG winners:
  • Natascha Buswell, University of California, Irvine (mentored by Shane Brown)
  • Carmen Lilley, University of Illinois at Chicago (mentored by Nadia Kellam)
  • Leroy Long III, Embry-Riddle Aeronautical University (mentored by Denise Simmons)

Each AFG recipient was matched with a mentor within the ERM community, received a $250 cash award and a certificate, and will be guests of honor at the ERM Brouhaha.

Helen Plants Award Committee- Position Vacant

Dasher Award Committee- No report.

Best Paper Award for 2018 ASEE Conference- Submitted by Jake Grohs
The Best Paper Award committee was led by Jake Grohs and included DeLean Tolbert, Prateek Shekhar, Stephen Secules, and Rachel Kajfez. There were four nominees based on the criteria. The winning paper is “Conceptual Representations in the Workplace and Classroom Settings: A Comparative Ethnography” by M.S. Barner, S.A. Brown, and S.L. Getson.
**Diversity Chair- Submitted by Jay Pembridge for Beth Cady.**

Five Papers were identified for evaluation of Best Diversity Paper in the ERM division. Three of these papers were classified as “Work-in-Progress” and the other two are full papers. To align with ASEE Best Diversity Paper submissions, only the full papers were evaluated for ERM Best Diversity Paper. An additional full paper, considered for ERM Best Paper was added to the evaluation as it was directly related to the purpose of the Best Diversity paper.

The papers were reviewed by four ERM division members- Brooke Coley, Stephen Secules, Stephanie Cutler, Matthew Verleger. Two of the reviewers reviewed all three papers. The third reviewer had a conflict with one of the papers and instead a fourth reviewer reviewed only that paper.

The reviewers selected the following ERM Best Paper: “Predictors of Engineering Doctoral Students' Future Career Sector” authored by Ms. Maya Denton (University of Texas, Austin), Mr. Nathan Hyungsok Choe (University of Texas, Austin), Mr. Kevin A. Nguyen (University of Texas, Austin), Dr. Maura Borrego (University of Texas, Austin), Dr. David B. Knight (Virginia Tech), Dr. Whitney Wall Bortz (Virginia Tech), and Mr. Timothy Kinoshita (Virginia Tech).

**Directors**

*Submitted by Allison Godwin and Matthew Verleger*

For the 2019 ASEE Annual Conference & Exposition, ERM implemented a review appeals process for all rejected abstracts and draft papers. Authors were given the option to file an appeal within a short timeframe (3-5 days after) decision via a Google form. Appeals were reviewed by ERM directors and the authors were contacted with a decision of whether to uphold or overturn the rejection decision. We had 1 abstract appeal and 2 draft paper appeals. The rejection decision for all three were upheld based on the quality of the reviewer’s comments.

*Submitted by Sam Brunhaver*

The directors organized this year’s ERM Breakfast with Champions event, which will be moderated by Sam, Allison and Matt. The event has returned to its Tuesday morning slot and will be bring your own breakfast style this year. We have 35 participants interested in attending, and at least six ERM members who have volunteered to join and help.

**Directors at Large- Submitted by Justin Major and Cory Brozina**

*Creating a ERM Student Relations Chair*

Cory and I originally had the idea of doing some webinars or other activities, but found that many of these activities were already being pursued by the Student Division, and were just in need of more support to make them happen -- an example being the need for mentors for posters the last few years. I had mentioned cases in the past where Student Division reached out to ERM for support and did not receive it. These are gaps we can fulfill to help make the student division stronger in itself while also breaking down boundaries. Thus, Cory and I believe we should create a ERM Student Relations Chair, a position that focuses on being a liaison between ERM and student needs; this could even be broadened to a division relations chair that communicates with several other divisions who are trying to partner up. The liaison would communicate regularly with the division as well as other ERM officers to find ways to build bridges.

