

# American Society for Engineering Education



## Chemical Engineering Division

---

### *Summer Executive Committee Meeting* Minutes

Monday, June 21, 2010 – 7:00-8:15 Louisville, KY  
Kentucky International Convention Center, 207

Attendees: Taryn Bayles, Stephanie Farrell, Laura Ford, Allen Hersel, Jason Keith, Adrienne Minerick, Joe Shaeiwitz, David Silverstein, Margot Vigeant (via phone), Don Visco, Phil Wankat, and Jim Watters

Written reports were submitted in advance. These were attached to the agenda and are included in these minutes.

- A. Welcome – **Randy Lewis** Since Randy's flight was delayed, Don Visco ran the meeting instead.
- B. Brief Reports and follow-up on past assignments
  - a. Secretary/Treasurer- **Laura Ford**
    - Budget: Budget report was approved.
    - Minutes from February conference call were approved.
    - Minutes from May conference call were approved.
  - b. Newsletter– **Adrienne Minerick**
    - Due to a flight cancellation, Adrienne had not arrived at this point in the meeting, so only the written report on page 4 was given.
  - c. Website – **David Silverstein**
    - Is the forum worth maintaining? The forum received traffic in its first year or so, but not much in the past two years. Maintaining the forum does require some work. We can keep a static version so all posted material is still available. David proposed removing the forum, and the committee had no objection.
  - d. Membership- **Allen Hersel**
    - Allen distributed a membership report which is included at the end of the minutes. Membership has been relatively static since about 2003, which might be when dues were enacted. Maybe we should consider paying dues for the Summer School participants for a period of time.
  - e. Awards- **Jason Keith/Valerie Young**
    - Goal: Enhance recognition of ASEE members
    - Soliciting awards (e.g. Lifetime Achievement): There were no Lifetime Achievement nominations this year. The earliest deadline for nomination for any award is the abstract submission deadline. We may suggest application for the new awards if we get an abstract from a potential applicant. We don't think we need approval from national for the new awards. We aren't sure if they are listed on the national website, but Jason will check [they are there, July 14, 2010].

- f. Archives- **Joe Shaeiwitz**: The archives are up-to-date.
- g. 2010 Program Chair Report- **Michael Prudich**
- Mike's father's funeral will be Tuesday, June 22, so Mike will not be at the conference.
  - Jim Watters, local arrangements chair, reported that we have 34 signed up for the banquet. A meeting time and place was decided on for rides to the banquet, and directions were given. These need to be announced at sessions. Dinner will be at 7:00 with awards at 8:00 and a video after that.
  - Phil Wankat, liaison for *Chemical Engineering Education*, said that they will publish proceedings from the conference if they are beefed up. The proceedings will need to go through the normal review process.
- h. 2011 Program Chair Report (Vancouver, BC)- **Adrienne Minerick** Adrienne was able to join us by this time.
- Adrienne plans to attend the program chair meeting later this week.
  - Local arrangements chair? Margot has asked someone but does not have a reply yet.
  - Adrienne has the deadlines and the old call for papers. July is the call for papers deadline, October is the workshop deadline and the distinguished lectureship deadline. The last workshop in Pittsburgh had about 10 people.
  - Since we have had fewer papers, maybe we should recruit chairs to pull in papers on topics they are interested in, instead of organizing sessions around whatever papers happen to come in. Mike suggested a teaching unit ops session, and Phil suggested a safety session. We can look at who presented in previous years for potential moderators.
- i. 2012 Program Chair Report (San Antonio, TX)- **Margot Vigeant**
- Margot as chair – nothing to report yet
  - Local Arrangements- Mahbub Uddin
- j. 2012 Summer School– **Joe Shaeiwitz/Randy Lewis**
- Summer school funds: The University of Maine will charge us for transactions through them, so the current idea is to have just one big check written to them instead of many registrations. The foundation currently handling our accounts does so because we said that they would not have to handle many small transactions. If we have more than one person per university coming, or we have international people paying part of their expenses, we need to have a way for them to pay without many little transactions. Maybe through our BASS account. We do need to develop a plan for handling multiple registrations from one school.
  - Facilities: Joe brought campus maps. There are barbecue pits at the dorms that we could use. There are several locations for the banquet. The dorms have AC. We would need to have 200 – 250 people in order for them to open the dining hall for us.
  - Next plan: Marshall Lih will work with Jennifer Curtis on how to best do fundraising.
  - Workshops: Rich Felder, maybe engineering education research, looking for other ideas
  - Goal: disseminating summer school information: Joe distributed a flyer for the summer school which was distributed at the conference
- C. Present brief plans for attaining goals not already discussed
- k. Chemistry and new faculty interaction- **Taryn Bayles**: Taryn worked with Jason on new awards and sent the newsletter to summer school attendees who are not ASEE ChED members.
- l. Involvement in section meetings- **Adrienne Minerick**: The best idea seems to be to communicate better between levels. Focusing on Zone Meetings is a possibility, but not all zones hold meetings. Getting involved in section meetings will require high effort with high potential for very little return.

