

**ASEE 2010**  
**K-12 Engineering Division Business Meeting**  
**Tuesday, 16 June 2010**  
**6:30-8:00 p.m.**  
*Louisville Convention Center Room 110*  
**Moderator(s): Malinda Zarske, University of Colorado at Boulder**

**Agenda**

0. **Call to order.** Malinda Zarske, K-12 chair
1. **Introductions**

**Officer reports**

0. Noel Schulz – Outgoing Pic IV Chair
  - Bev Watford is the incoming PIC IV Chair
  - PIC IV has 13 divisions
  - Monolith will be taking over for Smoothpaper
    - It will integrate membership, registrations, papers, etc.
    - Designed specifically for us.
    - Anticipate a learning curve, but hopefully smoother than smoothpaper.
    - Advantages: 5-7 people to administer instead of 1, includes a testing site
    - Work in progress
  - Frank Huband is retiring after 20 years as Executive Director
    - They want membership to be involved in finding the new director. You'll see some e-mails about this if you're interested.
  - Task force related to plagiarism is being formed if you're interested in being a part of it.
  - Diversity task force – Bev Watford is working on this. There were recommendations in 2002 that have not been acted on.
  - Operating funds reallocated: \$1 per member is in our operating funds and will leave at the end of the year
    - We have had a lot of growth in 2 years. 450-748 members. Our operating budget will go up by this.
  - Questions:
  - Stacy: Bring-a-Teacher Program... is there any hope?
    - NS: Board has suggested something more like an industry day. If our group could come with a proposal that made sense, it would be heard
    - NS: Money is going to break even or lose money.
    - NS: Heard great things about our workshop on Saturday. Lots of accolades.
    - Liz: K-12 workshop is local teachers. Our bring a teacher for workshop would be national teachers that we're doing research with.
    - Mindy: Can our ASEE K-12 Div members bring a teacher similar to bring a student? The teacher would still need a full paying sponsor.
    - NS: The number of student members has passed the number of life members for the first time ever.
  - Liz: Do we really need 7am sessions?

- NS: These started with the California conference in which it was an east-west thing. It's now very hard for west coast members to do 7am at an east coast conference. Vancouver may help.
  - E-mail Noel if you have any questions going forward.
1. Chair Report – Malinda Zarske
    - Now up to 748 paying members
    - Busy working on the K-12 division leading the way on Professional development based on NAE that Liz will discuss later.
  2. Secretary/Treasurer – Paul Klenk
    - Finance Update
    - Website Update
  3. Program Chair for ASEE 2010 (Louisville, Kentucky, June 20-23, 2010) – John Chen
    - Update on this year's Program
    - Thank you to 2 reviewers per paper on one call for reviewers.
    - Liz: There were a few problems with the moderators. It's not John's fault.
    - Liz: K12 sessions were very well attended and Susan will give us the data.
    - Mary-Beth: How do we give feedback on the topic of the session? She went to one where the 1<sup>st</sup> 2 papers didn't match the topic.
      - i. Teri: The program chairs understand that sometimes the topic is a stress.
      - ii. XX: Why are we running so many sessions?
      - iii. YY: When you shrink it, you lose attendance which is bad for the division.
      - iv. Mindy: Can we get a bit better alignment of the topics with sessions?
      - v. Susan: We should be able to rename the sessions next year with Monolith and before, the sessions were harder to change.
      - vi. Teri: Often you put the best paper at the end to keep people in the session.
    - Best Practices in Partnerships Panel – Stacy Klein-Gardner
      - i. Went better this year than last year.
      - ii. It's hard that we've got two sessions at the same time.
      - iii. 13 applications for best practices in partnerships panel and 3 accepted. This is the same number as last year. There were 7 from high school, 3 from elementary and 4 from middle school.
    - Susan Stats:
      - i. 45 people per session average or so – people who popped in for one paper
      - ii. Best practices was highest – 50-60 people
      - iii. 68 people walked in for the Assessment in K-12 Engineering Session – Standing room only
  4. Program Chair-Elect for ASEE 2011 (Vancouver, June 26-29, 2011) – Susan Walden
    - Please let her know if you want to review.
    - Update on Call for Proposals
    - New Best Practices in Assessment of Participant Outcomes Panel for June 2011
      - i. People invited to present will work together on a proceedings paper.
      - ii. Perhaps a journal article will come out of this as well.

- iii. Five panelists: Informal, teacher professional development, K-5, 6-8, HS
  - iv. Eugene Brown will help with the project – Susan acknowledged that he's already in since it's his idea.
- This year we did the curriculum exchange poster session:
  - i. ASEE promised tables for activities, but this unfortunately didn't happen.
  - ii. Presentations were great.
  - iii. Perhaps instead of a poster session, we could do this as a room session to get tables in a regular room.
- XX: Suggestion for more cross pollination of divisions.
  - i. Liz says we used to do that, but we've noticed that other divisions send things back to us.
  - ii. John agrees he was sent lots of papers. WIE sends papers to us as a policy for K-12 stuff.
  - iii. Teri suggests we co-sponsor sessions that are almost all K-12 from another division. John suggests we ask the program chair from ERM during the year just to see if they're doing something like this.
  - iv. Susan: MIED wants to continue co-sponsoring a workshop.
- Social co-sponsored with MIED and WIE:
  - i. We need a better location. That's Louisville specific.
  - ii. Perhaps we can do more with this.