*Creation of other unofficial student roles*

Many students and early-career faculty are looking for positions to dip their feet in, but many of our positions do not allow students to get involved. It would be advantageous for us to ask other ERM officers to consider creating sub-roles that students can be appointed to fill. I thought of an example being a position just as small as helping the Brouhaha chair determine the Brouhaha location. These positions can mostly be small and in effort to make students feel as if they can be included.
Encourage faculty to forward the newsletter to any and all of their students if they are not already members
Several students learn about opportunities from their faculty or are looking for an invitation to join ERM events. Some students talked about receiving the newsletter from their faculty being the only way they got it. Cory and I thought it might be useful to add a line at the start of the newsletter that encourages faculty to forward it to their students. Then students get the information.

Half-sheet read-outs for Moderators of ERM sessions
This was an idea you (Holly) and I had talked about before. The welcome breakfast, division business meeting, and the brouhaha might have more attendance if we diversified the way we broadcast the events. Most students did not know the Welcome Breakfast existed or that they could attend Brouhaha without invitation from someone, so long as they could pay for it. If we create a half-sheet for moderators to read at the start and/or end of a session, we could extend beyond encouraging others to come to our other sessions -- we could encourage people to come to the events and meetings we do too. In that read-out, we could also remind students that they are welcome to these events too. If we create unofficial student roles, this could also be a place we could advertise them so students come to the meeting to be appointed to them.
## Attendance