- m. Optimization of exec/business meetings- **Randy Lewis/Margot Vigeant**: The real result on whether or not the optimization is working will be in the general business meeting. We are not left with much time to generate new ideas in this meeting.
- D. Discussion of new goals/new business
- How do we mesh with the Education Division of AIChE? We can try to recruit members to ASEE at the AIChE meeting. What does ASEE have that the Education Division of AIChE does not? We have awards, but they will soon, too. What makes it worth attending both AIChE and ASEE meetings?
  - How do we increase the number of papers at this conference? There were 100 abstracts to the Education Division at AIChE and only 24 papers here. The number of papers at the conference has been going down, and this is happening across all divisions in ASEE. The Women in Engineering Division is doing a panel discussion, and it has just one paper combined from all of the speakers. We really like this idea, since Publish to Present seems to be blocking people from presenting. Martin Award contenders would still need to write a full paper.
- E. Future conference calls: September, February, April
- F. Passing of the torch, etc.
- n. Program Chair- **Michael Prudich** (past), **Adrienne Minerick** (new)
  - o. Chair- **Randy Lewis** (past), **Margot Vigeant** (new)
  - p. Chair Elect- **Stephanie Farrell**
  - q. Director- **Adrienne Minerick** (past), **Michael Prudich** (new)
- G. The meeting was adjourned at 8:06, with one NO vote to adjourn (Jason Keith).

## Treasurer's Report (Laura Ford)

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

Credits

Interest (3 <sup>rd</sup> Quarter 2009 through 2 <sup>nd</sup> Quarter 2010)	\$106.34
Dues (3 <sup>rd</sup> Quarter 2009 through 2 <sup>nd</sup> 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
<hr/> Total Credits	<hr/> \$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
<hr/> Total Debits	<hr/> \$10,199.97

