



Business Meeting
Monday, October 29, 2012

Goal/Focus

- **Main goal this year** → machinery and structure in place to allow EduDiv to work towards meeting its stated objectives

Meeting Focus

- Information dissemination
- Committee membership recruitment
 - Listen to committee chairs; join a committee
- There will be time for discussion when information is presented, but extended discussion should be had off-line
- An opportunity for the discussion of new business

EduDiv Board of Directors

Don Visco, Chair

Jason Keith, 1st Vice-Chair

Taryn Bayles, 2nd Vice-Chair

David Silverstein, Past Chair

Benjamin Davis, Secretary-Treasurer
(2011-2013)

Milo Koretsky, Director 2010-2013

John O'Connell, Director, 2011-2014

Tim Anderson, Director, 2012-2015

Outgoing Division Director (at the end of the AIChE Annual Meeting): **Fred Justice**

Election Results

Ben Davis

- Elections for Director held August 6, 2012-August 31, 2012
- Professional Members as of 8/1/2012 were eligible to vote (179) – 84 total votes cast (47% response rate)
- Tim Anderson elected Director for 2012-2015
- Election in 2013: Past Chair (Silverstein) is the Chair for the Nominating Committee
 - Director, 2nd Vice-Chair, Secretary-Treasurer to be contested
- Voting on bylaws/logo held February 17, 2012-March 19, 2012
- Bylaws change was approved, new logo on previous slide

By-Laws Approval

Article II – Membership

Section 1. Members of the Division shall be members of the AIChE who have paid the annual Division dues (Article VI, Section 1). Each area chair and area vice chair shall be members of the Division. Nonmembers of the AIChE may join the Division for **not more than two membership cycles** *with the approval of the Executive Committee of the Division*. By the end of **the agreed period** they must have been accepted for some grade of membership in the AIChE in order to continue as members of the Division. Undergraduate students may become members of the division, but shall not hold petition or voting privileges, nor may they run for elected office.

Article VI – Dues and Finances

Section 2. In order to promote membership growth both in AIChE and the Division, a Committee Chair or Director or Officer may propose an individual for complimentary division membership. This complimentary division membership involves a waiver of dues for not more than 2 membership cycles.

Officer/Committee/Liaison Information and Reports

- **Financial** (Ben Davis)
- **Membership** (Fred Justice/Christi Patton-Luks)
- **Programming** (Jason Keith/Taryn Bayles)
- **Course Survey** (Margot Vigeant /David Silverstein)
- **International** (Said AbuBakr/Marcel Liauw)
- **K-12** (Rich Zollars)
- **Awards** (John O'Connell)
- **Future Faculty** (Milo Koretsky)
- **SACHE Liaison** (Chip Howat)
- **SCC Liaison** (Chuck Coronella)
- **CACHE Liaison** (Clare McCabe)

Financial

Ben Davis

- October 2011 balance:
\$2,808.44
- Income, year to date:
\$2,789.67
- Expenditures to date:
\$118.98
- September 2012 balance:
\$5,703.46
- All income from dues, banquet fees, and a modest interest collection
- Expenses
 - Lunch for Future Faculty Mentoring Program
 - Honoraria for Division Awards
 - Printing fees for newsletter
 - Domain registration fee
 - Suggestions for budget?

Membership

Christi Patton Luks & Fred Justice

- As of 10/25/2012
 - 181 2012 members
 - Compare to 169 in 2011
 - 160 professionals (153 last year)
 - 4 graduate students
 - 10 undergraduates
 - 7 international student members
 - 21 international professional members
 - 18 AIChE Fellows (17 last year)
 - 22 industrial members, 134 academic members
 - Target was 250 2012 members
 - Best way to join: Call 1-800-242-4363

2012 Conference Programming

Program Chairs, Jason Keith / Taryn Bayles

- 31 sessions (including workshops) with several co-sponsored sessions
- 4 Sessions on Computing and Technology
 - Computing and Technology in CHE EDU I: Includes Himmelblau Award
 - Computing and Technology in CHE EDU II: Honorary
 - Computing and Technology in CHE EDU III: Contemporary Topics
 - Game Based Learning
- Honorary Sessions
 - Contributions of David Himmelblau / Gary Powers
 - Lewis Award Winner: David Allen