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</tr>
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<td>Sarah Zappe</td>
<td>Penn State</td>
<td><a href="mailto:Ser163@psu.edu">Ser163@psu.edu</a></td>
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<tr>
<td>Stephanie Cutler</td>
<td>Penn State</td>
<td><a href="mailto:Slc5822@psu.edu">Slc5822@psu.edu</a></td>
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<tr>
<td>Lisa Benson</td>
<td>Clemson</td>
<td><a href="mailto:lbenson@clemson.edu">lbenson@clemson.edu</a></td>
</tr>
<tr>
<td>Cory Brozina</td>
<td>YSU</td>
<td><a href="mailto:scbrozina@ysu.edu">scbrozina@ysu.edu</a></td>
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<tr>
<td>Rachel Kajfez</td>
<td>OSU</td>
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</tr>
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<td>Purdue</td>
<td><a href="mailto:purzer@purdue.edu">purzer@purdue.edu</a></td>
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<td>UC Irvine</td>
<td><a href="mailto:nbuswell@uci.edu">nbuswell@uci.edu</a></td>
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<td>marisak@clemson</td>
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<td>Rose-Holman</td>
<td><a href="mailto:cunninggh@rose-holman.edu">cunninggh@rose-holman.edu</a></td>
</tr>
<tr>
<td>James Huff</td>
<td>Harding</td>
<td><a href="mailto:jlfuff@harding.edu">jlfuff@harding.edu</a></td>
</tr>
<tr>
<td>Cindy Finelli</td>
<td>UMich</td>
<td><a href="mailto:cfinelli@umich.edu">cfinelli@umich.edu</a></td>
</tr>
<tr>
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<td>UMich/CU Boulder</td>
<td><a href="mailto:aaronwj@colorado.edu">aaronwj@colorado.edu</a></td>
</tr>
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<td>Tershia Pinder-Grover</td>
<td>UMich</td>
<td><a href="mailto:tpinder@umich.edu">tpinder@umich.edu</a></td>
</tr>
<tr>
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<td>Charles Sturt</td>
<td><a href="mailto:elindsay@scu.edu.au">elindsay@scu.edu.au</a></td>
</tr>
<tr>
<td>Michael DeAntonio</td>
<td>New Mexico State</td>
<td><a href="mailto:mdeanton@nmsu.edu">mdeanton@nmsu.edu</a></td>
</tr>
<tr>
<td>Jim Morgan</td>
<td>Charles Sturt</td>
<td><a href="mailto:jmorgan@csu.edu.au">jmorgan@csu.edu.au</a></td>
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<td>Michigan State</td>
<td><a href="mailto:spwalton@msu.edu">spwalton@msu.edu</a></td>
</tr>
<tr>
<td>Maria-Isabel Carnasciali</td>
<td>U New Haven</td>
<td><a href="mailto:mcarncasi@nwchaven.edu">mcarncasi@nwchaven.edu</a></td>
</tr>
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<td>Virginia Tech</td>
<td><a href="mailto:cgroen@vt.edu">cgroen@vt.edu</a></td>
</tr>
<tr>
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<td>Clemson Univ</td>
<td><a href="mailto:rsundbe@clemson.edu">rsundbe@clemson.edu</a></td>
</tr>
<tr>
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<td>FIU</td>
<td><a href="mailto:astrong@fiu.edu">astrong@fiu.edu</a></td>
</tr>
<tr>
<td>Julianna Ge</td>
<td>Purdue</td>
<td><a href="mailto:Ge45@purdue.edu">Ge45@purdue.edu</a></td>
</tr>
<tr>
<td>Alejandro Gutiérrez</td>
<td>UC Merced</td>
<td><a href="mailto:Agutierrez78@ucmerced.edu">Agutierrez78@ucmerced.edu</a></td>
</tr>
<tr>
<td>Adam Carberry</td>
<td>Arizona St</td>
<td><a href="mailto:Adam.carberry@asu.edu">Adam.carberry@asu.edu</a></td>
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<td>Purdue University</td>
<td><a href="mailto:tamara@purdue.edu">tamara@purdue.edu</a></td>
</tr>
<tr>
<td>James Pembridge</td>
<td>Embry-Riddle</td>
<td><a href="mailto:pembridji@erau.edu">pembridji@erau.edu</a></td>
</tr>
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<td>Elise Barrella</td>
<td>WFU</td>
<td><a href="mailto:barrelem@wfu.edu">barrelem@wfu.edu</a></td>
</tr>
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<td>Alez Szatmary</td>
<td>King’s College</td>
<td><a href="mailto:AlezSzatmary@kings.edu">AlezSzatmary@kings.edu</a></td>
</tr>
<tr>
<td>Elif Miskioglu</td>
<td>Bucknell University</td>
<td><a href="mailto:Eem014@bucknell.edu">Eem014@bucknell.edu</a></td>
</tr>
<tr>
<td>Adam Kirn</td>
<td>University of Nevada-Reno</td>
<td><a href="mailto:akirn@unr.edu">akirn@unr.edu</a></td>
</tr>
<tr>
<td>Jake Grohs</td>
<td>VT</td>
<td><a href="mailto:jrgrohs@vt.edu">jrgrohs@vt.edu</a></td>
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<td>Ahmed Dallal</td>
<td>UPitt</td>
<td><a href="mailto:Ahd12@pitt.edu">Ahd12@pitt.edu</a></td>
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<td>GA Tech</td>
<td><a href="mailto:David.macnair@gatech.edu">David.macnair@gatech.edu</a></td>
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<td><a href="mailto:glherman@illinois.edu">glherman@illinois.edu</a></td>
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<td>U of Manitoba</td>
<td><a href="mailto:Robert.Renaud@umanitoba.ca">Robert.Renaud@umanitoba.ca</a></td>
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<td>Purdue</td>
<td><a href="mailto:cardella@purdue.edu">cardella@purdue.edu</a></td>
</tr>
<tr>
<td>Micah Lande</td>
<td>South Dakota School of Mines</td>
<td><a href="mailto:Micah.lande@sdsmt.edu">Micah.lande@sdsmt.edu</a></td>
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<td>Nicole Pitterson</td>
<td>VT</td>
<td><a href="mailto:npitters@vt.edu">npitters@vt.edu</a></td>
</tr>
<tr>
<td>So Yoon Yoon</td>
<td>Texas A &amp; M</td>
<td><a href="mailto:soyoon@tamu.edu">soyoon@tamu.edu</a></td>
</tr>
<tr>
<td>Lawrence Angrave</td>
<td>Illinois</td>
<td><a href="mailto:angrave@illinois.edu">angrave@illinois.edu</a></td>
</tr>
<tr>
<td>Monique Ross</td>
<td>FIU</td>
<td><a href="mailto:moross@fiu.edu">moross@fiu.edu</a></td>
</tr>
<tr>
<td>Kelsey Rogers</td>
<td>Embry-Riddle</td>
<td><a href="mailto:Rodgerk6@erau.edu">Rodgerk6@erau.edu</a></td>
</tr>
<tr>
<td>Donna Llewellyn</td>
<td>Boise State U</td>
<td><a href="mailto:donnalllewellyn@boisestate.edu">donnalllewellyn@boisestate.edu</a></td>
</tr>
<tr>
<td>Saad Shehab</td>
<td>U of Illinois</td>
<td><a href="mailto:Shehab2@illinois.edu">Shehab2@illinois.edu</a></td>
</tr>
<tr>
<td>Taylor Tucker</td>
<td>U of Illinois</td>
<td><a href="mailto:Tdtucke2@illinois.edu">Tdtucke2@illinois.edu</a></td>
</tr>
<tr>
<td>Holly Matusovich</td>
<td>VT</td>
<td><a href="mailto:matushm@vt.edu">matushm@vt.edu</a></td>
</tr>
<tr>
<td>Alice Pawley</td>
<td>Purdue</td>
<td><a href="mailto:apawley@purdue.edu">apawley@purdue.edu</a></td>
</tr>
<tr>
<td>Samantha Brunhaver</td>
<td>ASU</td>
<td><a href="mailto:Samantha.Brunhaver@asu.edu">Samantha.Brunhaver@asu.edu</a></td>
</tr>
<tr>
<td>Matt Verlager</td>
<td>Embry-Riddle</td>
<td><a href="mailto:Matthew.Verlager@erau.edu">Matthew.Verlager@erau.edu</a></td>
</tr>
<tr>
<td>Tamecia Jones</td>
<td>NCSU</td>
<td><a href="mailto:Trjones8@ncsu.edu">Trjones8@ncsu.edu</a></td>
</tr>
<tr>
<td>Cindy Finelli</td>
<td>UMich</td>
<td><a href="mailto:cfinelli@umich.edu">cfinelli@umich.edu</a></td>
</tr>
<tr>
<td>Matt Ohland</td>
<td>Purdue</td>
<td><a href="mailto:ohland@purdue.edu">ohland@purdue.edu</a></td>
</tr>
</tbody>
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Beth Cady (Diversity chair report): *(needed to go first to leave for another meeting)*

