

ASEE Chemical Engineering Division Newsletter



IN THIS ISSUE:

MESSAGE FROM THE CHAIR

Pages 1-2: Conference Programming, Goals, Elections, Summer School, and more....

ELECTIONS

Pages 2-7: Please vote for one candidate for Chair-Elect (Sundar Madhally or Stephanie Farrell) and one candidate for Director. (Tamara Floyd Smith, Lale Yurttas, or Michael Prudich) Vote online at <http://www.engr.uky.edu/survey/index.php?sid=32697> Votes must be received by Friday, April 16th, 2010.

DIVISION INITIATIVES

Page 8: Get involved at the ASEE section level. Visit our webpage at: <http://www.asee-ched.org>

2012 SUMMER SCHOOL

Page 9: See the progress that our team has made planning for this outstanding workshop.

PROGRAM FOR THE 2010 MEETING

Page 12: Program overview for the Louisville meeting is included. Thanks to Michael Prudich for organizing and coordinating this excellent program!

A Message from the Chair

Dear colleagues:

As the year continues to progress towards another ASEE annual meeting this coming June 20-23 (Louisville, KY), I hope you have taken the time throughout this past year to reflect and act on the opportunities you have regarding chemical engineering education. As educators, we all have a great responsibility in the education of the students we serve. ASEE meetings are excellent venues to obtain new ideas and insights that you can implement toward enhancing your teaching effectiveness. I encourage you to attend the meeting this June to benefit from and contribute to the excellent program that has been developed for the Chemical Engineering Division. Much appreciation is due to Michael Prudich, Ohio University, for his efforts in organizing the program. Even if you are not presenting, your active participation through asking questions, chairing sessions, and contributing ideas will enhance the learning process for all. In another month, I encourage you to go to the ASEE website (<http://osl.asee.org>) to see the details of the sessions that will be provided. If you cannot attend the meeting, you can greatly benefit from searching the proceedings that will be provided after the conference (see <http://www.asee.org/conferences/annual.cfm>).

As mentioned in the previous newsletter, the executive committee of the division has been working on five goals for the year. These goals are:

- Enhance the effectiveness of disseminating ASEE ChE summer school information to faculty (including new faculty) and graduate students.
- Enhance recognition of ASEE ChE members via increasing resources for awards.
- Enhance the interaction with new faculty and Chemistry faculty-- the future of ASEE.
- Assess potential for increased involvement in section meetings.
- Optimize ExComm and Business meetings.

Small committees have been formed to tackle these goals by June. I look forward to sharing with you the outcomes of these goals during the business meeting in June. I strongly believe that these goals will help our Division become more effective towards strengthening each of us as engineering educators.

This newsletter contains information on those running for office. Please look at the information and participate in the upcoming officer elections. Your input is valuable!

On another note, the Chemical Engineering Summer School is just 2 ½ years away. This exciting event will be held July 21-28, 2012 at the University of Maine. The schedule starts with a one-day teaching workshop on Saturday presented by Rich Felder. Sunday afternoon includes networking activities. Then, Monday



through Thursday includes morning and some evening sessions, with the afternoons open for social activities. If you are an early-career faculty member, you are encouraged to attend.

In closing, I want to share with you a poem that was recently brought to my attention. The poem is entitled "Teach me to love botany" by Barbara Sorenson Stoutner.

Teach me that in mitosis there are two replications of chromosomes and in meiosis only one.

Teach me that there is secondary growth in dicotyledons but not in monocotyledons because monocotyledons do not have cambium.

Teach me that I can get a grade symbolizing a knowledge of botany if I study two hours out of class for every hour in.

Teach me that if I endure the semester, I can graduate and never have to know about botany.

Teach me to marvel at the intricate difference between meiosis and mitosis.

Teach me to wonder in awe how a majestic tree developed from a tiny seed containing two cotyledons.

Teach me to know in humility that all of the textbooks of men cannot reveal the secrets contained in a tiny blade of grass.

Teach me to love botany, and a lifetime's search for knowledge will not be able to quench the thirst you created.

As emphasized in the poem, teaching goes beyond the textbook. Henry B. Eyring, an educator, stated "What matters most, as you and I try to help our students, will not be so much whether they master a particular subject or pass our exam. That will matter some, but what will matter most is what they learn from us about who they really are and what they can really become. My guess is that they won't learn it so much from lectures. They will get it from feelings of who you are, who you think they are, and what you think they might become".

I hope to see you in June.

Randy Lewis

CHEMICAL ENGINEERING DIVISION ELECTION 2010

Your involvement in selecting the next leaders of our division is welcomed. We have an excellent slate of candidates for two positions: Division Chair-Elect and Director. Biographical information and Candidate's statements are included on the following pages.

Choose one for Division Chair-Elect:

Sundar Madihally
Stephanie Farrell

Choose one for Director:

Tamara Floyd Smith
Lale Yurttas
Michael Prudich

TO VOTE:

- **Access the ballot online** <http://www.engr.uky.edu/survey/index.php?sid=32697>
- **OR use the attached pdf version of the ballot and fax to Laura Ford at (918)631-3268**
- **Email David Silverstein at silverdl@engr.uky.edu with any problems.**

Votes must be received by Friday, April 16th, 2010



Position: Division Chair

This person would serve one year as Chair-Elect and then serve as Chair in 2011-2012.

- 1) **Sundar Madihally**
- 2) **Stephanie Farrell**

Sundar Madihally

School of Chemical Engineering
Oklahoma State University



I am greatly honored to be nominated for the Chemical Engineering Division Chair of ASEE. My first exposure to ASEE was through the 2002 summer school which has significantly enriched my personal career. Recognizing the importance of effective teaching, I have made a significant personal effort to be an active participant in educational research. I have regularly attended ASEE annual conferences, serving as chemical engineering division program chair for the 2009 annual conference, moderating sessions, reviewing papers for ASEE proceedings and Chemical Engineering Education (CEE) journal. I have published four articles in CEE and eight papers in the ASEE proceedings. In 2008, our poster received the ASEE best poster award. Stimulating ASEE experiences led me to participate in educational programs of AIChE, where I have served as the Chair/co-chair of the Meet the Faculty Candidates poster session for the last five years. The objective of this session is to help prospective faculty candidates interact with search committees.

