

**Civil Engineering Division
of the
American Society for Engineering Education
May 2005**

Newsletter editor: Shashi Nambisan, Professor of Civil Engineering
University of Nevada, Las Vegas; E-mail: shashi@ce.unlv.edu Tel: 702.895.1325

In this issue:

A Note on Elections	1
Message from the Chairman	1
Schedule of 2005 Annual Conference CE Sessions	2-3
Soils Magic Session at Portland	3
Report on Student Competitions	4
ASCE Practitioner and Faculty Advisor Training Workshop	4, 5, 7
2004 Annual Conf. Highlights	5-6
CE Division Leadership Info	7

**NOTE: The 2005 Annual
Conference will be held June 12-15,
2005 in Portland, OR.**

A Note on Elections

Wilf Nixon, University of Iowa

As we did last year, so too this year we will be holding elections for the Civil Engineering (CE) Division officers by E-mail. Shortly, you should receive an e-mail from me containing the names of the candidates for elective office, together with brief bios of the candidates. Please participate in the election. A strong Division is good for civil engineering education!

Message from the Chairman

Wilf Nixon, University of Iowa

The academic year is drawing to a close, which typically means two things. I stagger exhausted to the end of the spring semester (which always seems much more tiring than the fall, for as yet unknown reasons) and strive mightily to finish my grading before the Registrar's Office starts to send me rude messages. However, to bolster this grim task, I can look forward to those few days in June that represent the ASEE Annual Meeting and will include the various CE Division activities – see details in this newsletter. As always, we will have our banquet this year, our two lunches, and a Chi Epsilon lunch. Our RAP session, which is always the scene of much deep discussion and musing,

will offer a great opportunity for socializing with fellow CEs. Of course, in addition to all these social events, there are a number of technical sessions, at which we can all learn about the latest happenings in Civil Engineering Education. Some photos from the 2004 Annual Meeting are included in this newsletter. All these lead me to remind you to register for the Annual Meeting. I hope to see you there.

Part of my staggering to the end of the academic year this May stems from yet another year in which funding from the state has been less than hoped for (and requested) by the Regent's Universities here in Iowa. I do not think we Iowans are alone in this experience! There is increasing fiscal pressure in many state funded universities, and in many cases the response is similar - more research, is the cry! I do not wish to suggest that I am in any way an expert at the intricacies of university funding, but I am concerned that with the push for more research, the educational mission of many universities may suffer. I draw strength from the commitment I see each year in the CE Division technical and social sessions, and my hope for the educational mission is always bolstered. If you too are feeling the pressure on the critically important educational mission in your institution, then I hope you will attend the conference and, if not already involved, consider increasing your involvement with the CE Division. Now, as much as ever, we need faculty who are committed to the importance of student learning in higher education.

Civil Engineering Division Schedule for the Portland Conference, June 12-15, 2005 **Jim Hanson, Lawrence Technological University, Program Chair**

The Civil Engineering Division has a busy and exciting Program planned for the ASEE Annual Conference and Exposition. The conference is being held in Portland, Oregon from June 12 – June 15. We invite you to participate in these fun-filled and enriching activities. A brief overview of the sessions is provided below.

Session 1315 (Monday June 13: 8:30-10:15 am) – “Engaging Upper Level Classes”

Session focuses on integrating technology and course content to enhance classroom learning, effective teaching in upper level classes, and innovative classroom settings.

Session 1415 (Monday June 13: 12:30-2:00 pm) – Civil Engineering Division Luncheon

Provides opportunity to update membership as to current issues facing the CE Division. Preview of upcoming sessions and activities at the conference, review of budget, and any changes in Division policy are addressed at this meeting.

Session 1515 (Monday June 13: 2:30-4:15 pm) – “Innovations in CE Education”

Session addresses broad array of innovations in civil engineering education including curricular developments, student skills, assessment, and professional licensure.