- Roundtable discussions tomorrow and distinguished lecturers. Maybe next year we will record and post them for posterity.
- People in communities have been targets of harassment because of the research they do, and the commission

Holly:

- Consent agenda no reports on FIE, so delay in Consent Agenda.
- Introduction of Holly as outgoing ERM chair

*Motion by Matt Verlanger to accept consent agenda*

*2nd by Justin Major*

5:10pm - Introductions (name, university, and one word to describe ERM)

Examples: Copious, supercalifragilisticexpealodious, longevity, open, connections, generous

5:19 Welcome of new members to the business meetings

Updates:

- PIC Reorganization will happen soon and we need to discuss it. We are the biggest membership-wise (~1400). By September 15, they want feedback from divisions about preferred option for the new arrangements. There were three options: red, blue, and green. (One is alphabetically organized.) We were not explained why they were organized in those groupings, but all scenarios were roughly equal in size. Why would one care? Reorganization is happening. It is definitely related to number of competing divisions for Best Paper competition. How much energy do people have to think and reflect on this decision? The group decision by a hand vote was to let the board vote.

5:25pm THANK YOUS

1. Joyce Main for doing entire program for this year. Monolith is being replaced.
2. Jay Pembridge- planning the Brouhaha [Jay announces time and distance (1mile) get there: walking, free trolley to FL Aq, Scooter], walking buffet around high top tables, and it broke even!
3. Deb Grzybowski - 3 yrs of service in planning brouhaha, org distinguished speaker, etc.
4. Monique Ross- as nominating chair
5. Godwin and Verlegar -
6. Cardella immediate past chair

5:30 Opportunities to get involved, so email Sarah to volunteer to get engaged
5:30 AFG discussion (Faber + Bekki)
AFG Purpose is to support incoming faculty. Need of mentoring has been identified by most recent winners. Three were selected, but other applicants were strong, but AFG doesn’t allow for an emerging scholar category. What are thoughts about two awards (AF and Emerging Scholar)?