I am currently an Associate Professor at OSU. I received BE degree in Chemical Engineering from Bangalore University, India and a PhD from Wayne State University in Chemical Engineering. I was a research fellow at Massachusetts General Hospital, Harvard Medical School and Shriners Hospital for Children. In 2006, Oklahoma State University (OSU) chemical engineering students elected me as the best teacher and in 2005, I received the Outstanding Advisor Award from the OSU President for services to the Indian Student Association. In 2008, I was invited to join the international editorial board of "Biomaterials" Journal and the Open Biotechnology Journal. I have enjoyed mentoring fourteen graduate students and thirty two undergraduate students at OSU. I am also involved in many outreach activities including summer academies for high school students and training middle school teachers on transitioning research to middle school.

As a division chair, I would like to develop a repository containing training material from the summer school for new faculty members with the cooperation of the ASEE executive committee. This is timely given the upcoming summer school session. Training materials could be offered through the chemical engineering division web portal. In addition, I believe ASEE can play a significant role in connecting research and education, which would broaden participation from the research community. Organizing sessions at the national conference and regional conferences relevant to research community could help promote awareness.

I am committed to serving ASEE and look forward to the opportunity.

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Votes must be received by Friday, April 16th, 2010

Division Chair-Elect cont...

This person would serve one year as Chair-Elect and then serve as Chair in 2011-2012.

- 1) Sundar Madihally
- 2) **Stephanie Farrell**

Stephanie Farrell

Department of Chemical Engineering
Rowan University

It is an honor to be nominated to serve as Chair of the Chemical Engineering Division (CHED) of ASEE. I have had the privilege of serving ASEE in other positions at both the section and national levels over the last twelve years, and would welcome the opportunity to serve the CHED as Division Chair. At the national level, I currently serve on the ASEE Board of Directors as the Chair of Zone 1. As a member of the Mid-Atlantic Section Executive Board from 1999-2008, I have served the Section as Chair, Vice-Chair, Awards Chair, and Newsletter Editor. I organized and hosted the 2001 Mid-Atlantic Section Spring Meeting held at Rowan University. I have been an ASEE Campus Representative for twelve years and have won both Section and Zone Outstanding Campus Representative Awards.

I have also served actively in the leadership the AIChE Group 4 (Education) from 2001-2007, and I was the Chair of the Group 4 from 2005-2007.

I am currently an Associate Professor of Chemical Engineering at Rowan University. I received a B.S. degree from the University of Pennsylvania, M.S. Stevens Institute of Technology and a Ph.D. from New Jersey Institute of Technology. I was a faculty member in Chemical Engineering at Louisiana Tech University for two years before joining Rowan University.

My educational interests include the incorporation of experiential learning throughout the ChE curriculum and the development of academe-industry-government collaboration. I have shared educational innovation through workshops such as the ASEE Summer School for New Faculty (2002, 2007). I have been honored as the recipient of the Dow Outstanding Young Faculty Award (2000), the Raymond W. Fahien Award (2002), the National Outstanding Teaching Award (2004) and the Robert G. Quinn Award (2006). I am excited to serve as the 2010 NETI Fellow at the workshop in Louisville in June.

If elected to serve as CHED Chair, I would be honored to continue working toward many of the educational ideals I share with ASEE, specifically to nurture a vibrant culture for scholarly innovation in engineering education. I genuinely value Division activities as an opportunity for members to re-energize through shared knowledge of chemical engineering education and to form collaborations that will advance the frontiers of knowledge and practice. I will strive to increase the exposure of the Division and to expand opportunities for member participation in section, national and international activities. I will also work closely with Division and section leadership as well as conference organizers to strengthen involvement across ASEE's professional realms of K-12, university, government and industry.

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Position: Director

This person would serve as an advisor to the executive board for a term of 2 years.

- 1) **Tamara Floyd Smith**
- 2) **Lale Yurttas**
- 3) **Michael Prudich**

Tamara Floyd Smith

Department of Chemical Engineering
Tuskegee University



I bring you greetings from Tuskegee University and gratitude for the honor of being considered for the position of Director in the Chemical Engineering Division of ASEE. I am an associate professor of chemical engineering at Tuskegee University in Tuskegee, AL. I received my B.S. in chemical engineering from Tuskegee University in 1996. I completed my graduate work at the Massachusetts Institute of Technology in Cambridge, MA where I earned a M.S.C.E.P. in 1998 and completed a Ph.D. in chemical engineering in 2001. Upon completing my Ph.D., I accepted a position as a member of technical staff at Lucent Technologies, Bell Labs (now OFS) in Norcross, GA in the optical fiber research and development division where I worked for two years. In 2003, I accepted a position as an assistant professor of chemical engineering at Tuskegee University and was promoted to associate professor in 2007. I also became a licensed professional engineer in 2007. Finally, I was appointed to the position of 3M Scholar in 2009.

In addition to research interests focused in the area of microfluidics for materials processing, I have a commitment to chemical engineering education and education in general. I have been responsible for new course development and innovation in the chemical engineering department at Tuskegee University. For example, I developed the department's first bioprocess engineering course and also developed a nanoscience course for non-science majors. I was also responsible for bringing Matlab to our department through a curriculum grant and am currently chairperson of the university academic affairs committee. I have been a member of AIChE since 1993 and ASEE since 2004. I am active in the educational division of AIChE serving as co-chair of several sessions at national conferences, serving on the committee for the AIChE Education Group centennial and also helping to create the AIChE division. I am also active in ASEE having previously served as a poster session judge, paper reviewer and presenter. Additionally, my commitment to chemical engineering education has led to two publications in Chemical Engineering Education and one publication in the Journal of Materials Education.

More importantly, however, I am a chemical engineering educator with administrative and organizational skills that would serve the ChE division of ASEE well. I would like to serve as Director because I want the opportunity to impact policy within the division. I think that I bring a unique perspective shaped by an amalgam of experiences ranging from being a first generation college graduate to placing in a state math contest in junior high that propelled me toward a career in chemical engineering. As Director, I would be attracted to projects related to K-12 outreach and broadening participation. However, my contributions in the position would be based on an assessment of the needs of the Division and a decision about how I could have the most impact and leave a lasting legacy. I would truly be honored to serve you and look forward to the opportunity!

