

American Society for Engineering Education



Chemical Engineering Division

Summer Division Business Meeting Minutes

Tuesday, June 22, 2010 – 12:30-2:00 Louisville, KY
Kentucky International Convention Center, 105

The agenda for the meeting included officer's reports which are attached to these minutes.

Attendees: Baba Abdul (Washington State), Mark Anklam (Rose-Hulman), Taryn Bayles (Maryland-Baltimore County), Ramesh Chawla (Howard), Jennifer Cole (Northwestern), Stephanie Farrell (Rowan), Arthur Felse (Northwestern), Tamara Floyd Smith (Tuskegee), Laura Ford (Tulsa), Paul Golter (Washington State), Hossein Hariri (Rose-Hulman), Allen Hersel (Trine), Fred Justice (Chemstations), Jason Keith (Michigan Tech), Milo Koretsky (Oregon State), Randy Lewis (Brigham Young), Marshall Lih (NSF), Norman Loney (NJIT), Thomas R. Marrero (Missouri), Adrienne Minerick (Michigan Tech), Christi Patton Luks (Tulsa), Michel Perrier (Ecole Polytechnique Montreal), Anton Pintar (Michigan Tech), Peyton Richmond (Lamar), Joe Shaeiwitz (West Virginia), David Silverstein (Kentucky), Becky Toghiani (Mississippi State), Bernard Van Wie (Washington State), Donald Visco (Tennessee Tech), Jim Watters (Louisville), Lale Yurttas (Texas A&M), and Richard Zollars (Washington State)

- A. Welcome – **Randy Lewis**: everyone present introduced himself
- B. Introduction of New Officers:
 - Chair: **Margot Vigeant**
 - Chair-Elect: **Stephanie Farrell**
 - Secretary/Treasurer: **Laura Ford**
 - Directors: **Taryn Bayles, Michael Prudich**
 - Webmaster: **David Silverstein**
 - Newsletter Editor: **Adrienne Minerick**
 - 2011 Program Chair: **Adrienne Minerick**
 - Awards: **Valerie Young/Jason Keith**
 - Archives: **Joe Shaeiwitz**
- C. Brief Review of Reports – **Randy Lewis**
 - Webmaster: the forum will be archived and closed
 - Program Chair: Publish-to-present policy seems to reduce the number of papers at the conference
- D. Newsletter needs- **Adrienne Minerick**

Adrienne asked for volunteers to write session summaries for the newsletters. Maybe in the future session moderators can do this job. She is also interested in guest articles and spotlighting abstracts from *Chemical Engineering Education*.

- E. Report on 2010-11 Goals:
- New Awards- **Jason Keith**: we have 3 new awards designed to encourage new people to get involved.
 - Chemistry and new faculty interaction- **Taryn Bayles**: Some of this work was combined with part E.a. Taryn sends the newsletter to Summer School attendees who are not division members (47 out of 120). Contact with chemistry education people has been harder. Please send Taryn contacts if you have them.
 - Involvement in section meetings- **Adrienne Minerick**: Section meetings have a different audience. See report for more information.
 - Optimization of exec/business meetings- **Randy Lewis**: The executive committee held conference calls during the year, and the reports attached to the agenda are part of our effort to streamline the business meeting.
- F. 2011 Program Chair Needs (Vancouver, BC)- **Adrienne Minerick**
- A sheet was circulated to collect names of those interested in moderating or organizing a session or just ideas for sessions, but that sheet did not return to Adrienne at the end of the meeting. Please contact Adrienne if you are willing to help.
 - Current session ideas are safety and unit operations.
 - Maybe we could do more “best practices” sessions with less emphasis on assessment.
 - Please contact Adrienne with workshop suggestions or nominations for the lectureship.
- G. Professional Interest Council representatives: Stephanie Adams (incoming) and Jessica Matson (outgoing). The PIC representatives responded to issues.
- Panel discussions are allowed with a 2-page abstract of biographical sketches of the panelists.
 - There is not a recommended paper length, and each division sets its own review criteria.
 - Room allocation for the conference did not make sense. The Executive Committee meeting was held in a very large room, and technical sessions and the Business Meeting were held in the same room with the same table setup. Technical sessions on Monday were in a small room.
 - There will be a reallocation of operating budgets based on June membership.
 - There will be Requests for Proposals in September and January to apply for honorarium or other things.
 - The Monolith system will replace SmoothPaper.
 - Is it possible to go back to abstract-only for posters? Attendance at the conference has several things against it for new faculty: cost, publish-to-present, not counted toward tenure. PIC representative didn't see a panel as limiting to new faculty. PIC will look for other ideas.
- H. Minutes from the June 2009 Business Meeting were approved.
- I. A moment of silence was held in memory of chemical engineering faculty members who died in the past year: Herbert Katz (Howard University), James M. Lee (Washington State), Robert Luedeking (Washington State), George Roberts (N.C. State), Bill Hall (Mississippi State), and Earl Gerhard (Louisville).
- J. 2012 Summer School – **Joe Shaeiwitz/Randy Lewis**
- Brief review: Joe distributed the attached flyer. The topics on the flyer are the top requests from new professors. Please let new faculty know about the summer school. The schedule has more time for outdoor activities, socialization, or relaxing than in previous years.
 - Ideas and volunteers:
 - Joe will be soliciting ideas for workshops next year. Some may not be offered at all, and some may be offered twice, depending on attendees' interests.

