

ASEE 2009  
K-12 Engineering Division Business Meeting  
Tuesday, 16 June 2009  
4:30-6:00 p.m.  
*Neal Kocurek Memorial Austin Convention Center 5B*  
Moderator(s): Teri Reed-Rhoads, Purdue University

**Agenda**

0. **Call to order.** Teri Reed-Rhoads, K-12 chair
  
- A) **PIC Chair:** Noel Schultz – Mississippi State going to KS State
  - a. She is our contact with the ASEE Board. She's a resource for our division.
  - b. **Activity Updates**
    - i. Smoothpaper was not always smooth so they are trying to improve it.
    - ii. 2010 – overhaul smoothpaper – there will be a halftime ASEE staff member working on smoothpaper – This staff member's address and contact info will be on the web (We should put this on the division website).
    - iii. Schedule change – No longer 1 month for abstracts and 2 weeks for papers, there will be an updated paper schedule
    - iv. 2 Big Initiatives 1) Diversity and 2) International
    - v. **Diversity** – Task force looking to broaden our way of looking at diversity – k12 teachers may be an instance of this
    - vi. Feb – work plan in place related to diversity
    - vii. **International Programs:** They are trying to create more information related to current international opportunities
    - viii. **Faculty Development:** SPEED (Strengthening Performance of Engineering and Technology Educators Across Disciplines) – 2 page paper in proceedings – faculty development with ASEE as the lead in some places around the country – NSF grant
    - ix. 1999 report on Sustainability in Engineering Ed – ASEE is interested in revisiting this area. There will be a new task force on this area. Let her know if you are interested.
    - x. Collaborative Workshops and Receptions – PIC IV is trying to encourage this especially. What are some other avenues for this to happen? Best Practices is a good one
    - xi. She understands that we are looking for a way to get K12 teachers into the conf at a reduced rate. She discussed with Teri on Sunday. They are concerned about 1) the real costs, 2) making sure that regular members don't have to pay more to subsidize the teachers. They are interested in any ideas we have on this
  - c. Liz Parry: Is the draft paper deadline of Jan 8 a done deal since it is right after Christmas and as the semester is starting? There has been concern in other meetings.

- d. Teri: We will be doing a social with Women in Engineering (WIED) and Minorities in Engineering (MIND) next year.
  - e. Michael: Please do not remove the statistics on paper submissions in smoothpaper before the ASEE 2010 conference. He notes this was done this year. She said she would work on this and that it shouldn't be too tough.
- B) NOTE: WE NEED A BIGGER ROOM NEXT YEAR!!!!
- C) Monica Cardella – Purdue – She is putting together a research summit for those who work in Prek-12 engineering ed for the fall of 2010 possibly at Purdue. If you have ideas or thoughts on what should be a part of this, let her know. Flyers and a signup sheet are at the Purdue table in the Exhibit Hall. Trying to bring people together from these communities. They are also preparing to launch a journal for this area (see 15a of the agenda).

### Officer reports

1. Chair Report – Teri Reed-Rhoads
  - a. Up in membership to 728 paying members
  - b. 13<sup>th</sup> largest division out of 50 divisions
  - c. 6<sup>th</sup> division with regard to percentage of women (40%)
  - d. ASEE is 20% women
  - e. Teri will be running the meeting for Mindy who is the new chair.
  - f. Four things this year
    - i. Executive meeting on Sunday
    - ii. Increase quality of papers – data driven papers and teacher partners highlighted
    - iii. Create a best practices slot which Stacy Klein did successfully
    - iv. Bring a teacher Initiative – couldn't quite make it happen
  - g. We want teachers for the whole conference, not just Saturday. We have given many ideas on this. Last year, the board said that we could have 1 day for teachers (a Teacher Day), but it seems like we already do this with our Saturday workshop. The board understands that this isn't what we want. JP has offered to help us try to get support, but that doesn't seem sustainable to Teri.
    - i. One Idea: Would it work for the Saturday session to be on Sunday so that the teacher time is contiguous with the conference?
    - ii. Teri and Jed will continue to work on getting teachers into the conference.
2. Secretary/Treasurer – Susan Walden
  - a. Susan Walden provided minutes from last year.
  - b. Minutes were approved.
  - c. Treasurer:
    - i. Expenses were covering workshops from last year that did not sell enough tickets.
    - ii. Expenses this year: Best practices publication, stipends for teachers on best practices teachers
    - iii. Current \$14168 in BASS account – see current report for more information
  - d. Teri: Paul Klenk is the new Secretary/Treasurer
3. Vice-Chair for ASEE 2009 (Austin Texas, June 14-17, 2009) Programs – Michael DeMiranda
  - a. Thanks everybody for their help in reviewing.

