

## K-12 & Pre-College Division Business Meeting

June 11, 2012

Minutes recorded by Monica Cardella (first 2 pages) & Susan Walden (remaining 3 pages)

Attendees listed on the last page

### Introductory Comments

- goal: getting members involved
- don't leave without getting your pin!
- Like the Facebook page
- Tweets on aseek-12division
- Aseek12division@gmail.com

### Meeting

- I. Elections
  - a. Only 100 people voted, out of ~750 members – want to increase participation of members in voting
    - i. Also want to engage members in the other work we are doing (to tap into member expertise & to get the work done)
    - ii. K-12 is probably the strongest focus area among ASEE's strategic focus areas
  - b. Members rotating of the Executive Board
    - i. Susan Pruet: K-12 representative
    - ii. Chris Schnittka: member at large
      1. Working on leading a committee to catalog the expertise of the division so that we can identify appropriate people to lead/be involved in initiatives
    - iii. Paul Klenk: secretary-treasurer
    - iv. Laura Bottomly: helped establish the division 9 years ago
  - c. Members changing position on the Board
    - i. Monica Cardella: was member at large; now secretary-treasurer
  - d. Members elected to the Board
    - i. David Heil: member at large
    - ii. Mary Phelps: member at large
    - iii. Darcy Richardson: K-12 representative
      1. Note: problem of teacher registration fee, prohibitive for K-12 teachers
- II. Updates on liasing with ASEE headquarters, NAE
  1. Increased partnership / liase with ASEE headquarters – so that when something K-12 related comes to headquarters, they turn to the K-12 division

2. making sure that ASEE headquarters is able to make informed decisions about K-12 issues
  3. {name?} work with educating deans about K-12
  4. representing us at National Academy of Engineering meetings
- III. One-pager
- a. Take copies so that you can share with colleagues, administrators, etc. about the work you are involved in
- IV. Reception with MIND and Women in Engineering tonight
- a. LIGHT refreshments
  - b. Drink tickets; cash bar after the tickets
- V. Curriculum exchange tomorrow night
- VI. Best Paper
- a. All papers go through the same review process
  - b. After a few papers have been nominated for “best paper,” those papers are further reviewed by a committee chaired by Larry Richards
  - c. Awarded tonight at the reception
    - i. Mindy Zarske: thesis research! Looked at developing identity & developing interest in engineering of high school students engaged in client-based community service projects
    - ii. Wednesday 4-5:30 Room 203A
- VII. Agenda determined based survey of membership: what do members want to know about
- VIII. Motion: approve the minutes as distributed to the membership
- a. Motion unanimously approved
- IX. K-12 Workshop (Stacy Klein-Gardner)
- a. Record attendance: 303 participants; % of teachers was up
    - i. Industry folks, university professors , grad students also attended
  - b. 57 unique workshops presented over 4 time slots
    - i. Approx. 50% of proposals were accepted
    - ii. Each proposal reviewed by 2 reviewers; all authors received reviews
    - iii. Possibility of too many different sessions at the same time – although attendance was high, rooms still weren’t very full
  - c. Satisfaction high
  - d. Walmart sponsored lunch
  - e. Ran out of programs; might need to better predict
  - f. Libby Martin recognized for her work on the workshops
  - g. K-12 workshops at regional ASEE conferences?
    - i. Norman is interested in this too (major concern is expense); looking to see how to use university structures to support this; also looking at how to connect with NSTA
      1. NSTA regionals (Louisville, Phoenix, Atlanta) will have an “engineering day”

- h. First year that teachers needed to pay
  - i. High school teacher: registration fee was reasonable
  - ii. price point good as teachers don't have to go through red tape.
  - iii. About 100 on-site
- i. More elementary school teachers than ever before; roughly equal middle and high school teachers

*{Susan Walden began recording minutes at this point}*

- X. Program chair report –
  - a. 177 abstracts, 98 papers
    - i. This year's process, cut at abstract
    - ii. 18 didn't submit paper and 25 withdrew
  - b. Needed more reviewers, volunteer!
    - i. Watch for monolith emails
  - c. We get disparate reviews and two types of papers - data driven research & program descriptions that need to include assessment or evaluation. We serve multiple constituencies that do not all have the same writing styles or skills - research faculty, teachers, graduate students. We want data in our papers, but also want value. Please don't say accept can't wait to see, you are only 1 of 3 reviewers.
  - d. Susan D. - please give us feedback & input
  - e. Research to practice - mainly university driven, important piece, but not only one
  - f. Practice - please not "I had 30 girls for a week didn't know about engineering before, but left loving it"
  - g. Works in progress - different from FIE, if you have preliminary data that you want to get out for conversation, WiP or poster might be way to go
  - h. Publish your failures so we know what not to do! We want to take seeds and grow them, but keep in mind that measures of success in r-1 are very different in k12 world. It's ok to reject, but tell what they can do to make it stronger
  - i. Encourage people to read the division's body of work
- XI. Treasurer's Report – Paul Klenk
  - a. Budget was roughly \$5000 for FY11 and that's what we spent. During FY11, total dues were \$4277. Along with our operating account of \$744, that gave us a total of about \$5000 to spend. Roughly, that went to \$3000 in BPP honorariums, \$1350 for the social, and the rest to various other expenses.
  - b. During FY11, we started with \$14,808.63 and ended with \$14,915. (Note: The actual account shows \$1571.77 more because there were expenses that should have hit in FY10 that didn't hit until FY11).
  - c. Dues for first 6 months of FY12 (Oct-March) were \$2345. Last year, they were \$2240 for the same period (about the same).
- XII. Next gen -

We have opportunity to have input on the engineering parts in the standards. In July, supposed to be private draft going to critical stakeholders. ASEE is now in that group. Public release after election.