- NSF is interested in continuing support. The international aspect for this summer school will be helpful in getting NSF support, and ethics might help with support, too. We need to get our proposal in early enough that we can put the NSF logo on promotional materials.
 - Joe is interested in ideas for dual-career families – watch for an email message.
- c. A history of the summer school has been collected, and five or six of the resulting books will be published. The rest will be available on CD. All of the ASEE Divisions had summer school, but ours is the only one left. We are different because we have industrial support.
- K. Discuss new goals from exec meeting. Additional ideas for 2010-11 goals
- a. Angie Perna's suggestions: Resurrect the old Chemical Engineering Education column from researchers on "why I am an ASEE member". Encourage people to come to the conference. We need to convince people that the papers in the proceedings are reviewed.
 - b. ASEE national membership has dropped 8%, with a 3% drop in just the last two months. Maybe this is connected to Publish-to-Present, so maybe the national office will start listening to our concern.
 - c. Fred Justice: Has the ASEE board done a benchmarking study on membership in different divisions over time? Are there any trends? This could help find "best practices" in successful divisions for other divisions to follow.
 - d. Let new faculty know that the panel discussions we'll be sponsoring as sessions are not just for more senior faculty.
 - e. Increasing the number of papers: Can we be more flexible (forgiving a 1-day delay) with the deadlines?
 - f. Increasing banquet attendance
 - g. Increasing the involvement of chemistry faculty
 - h. Discounts for national when you attend a regional meeting
- L. Acting for Margot, Laura presented Randy a plaque thanking him for his leadership.
- M. Adjourn at 1:38: Randy ended the meeting with two quotes on enjoying life.

Treasurer's Report (Laura Ford)

BASS Account total reported June, 2009 **\$24,841.16**

Credits

Interest (3 rd Quarter 2009 through 2 nd Quarter 2010)	\$106.34
Dues (3 rd Quarter 2009 through 2 nd Quarter 2010)	\$1564.00
2009 Banquet Income	\$2,050.00
Correction: AV charges, session 2113	\$65.00
Award Sponsorships (Eastman, Chemstations, and CACHE)	\$7200.00
Total Credits	\$10,985.34

Debits

2009 Banquet	\$2,387.26
Lectureship travel reimbursement	\$500.00
Appreciation plaques	\$261.22
AV charges, session 2113 (disputed)	\$65.00
Conference call	\$36.22
2010 Banquet Deposit	\$950.00
Award Honoraria	\$6000.00
Total Debits	\$10,199.97

Total BASS Account (June 2010) **\$25,626.80**

Operating Account total reported June 2009 **\$0.00**

Credits

Allocation	\$862.00
Total Credits	\$862.00

Debits

Conference call	\$49.04
Plaques	\$704.35
Total Debits	\$753.39

Total Operating Account (June 2010) **\$108.61**

Election Report (Laura Ford)

Elections were held from March 16 to April 16, 2010. Stephanie Farrell was elected to chair-elect, and Michael Prudich was elected to Director. 102 total votes were received, but only 85 of these were valid due to duplicated votes and other irregularities. This is an improvement over 58 votes in 2009 and 47 votes in 2008. Email reminders every two weeks generated votes, including some of the duplicates, and should be continued in future elections.