- b. Only 138 abstracts submitted to Pittsburgh – last year
  - c. 189 abstracts submitted this year, each received 3 independent blind reviews
  - d. 102 abstracts were accepted
  - e. 79-80 papers came back as accepted or accepted with changes
  - f. 59 were accepted for publication
  - g. Rigor was something we could be proud of this year
  - h. 21 independent sessions granted including Best Practices Panel, Cosponsoring with WIE and Tech Literacy
  - i. Teri: We are now the largest division in the PIC in terms of abstracts received.
  - j. Susan: There have been about 50 people in each K12 session we have attended and rooms have been oversubscribed
4. Vice-Chair for ASEE 2010 (Louisville, Kentucky, June 20-23, 2010) Programs – John Chen
- a. John Chen was unable to attend.
  - b. New Call for Papers – Michael will work with John Chen and Susan Walden– Call due July 10 - Recs from leadership team:
    - i. Maintain rigor
    - ii. Continue to address teacher constituency through co-writing and co-research
    - iii. New section of call will ask for posters and will be like a curriculum exposition at the same time as the poster session. We will ask for tables so the teachers can show and trade their curriculum.
  - c. Question about Poster session: Will it be during the main conference or on Saturday? Teri says during the main conference.
  - d. Concern: At NSTA, this hasn't worked so well because teachers have been intimidated.
  - e. Teri: We would continue pushing for teachers in partnership with a university to help with this.
  - f. Michael: best practices – teachers presenting with university partners in the front row to help.
  - g. Laura Bottomley: This could be a good venue for students (GK12, REUs, that sort of thing).
  - h. Nonprofits – These groups could show off their work as well. Nonprofits are also a bit intimidated by the research portion.
  - i. Michael: We want to be inclusive and maintain integrity of research proceedings.
  - j. Others agree with the format of bringing people together.
  - k. Samantha: We can have the tables for this special poster session next year. She has already checked since we discussed the idea on Sunday.
5. K-12 Representative – Amber Caicedo (talking because our K12 rep was not there.)
- a. Our K-12 Teacher Rep had to pay to be here and so do the other teachers. It would be good if our K-12 Teacher Rep did not have to pay to attend or her costs could be subsidized in some way.
  - b. Other: We would want a teacher to be here. Could the society give a pass to our K-12 representative teacher?
    - i. Teri: Could we do this out of our operating budget? (we could)
    - ii. Other: It is more significant for the society to adjust its philosophy.
    - iii. Liz: She was on a panel today when some people had free admission to the conference so ASEE does do this sometimes.