Session 1615 (Monday June 13: 4:30-6:00 pm) – “Implementing the Civil Engineering Body of Knowledge - Can it be Done?”

This session focuses on the Civil Engineering Body of Knowledge (BOK) - the knowledge, skills, and attitudes necessary to enter into the professional practice of civil engineering. Curricula partners will share their challenges, opportunities, and obstacles associated with implementing the BOK in a CE curriculum.

Session 1815 (Monday June 13: 7:00 – 10:00 pm) – Civil Engineering RAP Session

A reception is held for the Civil Engineering Division to provide an opportunity to discuss current issues in CE Education. Renowned Soils Magician Dr. David Elton will provide a special presentation. Session will be held on the Portland State University campus. A short tour of the PSU seismic testing laboratory facilities will also be included.

Session 2115 (Tuesday June 14: 7:00-8:15 am) – “Engineers in Toyland - Come and Play!”

This session focuses on using instructional technology (teaching infrastructure as well as teaching technologies) to meet the educational needs and expectations of engineering learners and to maintain a learner-centered atmosphere.

Session 2215 (Tuesday June 14: 8:30-10:15 am) – “New! Improved! CE Accreditation Criteria”

This session will provide attendees with the most up-to-date information concerning the new draft accreditation criteria as well as the draft master plan for future implementation of the criteria.

Session 2415 (Tuesday June 14: 12:30-2:00 pm) – Civil Engineering Planning Luncheon

Luncheon meeting to allow for planning theme and sessions associated with 2006 ASEE conference. Although, the session is ticketed, individuals who do not wish to have lunch at the session are welcome to participate in the planning activities without purchasing a ticket.

Session 2615 (Tuesday June 14: 4:30-6:00 pm) – “A through K and Beyond”

This session focuses on issues related to the expansion of program outcomes proposed by the Body of Knowledge (BOK) including use of adjunct professors, integration into the curriculum, and assessment.

Session 2815 (Tuesday, June 14: 7:00-9:30 pm) – Civil Engineering Banquet

The annual banquet provides an opportunity for a social gathering including presentation of numerous Civil Engineering Division awards. The banquet will be held at the Portland City Grill, overlooking the city.

Session 3215 (Wednesday June 15: 8:30-10:15 am) – “Innovation in Curriculum Development”

This session focuses on advances in engineering curricula; including effective teaching in curriculum development and streamlining the delivery of the content.

Session 3415 (Wednesday June 15: 12:30-2:00 pm) – Chi Epsilon Luncheon

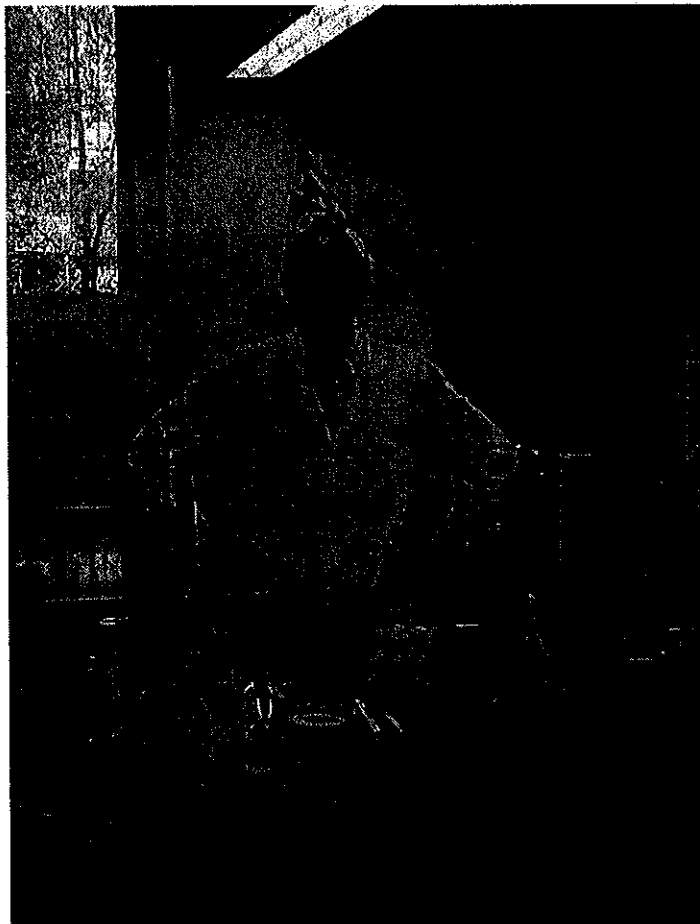
Allows membership of Chi Epsilon to gather to discuss current issues in the honor society. Dr. Alan Prasuhn will provide an invited presentation related to history of civil engineering.