Newsletter Report (Adrienne Minerick)

A. Summary of articles / topics:

1. **SPRING:** Message from the Chair (5 goals for the year / Annual meeting / summer school); Elections including all candidates Bio's; Updates on the division initiatives; Summer school update; Program for the Annual Meeting
2. **FALL:** Message from the Chair (Goals for the next year); Awards (Summary of winners at the division level and national level); Call for nominations for Awards (In 2010, Include call for nominations for fellow); Perspective article on Annual meeting? (in 2008, but not 2009); News: Summer School update; Call for Papers; By-laws changes

B. Topics to be included in future newsletters:

1. Follow up on inclusion of session summaries in the newsletter.
 - a. *Joint effort from the chairs (soliciting summaries right now)*
2. Guest articles
3. Feature Chemical Engineering Education articles (and vice versa to improve this relationship)
 - a. Need recommended features.

C. Increased circulation may help increase membership:

1. Send to department heads in both chemistry and chemical engineering?
2. Print copies and send to new faculty in both chemistry and chemical engineering?
3. Feature at the Summer School?
4. Circulate to regional meetings – include paper copies in program book or ask that it be included on electronic distributions (CDs, etc.)

Webmaster Report (David Silverstein)

The Division website is currently up to date and functioning without any known issues. Recent improvements include addition of an Officer's Resources page which includes the minutes from Division meetings. A student continues to be paid \$1000/yr to assist in keeping the site up to date. Most of the work on the site takes place following the annual meeting when officer and awards pages are updated, with additional work in the fall to support the award nomination process. The Division website currently hosts a Discussion Forum on ChE Education. This Forum was started in 2005 and was fairly active through 2007. Since then it has had very little traffic. Question for discussion: should the Forum be archived and removed from the website?

Membership Report (Allen Hersel)

Total good-standing members: 564 (2009 we had 573)

Number of New* members: (April 09 – April 10): 139

*New does not necessarily mean their first time in ASEE, may have let their membership lapse.

About 400 members keep their membership every year.

Around 80 faculty let their membership laps every year. The same number reactivate About 20 new faculty a year is my estimation...looking mostly at rank.

Around 100 are Non-PhD members and they change year by year. These changes make the difference.

In other words, of the 139 new member (approx numbers):

80 are past faculty members, 20 are new faculty, 39 are the Non-PhD members - tend to only be active one year.

Awards Report (Jason Keith)

The division proudly announces its 2010 awards winners:

Lifetime Achievement Award: none awarded
William H. Corcoran Award: Donald Woods and Heather Sheardown
Ray W. Fahien Award: Lisa Bullard
CACHE Award: Duncan Mellichamp
Division Lectureship Award: Frank Doyle
Joseph J. Martin Award: Phil Wankat
Best Poster Award: no poster session in 2009

The division also gratefully acknowledges the continued support of Chemstations (Lectureship Award), Eastman Chemical (Corcoran Award), and CACHE (CACHE Award).

The selection committees were all very impressed with the quality of the nominees and pleased with the winners, but noted concerns about the low number of total nominees. All division members are encouraged to nominate colleagues next year.

Lifetime Achievement Award: recognizes a sustained career of pedagogical scholarship that not only caused innovative and substantial changes, but also inspired younger educators to new behaviors that benefit students in Chemical Engineering.

CACHE Award: presented for significant contributions in the development of computer aids for chemical engineering education.