### Committee reports

5. Nominating and By-Laws Committee – Teri Reed Rhoads
  - Update on By-Laws and vote on them
    - i. We voted in 2007 and 2008 on the by-laws but they were never officially approved.
    - ii. She used color coding to show the division the changes (See file).
    - iii. We received 8 comments while it was out for 21 days of review.
    - iv. Teri moves that we vote on the by-laws
    - v. Liz seconds the by-laws.
    - vi. **Unanimous approval of the new by-laws.**
  - Call for Nominations (2 At Large Members, Publications Officer, and Program Chair Elect)
6. Awards Committee – Larry Richards
  - Congratulations to Teri Reed-Rhoads, ASEE Fellow 2010
  - 2010 Best paper - "Studio STEM: Networked Engineering Projects in Energy For Middle School Girls and Boys" Christine Schnittka, University of Kentucky, Michael Evans, Brett Jones, and Carol Brandt, Virginia Tech
  - Martha: What's the division doing to promote the best paper?
    - i. Announced it at the social
    - ii. Action: Send out an e-mail
    - iii. Martha: Perhaps we should send it out beyond the ASEE division to promote it. This could be something that goes to external groups.
    - iv. Action: Add an RSS feed to the website

### Old Business

7. K-12 Saturday Workshop - Mindy

- Panel and Focus Groups – Bette, Larry, Gene, Liz
  - i. Breakout session notes will be written up by Larry and Gene and will be on the website
  - ii. Only 150 spots in any of the workshops, this was a problem
  - iii. Marion: Many of the individual sessions were as low as 25
  - iv. Liz: We need to think about doing this for larger numbers. Try not to limit it.
  - v. Marion: We need to have some large sessions even if there are small ones.
  - vi. Liz: It's VERY hard to control which sessions teachers are going to go to.
  - vii. Marion: Used to be an emphasis on faculty seeing stuff. Is this just a teacher workshop now?
- Report on Sunday discussion of templates for regional conferences
  - i. A lot of work goes into the Saturday workshop – 4 months of Libby's time
  - ii. We'd like to reach more teachers.
  - iii. Sponsors would like to reach more teachers.
  - iv. Could we do this workshop as a template that would be easier to put on and be more consistent from a messaging perspective?
  - v. We would then use the template at 10-11 regional workshops in addition to the national workshop.
    1. Half day and/or full day?
    2. Leave time for local hot-button interest
    3. This is in the beginning stages.
    4. If you are a regional person that feels strongly one way or another, let us know. We don't know if regions are interested?
    5. Next year in Vancouver is a bit up in the air since it's international. It's hard to predict what we may get.
    6. XX: Would we consider a webinar for some of the things we did on Saturday?
    7. Liz: Great idea. This also helps with reaching more people including faculty as Marion asked in addition to teachers.
    8. YY: Have we thought about partnering with a National organization to do some of the legwork for us. Formerly HEMAC and now Great Minds in STEM is interested in partnering to do this more often.
    9. Liz: We may not be able to give up control for something like this. ASEE headquarters would have a different motivation for this.
    10. Steven O-Brien – New Jersey Institute of Technology – perhaps we can connect with groups an hour south of British Columbia.

8. Liz Parry - Overview of "Beginning the Dialogue on K-12 Engineering Education" May 4-5, 2010, Raleigh, NC

- Response to recommendation 4 of NAE report on K-12 Engineering Education: "ASEE K-12 and Pre-College Division should begin a national
- NC State got the money for a meeting.
- Invited Elementary Ed and Leadership
  - i. Included representatives from major STEM K-12 organizations
  - ii. Began discussion of "what does engineering look like at various levels?"

- iii. First of what will likely be many meetings
- iv. Stacy Klein Gardner is trying to host the second meeting at Vanderbilt in the Fall.
- v. The goal was to bring everybody together.

### New Business

#### 9. Open for Other Announcements

- TeachEngineering.org looking for volunteers to provide reviews for activities being published by the K-12 engineering education community.
- Inspire out of Purdue: *Journal of Research in Pre-College Education* is launching in the spring of 2011. [jstrobel@purdue.edu](mailto:jstrobel@purdue.edu) – Johan Strobel
  - i. Liz: Is this annual? Yes
  - ii. Stacy: Closer to an airport location and before school starts in the south would help.

10. Meeting adjourned. The next K-12 Division Meeting will be held at ASEE 2011, Vancouver. Tuesday, June 28, 4:30 to 6:00 pm, location to be announced.