

The ASEE Environmental Engineering Division Newsletter

Spring 2011

A Message from the Division Chair

Dear Colleagues:

The upcoming ASEE annual conference will be held at the Vancouver International Convention Center, and will cover a broad range of engineering education topics, including sessions sponsored by the Environmental Engineering Division. We hope that you will join your colleagues in the Environmental Engineering Division for an outstanding program, organized by Program Chair Sharon Jones.

The Division program includes three technical sessions with 12 papers that focus on ways to enhance classes and improve programs. An overview of the Division Program can be found elsewhere in this newsletter. At the beginning of this year's paper submittal process, there were 22 abstracts submitted, which was close to the number that was submitted the previous year (26).

We will be holding our traditional Environmental Engineering Awards Dinner on Tuesday evening, beginning at 7:00 PM at the Water Street Café. We have a change from past years that is important to note. Instead of paying individually for Dinner after arriving at the restaurant, a person attending the Dinner must purchase a ticket through the ASEE registration process. The Division anticipates that the cost of the meal will exceed the ticket cost and will pay the extra amount. If you did not have a chance to register for the Dinner during advance registration, contact Sharon Jones as soon as possible at jnessa@lafayette.edu. She can arrange with you to collect the ticket fee and update the dinner count. Please note that seats are limited so advance registration is strongly encouraged.

We hope that you will be able to join us for the Awards Dinner this year. As in the past, we will be recognizing recipients of several awards. One is the best paper award, which this year goes to Stephanie Luster-Teasley and Cindy Waters of North Carolina A&T University. The recipient of the Early Career Award is Isaac Wait of Marshall University. Another award that we are pleased to present this year is the Best Student Paper, which this year goes to Jonathan Wiggins of the University of Colorado. Jonathan is the lead author on the paper. Students and

recipients is an author of a paper included in one of the Division technical sessions.

Our annual business meeting will be held on Tuesday from 12:30 – 2:00. The meeting is open to all members and we would appreciate your participation if you can attend.

As the year draws to a close, I would like to thank the officers whom I have had the opportunity to work with over the past few years. Sharon Jones has put in a lot of hard work this year as Program Chair. Not only did she perform all the normal tasks of a program chair, but she is serving as program chair during the initial year of the new paper submittal software Monolith. No doubt future program chairs will benefit from her efforts this year. Kausar Jahan is the secretary and also has been serving as the newsletter editor for a number of years. Each year she donates many hours of her time to the Division and I am very appreciative of her service to the Division. Junko Munakata-Marr is doing an outstanding job as treasurer, a job that contributes much to the success of the Division (and one that gets very busy this time of year). Last year, the Division elected two Directors. They are Angela Bielefeldt and Kevin Bower. Both have served as program chairs of the Division and both have been invaluable to me in the positions that I have held. Finally, thanks to all of you for the opportunity to serve ASEE through this Division. It has been a privilege and I look forward to continuing to work with you in the future to enhance environmental engineering education.

Sincerely,

Ken Brannan
Professor and Head
Department of Civil and
Environmental Engineering
The Citadel



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

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Session M436: Introducing Sustainability into Engineering Education

Mon. June 27, 2011 12:30 PM to 2:00 PM
Room 116

Session M536: What Else do Environmental Engineers Need to Know

Mon. June 27, 2011 2:15 PM to 3:45 PM
Room 220

Session 236: Techniques to Enhance Environmental Engineering Courses

Tue. June 28, 2011 8:45 AM to 10:15 AM
Room 223

Session T436: Environmental Engineering Business Meeting

Tue. June 28, 2011 12:30 PM to 2:00 PM
Room 221

Session T736-Environmental Engineering Awards Dinner

Tue. June 28, 2011 7:00 PM to 10:00 PM
Water St. Cafe, 300 Water Street,
BC V6B 1B6 (604) 689.2832

This year our annual Business Meeting will be held on Tuesday June 28 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 2012 conference. Elections will also be held for the Treasurer position.



Division Social

Tuesday June 28 7:00-10:00 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 Division Award recipients and the Outgoing Division Chair. The division honors the awardees with a plaque, honorarium and a free invitation for the dinner.

This year the dinner will be held at the **Water Street Cafe** at 300 Water Street.

(See discussion on registering for the Dinner in "A Message from the Division Chair" and be sure to contact Program Chair Sharon Jones as noted in this section.)



DIVISION AWARDS BEST PAPER AWARD 2011

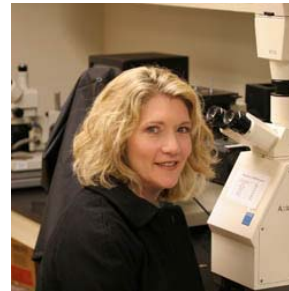
"Reforming Environmental Engineering Laboratories for Sustainable Engineering: Incorporating Problem Based Learning and Case Studies into an Environmental Engineering Lab Course"

Stephanie Luster-Teasley is a tenure-track

assistant professor with a joint appointment between the Departments of Civil, Architectural, Agricultural and Environmental Engineering and the Department of Chemical Engineering at North Carolina A & T State University. She has a BS in chemical engineering from



North Carolina A&T State University, a MS in chemical engineering from Michigan State University, and a PhD in environmental engineering from Michigan State University. She specializes in physical and chemical remediation processes for water and soils. Her educational research investigates the use of problem based learning and case studies to improve classroom instruction.



