

# The ASEE Environmental Engineering Division Newsletter

Spring 2008

## A Message from the Division Chair

Dear Colleagues:

Spring has arrived (and I must say a beautiful one in the northeast) and another academic year is coming to a close. Before we know it, we will be in Pittsburgh for the ASEE Annual Conference.

I'd like to congratulate Brent Houchens, the recipient of the 2008 Early Career Award based on his paper entitled "Adaptive Water Laboratory for K-12 Outreach on Sustainable Water Use." Please join us at 2:15 pm on Monday June 23 when Brent will be presenting his paper at the conference. Llewellyn Mann, David Radcliffe, and Gloria Dall'Alba won the 2007 ASEE Best Paper Award on their paper entitled "Experiences of Sustainable Design Among Practicing Engineers? Implications for Engineering Education."

Kevin Bower has put together an interesting program for this year's meeting. There were 31 abstracts submitted with 22 papers accepted that will be presented in six technical sessions. I would like to also thank Beth Wittig and Helene Hilger who assisted Kevin in organizing two sessions on sustainability. They worked hard at soliciting speakers from a variety of disciplines and program sizes, and varying the presentation format to promote interaction between speakers and the audience. We hope that this type of effort can lead to more interesting and productive environmental engineering technical sessions.

If you are attending the conference, please join us for our division meeting on Tuesday at 12:30 pm. We will be continuing our efforts to develop ways to increase the number of division papers and the overall interest in our division's technical sessions. Other initiatives include working more closely with AEEESP and for providing incentives for graduate students that are committed to teaching to attend and present at the annual conference. The division will be having our social/dinner on Tuesday at 6:30 pm at McCormick and Schmick's Seafood Restaurant. The dinner is an informal gathering that provides opportunities to talk and network with colleagues.

Thank you for letting me serve as Division Chair and I look forward to continuing our efforts in making the division an important resource for environmental engineering education.

Sincerely,

David Pines  
Associate Professor and  
Chair

Department of Civil, Environmental, and  
Biomedical Engineering  
University of Hartford,  
West Hartford, CT.



Be sure to check out the Division Web Site:  
<http://users.rowan.edu/%7Ejahan/asee/Home.html>

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<a href="#">1351 Sustainability and Engineering Courses</a>	Monday June 23	10:30 a.m. - noon
<a href="#">1451 Assessment Issues in Environmental Engineering</a>	Monday June 23	12:30 p.m.- 2:00 p.m.
<a href="#">1551 Service – Learning Projects</a>	Monday June 23	2:15 p.m.- 4:00 p.m.
<a href="#">2251 Innovations to Curriculum and Program</a>	Tuesday June 24	8:30 a.m.- 10:15 a.m.
<a href="#">2451 Business Meeting</a>	Tuesday June 24	12:30-2:00 p.m.
<a href="#">2551 Sustainability and Engineering Programs</a>	Tuesday June 24	2:15 p.m.- 4:00 p.m.
<a href="#">2751 Environmental Engineering Social/Dinner</a>	Tuesday June 24	6:30 p.m.- 8:00 p.m.

*This year our annual Business Meeting will be held on Tuesday June 24 from 12:30 to 2:00 PM. Members are strongly encouraged to attend to provide the Division with enriching feedback for improvements and input for the 2009 conference. Elections will also be held for the Treasurer position.*



**Division Social**  
**June 24 6:30-8:00 PM**

This social event is open to all division members, prospective members, families and friends. The event provides a relaxed atmosphere to socialize and honor the Best Paper Award and the Early Career Grant recipients and the Outgoing Division Chair. The division honors the awardees with a plaque, certificate and a free invitation for the dinner.

This year the dinner will be held at **McCormick & Schmicks** which is just a few blocks from the convention center.



[www.mccormickandschmicks.com](http://www.mccormickandschmicks.com)

Please inform Dr. Kevin C. Bower at [kevin.bower@citadel.edu](mailto:kevin.bower@citadel.edu) if you plan on attending.

## BEST PAPER AWARD 2007

*“Experiences of Sustainable Design Among Practicing Engineers: Implications for Engineering Education”*

**David Radcliffe** is the Thies Professor of Engineering Education and Professional Development in the School of Engineering at the University of Queensland. His research draws on and involves collaboration with the social sciences including education and anthropology. David is co-director of the Catalyst Centre and Director of Professional Development in the School. He was a National Teaching Fellow, in 1994 and a Boeing-A.D. Welliver Fellow, in 1999. In 2007, Dr Radcliffe took up a position in Engineering Education at Purdue University



**Llewellyn Mann**, is a PhD student in the School of Engineering at the University of Queensland and a member of the Catalyst Research Centre for Society and Technology. He has a Bachelor of Engineering (Mechanical & Space) and a Bachelor of Science (Physics) from UQ, as well as a Graduate Certificate of Education (Higher Education).



**Gloria Dall'Alba** teaches and researches in the area of teaching and learning in higher education in the School of Education at the University of Queensland, Australia. She has a particular interest in professional education, learning in the workplace, and questions of research methodology. She has published articles in international journals such as Learning and Instruction, International Journal of Educational Research, and Studies in Higher Education.