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Director Candidates cont...

- 1) Tamara Floyd Smith
- 2) **Lale Yurttas**
- 3) Michael Prudich

Lale Yurttas

Department of Chemical Engineering
Texas A&M University

I am honored to be considered for the Director position in the ChE Division of ASEE.

Over the years, ASEE has provided me with a platform from which to participate in activities that I enjoy and have grown to care very much about. Through ASEE, I have also gained invaluable knowledge and interacted with others who share the same interests and goals. Therefore, I welcome the opportunity to contribute service to and play a bigger role in the ChE division and the ASEE toward accomplishing our shared goal of advancing engineering education. My goals for our division will be increasing participation and communication, and seeking additional funding for the division awards to broaden our base. I am dedicated to engineering education and research, and strive continually in my own career to be an effective educator.

I have received BS, MS, and PhD degrees in Chemical engineering. I received my PhD degree in Chemical Engineering from Texas A&M University in 1988, and was one of the first women to be awarded a PhD from this department. I then worked as a research associate in the Engineering and Biosciences Research Center at Texas A&M. I am currently a senior lecturer in the Chemical Engineering Department and serve as an Assistant Department Head for Upper Division. I also chair the Departmental ABET Committee. As a long-time member of my department, I have seen the evolution of Chemical Engineering curricula and developed an interest, early on, in optimizing teaching methods to be more inclusive and effective. As a result, I now have 12 years of experience in engineering education, curriculum development, and assessment. I serve as an academic advisor to upper level chemical engineering students and as an advisor to the Student Chapter of American Institute of Chemical Engineers. I enjoy interacting with students and have taught chemical engineering courses at all levels from freshmen to seniors. My favorite course to teach is thermodynamics. As a co-investigator on an NSF Departmental Level Reform grant project, I have incorporated service learning into chemical engineering curriculum. I have also started Engineering Projects in Community Service Program (EPICS, Purdue University) at the college level at Texas A&M. As AIChE Chapter Advisor, I have developed a Chem-E-Car Design course, which is offered to freshmen through seniors to introduce students early in their education to engineering design, safety, teaming, and communication. Since the start of the program, Chem-E-Car teams have won three regional competitions and a third place in the 2008 National Competition. My current interests are teaching and learning in chemical engineering; undergraduate curriculum reform, development, and assessment; incorporation of environmental sustainability; service learning; and online web modules for instruction.



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Director Candidates cont...

- 1) Tamara Floyd Smith
- 2) Lale Yurttas
- 3) **Michael Prudich**

Michael Prudich

Department of Chemical & Biomolecular Engineering
Ohio University

Just a little bit about myself – I am a member for the CHE and ERM divisions of ASEE and have served as an abstract and paper reviewer for one or both divisions for quite a few years. I am also a member of the AIChE Education division. I continue to teach at all levels of the chemical engineering curriculum ranging from new freshman learning communities all the way through to Ph.D. specialty courses (once or twice during the same quarter). In the past I have been involved in the FYE (First Year Experience) program for the “greater” freshman class at Ohio. I’ve authored and co-authored several ChE Division papers over the years and currently am serving as the 2010 ChE division program chair (Louisville).



I am currently a professor in the Department of Chemical and Biomolecular Engineering at Ohio University where I have also held several administrative positions (department chair, institute/center director, interim associate dean). Prior to joining Ohio University, I spent my time working for Gulf Oil Corporation near Pittsburgh, PA. I received all of my degrees from West Virginia University where I received an excellent education and learned to use a slide rule and to read nomographs.

My focus as director would be on assisting the chair in achieving her goals for the ChE division and in promoting participation in the ASEE by chemical engineering educators. An immediate goal would be to attempt to resurrect our ChE poster session through aggressively promoting a poster theme.



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ASEE SECTIONAL MEETINGS

Article by Laura Ford, Secretary / Treasurer

Section-Level Communication Effort by Adrienne Minerick & Laura Ford



ASEE Sectional Meetings

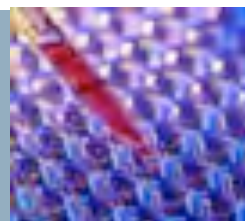
Have you thought about going to an ASEE Sectional (regional) meeting? They tend to be much less expensive than the national conference, and they offer networking opportunities with 2-year colleges, technology programs, and other potential local collaborators. Papers tend to have an interdisciplinary slant. Consider attending one of the many meetings this spring, or submit an abstract to the fall meetings! Links to conference sites are at www.asee.org/activities/organizations/sections/meetings.cfm.

Schedule:

Gulf Southwest	March 24, 2010 - March 26, 2010	McNeese State University
Zone IV	March 25, 2010 - March 27, 2010	University of Nevada, Reno
St. Lawrence	March 26, 2010 - March 27, 2010	Rochester Institute of Technology
North Central	March 26, 2010 - March 27, 2010	University of Pittsburgh
Middle Atlantic	April 16, 2010 - April 17, 2010	Lafayette College
Southeast	April 18, 2010 - April 20, 2010	Virginia Tech University
Northeast	May 7, 2010 - May 8, 2010	Wentworth Institute of Technology, Boston
Midwest	Sept. 22, 2010 – Sept. 24, 2010	University of Kansas
North Midwest	Oct. 21, 2010 - Oct. 23, 2010	Minnesota State University - Mankato

DON'T FORGET ABOUT THE INTERNET!

By David Silverstein, Webmaster



With the busy lives that faculty members lead both professionally and personally, it is easy to forget about a critical resource that has the potential to impact your life. They call this resource THE INTERNET. And on the internet you will find one resource with particular potential to influence your educational life—the ASEE Chemical Engineering Division Website, <http://www.asee-ched.org>!

The Division website is updated frequently with not only news from the ChE Division, but also with links to the newest sites with information you can use. Recent examples of current news include an updated listing of REU opportunities from Professor Michael Cutlip; nomination resources for Division awards; and as always the most current edition of this newsletter.