Cindy Waters is an adjunct Assistant Professor of Mechanical and Chemical Engineering at North Carolina A & T State University. Cindy received her undergraduate BS and MS degrees from Virginia Tech and received her PhD

in Mechanical Engineering from North Carolina A & T State University. Her research interests include

- Biomedical materials
- Advanced powder materials
- Structure-Property Relationships with FEM
- Electron Microscopy
- Materials Processing
- Fracture Mechanics

Cindy is also a Research Associate with the Center for Advanced Materials and Smart Structures. She teaches the introductory Materials Science course required of all engineering undergraduates.

EARLY CAREER AWARD 2011

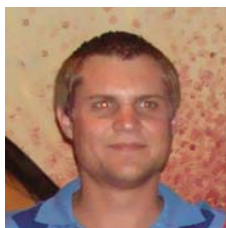


Isaac W Wait is an assistant professor at Marshall University at West Virginia in the Weisberg Division of Engineering and Computer Science. He teaches courses in water resources, environmental engineering, and introduction to engineering.

Dr. Wait joined Marshall in 2009 after four years teaching at an American university in the United Arab Emirates, and he is the faculty advisor for Marshall's "Engineers without Borders" student club. Dr. Wait's research interests include drinking water disinfection, water econometrics, and engineering education of non-native English speakers.

BEST STUDENT PAPER AWARD 2011

Jonathan Wiggins is the recipient of the Best Student Paper award for his paper titled "Students and Sustainability: Assessing Students' Understanding of Sustainability from Service Learning Experiences."



Jonathan is pursuing his MS degree in Civil Engineering with an environmental emphasis and also earning the Engineering for Developing Communities certificate at the University of Colorado – Boulder. He is currently conducting a field practicum in Nepal working on water and sanitation issues.

MERITORIOUS SERVICE AWARD

Kevin C. Bower is an Associate Professor at The Citadel, The Military College of South Carolina, Charleston, SC. Kevin has served the division by holding various positions as Treasurer, Secretary, Program and Division Chair. During this time he was instrumental in changing the by-laws for the Division to allow the division papers to be considered for the PIC and overall ASEE best paper awards. It was because of Kevin's hard work and devotion that the division received the PIC and overall ASEE best paper award last year.



2010 ASEE BEST PAPER AWARD

The ASEE Environmental Engineering Division's 2009 best paper titled *"Measuring the Impacts of Project-based Service Learning"* moved forward to win the overall ASEE Best Paper Award after it received the 2009 PIC II Best Paper Award. This is the first time that a paper from the ASEE Environmental Engineering Division received such recognition. The deserving authors include Angela Bielefeldt from *University of Colorado, Boulder*; Kurt Paterson from *Michigan Technological University*, and Christopher Swan from *Tufts University*. The ASEE Environmental Engineering Division has seen not only a steady growth in its membership over the years but also quality papers and presentations.



OFFICERS July 2011-June 2012

Division Chair: Sharon A. Jones
Dean, University of Portland
joness@up.edu

Program Chair: Kauser Jahan
Rowan University
jahan@rowan.edu

Secretary: Dr. Junko Munakata-Marr
Colorado School of Mines
junko@mines.edu

Treasurer: To be elected

Please note that we will be electing a Treasurer for 2011-2012. If you are interested in the position please contact Sharon Jones at jonessa@lafayette.edu or be present at the Division business meeting.

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

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, 2011. Applicant will be un-tenured as of August 30, 2011. 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 2012 (Kauser Jahan) at jahan@rowan.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 1st of the year in which the award is to be presented. The division officers will receive nominations and select an award winner.

BEST STUDENT PAPER AWARD

The Environmental Engineering Division of ASEE is pleased to announce the Best Student Paper Award. The first author of the paper must be an undergraduate or graduate student and they must present the paper at the Annual Conference. Faculty are allowed to be co-authors. Paper must focus on pedagogical issues.

The Division will award up to three awards each year with the awardees receiving \$1,000 each with a plaque. Awardees will be guests at the Environmental Engineering Division Dinner.

**ASEE Annual Conference 2012
San Antonio, Texas, USA
June 10-13, 2012**



CALL FOR PAPERS

The Environmental Engineering Division of ASEE invites papers for the Annual Meeting to be held in San Antonio, Texas, June 10-13, 2012. 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 2011-2012 Program Chair, Dr. Kauser Jahan at jahan@rowan.edu

DIVISION AWARDS BANQUET 2010 Louisville, Kentucky



ASEE ANNUAL AWARDS BANQUET 2010