2012 Conference Programming

Program Chairs, Jason Keith / Taryn Bayles

- ABET Sessions
 - Tuesday morning updates
 - Tuesday afternoon best practices session
- Safety sessions
 - One session and one workshop
- Free Forum
 - Two sessions
- On-going “How We Teach” Sessions
 - Survey reports + “Steal This Course: Design”
- 5th Annual Education Division Dinner, ~40 attendees

2013 Conference Programming

Program Chairs, Jason Keith / Taryn Bayles

- San Antonio (4/28/2013 – 5/2/2013)
 - Spring Meeting → Group 4 programming
 - Two sponsored sessions
 - Linking Industry and Education: Technology in the Classroom
 - Free Forum on Engineering Education
- San Francisco (11/1 – 11/8)
 - Fall Meeting → Planning meeting is tomorrow
 - If interested in moderating a session, contact Jason Keith (keith@che.msstate.edu)

Course Survey Committee

Chairs, Margot Vigeant/David Silverstein

- Help us define the curricular state-of-the-art for ChemE
- Volunteer to help with –
 - Writing the survey (easy to say, harder to do)
 - Targeting those who should respond and asking / begging / badgering them for responses
 - Making sense of the data and sharing it
- Or.....
 - Be sure that your department completes its survey each year!
- Upcoming
 - Transport
 - Electives
 -
- CONTACT: David Silverstein david.silverstein@uky.edu
- CONTACT: Margot Vigeant vigeant@bucknell.edu

International

Said AbuBakr & Marcel Liauw

Mission of the Committee:

- To promote the international aspects of chemical engineering education and profession to reflect the changing chemical engineering profession
- To foster international collaborative discussion on critical international issues of chemical engineering education, the profession, safety and society
- To enrich the mission of the Education Division and to work with AIChE international Committee

Objectives of the Committee:

- Initiate a session at the 2013 AIChE Annual meeting to share information on international aspects of chemical engineering education, research and profession
- Invite funding agencies from the U.S. , European Union, China, Japan, Russia, India, Brazil, Middle East, and other countries to promote international collaborative education and research
- Seek collaborative relationships with similar organizations focusing on Chemical Engineering education in the world to share good practices in safety, sustainability, and biological engineering
- Assess and if appropriate make recommendations regarding how the committee is serving the international charter of the institute

K-12

Chair, Dick Zollars

- **Mission of the Committee:** The mission of the K-12 committee is drawn from the mission of the Education Division.
- Provide the focal point for AIChE members with interests in educational methods and their assessment, the scholarship of education including both practice and theory as well as outreach activities regarding chemical engineering education.
- Encourage chemical engineering educators to strengthen their own learning in the field of engineering education and on the development of appropriate curricular material focused for the ever-diversifying field of chemical engineering.
- Coordinate and actively work with other entities within the Institute, in particular CEOC and its Committees, as well as other entities external to the Institute (such as ASEE, industry, government agencies, etc.) to foster the goals of the Division and the Institute as they relate to education.

Awards

Chair, John O'Connell

- **Education Division Award for Excellence in Engineering Education Research**
 - Recognizes outstanding research in education, with a focus on chemical engineering pedagogy, encompassing methods, applications, and assessment.
- **Education Division Award for Service to Chemical Engineering Education**
 - Recognizes an individual who, within 20 years of completion of the highest degree, has shown dedication and broad service to chemical engineering teaching and learning, especially in Chemical Engineering professional societies.
- **Education Division Award for Innovation in Chemical Engineering Education**
 - Recognizes an individual who has implemented a pedagogical innovation into a class or course that has made a significant and documented positive impact on teaching effectiveness and has enhanced student learning.

Future Faculty

Chair, Milo Koretsky

	<u>Mentor</u>		<u>Mentee</u>	
1.	Said Abubakr	Western Michigan University	Kevin Cash	Northeastern University
2.	Sundar Madihally	Oklahoma State University	Evan Wujcik	University of Akron
3.	Adrienne Minerick	Michigan Technological University	Heather Kulik	Stanford University
4.	Tim Anderson	University of Florida	Travis Walker	Stanford University
5.	John O'Connell	University of Virginia	Christopher Wilmer	Northwestern University
6.	Kim Ogden	University of Arizona	Meghaan Smith	Stanford University
7.	Skip Rochefort	Oregon State University	Zachary Smith	University of Texas
8.	Margot Vigeant	Bucknell University	Laura Hirshfield	Purdue University