Martha Cyr on state review committee. As one of 26, nice but as 1st state with engineering standards, highly invested. It is an improvement, but still behind MA. If we were to adopt next gen, it would be a step backwards. What I like, have taken core ideas in different topic areas, then have science and engineering concepts that fit and then separately I'd the cross cutting ideas that apply to many.

At HS, have physics and Chemistry combined. Most are worried about how to assess. Important that individuals even not on the state committee, go to and look at the part you are an expert in and give feedback!

Bruce Wellman - on lead team for engineering - major change from 2nd round to 3rd - engineering is in greatest flux. Finally on the table that engineering is different than science. Elementary & middle school teachers are now looking for PD. Driven by governors, not federally driven. Also he is a fellow at dept. of education.

Sally Pardue is on committee in TN. Did not get much feedback or input from teachers. Suggest that people get in touch with engineering societies now to get people started on reviewing.

Please read the emails that come from the division. Stacy will be soliciting feedback from members for the ASEE position.

Look at how the math standards process went. As read the standards, keep in mind that these are public documents.

### XIII. P.K. Imbrie: PIC report

- a. Both dues and conference registration fees will be going up. Fiscal status poor. Wants to get closer to even.
  - i. Susan D. adds - fee change not made in vacuum, asee out of line with other societies, May be a new membership class opt out of all printed material
  - ii. from now on, every paper must be accompanied by a full registration fee.
- b. No session evaluations, no one was using. Continue to do counts
- c. No picnic, new division mixer - can they spread the tables out more
- d. This last year, PIC special funding last year, 6 submissions awarded; not sure if continuing the process
- e. Best paper competition - each pic will pull together committee to review best paper nomination. If more than one comes in from division, they won't review any. The best from pics will be reviewed for overall best paper.
- f. New editor of JEE, Michael Louie From U of Illinois

- g. Want feedback for what you get in paper that don't need, and what member stuff you can do without - email aseek12division
  - h. Look for new materials from diversity committee
  - i. Send back - how can ase lower cost of conference rather than raise fees
- XIV. Martha / Liz - where we came from, where we want to go
- a. Back at the beginning, we all sat in our discipline divisions, but cared about k12 space and presented on that. We decided we should have our own division and the others wanted us out.
  - b. A couple of strategic things –
    - i. Please think about this and email me - are the Wednesday updates good if not email me
    - ii. One goal for last year establish division as center of competency for k12 engineering. We have some marketing to do. We need to find a way to let people know that we are primarily engineers, using our engineering skills in a different space and effectively!
    - iii. We are working on what and how to collect data to quantify our impact.
    - iv. Well on road to C of Comptency. I see members presenting at NSTA, NCTM, etc. if you are active in one of these parallel organizations we need to know. We need to be marketing the division from within those organizations. Please consider this when Chris contacts you.
    - v. In 5 years, want to see us a player, when people invite NSTA or NCTM to a conversation, we want ase k12 as imperative in that list.
    - vi. Also the promotion and tenure issue for those of you in that position and who work in k12 space or education.
    - vii. We are asking for this information, not to justify, but to explain.
- XV. Other Conferences
- a. C. Cunningham - NARST - has started to understand that engineering has a place and AERA has a new engineering education division
- XVI. AREE - special issue, overwhelming response, editor will now accept K12 papers for regular issues.

In Attendance

Paul Klenk  
 Steve O'Brien  
 Susan Walden  
 Monica Cardella  
 Anne Spence

Stacy Klein-Gardner  
Chris Schnittka  
Ayora Berry  
Brent Houchens  
Chris Hartmann  
Eugene Rutz  
John Carpinelli  
Karen High  
John Vadnal  
Kristin Sargianis  
Christine Cunningham  
Sharlene Yang  
Bruce Wellman  
Rod Custer  
Eugene F. Brown  
Mary Beth Damm  
Tracey Collins  
Lisa Marshall  
Beth Todd  
Sally Pardue  
Devdas Pai  
Heather Isernhagen  
Liesl Hotaling  
Bryan Bilyeu  
Melissa Dean  
Susan Pruet  
Mindy Zarske  
Ken Hunter  
Pam Lottero-Perdue  
Taryn Bales  
Michael Piccione  
Larry G Richards  
Darryll Pines  
Mary Phelps  
David Heil  
Tamara Moore  
Deborah Besser  
Bradley Bowen  
Libby Martin  
Roger Tormoehlen  
Jeremy Ernst  
Teri Reed-Rhoads  
Marth Cyr  
Susan Donahue  
Liz Parry  
Laura Bottomley