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

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

Credits

Allocation	\$862.00
<hr/> Total Credits	<hr/> \$862.00

Debits

Conference call	\$49.04
Plaques	\$704.35
<hr/> Total Debits	<hr/> \$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/~aseched/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:
      - i. The Northeast region is good at involving undergraduate students via competitions.
    - b. Strategies to be implemented:
      - i. Coordinate workshops between the national and regional meetings. Advertise with 2-year institutions to do an NSF workshop on grant writing for educational proposals.
      - ii. Promote the cross-disciplinary aspects of regional meetings.
      - iii. Enhance communication to identify best regional / zone papers of interest to chemical engineers. Sponsor a session at national meeting with these contributions.
      - iv. 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)
<b>Zone I</b>	<b>Last held in 2008</b>		<b><a href="http://www.west-point.org/academy/aseez1c/">http://www.west-point.org/academy/aseez1c/</a></b>	<b>COL B. Grant Crawford Bobby.Crawford@usma.edu</b>	<b>Stephanie Farrell, Rowan</b>
Northeast	May 7, 2010 - May 8, 2010	Wentworth Institute of Technology, Boston, MA	<a href="http://acamedics.com/conferences/aseene/index.php/aseene/asee2010/">http://acamedics.com/conferences/aseene/index.php/aseene/asee2010/</a>	Dr Sandeep Dilwali at dilwalis@wit.edu	David DiBiasio, WPI
St. Lawrence Section	March 26-27, 2010	Rochester Institute of Technology, New York	<a href="http://stl.asee.org/events.html">http://stl.asee.org/events.html</a>	Joan V. Dannenhoffer (Section Chair) dannenvjv@morrisville.edu	
Mid-Atlantic	April 16 - 17, 2010	Lafayette College, Easton, PA	<a href="http://sites.lafayette.edu/asee2010/">http://sites.lafayette.edu/asee2010/</a>	Dr. Javad Tavakoli, tavakoli@lafayette.edu	Stephanie Farrell, Rowan
<b>Zone II</b>	<b>not held?</b>				
Southeastern	April 18-20, 2010	Virginia Polytechnic Institute & State U.	<a href="http://155.225.14.146/asee-se/Default.htm">http://155.225.14.146/asee-se/Default.htm</a>	Keith Plemmons keith.plemmons@citadel.edu	David Silverstein, U. Kentucky-Paducah
North Central	March 26 - 27, 2010	U. of Pittsburgh	<a href="http://www.asee-ncsection.org/">http://www.asee-ncsection.org/</a>	Dan Budny budny@pitt.edu	
Illinois-Indiana	April 9-10, 2010	Purdue U, West Lafayette, IN	<a href="http://ilin.asee.org/">http://ilin.asee.org/</a>	Sauer, Sharon G. Sauer@rose-hulman.edu	
<b>Zone III</b>	<b>not held?</b>				
Midwest	September 22 - 24, 2010	University of Kansas, Lawrence Kansas	<a href="http://www.continuingeducation.ku.edu/programs/asee">http://www.continuingeducation.ku.edu/programs/asee</a>	Francis Thomas (Francis@ku.edu)	Sundar Madihally & Laura Ford, & Keith Hohn Kansas State
North Midwest	October 21-23, 2010	Minnesota State University, Mankato	<a href="http://www.ndsu.nodak.edu/asee/">http://www.ndsu.nodak.edu/asee/</a>	Abulkhair Masoom masoom@uwplatt.edu	Jason Keith, Michigan Tech
Gulf Southwest	March 24 - 26, 2010	McNeese State University, Lake Charles, LA	<a href="http://www.aseegsw.org/">http://www.aseegsw.org/</a>	Dr. Nikos Kiritsis nikos@mcneese.edu	Lale Yurttas, Texas A&M
<b>Zone IV</b>	<b>March 25-27, 2010</b>	<b>Univ. of Nevada - Reno, Reno, NV</b>	<b><a href="http://web.me.unr.edu/asee2010/">http://web.me.unr.edu/asee2010/</a></b>	<b>Dr. Brian Self bself@calpoly.edu</b>	
Pacific Northwest	?	?			Richard Zollars
Pacific Southwest	?	?	<a href="http://www.csupomona.edu/~sparisay/ASEE/P SW/">http://www.csupomona.edu/~sparisay/ASEE/P SW/</a>	Macedo, Jose A. jmacedo@calpoly.edu	
Rocky Mountain	?	Utah?	<a href="http://ceeps.colostate-pueblo.edu/ConferencesContestsGrants/RMS/Pages/RMS.aspx">http://ceeps.colostate-pueblo.edu/ConferencesContestsGrants/RMS/Pages/RMS.aspx</a>	Jackson, Justin justinjackson@weber.edu	

# CHE Division Membership Report

June 2010

A. Allen Hersel