Ray W. Fahien Award: given to an educator in the first ten years of his/her professorial career who has shown evidence of vision and contribution to chemical engineering education.

Lectureship Award: presented to a distinguished engineering educator to recognize and to encourage outstanding achievement in an important field of fundamental chemical engineering theory or practice.

Please also note new awards for 2011 that were recently approved by the division.

ChE Division Graduate Student “Future Faculty” Grant: eligibility includes all current graduate students in a chemical engineering or related program; must be nominated by a faculty member who is a member of ASEE.

ChE Division Mentoring and Travel Grant for New Attendees: Eligibility includes all chemical engineering or chemistry faculty who have not attended an ASEE Annual Conference.

ChE Division “Engineering Education” Mentoring Grant: Eligibility includes all chemical engineering or chemistry faculty who have not attended an ASEE Annual Conference in the past five years.

More information on these new awards is available at:
<http://www.engr.uky.edu/~aseeched/resources.html> and then clicking on New Awards.

2010 Program Chair Report (Michael Prudich)

- (1) The ChE division Call for Papers was sent out during July 2009. Thirty (30) individual abstracts were received representing the work of 28 different authors.
- (2) The thirty abstracts yielded twenty-four (24) draft paper submissions. Of the eight (8) abstracts that did not yield a manuscript, two (2) were formally withdrawn with the remaining six (6) being simply abandoned.
- (3) The twenty-four draft paper submissions yielded twenty-two (22) final paper submissions. These papers will be presented in five (5) chemical engineering division technical sessions.
- (4) There will be no chemical engineering division poster session in 2010. (We also did not have one in 2009.)
- (5) The SmoothPaper system is neither “smooth,” nor “paper.”

- (6) The Martin Award Committee (Mike Prudich, Laura Ford, Adrienne Minerick) has been assembled and candidate papers have been distributed. Don Visco was originally to have been a member of this committee (as past division chair), but needed to be replaced due to a conflict of interest. Thanks to Adrienne for agreeing to be the replacement.
- (7) I would like to thank the forty-two (42) abstract/paper reviewers and ten (10) session chairs that have helped make the chemical engineering division program possible.

2011 Program Chair Report (Adrienne Minerick)

- A. Call for Papers tends to be broad and passive.
 - a. **Can we increase contributions by recruiting chairs now to encourage contributions for specific topics?**
 - a. Unit Operations Laboratory Bazaar led by Michael Prudich.
 - i. "People teaching unit operations laboratory would submit poster papers describing various aspects of their experiments. Sort of a "steal this course" for unit operations experiments. I would prepare a style sheet so that the submitters would more-or-less share a common set of information. This would be specifically aimed at the poster session."
 - b. Brainstorm ideas / solicit volunteers
- B. Schedule (2009 – 2010 shown here, dates will change slightly for 2010-2011)
 - a. **July – Oct. 9: Call for Papers is out (Advertise heavily here)**
 - b. SEPT. 8 – OCT. 9, 2009 Abstract Submission Process Open
 - c. Review abstracts; DEC. 4, 2009 Abstract Accept or Reject Decisions Deadline
 - d. DEC. 7, - JAN. 8, 2010 Draft Paper Submission Process Open
 - e. Review papers; FEB. 26, 2010 Draft Paper Decision Deadline
 - f. FEB.26 – MARCH 12, 2010 Final Paper Submission Process Open
 - g. MARCH 26 - APRIL 9, 2010 Final Paper Decisions
 - h. APRIL 14, 2010 Author Registration Deadline Proceedings Fees/Copyright Transfers Due
 - i. APRIL 23, 2010 All accepted papers will be assigned to sessions by this date.
- C. **Workshops** (2009 – 2010 shown here, dates will change slightly for 2010-2011)
 - a. Submission Deadline: October 16, 2009
 - b. Notification Deadline: December 4, 2009
 - c. Division Ticket Information Deadline: January 6, 2010
 - d. Workshop Final Details Deadline March 12, 2010
 - e. Workshop Cancellation Deadline April 9, 2010
 - f. Workshop Date June 20, 2010
- D. **Distinguished Lecture Nomination** (2009 – 2010 shown here, dates will change 2010-2011)
 - a. Submission Deadline: October 16, 2009
 - b. Notification Deadline: December 4, 2009
 - c. Final Program Details Deadline March 12, 2010

Summer School Report (Joe Shaeiwitz)

The next Chemical Engineering Summer School will be held on July 21-26, 2012, at the University of Maine in Orono, Maine.