4 years of applications have brought this trend of light and we thought it may have inspired a conversation.

The Conversation:
APawley: What differences would there be between the two awards?
Answer: Money could be split to more awards with same amount of money.

Benson: JEE having a similar problem, so not a new problem. Considered AFG as new who didn’t not have mentors. Maybe need new more diverse mentor access.

Brunhaver: A separation could cause more trouble. Ask questions about what kind of mentorship the person wants, and then have a mix of people who want

Capacity building vs. apprentice, need to separate audiences.
Kern: some ways your proposing REEF vs. CAREER, if you come up with two, you need to be clear about how the awards exist in synergy or are we trying to do something different.

Pembridge: 3rd "how will you be part of ERM afterwards" is a question, but people struggled to answer it. Can people identify how? We tapped into AFGs for a few things and they were all responsive to participating actively in the community.

Coso Strong: Since community is growing, AFG winners now reflect a larger spread if you look at what we awarded 10 years ago. (More than half of those in attendance were AFG winners in the past. Hand attendance count)

Lande: PEER mentoring event has become sustainable. Breakfast of Champions also has momentum. Maybe expand those.

Don’t know: As a reviewer, didn’t know how to write award or to coach the letter write.

Alison Godwin: Financial support allowed me to attend ASEE as a student at a department and going to a department who didn’t need mentoring. Language is about the apprentice and not mentoring that we are discussing.

5:44 PIC Report. Teri Reed (next PIC Chair will be Beth Holloway)

- End of last year: concerns with way some divisions handled Best Paper. So started best paper poster session. There were 29 participants
• Align Best Paper timeline with paper deadlines.
• Had 8 reviewers with 13 divisions (bad thing)
• No WIP at PIC level for Best Paper
• Add Best Paper policies in bylaws
• Code of Conduct started 2 years ago, and started a committee. We now have overall committee and a new reporting process. Agree to code of ethics when renewing membership in future. Still working on plagiarism issue.
• Added a moderator handbook after complaints in sessions (Peter Schmidt)
• New conference rate for K-12 teachers
• BASS and operating account will be united (sept 30th swept and then moved to BASS Oct 1). Board accepted Doug Tonga’s. Only money from headquarters will be taxed.
• Successfully allocated funds for replacement of monolith this year. Society and content management system will be affected. Likely be a period of parallel systems for next year.
• Say hello to new people with star pin on their badge
• +/-delta childcare 2nd year and a row and need more wifi coverage area in convention center
• +/-delta thanks for free childcare
• +/-delta engagement is good, but need larger rooms for tech sessions (and workshops even though history says it dictates ticket set)
• +/-delta all distinguished lectures are all at same time, so could they be recorded so we can see them
• +/-delta more changed rooms this year than before

5:56 FINANCES (get slides from Holly)

• 30 people signed up for BoC at BYOB status
• Income came from FIE last year. And it enables us to do what we do. One society was losing money but it waived the $30K for years. And now it is
• (CindyF) FIE will have reception if they can get fundraising cost for it.
• If we still want to stay engaged in FIE, have to participate, put papers in, and register.
• We would have lost last year but hotel reimbursed the division.
• (CindyF) Some housekeeping should be done, but trust one more year before we cut ties. Some steering committee members really do want to fix it.
• Holly suggests (after talking to Bill Oakes) a task force going into this year, so we might want to re-inventory. Task force needs to include cross-generational members because there is a bifurcation of views.
• (Ohland) Surprised this hasn’t happened earlier. Economy of scale doesn’t allow us to increase size, but changes character of conference.
• We can’t plan for next year with the mechanisms we use right now.
• People in favor of raising dues slightly?
  o $10: 45 vote yes
  o Comfortable with me and others paying $20:
  o Can we accept donations to ERM?
- No difference for student membership, so maybe we should have some tiers.

Meeting adjourned at 6:12pm.