Consider using the ASEE Chemical Engineering Division Website for dissemination of your latest educational project, news item of interest to the chemical engineering education community, or anything else you'd like to see made visible to others with a passion for chemical engineering education. Submissions should be made to David Silverstein, ChED Webmaster, SilverDL@engr.uky.edu.

<http://www.asee-ched.org>

2012 SUMMER SCHOOL UPDATE

Joseph A. Shaeiwitz, Randy S. Lewis, Jennifer S. Curtis, John J. Hwalek, Greg Ogden, and Kim Ogden



Plans continue for the next Chemical Engineering Summer School. The dates have been set, and the 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 has gone out to select international faculty members to gauge their interest in participating in the summer school. We are optimistic that funding can be raised to support international participation, probably from a different source from the summer school's typical funding sources.

A survey will soon be sent to assistant professors in U.S. chemical engineering departments to get feedback on the topics that would make attendance at the summer school attractive.

The University of Maine is in Orono, just a few miles from Bangor and its airport. It is about one hour or so from Acadia National Park and Bar Harbor. There are hiking and biking trails throughout the area, including many in Bangor. There are plenty of recreational opportunities on campus for participants and families, including hiking/biking/running trails and canoeing/kayaking on the Stillwater River. Canoes and kayaks can be rented on campus. Maine is a wonderful vacation spot, and it is usually quite comfortable in the summer. Summer highs average around 80°F, with lows in the high 50s. One of the goals of this summer school is to provide an environment for the whole family. To this end, there will be more time for family and participant activities. The current schedule is being planned from Saturday to Thursday. The preliminary program includes group/family events Sunday until 3 p.m. and Tuesday after lunch. Free time will also be available in the afternoons on Monday, Wednesday, and Thursday. The evening will end around 8:30-9:30 p.m., at the latest.

Please address your feedback to both joseph.shaeiwitz@mail.wvu.edu and randy.lewis@byu.edu.

Here are some links to activities in the vicinity of the University of Maine:

http://www.bangormaine.gov/vb_recreation.php

http://www.bangormaine.gov/cs_parksrec.php

<http://www.bangorinfo.com/parks.html>

<http://www.sunkhaze.org/>

<http://www.nps.gov/acad/>

<http://www.acadia.net/anp/>

<http://www.acadia.national-park.com/>

<http://www.baxterstateparkauthority.com/>

http://en.wikipedia.org/wiki/Mount_Katahdin



On the ASEE Chemical Engineering Division Webpage and Click on 'Summer School' to see materials from past Summer Schools:

<http://www.engr.uky.edu/~aseched/>

2010 CONFERENCE IN LOUISVILLE, KY

Family Friendly Attractions compiled by Jim Watters



Arts- Performing	Actors Theatre of Louisville	www.actors theatre.org	(502) 584-1205	Internationally acclaimed Tony Award-winning professional theatre.
	Derby Dinner Playhouse	www.derbydinner.com	(812) 288-8281	Kentuckiana's only professional dinner theatre. The best of Broadway & more!
	The Kentucky Center for the Performing Arts	www.kentuckycenter.org	(502) 562-0100	Kentucky's premier performing arts venue. Home of ballet, Broadway, opera, orchestra & children's theater.
	The Louisville Ballet	www.louisvilleballet.org	(502) 583-3150	The state ballet of Kentucky provides the best in classical & contemporary rare dance.
	The Louisville Orchestra	www.louisvilleorchestra.org	(502) 587-8681	A full-time symphony offering a variety of concerts.
	Louisville Theatrical Association	www.ltastages.org	(502) 498-2443	Music Theatre Louisville entertains with musical theatre performances during the summer & Stage One shares live theater with children, teachers and families throughout the school year.
	PNC Broadway Across America Louisville	www.broadwayacrossamerica.com/Louisville	(502) 584-7469	Brings the finest touring shows to Louisville. Presents touring Broadway plays/musicals at The Kentucky Center & Louisville Palace Theatre.
W.L. Lyons Brown Theater	www.kca.org	(502) 562-0188	An elegant 1,400 seat theater & conference center/reception room.	
Arts- Visual	Glassworks	www.LouisvilleGlassworks.com	(502) 584-4510	A multi-use facility with galleries featuring artists from around the world, glass blowing classes & workshops, a restaurant & daily tours.
	The Hadley Pottery Co.	www.hadleypottery.com	(502) 584-2171	Creates handcrafted stoneware. Showroom offers sales & weekend tours if temperature permits.
	Hidden Hill Nursery and Sculpture Garden	www.hiddenhillnursery.com	(812) 282-0524	Eight acres of garden art, fountains, benches, whimsy & unusual plants for sale.
	Kentucky Museum of Art & Craft	www.kentuckyarts.org	(502) 589-0102	A non-profit organization dedicated to promoting the art & craft heritage of Kentucky.
	Louisville Stoneware	www.louisvillestoneware.com	(502) 582-1900	Creators of unique, beautiful works of functional art. Gallery, museum & paint-your-own studio all in one convenient location.
	Louisville Visual Art Association	www.louisvillevisualart.org	(502) 896-2146	100 years & growing, the Louisville Visual Art Association, creating and celebrating art!
	Pyro Gallery	www.pyrogallery.com	(502) 587-0106	Louisville's newest co-operative gallery representing many established artists from the area. With a focus on diverse creations, Pyro has examples of fine art from fiber to photography & categories in between.
Attractions	St. James Court Art Show	www.stjamescourartshow.com	(502) 635-1842	Three-day outdoor art show featuring fine arts & crafts from approximately 700 artists from across the country.
	Belle of Louisville/Spirit of the Jefferson	www.belleoflouisville.org	(502) 574-2992	River cruises on-board the historic Belle & charming Spirit.
	Cave Country Adventures	www.adventureindiana.com	(812) 365-2705	Cave Country Adventures offers walking & natural tours in 2 National Landmark caves, paddling on beautiful Blue River and more.
	Dinosaur World	www.dinoworld.net	(270) 773-4345	Visit over 100 life-size dinosaurs in an outdoor museum setting. Search for authentic fossils to take home at the fossil dig, indoor prehistoric museum & more.
	Kentucky Down Under	www.kdu.com	800-762-2869	Open air animal park focused on Australian animals; located near Horse Cave, KY about 75 miles south of Louisville off I-65.
	Kentucky Horse Park	www.kyhorsepark.com	(800) 678-8813	THE Place to get close to horses, located near Lexington, KY, about 70 miles east of Louisville via I-64 east and I-75 North.
	Louisville Horse Trams	www.louisvillehorsetrams.com	(502) 581-0100	Horse & carriage rides in downtown Louisville.
	Louisville Mega Cavern	www.louisvillemegacavern.com	(502) 855-6342	Underground limestone mining tour focusing on mining, geology, recycling and green building technology. Once the largest civil defense site in Kentucky.
	Louisville Zoo	www.louisvillezoo.org	(502) 459-2181	1,400 animals from all over the world. 90 developed acres.
	Mammoth Cave National Park	http://www.nps.gov/mac/index.htm		This is the world's longest known cave system, with more than 367 miles explored. Guided tours of various lengths. Approx 100 miles south of Louisville off I-65.
	My Old Kentucky Dinner Train	www.kydinnertrain.com	(866) 801-3463	Two-hour train excursion featuring lunch & dinner gourmet meal.
	Red River Gorge and Natural Bridge State Park	www.redrivergorge.com		Collection of sandstone rock formations including Natural Bridge, Chimney Rock, etc. in Eastern KY; hiking and driving trails; about 125 miles east of Louisville via I-64 and the Bert T. Combs Mountain Parkway
	Squire Boone Cavern	www.squireboonecaverns.com	(812) 732-4381	One-hour guided caverns tours & village craft demonstration during summer months.
	Educational Tours/Museums	American Printing House for the Blind	www.aph.org	(502) 895-2405
Carnegie Center for Art & History		www.carnegiecenter.org	(812) 944-7336	Contemporary art gallery, local history museum in a former Carnegie Library that offers changing exhibits, hand-carved dioramas & an underground railroad exhibit.
Cathedral of the Assumption		www.cathedraloftheassumption.org	(502) 582-2971	Historic, Roman Catholic Cathedral in continuous use since 1852.
Falls of the Ohio Foundation		www.fallsoftheohio.org	(812) 280-9970	The Falls of the Ohio Interpretive Center & General George Rogers Clark Home Site highlight the natural & cultural history of the area including 400 million year old fossil beds & Lewis & Clark.
Frazier International History Museum		www.fraziermuseum.org	(502) 753-1034	A world-class museum that takes visitors on an unforgettable journey through 1,000 years of history; with interactive displays, multi-media presentation & costumed interpreters.
Gheens Science Hall & Rauch Planetarium		www.louisville.edu/planetarium	(502) 852-6664	World-class planetarium; K-12 & public astronomy shows, Friday evening laser shows, parties, gift shop & Saturday family shows.
Historic Locust Grove		www.locustgrove.org	(502) 897-9845	National Historic Landmark site includes house museum, gardens & grounds with exhibits & gift shop.
Howard Steamboat Museum & Mansion		www.steamboatmuseum.org	(812) 283-3728	Personal, informative guided tours. Victorian mansion, original furnishings. Steamboat models, tools & artifacts. Self-guided driving tour of up to 6 KY Bourbon distilleries in the central KY region incl Jim Beam, Makers Mark, Woodford Reserve, Wild Turkey.
Kentucky Bourbon Trail		www.kybourntrail.com		
Kentucky Derby Museum		www.derbymuseum.org	(502) 637-1111	Featuring "The Greatest Race", a 360-degree, high definition film.
Kentucky Railway Museum		www.kyrrail.org	(502) 549-5470	Take an excursion on a vintage passenger train through the scenic Rolling Fork River Valley.
Kentucky Show!		www.kentuckyshow.com	(502) 562-7800	A 30-minute, high definition, multi-media journey through the Commonwealth. Now showing inside the Kentucky Center for the Performing Arts.
Little Loom House		www.littleloomhouse.org	(502) 367-4792	Three historic board & batten cabins circa 1870-1890. Weaving center, coverlet collection & exhibit of weaving, looms, spinning wheels & lessons on or offsite.
Louisville Science Center		www.louisvillescience.org	(502) 561-6100	The Louisville Science Center is Kentucky's largest hands-on science center with 40,000 sq. ft. of exhibits & a 4-story tall IMAX theatre.
Louisville Slugger Museum & Factory		www.sluggermuseum.org	(502) 588-7228	World's biggest baseball bat! Factory tour. Interactive exhibits. Personalized bats.
Muhammad Ali Center		www.alicenter.org	(502) 584-9254	Award-winning exhibits, public programs & global initiatives carry on Muhammad's legacy & inspire exploration of the greatness within ourselves.
The National Corvette Museum		www.corvettemuseum.com	(270) 781-7937	To celebrate, preserve & educate the general public on America's Sports Car - the Corvette.
Riverside, The Farnsley-Moremere Landing	www.riverside-landing.org	(502) 935-6809	Riverside is a 300-acre historic Ohio River farm site. The 1837 Farnsley-Moremere house & grounds are open for tours & events.	
Saint Martin of Tours Catholic Church	www.louisville-catholic.net	(502) 582-2827	Established in 1853, designed in the Gothic revival architectural style, replete with ornate frescos & statuary.	