- iv. Jed: He thinks the stipend for our K-12 reps would be appropriate, but he said this may be against ASEE policy.
  - v. Jed: We should form a committee to look at if we can do this for next year.
  - vi. Other: We should have a time when we'll move this forward.
  - vii. Susan: We already have a special committee on teacher rates.
6. Communication Coordinator – Vacant
- a. Paul Klenk is current coordinator transitioning from Nancy Shaw. We're looking for a new one.
7. Report from ASEE K-12 Center Workshop – Samantha Murray
- a. She is the new K-12 coordinator for ASEE. Came on board in Nov.
    - i. Former 5<sup>th</sup> grade English teacher.
    - ii. Did K-12 ed research for 4 years.
    - iii. She ran the Saturday teacher workshop.
  - b. Saturday Workshop
    - i. Last year: 119 people
    - ii. This year: 247 people not including staff and some presenters – about 70% of them showed up
    - iii. 44 onsite registrations
    - iv. Number of sessions: We offered a few more sessions with 15-16 total sessions.
    - v. Panels were new feature and seemed to have run pretty well
  - c. Teri: There is an impressive new website from ASEE which Samantha previewed on Saturday called eGFI
  - d. eGFI – Engineering Go For It (eGFI)
    - i. Website will go along with the magazine.
    - ii. Magazine will be digital and on website
    - iii. Teacher newsletter will be folded into the website
    - iv. Geared towards middle and high school students
    - v. Coming out in Sept
    - vi. New classroom poster – Autodesk is sponsoring it - this will definitely go out to Project Lead the Way (PLTW) teachers
8. Special Sessions – Stacy Klein
- a. Stacy ran a Special Session Best Practices Panel this year entitled K-12 University Partnerships.
  - b. This came out of a breakout session from last year's exec meeting.
  - c. She worked with Michael to put a Call for this in November
  - d. 13 applicants in December
  - e. 7 submissions for Elementary, 2 for Middle School, 4 for High School level
  - f. There were blind reviews and a winner was chosen for each grade band.
  - g. Format: Teachers Presented the full partnership with the university
    - i. Each presenter had about 15 minutes
    - ii. Questions for the rest of the time
  - h. Stacy has offered to do it again this year as a K-12 Member at Large.
  - i. Thanks to Stacy for a job well done.

## Committee reports

9. Nominating Committee – Jed Lyons
  - a. Online election this year for officers.
  - b. If you didn't get an e-mail about how to vote, you need to update your e-mail address on the ASEE member website and your division.
  - c. 62 people voted – This seems low with 700 plus members.
  - d. Teri will be in charge of this next year. If there are any volunteers to help her with this next year, let her know.
  
10. Program Committee
  - a. Would you like to work with Michael, Susan, and John?
  - b. Stacy will be on this committee as well.
  
11. Awards Committee – Larry Richards – 2 new ASEE Fellows
  - a. Jed Lyons is a Fellow of ASEE (or he will be after he goes to the dinner on 6/17/09 the day after this meeting).
  - b. Dr. Marilyn Barger is also a Fellow from the K-12 division so we have 2 new Fellows this year.
  - c. Deadline for Fellow nominations is around Feb 15 generally.
  - d. Fellow – Must have 5 letters of support to be nominated and 3 of them must be current Fellows. The Fellow must be aware this is going on.
  - e. We need Fellows to nominate Fellows.
  - f. The K-12 Division should think about nominating a Fellow each year.
  
12. By-laws Committee – Change term of Chair and Secretary/Treasurer to two year rotation
  - a. As outgoing chair, Teri will be the chair of the Bylaws committee and she is looking at the above issue.
  - b. It is a long process to change the bylaws.
  - c. Jed: History – 2-3 years ago, we got new bylaws approved, but the most recently approved bylaws are not on the ASEE website.
  - d. Jed; we need to make sure most recent bylaws are on the ASEE website – Teri will work on that in addition to working on the term change to a two year rotation.
  
13. Special Committee on Teacher Rates at Annual Conference – Jed Lyons
  - a. This was discussed earlier in the meeting when the PIC chair was available. Let Teri know if you would like to help her and Jed on this.
  
14. K-12 Division Representative to ASEE Diversity Taskforce – Laura Bottomley
  - a. ASEE had a statement on diversity from 1999 with action items that were never implemented.
  - b. The new committee has started from that work. They created as broad a definition of diversity as possible and this will all be part of the upcoming report.
  - c. Action items for K12 Division Members:
    - i. Work with WIE and MIE divisions on precollege engineering

- ii. You will be getting a report on all of the action items around August 1. They are looking for input from everybody on this.