Session 3515 (Wednesday June 15: 2:30-4:15 pm) – “Teaching Outside the Box in Civil Engineering”

This session focuses on the interface between practitioners and civil engineering classrooms. Innovative methods for classroom delivery and course content will be addressed.

**Soils Magic Summer Tour to Include
Stop at the ASEE Conference in
Portland, OR**

The Civil Engineering Division Annual RAP Session (evening reception) will be held this year on the campus of Portland State University. As part of the evening’s program, renowned Soils Magician David Elton will present his Soils Magic Show. David serves on the Civil Engineering faculty at Auburn University. His exciting experiments demonstrating curious behavior of soils have been used for educational and entertainment purposes in university settings and in K-12 outreach activities. His demonstrations are bound to inspire civil engineering educators to adopt similar programs in their teaching and outreach activities. *The RAP session will be held on Monday evening between 7:00 and 10:00 pm.* A walking tour to Portland State University’s Seismic Testing Laboratory will also be offered that evening. Beverages and light refreshments will be served at the RAP Session.



A Report on Student Competitions

Jim O'Brien, Director, Educational Activities, American Society of Civil Engineers (ASCE)

1. West Point Bridge Design Contest 2005 (ASCE is Primary Sponsor)

➤ *Qualifying Round*

- Ran from Jan 6-Feb 28, 2005
- 13,069 registered teams
- Submitted 42,962 unique designs

➤ *Semi-final Round*

- March 12, 2005 via internet
- Top 85 teams (approximately 20 teams per ASCE zone)
- Over 1,000 designs in 3 hour competition

➤ *Final Round*

- Held at West Point, NY on April 11, 2005
- Top 5 teams
- Very close competition
- Top team was Team ThereIsNoBridge, a team of two brothers David & Thomas Michon from Irvine, CA

➤ *Local Contests are still available through July 5, 2005*

- Open to everyone
- Any size you want: entire state through Sister Mary Cunagundum's 4th hour, seventh grade, science class.
- Any time period you want: today through July 5 or 2 hours on Friday morning.
- Costs nothing (unless you want to give out prizes, etc)
- Need Additional Information? See the "Resources" tab at <http://bridgecontest.usma.edu>
- Other questions, contact Jim O'Brien at jobrien@asce.org

➤ *Contest in 2006?* ASCE BOD decides whether or not to fund at July BOD meeting.

2. *ASCE/AISC National Student Steel Bridge Competition:* Have selected finalists during competitions at ASCE Student Regional Conferences (18 different sites across the US). Finalists will compete at the University of Central Florida in Orlando, FL on May 27-29, 2005.

3. *ASCE National Concrete Canoe Competition:* Have selected finalists during competitions at ASCE Student Regional Conferences (18 different sites across the US). Finalists will compete at Clemson University in Clemson, SC on June 25-27, 2005.