2010 CONFERENCE IN LOUISVILLE, KY

Family Friendly Attractions compiled by Jim Watters



	Schimpff's Confectionary	www.schimpffs.com	(812) 283-8367	Family-owned since 1891; candy store, candy museum, soda fountain, demonstration kitchen & lunch room.
	Schmidt Museum of Coca-Cola Memorabilia	www.schmidtmuseum.com	(270) 234-1100	Coca-Cola antiques collection, the world's largest privately owned collection of Coca-Cola historical artifacts.
Golf Courses	Speed Art Museum - Art Sparks	www.speedmuseum.org	(502) 634-2700	Kentucky's first & largest public art museum, spanning 6,000 years of history.
	Chariot Run Golf Club	www.caesarsindiana.com	(877) 316-7336	The golf course at Horseshoe Casino.
	Fuzzy Zoeller's Champions Pointe Golf Club	www.champions-pointe.com	(812) 294-1800	Fuzzy Zoeller's latest design & unique golf experience is only 15 minutes from downtown Louisville. Fuzzy created a masterpiece of a golf course, classic & open to all.
	Fuzzy Zoeller's Covered Bridge Golf Club	www.coveredbridge.com	(812) 246-8880	Playing Fuzzy's home course, 15 minutes from downtown, is a must when visiting Louisville. One of the finest "open to the public" courses. Championship layout and quality.
	Quail Chase Golf Club	www.quailchase.com	(502) 239-2110	Your public link to championship golf!
Parks & Gardens	Bernheim Arboretum & Research Forest	www.bernheim.org	(502) 955-8512	Wildlife sanctuary with gardens, picnic areas, hiking trails & lakes.
	Jefferson Memorial Forest	www.memorialforest.com	(502) 368-5404	The nation's largest municipal urban forest offers hiking, fishing, horse trails, a 52 ft. climbing tower, retreat facilities & environmental programs for the entire family.
	Waterfront Park	www.louisvillewaterfront.com	(502) 574-3768	Beautiful Waterfront Park, family recreation area, playground, water feature, seasonal special events & concerts with vending.
	Yew Dell Gardens	www.yewdellgardens.org	(502) 241-4788	A botanical garden dedicated to garden education, exquisite display & research.
Sports & Recreation	Atlantis Water Park		(812) 285-0863	Water park with wave pool, water slides, kiddie pool. Group outings, picnics & birthday parties.
	Churchill Downs	www.churchilldowns.com		Home of the KY Derby and Derby Museum; live racing scheduled June 17-20 and 24-27 (subject to change); Please call (502) 637-1111 to schedule a tour of Churchill Downs.
	Green Earth Outdoors	www.greeneearthoutdoors.com	(502) 475-7445	Offering half-day, full-day & overnight outdoor adventures for families & groups in & around Louisville including canoeing, back-packing & nature walks.
	Kart Kountry	www.gokartkountry.com	(502) 543-9588	Family entertainment center featuring the longest go-kart track in the world at over 1.5 miles! Also, miniature golf, batting cages, bumper boats & a huge air conditioned arcade and redemption center.
	Open Range Indoor Paintball & Gun Range	www.openrange-sports.com	(502) 243-8282	Choose our swanky indoor shoot-a-plex for maximum blast. 11,000 sq. ft.. paintbrawl arena, 100-yd. indoor rifle & pistol ranges, full rentals & machine guns too! Tons of fun.
	Slugger Field/Louisville Bats	http://louisville.bats.milb.com		Home of the Louisville Bats Minor league Baseball Team; home games scheduled June 17-20 vs Durham and 21 to 24 vs Toledo; most games 7 pm ex. Sat/Sun 6 pm, Weds 11:45 am
	Paoli Peaks	www.paolipeaks.com		Ski...Ride...Tube. Located in Orange County, IN. Fun for the entire family. Make us your winter destination!

Family Friendly Restaurants

Airport	Cardinal Hall of Fame Café	www.cardinalhalloffamecafe.com	(502) 635-8686	Where great food & great Cardinal memories come together.
	Kem's Café & Bar		(502) 637-4500	Kem's Café & Lounge is a full service casual restaurant open for breakfast & dinner.
	Mark's Feed Store Bar-B-Q	www.marksfeedstore.com	(502) 933-7707	"Friendly Folks Servin' Famous BBQ" since 1988.
	Mike Linnig's	www.mikelinnigsrestaurant.com	(502) 937-6197	Famous since 1925, Louisville landmark & tradition, minutes from downtown, indoor & outdoor dining & children's playground.
	Tumbleweed Southwest Grill	www.tumbleweedrestaurants.com	(502) 937-9951	Serving big, bold, Southwest favorites.
	Wick's Pizza	www.wickspizza.com	(502) 995-4333	Serving up an atmosphere that is unlike any dining destination in Louisville. It starts with our award winning slice of heaven pizza. <i>Louisville Magazine</i> Best of Louisville Awards four years in a row.
Bandstown Rd.	Lynn's Paradise Café	www.lynnparadisecafe.com	(502) 583-3447	Imaginative décor, fine home cooking with a twist.
	Mark's Feed Store Bar-B-Q	www.marksfeedstore.com	(502) 458-1570	"Friendly Folks Servin' Famous BBQ" since 1988.
	Tumbleweed Southwest Grill	www.tumbleweedrestaurants.com	(502) 454-2727	Serving big, bold, Southwest favorites.
	Wick's Pizza	www.wickspizza.com	(502) 458-1828	Serving up an atmosphere that is unlike any dining destination in Louisville. It starts with our award winning slice-of-heaven pizza. <i>Louisville Magazine</i> Best of Louisville Awards four years in a row.
Downtown	Another Place Sandwich Shop		(502) 589-4115	Historic downtown location famous for our homemade subs, soups, salads & desserts.
	Bearno's by the Bridge	www.bearnospizza.net	(502) 584-7437	Voted Louisville's best. Pizza, pasta & more. Free parking, free delivery.
	Fire Fresh Barbecue	www.firefreshbbq.com	(502) 540-1171	
	Hard Rock Café	www.hardrock.com	(502) 568-2202	Bite into the original. The rock n' roll restaurant that's been keeping the faith since 1971. Immortal tunes, classic American chow & the world's largest collection of rock n' roll memorabilia.
	J. Gumbo's Down Home Cajun Cooking	www.jgumbos.com	(502) 589-9245	Serves up the big, bold flavors of the Bayou for just a few bucks.
	Joe's Crab Shack	www.joescrabshack.com	(502) 568-1171	It's loud, it's lively, it's a whole lotta fun! Seafood with an attitude.
	Los Aztecas	www.losaztecas.net	(502) 561-8535	Fresh, authentic Mexican restaurant & bar.
	Old Spaghetti Factory	www.osf.com	(502) 581-1070	A comfortable atmosphere with beautiful antiques in the heart of downtown.
	Toast on Market	www.toastonmarket.com	(502) 569-4099	Offers fabulous pancakes, French toast & omelets. Homemade soups, salads & sandwiches in historic downtown gallery district.
	Tumbleweed Southwest Grill	www.tumbleweedrestaurants.com	(502) 585-4107	Serving big, bold, Southwest favorites.
East End	Buca di Beppo	www.bucadibeppo.com	(502) 493-2426	Immigrant Southern Italian Restaurant serving vital, vibrant & powerfully flavored food.
	Mark's Feed Store Bar-B-Q	www.marksfeedstore.com	(502) 244-0140	"Friendly Folks Servin' Famous BBQ" since 1988.
	Tumbleweed Southwest Grill	www.tumbleweedrestaurants.com	(502) 412-8172	Serving big, bold, Southwest favorites.
	Westport Village	www.westportvillage.com	(502) 581-8800	Proud to offer a wide variety of eateries. Visit the website for a complete list of our fine establishments. Be sure to visit our Special Events page to see the latest offers.
	Wick's Pizza	www.wickspizza.com	(502) 213-9425	Serving up an atmosphere that is unlike any dining destination in Louisville. It starts with our award winning slice of heaven pizza. <i>Louisville Magazine</i> Best of Louisville Awards four years in a row.
Frankfort Ave.	Wild Eggs	www.crackinwildeggs.com	(502) 893-8000	Serving hard working people and their families with great food. Grandma's special recipes include traditional breakfast items as well as unique family dishes.
	The Irish Rover	www.theirishroverky.com	(502) 899-3544	County Clare native Michael Reidy provides authentic Irish pub grub & atmosphere in historic building. Cozy fireside seating or lively patio.
	J. Gumbo's Down Home Cajun Cooking	www.jgumbos.com	(502) 896-4046	Serves up the big, bold flavors of the Bayou for just a few bucks.
	Joe Huber Family Farm & Restaurant	www.joehubers.com	(812) 923-5255	REAL FOOD is waiting for you at Joe Huber Restaurant. Our dining room overlooks the lake & flower gardens. Children love playing in the "Barnyard". Visit our New Soda Pop Shoppe!
Southern Indiana	Mark's Feed Store Bar-B-Q	www.marksfeedstore.com		"Friendly Folks Servin' Famous BBQ" since 1988.
	Tumbleweed Southwest Grill	www.tumbleweedrestaurants.com		Serving big, bold, Southwest favorites.