## New Business

### 15. Announcements

- a. Purdue University Early Engineering Education Summit/Journal – Monica Cardella
  - i. See above
- b. Potential Visit by JP Moshen – Incoming ASEE President – (Didn't make the meeting)
- c. Inaugural Premier Curriculum Award for K-12 Engineering – Paul Klenk on Behalf of TeachEngineering
  - i. Provided information on the Premier Curriculum award winning institutions (Clarkson University) and finalists (Drexel and Vanderbilt). These were created by teachers with the help of their partner institutions through NSF GK-12 or RET programs.
  - ii. Paul asked for volunteers to review curriculum for TeachEngineering.
  - iii. Laura: Can we get a calibration rubric for TeachEngineering Reviews? Paul said he would look into it.
- d. Liz Parry: Discussed the Upcoming Engineering GK-12 K-12 Student Evaluation Meeting in October
  - i. Started by TeachEngineering
  - ii. About 30 GK-12 awards came to the first meeting in January
    - 1. From the meeting came a discussion about how GK-12 is helping Engineering
    - 2. Al Soyster from Eng Directory and Ping from GK-12 were both there
  - iii. Another session continued this discussion at the GK-12 PI meeting in March
  - iv. Al asked if we would convene a Fall meeting of Parents, administrators, teachers, grad students. GK-12 is currently thinking about the grad students only. Al wants us to do more evaluation on the K-12 student side.
  - v. This next meeting will be Oct 8-9 at NC State in Raleigh, NC.
  - vi. Laura Bottomley and Liz Parry are working on this.
  - vii. There will be a 7am session tomorrow morning (6-17-09) to continue this discussion on the October meeting so if you're interested, please stop by the session.
- e. Teri: There will be an NAE workshop during the first week in July to provide a summary prior to the release of their K-12 Engineering Standards.
  - i. The committee has been working on this for 2 years on these and plans to release them in September.
  - ii. Three questions they would like input on from us which she will send over the listserv.
  - iii. She will give a week to answer the questions and compile the results.
  - iv. We need your input. If you can help with this, let Teri know.
  - v. Samantha: Dean's K-12 Task Force Chair has also been invited.
  - vi. Patty Curtis from the Museum of Science Boston also has a report on where state standards are that will be useful.
- f. K-12 Division Social in 2010 with MIND and WIE
  - i. We will be having a division social next year on Monday evening during the ASEE

- annual conference in Louisville in cooperation with MIND and WIE.
  - ii. We are waiting on cost info from the others.
  - g. Neal Hussler: PI Family Engineering for Families, Children, and their Parents
    - i. Let us know about his program developing activities for informal settings like family engineering nights
    - ii. Piloted it this past spring
    - iii. Facilitator training in January or so. Let him know or check the website if you're interested in coming to the training.
  - h. Jed: Did we give a best paper award this year?
    - i. Teri: We don't know.
    - ii. We need to make sure that we do this.
    - iii. Marion Ussleman did win best PIC paper for PIC IV from our division.
  - i. Institutional Memory Question:
    - i. Eric Heiselt: What has this committee done to work with NCTM? He hasn't seen anybody from engineering at NSTA either.
    - ii. It's hard to go to NSTA as a university educator.
    - iii. NSTA is interested in putting the E back in STEM.
    - iv. Teri: Several K-12 groups have been able to get sessions with their teachers.
    - v. Teri: Could we get an engineering row in the exhibits parts? We would need something like 15-20 groups to do this.
    - vi. Laura nominated Eric and Teri and Liz and Susan Giver Nelson said she'd help.
    - vii. He suggested working with NSTA, NCTM reps and especially gifted reps.
    - viii. Charge for Ad Hoc Committee: Work with members of the division to establish a presence at NSTA and NCTM.
16. Meeting adjourned. The next K-12 Division Meeting will be held at ASEE 2010, Louisville, Kentucky. Tuesday, June 22, 4:30 to 6:00 pm, location to be announced.

## **Volunteers:**

Committee to Approach NSTA and/or NCTM Volunteers

Eric Heiselt

Mercedes McKay

Dawna Schultz

Susan Giver Nelson

Who wants to head this up?