ASCE Practitioner & Faculty Advisor Training Workshop 2004:

Advisors are the Key

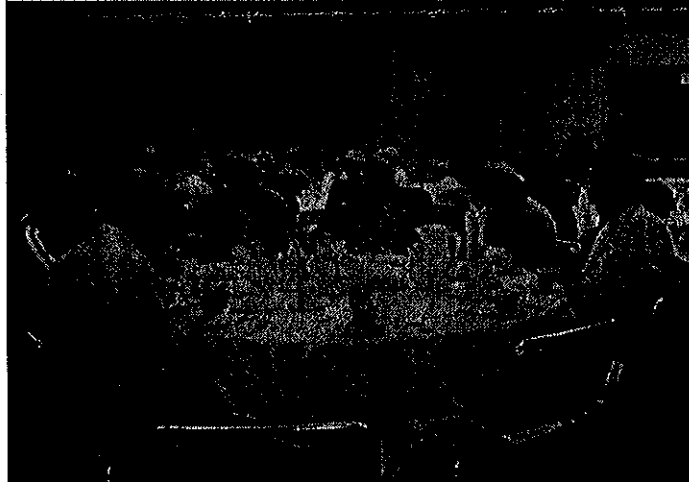
Gregg L. Fiegel, California Polytechnic State Univ., San Luis Obispo, CA, Chair of CSA, ASCE
The ASCE Practitioner and Faculty Advisor Training Workshop (PFATW), sponsored by the ASCE Committee on Student Activities (CSA) with support from ASCE Student Services, was held in Herndon, Virginia on August 27, 28, and 29, 2004. Each year the CSA devotes considerable time and effort to organizing and running the PFATW because of the extremely important role that advisors play in their ASCE Student Chapter or Club. The CSA believes that advisors, both faculty and practitioners working together, are critical in shaping the future of ASCE. For most civil engineers their first exposure to ASCE is through their school's student organization, where strong advisors need to be available to help show the way. *(continued on page 7, see PFATW)*



Practitioner and Faculty Advisor Training Workshop, August 2004

2004 ASEE Civil Engineering Division Conference Highlights, Salt Lake City, Utah (June 2004)

By Vincent P. Drnevich, 2003-2004 C.E. Div. Chair and Shashi Nambisan, Newsletter Editor



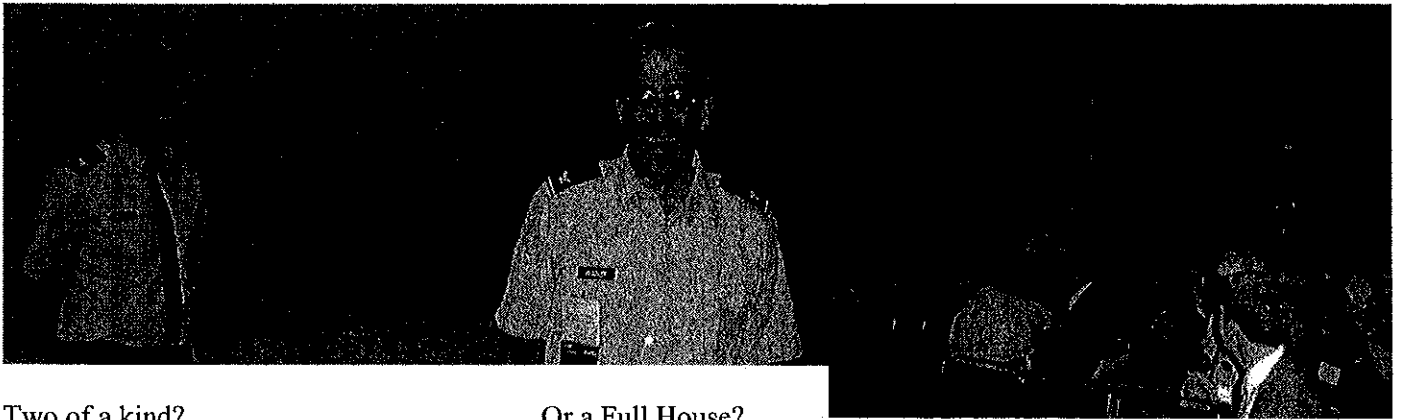
Deliberations.