Meeting Schedule

Monday June 21, 2010

[1113] ChE Executive Committee Meeting, 7:00 a.m.-8:15 a.m.

Moderator(s): Randy Lewis, Brigham Young University
Kentucky International Convention Center, 207

[1413] Chemical Engineering Education: Underclass Years, 12:30 p.m. - 2:00 pm

Moderator(s): Polly Piergiovanni, Lafayette College; Allen Yang, Cornell University
Kentucky International Convention Center, L12

AC 2010-768: INTEGRATING ENGINEERING TO MIDDLE SCHOOL CURRICULUM BY TRAINING TEACHERS, Sundararajan Madihally, Marcus Duffy, Karen High, Oklahoma State University; Lynn Franzmann, Rebekah Reece, Stillwater

AC 2010-1189: USING IMPORTANCE-PERFORMANCE ANALYSIS METHOD TO EVALUATE THE FUNDAMENTAL CHEMISTRY COMPETENCE IN THE UNIVERSITIES OF SCIENCE AND TECHNOLOGY IN TAIWAN, Kwannin Kuo, Pao-Chi Chen, Lunghwa University of Science and Technology; Meei-Ruey Hsu, Ming-Chuan University

AC 2010-489: HOW WE TEACH: FRESHMAN INTRODUCTION TO CHEMICAL ENGINEERING, David Silverstein, University of Kentucky; Margot Vigeant, Bucknell University; Donald Visco, Tennessee Technological University; Donald Woods, McMaster University

AC 2010-2054: STUDENT-PERCEIVED VALUE OF ACADEMIC SUPPORT INTERVENTIONS, Valerie Young, Ohio University

AC 2010-205: CREATING AND SUSTAINING A DEPARTMENTAL CULTURE: IDEAS FOR UNDERGRADUATE PROGRAMS, Don Visco, Tennessee Technological University; Lisa Bullard, North Carolina State University; Jason Keith, Michigan Technological University; David Silverstein, University of Kentucky

[1513] Demonstration and Project Enhancements in Chemical Engineering Education, 2:15 - 4:00 p.m.

Moderator(s): Don Visco, Tennessee Technological University; Christi Patton Luks, University of Tulsa, Kentucky International Convention Center, L12

AC 2010-180: INTRODUCING FRESHMAN ENGINEERING STUDENTS TO EXPERIMENTAL DESIGN: COFFEE BREWING, Stephanie Farrell, Zenaida Otero Gephardt, Rowan University

AC 2010-1373: FERMENTATION LABORATORY EXERCISE HELPS FIRST YEAR STUDENTS UNDERSTAND LOG-TRANSFORMED VARIABLES IN LINEAR REGRESSION, Polly Piergiovanni, J. Ronald Martin, Lafayette College

AC 2010-1056: APPLYING MASS BALANCES TO ALCOHOL METABOLISM: A TEAM PROJECT THAT APPLIES FUNDAMENTAL CHEMICAL ENGINEERING SKILLS TO BIOTECHNOLOGY, Allen Yang, Susan Daniel, Kathryn Dimiduk, Cornell University

AC 2010-2416: BRINGING RESEARCH INTO THE CLASSROOM: CONCEPTUALLY NEW HEAT-EXCHANGE CARTRIDGE FOR CHEMICAL ENGINEERING EDUCATION, Baba Abdul, Gary Brown, Paul Golter, David Thiessen, Bernard Van Wie, Washington State University

[1613] Chemstation Lectureship Award and Presentation 4:30 p.m - 6:00 p.m.

Moderator(s): Jason Keith, Michigan Technological University
Kentucky International Convention Center, L12

This year's winner is Frank Doyle, University of California, Santa Barbara

Meeting Schedule

[1713] ChE Division Awards Dinner 6:30 p.m - 8:30 p.m.

