

K-12 & Pre-College Division Business Meeting

June 24, 2013

Minutes recorded by Monica Cardella

Executive Board:

Liz Parry, Chair
Mindy Zarske, Immediate Past Chair
Stacy Klein-Gardner, Chair Elect
Pamela Lottero-Perdue, Incoming Chair Elect
Susan Donohue, Program Chair
Sharlene Yang, Program Chair Elect
Merredith Portsmouth, Incoming Program Chair Elect
Monica Cardella, Secretary-Treasurer
Susan Walden, Outgoing Publications Editor
Michael Stone, Incoming Publications Editor
Tanner Huffman, K-12 Representative
Marth Cyr, Member at Large
Tamara Moore, Member at Large
David Heil, Member at Large
Laura Bottomley, Member at Large
Melinda Higgins, Member at Large
Mary Phelps, Member at Large

Additional Attendees listed on last page

1.Call to order (Liz)

2.Brief introductions (everyone in the room)

3.Overview of the Agenda

4.Overview of the K-12 Division

- One division out of 13 in PIC IV - 4th largest in the PIC (behind ERM, Women in Engineering and Ethics)
- Overall membership of ASEE went down over the past few years but is back on the upswing
- about 700 members in our division
- our division is 42% female (ASEE overall is 18-19%)
- about 80% of our division is university faculty/staff/students
- above average % of URM

5. Snapshot of the Program (Susan Donohue)

- 94 papers, 11 posters & 5 independent discussions from 160

- abstracts
- 99 reviewers
- abstracts transferred in and transferred out (based on abstract – what division that abstract best fit in)
- best practices panel this afternoon
- lunch in the exhibit hall tomorrow morning – posters sharing works-in-progress—please provide good feedback/input
- social tonight with MIND & WIED
 - best papers will be announced—encourage those around you to be quiet so that we can hear the winners announced
- reason why particular sessions were ticketed was to get a head-count (business meeting; best practices panel...)
- Best paper for this division: “Elementary Teachers’ Two-Year Implementation” Kerry Douglass; So Yoon Yoon; Daphne Duncan-Wiles; Heidi Diefes-Dux. Presented Wednesday at 7am

6.K-12 Workshop

- Due to staffing changes at ASEE Stacy Klein-Gardner did a lot of work to organize the workshop
- Pamela Lottero-Perdue organized the lunch
- Will be forming a committee to work on the 2014 K-12 workshop

7.PIC IV Report (Bevlee Watford)

- Best paper overall came from PIC II
- Best paper from PIC IV: Lorelle Meadows – Gender Stereotypes
- Incoming PIC IV chair: Maura Borrego
- This division: number of papers submitted is higher than other divisions; large number of sessions too
- Long-range planning committee has chosen K-12 as one of their two main focus areas
- Had been talk of re-aligning PICs; but at this point ASEE is not going to do this
- What is a PIC? PIC stands for professional interest council. There are approximately 50 divisions at ASEE, which are organized into about 7 PICs.

8. Next Generation Science Standards workshop

- original cap of 50 participants; 60 people signed up in the end
- focused less on “is there enough engineering in there” and more on where do we go from her
- a lot of work to be done and a tremendous amount of

opportunity

- especially in measurement
- we as the engineering education community need to be front & center

9. ASEE Overall (Liz)

- registration rates went up and proceedings fees went up
- publishing costs for JEE: \$100 per page
- AEE (Advances in Engineering Education) going to \$250 per paper
- Copyright: modified so that you can publish your work on free/open websites
- Long-range planning committee: K-12 as one of two major focus areas
 - Committee to be formed by members from multiple divisions as well as EDC, industry
 - Talk to Stacy if you are interested in being part of this committee
 - Other committee: access to college
- Monolith: has its shortcomings, but we will continue to use it
 - As of June 23, if you are registered for the conference, you can log-in and see a live link to the paper in the online session locator
 - You can only get a book (of the conference proceedings) if you pre-request a book (only printed enough copies for those who requested them)
 - You can choose to request a book, a CD, or both (but papers are online and linked through OSL)

10. Reflections on the past two years (Liz)

- **Goal: make this division the center of competency for K-12 engineering education**
 - **People within ASEE (as well as outside ASEE) should recognize that we provide expertise and competency**
 - We bring millions of dollars of grant money to our institutions
 - We bring engineering resources to millions of students
 - We are incredibly competent; need to make sure that others know about our expertise
 - E.g. NSF Smart STEM conference: NSF Engineering directorate head ended his talk with a slide suggesting that engineering higher education institutions need to be involved in this work... and that it would be great if a group of

people starting getting together to talk about K-12 engineering education

- In your networks, share what the K-12 division is doing
- Do we allow engineering to be “& engineering” as in “science & engineering” or do present engineering as a distinct and appealing field that (diverse) students are interested in pursuing?
- On ASEE TV, interview with Walt Buchanan’s two main achievements:
 - Getting ASEE in better financial status
 - K-12 engineering education work
- K-12/pre-college division email updates
 - A lot of people read the updates even if they are not actively involved in presenting work in the K-12 division
 - Many people send feedback/responses –thanks!
- The work we are doing is changing people’s lives

11.Elections (Liz)

- Current bylaws state that the K-12 representative must be a classroom teacher
 - This past election, we had people running for the K-12 representative position that were not K-12 teachers
 - Will be working on a by-law change to add 2 K-12 positions (increase representation of K-12 practitioners and also provide opportunities for other K-12 practitioners that are not classroom teachers to be on the board)
 - 1 K-5 rep
 - 1 6-12 rep
 - 1 “other”
- Will also add an international representative position
- Will draft bylaws, then call a vote on the bylaws; if bylaws are approved then we will have a mini-election this fall

12.Goals for 2013-2014

- This division is recognized as the center of competency for K-12 engineering education-- people within ASEE (as well as outside ASEE) should recognize that we provide expertise and competency
- Membership increases (number of members)
- Membership is more actively engaged
- New committees to help us reach these goals:
 1. Increasing K-12 teachers’ involvement/engagement – Melinda Higgins will be chairing this committee

2. ASEE plenary speakers: a strong speaker nominated by the K-12 division
3. Awards: ASEE fellows (nominating the members who have reached the 10-year mark); best paper awards; etc.
4. "Response Team" – probably people local to the DC area – people who can talk about K-12 engineering education when we get requests
5. Division publication – "journal of practice" – another format for sharing our work
6. NGSS engineering
7. K-12 Workshop (Saturday workshop) – organizing the workshop; making it more effective; looking at how to make it more financially viable (so it doesn't cost ASEE money but breaks even); clarifying the division's roles vs. ASEE headquarters' roles; providing regional workshops
 - a. Look at NSF funding for the workshop?

13. Treasurer/Secretary Report (Monica)

As of: 3/31/2013

- BASS account: \$14,919.99
 - Expenses include: catering (coffee for business meeting; reception with MIND, WIED), honoraria
 - Income includes membership allocation; interest
 - This is our long-term account
 - Previous balances:
 - 6/30/2012: \$16,015.64
 - 9/30/2011: \$14,915.06
 - 6/30/2011: \$15,000 (as reported at the business meeting)
- Operating account: \$450.88
 - We need to spend out the money in this account each year
 - Expenses include: website maintenance, conference call costs, printing

Generally the accounts look good.

ASEE K-12 and Precollege Division Business Meeting Attendance, June 24, 2013

Name	Email	Willing to review?
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Angie M. Bautista-Chavez	angiebell@gmail.com	?
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Ben Nadire	nadireb@kent.school	y
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Brent Houchens	Houchens@rice.edu	Y
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