Liaison Reports

- Student Chapters Committee (Chuck Coronella)
- SACHÉ (Chip Howat)
- CACHÉ (Clare McCabe)

Liaison to SCC

- Goal is to improve coordination of conference programming between ASC and Annual Meeting
- Work with EBPC task force “Task Force on Student and Professional Conference Integration”
 - Headed by Vince Grassi of Air Products
 - Task force has been active for two years
 - Participation from young professional, from SCC, from staff, and from Ed. Division
- Efforts thus far have been a matter of documenting opportunity
- Method is to develop and document “best practices”
- Two achievements this year:
 - Sessions on undergraduate research
 - Suggested sessions for undergraduates (next page)

SUGGESTED ANNUAL MEETING SESSIONS for AIChE Student Members

MONDAY, OCTOBER 29

MBA in a Day

8:15 AM – 11:00 AM Room 303

12:30 PM – 3:00 PM Room 303

This session will provide a quick snapshot of planning and applying to business schools, a look into core classes every MBA student takes, and some words from experienced MBAs.

Undergraduate Research Forum

8:30 AM – 11:00 AM Room 324

12:30 PM – 3:00 PM Room 324

This session is dedicated to providing opportunities for undergraduates involved in research to share their findings with AIChE professionals. This session will highlight some of the research achievements for undergraduate students.

2nd World Congress on Sustainability Plenary

12:30 PM – 2:15 PM Room 333

The Plenary will address general sustainability issues in Chemical Engineering.

TUESDAY, OCTOBER 30

Sustainable Fuels from Renewable Resources

12:30 PM – 3:00 PM Room 336

This session will focus on the production of liquid fuels from renewable sources, with emphasis on process design associated with resource conversion into useful products.

Innovation from Beginning to End

12:30 PM – 3:00 PM Room 331

This is a workshop, with invited speakers, designed to overview the entire research process from conception to project management completion.

Project Management: What's new? What works?

3:15 PM – 5:45 PM Room 310

This session discusses important elements of project management designed to help new project managers and those interested in project management to understand important skills and issues related to this important management area.

WEDNESDAY, OCTOBER 31

Conversion of Solid Waste to Energy and/or Product

12:30 PM – 3:00 PM Room 306

This session solicits presentations on innovative processing technologies for conversion of solid wastes into reusable energy and/or products to reduce environmental footprints.

THURSDAY, NOVEMBER 1

Appropriate Water Technology for the Developing World

12:30 PM – 3:00 PM Room 408

This session discusses the development and implementation of unique technologies for treating water in the developing world. Topics may include ceramic pot filters, sand filtration, charcoal, membranes, solar disinfection, and more.

Energy Sustainability, Challenges, and Solutions

8:30 AM – 11:00 AM Room 336

This session will cover identification of, and solutions to, challenges associated with improving the energy sustainability of chemical processes – including process design and operational improvements that result in reduced energy consumption and/or better use of energy produced in the process.

Chemical Engineering in the Nuclear Fuel Cycle

3:15 PM – 5:45 PM Room 305

This session will cover the design, development and implementation of chemical processes for the treatment of radioactive wastes, spent nuclear fuels, ore bodies, and other nuclear materials requiring processing.

Be sure to wear your badge at all times – it is your ticket to the Student Conference events and Annual Meeting sessions.



Help Wanted

- Jessica Eastman is the Newsletter editor
- Your opinions, short articles, experiences ideas– anything that won't fit in a journal article but would be of interest to ChE instructors needed this year
- jzimmerlin@gmail.com

ChemEDU News

Dinner with EDU
Colleagues
Goes A La Carte

This year...
Director will take a new approach
in Salt Lake City. Instead of a
traditional event, we have broken
the Market Street Dine for our
dinner on Tuesday, November
8. They are generously allowing
us each to pay for what we need

AICHE
Education Division

Welcome to your Newsletter
The AIChE Education Division was founded
in 2009 in order to better serve the AIChE
Membership. A key part of that mission is to

this issue

Welcome!	P.1
Clickers on a Budget	P.2
2010 Annual Meeting Program	P.3
ASEE ChE Division Update	P.4

...and more...
...and more...
...and more...

Other items

- Website, etc. (David Silverstein)
- Education Division Representation
 - Continuing Education Committee
 - Body of Knowledge for Chemical Engineering
- New Business
- Programming Meeting (tomorrow at the same time / same location)