## EARLY CAREER AWARD, 2008

**Dr. Brent Houchens from Rice University is the 2008 Early Career Award recipient.**

He is an Assistant Professor of Mechanical Engineering in the Mechanical Engineering and Materials Science Department at Rice University. His research interests include modeling flow and separation in reverse osmosis membrane filtration. Brent is also active in developing programs that combine graduate and undergraduate education with K-12 outreach to socio-economically disadvantaged students. He will present on *“Adaptive Water Laboratory for K-12 Outreach on Sustainable Water Use.”*



## OFFICERS

### July 2007 - June 2008

**Division Chair:** David Pines  
University of Hartford, CT.  
[pines@mail.hartford.edu](mailto:pines@mail.hartford.edu)

**Program Chair:** Kevin Bower  
The Citadel, Charleston, South Carolina.  
[kevin.bower@citadel.edu](mailto:kevin.bower@citadel.edu)

**Secretary:** Angela Bielefeldt  
University of Colorado, Boulder  
[Angela.Bielefeldt@colorado.edu](mailto:Angela.Bielefeldt@colorado.edu)

**Treasurer:** Sharon A. Jones  
Lafayette University  
[jonessa@lafayette.edu](mailto:jonessa@lafayette.edu)

*Please note that the Treasurer position is open for 2008-2009. Please contact Dr. Kevin Bower at [kevin.bower@citadel.edu](mailto:kevin.bower@citadel.edu) if you are interested. Elections will be held during the Division Business Meeting on June 20, 2007 from 12:30 to 2:00 PM.*

## Best Paper Award

The author must be a current member of ASEE and of the Environmental Engineering Division. The paper must be submitted to the proceedings. **The author (not a graduate student or colleague) must present the paper.** For multiple authors, at least one paper author must be a division member, and the presentation at the conference must be made by a division member. In cases of multiple qualified authors, the prize will be split.

**Prize is dinner for winner + 1 guest and recognition at the Division dinner, a plaque, and an honorarium of \$200.**

### EARLY CAREER AWARD 2009

The Environmental Engineering Division of ASEE is pleased to announce the Early Career Grant. Recipients of this grant will receive an honorarium to cover a portion of the travel expenses, and will be guests at the Environmental Engineering Division Dinner.

## Eligibility Criteria

Applicant will be in a tenure-track position as of August 30, 2008. Applicant will be un-tenured as of August 30, 2008. Applicant teaches at any 2- or 4-year University that offers at least one environmental engineering course.

***The abstract must be submitted to the Environmental Engineering division.***

## Selection Criteria

A single recipient will be selected based on the paper submitted. A selection committee will judge the paper based on its ability to positively impact environmental engineering education.

## Application Process

To apply, simply ensure that the last line of the abstract contains the following sentence:

***"I am eligible for the Environmental Engineering Division Early Faculty Grant."***

If you have any questions, please feel free to contact the Environmental Engineering Division Program Chair for 2009 (Angela Bielefeldt) at [Angela.Bielefeldt@colorado.edu](mailto:Angela.Bielefeldt@colorado.edu)

## Meritorious Service Award

Members of the ASEE Environmental Engineering Division who, in the opinion of the reviewing officers, have performed activities or provided services to the Division benefiting the Division and deserving of special recognition are eligible for this award. For example, a member who provides sustained active contributions of major tasks over many years might be eligible for this award. The current Division Chair and Program Chair are ineligible to receive this award. Nominations should document these contributions. A call for nominations will be published in electronic and/or other publications for the Division. Nominations may be submitted to the Division Chair by letter, fax, or email, with a deadline of March 1<sup>st</sup> of the year in which the award is to be presented. The division officers will receive nominations and select an award winner.



## CALL FOR PAPERS

### ASEE Annual Conference 2009

The Environmental Engineering Division of ASEE invites papers for the Annual Meeting to be held in Austin, Texas, June 14-17, 2009. The division will offer sessions that include papers on the following topics:

- Innovative pedagogical methods in teaching environmental engineering courses;
- Innovative uses of current and emerging technologies in teaching environmental engineering courses;
- Service learning in developing communities, e.g. “Engineers without Borders.”
- Development of new or hybrid courses in environmental engineering, e.g. Environmental Biology, Environmental Security, Environmental and Public Health;
- Globalization, Global warming, Sustainability;
- Recruiting environmental engineering students;
- Problem based learning projects;
- Undergraduate research experiences;
- Interdisciplinary projects and contests; and,
- Accreditation and assessment, e.g. BOK, graduate program accreditation, innovations in assessment.

**The Environmental Engineering Division now requires that presenters publish their papers in the ASEE conference proceedings.**

Questions may be addressed to the Environmental Engineering Division 2009 Program Chair, Dr. Angela Bielefeldt at [Angela.Bielefeldt@colorado.edu](mailto:Angela.Bielefeldt@colorado.edu)