Rich Felder and Rebecca Brent have agreed to present a one-day teaching workshop on Saturday, July 21. There is also tentative agreement for team, probably Karl Smith and Ruth Streveler, to present a workshop(s) on how to perform engineering education research. At this time, no other session topics have been identified. We will begin to identify workshop topics at a later date. A letter was sent out to 19 international faculty members to gauge their interest in participating in the summer school. Ten responses were received indicating interest in participating. A letter was also sent out to 471 assistant professors and 149 department chairs announcing the summer school. Some department chairs indicated an interest in sending multiple participants, so we need to develop a policy for charging them, assuming that we do not raise sufficient funds. About 50 responses indicating interest in participating have been received thus far.

Chemistry and New Faculty Interaction Report (Allen Herschel, Don Visco and Taryn Bayles)

Each committee member contacted Chemistry faculty members at our home institutions to establish contacts to the education division of the American Chemical Society. None of us were successful in finding Chemistry faculty members who are members of the ACS Division of Chemical Education. We are still working on establishing these contacts so that we can invite their membership to future ASEE meetings.

In an effort to reach out to junior Chemical Engineering faculty members who are not members of the ASEE CHE Division, the committee sent emails to faculty members who attended the 2007 ASEE Chemical Engineering Summer School, who have not joined ASEE and the CHE Division. Forty-seven faculty members were contacted inviting them to join us at the annual meeting and were provided a copy of the 2010 Spring Newsletter. Follow-up emails were also sent.

Our committee worked with Jason Keith (Awards Committee) to draft the New CHED Mentoring and Travel Grants. The subcommittee felt that establishing a variety of small grants would have the greatest potential at increasing our membership. The new mentoring and travel grants include grants for Graduate Student – ‘Future Faculty’, New Attendees (chemical engineering or chemistry faculty who have not attended an ASEE annual conference) and Engineering Education mentoring grant for chemical engineering or chemistry faculty who have not attended an ASEE annual conference in the past five years. Our sincere gratitude is extended to Jason Keith for his diligence and guidance in establishing these grants.

Involvement in Sections Meeting Report (Adrienne Minerick)

- A. History: 1. Volunteers solicited during ASEE ChED business meeting at AIChE 2008, 2. Survey invitation included with Spring 2009 Newsletter - Yielded ~10 responses, 3. Survey invitation via ChED list serv - Yielded ~90 responses
 - a. Conclusions from survey:
 1. Time and money are the two most important factors that prevent people from attending the section meetings.
 2. Streamlining information flow would help.
 3. Personal contact to encourage enrollment.
- B. Teleconference held 25 Feb 2010 with confirmed liaisons to 1) identify best practices at the regional level and 2) recommend strategies to be implemented in the next year.
 - a. Best Practices:
 1. The Northeast region is good at involving undergraduate students via competitions.
 - b. Strategies to be implemented:
 1. Coordinate workshops between the national and regional meetings. Advertise with 2-year institutions to do an NSF workshop on grant writing for educational proposals.
 2. Promote the cross-disciplinary aspects of regional meetings.
 3. Enhance communication to identify best regional / zone papers of interest to chemical engineers. Sponsor a session at national meeting with these contributions.
 4. Could target zone meetings instead of regional meetings – our resources wouldn't be spread so thin.
 - c. The real issue is that regional and national meetings have different audiences. Technology programs tend to go to regional meetings while full chemical engineering programs go to nationals. Bottom line is that welcoming people from regional meetings to national is a good idea, but developing a grassroots regional chemical engineering effort will be very hard with minimal returns. Sharing ideas between levels, involving students, and making efforts to communicate from the national level to the regional will be the most effective.
- C. Schedule of section meetings and contact person: (Update information by going here: <http://www.asee.org/activities/organizations/sections/index.cfm>)