Deliberations,



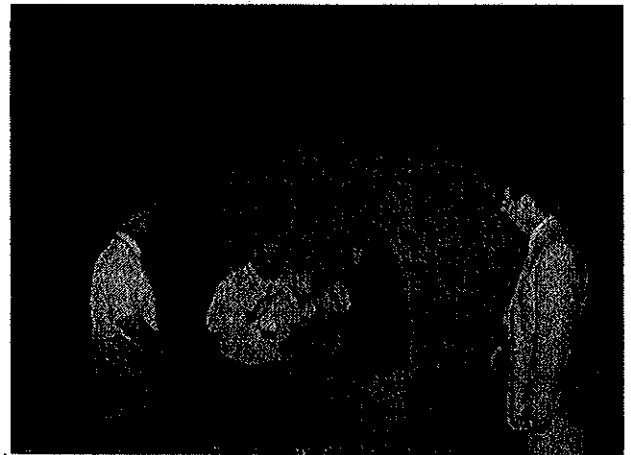
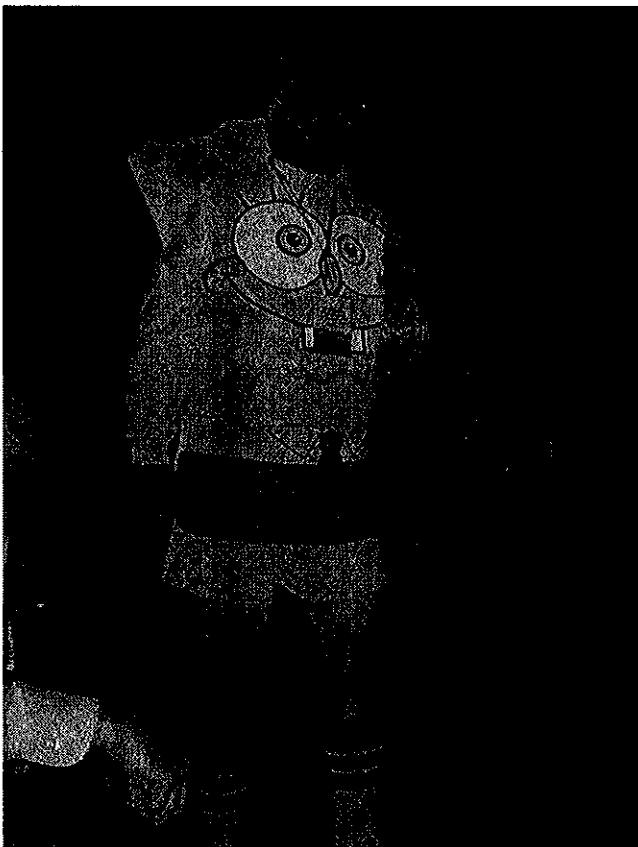
Deliberations ...



Two of a kind?

Or a Full House?...

Engineering Education Seems Like Child's Play, or Is It?



PFATW (continued from page 4)

The 2004 PFATW was the fifth, with participants coming from as far away as Alaska and Hawaii. As in past years, this year's workshop was a great success. The CSA was pleased to see a dozen practitioner advisors included in this year's total number of 32 participants. The participants were able to find time in their busy schedules to travel to Herndon, where they networked with other advisors and learned how to make their ASCE Student Organization more successful. During the workshop the participants had the opportunity to hear from experienced advisors on a wide range of issues, including membership recruitment, service projects, fundraising and motivating student leaders. Roundtable discussions and Q/A sessions allowed the participants to tackle these topics and other issues in more detail and promoted interaction among the group members. An intense schedule continued from Friday afternoon through Sunday morning, with a relaxing Saturday evening out in Georgetown. Saturday evening's activities provided a great venue for casual conversation during dinner and a separate boat cruise on the Potomac River.