Moderator(s): *Jim Watters, University of Louisville; Randy Lewis, Brigham Young University*

Off site, Kentucky Derby Museum at Churchill Downs

Come and join the ChE Division on the longest day of the year, to celebrate our Division Award winners and "the greatest two minutes in sports!" Members of the ChE Division and their guests will enjoy dinner at the Kentucky Derby Museum at Churchill Downs. Included in the price of the ticket is admission to the museum, full dinner, and a private screening of "The Greatest Race," a 360-degree, multi-media presentation telling the story of the Kentucky Derby. (ticketed, \$65)

Tuesday June 22, 2010

[2113] ChE Department Chair Meeting 7:00 a.m.-8:15 a.m

Moderator(s): *Randy Lewis, Brigham Young University*

Department chairs will assemble for an ad hoc breakfast. Breakfast on your own. Additional information regarding assembly point to follow.

[2213] Contemporary Issues in Chemical Engineering Education 8:30 a.m. - 10:15 a.m.

Moderator(s): *David Silverstein, University of Kentucky; Allen Hersel, Trine University*

Kentucky International Convention Center, 105

AC 2010-1551: EXPLORING THE IMPACT OF VISUALLY-ORIENTED SOFTWARE ON STUDENT UNDERSTANDING IN CHEMICAL ENGINEERING EDUCATION, Richard Zollars, Pawan Agrawal, Christopher Hundhausen, Washington State University

AC 2010-1888: A SOPHOMORE LEVEL COURSE BASED ON BEST PRACTICES FROM THE ENGINEERING EDUCATION LITERATURE, Milo Koretsky, Oregon State University

AC 2010-977: CONSTRUCTIVIST LECTURING WITH REMOTE EXPERIMENTATION AND PERSONAL RESPONSE SYSTEM, Mahmoud Abdulwahed, Loughborough University

AC 2010-2009: DEVELOPMENT OF A WEB-BASED SELF-TEACHING AND ASSESSMENT MODULE FOR CHEMICAL ENGINEERING MICROCHEMICAL SYSTEMS, Patrick Mills, Anuradha Nagaraj, Ali Pilehvari, Srivenu Seelam, Texas A&M University-Kingsville

AC 2010-747: INTERDISCIPLINARY MINOR IN HYDROGEN TECHNOLOGY AT MICHIGAN TECHNOLOGICAL UNIVERSITY, Jason Keith, Jeffrey Allen, David Caspary, Daniel Crowl, John Lukowski, Jay Meldrum, Dennis Meng, Abhijit Mukherjee, Jeff Naber, Barry Solomon, Michigan Technological University

[2413] CHE DIVISION BUSINESS MEETING 12:30 p.m.-2:00 p.m.

Moderator(s): *Randy Lewis, Brigham Young University*

Kentucky International Convention Center, 105; Please bring your own lunch, no food is provided.

[2513] Learning By Doing in Chemical Engineering Education 2:15-4:00 p.m.

Moderator(s): *Anton Pintar, Michigan Technological University; Lale Yurttas, Texas A&M University*

Kentucky International Convention Center, 105

AC 2010-245: RECONNECTING CHEMICAL ENGINEERING STUDENTS WITH THE PHYSICAL WORLD, Larry Glasgow, David Soldan, Kansas State University

AC 2010-505: LEARNING THROUGH REVERSE ENGINEERING, J. Patrick Abulencia, Shannon O'Brien, Manhattan College

AC 2010-2415: SHIFTING GEARS: MOVING AWAY FROM THE CONTROLLED EXPERIMENTAL MODEL, Paul Golter, Baba Abdul, Gary Brown, Dave Thiessen, Bernard Van Wie, Washington State University

Meeting Schedule

- AC 2010-978: DEVELOPING A GENERIC ARCHITECTURE OF A TRIPLE ACCESS MODE ENGINEERING LABORATORY WITH LABVIEW, CASE OF THE LOUGHBOROUGH PROCESS CONTROL LAB, Mahmoud Abdulwahed
- AC 2010-608: AN ALARMING EXPERIENCE: RESULTS OF AN UNDERGRADUATE CHEMICAL PROCESS ALARM LAB MODULE, Peyton Richmond, John Gossage, Qiang Xu, Lamar University

Wednesday June 23, 2010

- [3413] Chemical Engineering Education: Upperclass Years
12:30-2:00 p.m.
*Jim Watters, University of Louisville; Valerie Young, Ohio University
Kentucky International Convention Center, 203*
- AC 2010-2: PROFESSIONAL DEVELOPMENT BUFFET: FROM BANQUET TO À LA CARTE, Lisa Bullard, David Ollis, North Carolina State University
- AC 2010-989: FACTORS INFLUENCING STUDENT SUCCESS IN SUMMER RESEARCH PROGRAMS: FORMAL VERSUS INFORMAL RELATIONAL STRUCTURES, Monica Cox, Angie Andriot, Stephen Beaudoin, Purdue University
- AC 2010-4: IDEAS TO CONSIDER FOR NEW CHEMICAL ENGINEERING EDUCATORS: SENIOR DESIGN, Lisa Bullard, North Carolina State University
- AC 2010-726: A MODULE FOR TEACHING BATCH OPERATIONS, Joseph Shaeiwitz, Richard Turton, West Virginia University
- AC 2010-1889: RESULTS AND ANALYSIS OF A REQUIRED SENIOR EXAM TO ASSESS LEARNING OF COURSE COMPETENCIES, Randy S. Lewis, W. Vincent Wilding, William G. Pitt, Morris D. Argyle, and Thomas A. Knotts, Brigham Young University.

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Register at: <http://www.asee.org/conferences/annual/2010/>

2010 ASEE ChED Election

Welcome to the 2010 ASEE Chemical Engineering Division Election website. Please make sure you enter sufficient information to identify you as a member of the Division when you vote.

There are 4 questions in this survey

Membership Verification

We need to verify you are an active member of the Division. Please enter the information requested.

1 [Name] Please enter your name.

Please write your answer here:

2 [email] Please enter your email address as on file with ASEE.

Please write your answer here:

Please select one person for Division Chair-Elect and one person for Director.

3 [Chair] Please select one candidate for Chair-Elect. You may enter a write-in candidate.

Please choose **only one** of the following:

Stephanie Farrell

Sundar Madihally

Other

4 [Director] Please select one candidate for Director. You may enter a write-in a candidate.

Please choose **only one** of the following:

Michael Prudich

Lale Yurttas

Tamara Floyd Smith

Other

Please fax your completed survey to ASEE ChE Division Secretary-Treasurer Laura Ford at (918)631-3268