Zone / Section	Meeting Dates	Location	Website	Contact	National Liaison (confirmed)
Zone I	Last held in 2008		http://www.west-point.org/academy/aseez1c/	COL B. Grant Crawford Bobby.Crawford@usma.edu	Stephanie Farrell, Rowan
Northeast	May 7, 2010 - May 8, 2010	Wentworth Institute of Technology, Boston, MA	http://acamedics.com/conferences/aseene/index.php/aseene/asee2010/	Dr Sandeep Dilwali at dilwalis@wit.edu	David DiBiasio, WPI
St. Lawrence Section	March 26-27, 2010	Rochester Institute of Technology, New York	http://stl.asee.org/events.html	Joan V. Dannenhoffer (Section Chair) dannenvj@morrisville.edu	
Mid-Atlantic	April 16 - 17, 2010	Lafayette College, Easton, PA	http://sites.lafayette.edu/asee2010/	Dr. Javad Tavakoli, tavakoli@lafayette.edu	Stephanie Farrell, Rowan
Zone II	not held?				
Southeastern	April 18-20, 2010	Virginia Polytechnic Institute & State U.	http://155.225.14.146/asee-se/Default.htm	Keith Plemmons keith.plemmons@citadel.edu	David Silverstein, U. Kentucky-Paducah
North Central	March 26 - 27, 2010	U. of Pittsburgh	http://www.asee-ncsection.org/	Dan Budny budny@pitt.edu	
Illinois-Indiana	April 9-10, 2010	Purdue U, West Lafayette, IN	http://ilin.asee.org/	Sauer, Sharon G. Sauer@rose-hulman.edu	
Zone III	not held?				
Midwest	September 22 - 24, 2010	University of Kansas, Lawrence Kansas	http://www.continuingeducation.ku.edu/programs/asee	Francis Thomas (Francis@ku.edu)	Sundar Madihally & Laura Ford, & Keith Hohn Kansas State
North Midwest	October 21-23, 2010	Minnesota State University, Mankato	http://www.ndsu.nodak.edu/asee/	Abulkhair Masoom masoom@uwplatt.edu	Jason Keith, Michigan Tech
Gulf Southwest	March 24 - 26, 2010	McNeese State University, Lake Charles, LA	http://www.aseegsw.org/	Dr. Nikos Kiritsis nikos@mcneese.edu	Lale Yurttas, Texas A&M
Zone IV	March 25-27, 2010	Univ. of Nevada - Reno, Reno, NV	http://web.me.unr.edu/asee2010/	Dr. Brian Self bself@calpoly.edu	
Pacific Northwest	?	?			Richard Zollars
Pacific Southwest	?	?	http://www.csupomona.edu/~sparisay/ASEE/PWSW/	Macedo, Jose A. jmacedo@calpoly.edu	
Rocky Mountain	?	Utah?	http://ceeps.colostate-pueblo.edu/ConferencesContestsGrants/RMS/Pages/RMS.aspx	Jackson, Justin justinjackson@weber.edu	



ASEE Chemical Engineering Division

Summer School



July 21-27, 2012
University of Maine
Orono, ME

Highlights:

- *Teaching Effectiveness Workshop by **Rich Felder and Rebecca Brent***
- *Chemstations, Inc., Award Lecture*
- *International participation*
- *Family-oriented activities*

Tentative workshop topics:

- *Engineering education research*
- *Course content, especially in emerging areas*
- *Teaching skills*
Active learning, PBL, instructional technology
- *Career development*
- *Assessment*
- *Design*
- *Laboratory*

The ASEE ChE summer school consists of hands-on workshops instead of lectures. Each ChE program in the U.S. will be able to nominate one participant, preferably an early-career faculty member, whose local expenses will be covered. Additional participants from a program may attend depending on availability of funding. Some travel expenses may be covered depending on availability of funding.

Organizing Committee:

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