Overall the participating advisors felt their time was well spent, with many expressing appreciation for the valuable information and insights gained through the workshop activities. The CSA looks forward to the improved student regional conferences and annual reports that will, no doubt, result from mentoring by the newly trained faculty and practitioner advisors. The CSA strongly believes that a faculty/practitioner team affords ASCE students with a broad perspective of the civil engineering profession.

If you are interested in improving your ASCE Student Organization, think about signing up. The workshop is geared specifically towards ASCE faculty and practitioner advisors who are new to the job; although, the seasoned advisor is always welcome. For information, or to apply for the 2005 ASCE Practitioner and Faculty Advisor Training Workshop, please contact ASCE Student Services at student@asce.org.

ASEE CE Division Leadership (as of 22 June 2004)

	2002-3	2003-4	2004-5
Immediate Past Chair	J. P. Mohsen	Steve Ressler	Vince Drnevich
Chair	Steve Ressler**	Vince Drnevich*	Wilf Nixon**
Vice Chair/ Program Chair	Vince Drnevich*	Wilf Nixon**	Jim Hanson*
Senior Director	Wilf Nixon	Jim Hanson	Kristen Sanford Bernhardt
Mid-Term Director	Jim Hanson	Kristen Sanford Bernhardt	Ron Welch
Freshman Director	Kristen Sanford Bernhardt	Ron Welch	Dennis Fallon
Secretary-Treasurer	Marvin Criswell	Marvin Criswell	M. Asghar Bhatti
Newsletter Editor	Dennis Fallon	Shashi Nambisan	Shashi Nambisan
Historian	Tom Lenox	Tom Lenox	Tom Lenox
Committee on Educational Policy	Wilf Nixon Walter Vodrazka	Wilf Nixon Walter Vodrazka	Larry Cartwright Doug Schmucker
Committee on Effective Teaching	Scott Yost Eric Matsumoto	Scott Yost Eric Matsumoto	Anant Kukreti Chris Masters
Committee on Instructional Technology	Ron Welch Kevin Sutterer	Ron Welch Asghar Bhatti	Ron Welch Andrea Maleck Surovek
Committee on Professional Practice	Yusuf Mehta	Yusuf Mehta	Dennis J. Fallon Robert J. Houghtalen
Committee on Curriculum Development		Tonya Emerson	Tonya Emerson
Awards Committee	Jim Nau (Chair) Sam Clemence J.P. Mohsen	Sam Clemence (Chair) J.P. Mohsen Steve Ressler	J.P. Mohsen (Chair) Steve Ressler Vince Drnevich
Nominating Committee	J.P. Mohsen (Chair) Steve Ressler Sam Clemence	Steve Ressler (Chair) Vince Drnevich J.P. Mohsen	Vince Drnevich (Chair) Wilf Nixon (active past Chair)

*ASEE Liaison to ASCE Educational Activities Committee (EdAC)

**ASEE Liaison to ASCE Committee on Curricula and Accreditation (CC&A)

ASEE Annual Conference, Portland, Oregon

June 12-15, 2005

"The Changing Landscape of Engineering and Technology Education in a Global World"

The URL for the Conference Web site is:

<http://asee.org/about/events/conferences/annual/2005/index.cfm>

THANK YOU for taking the time to read this newsletter AND for sending me your input / feedback. If you have suggestions, please call me at 702-895-1325 or send an e-mail to: shashi@ce.unlv.edu. Shashi Nambisan, Editor.

Transportation Research Center
University of Nevada, Las Vegas
4505 Maryland Parkway
Box 454007
Las Vegas, Nevada 89154-4007

Non-Profit Org
U.S. Postage
PAID
Permit No. 200
Las Vegas, NV

Dr. Thomas A. Lenox
1506 Elk Point Drive
Reston, VA 20194