

# The ASEE Environmental Engineering and Science Division Newsletter

Spring 2017

## A Message from the Division Chair

Dear Colleagues,

In anticipation of the ASEE Annual Conference in Columbus, I'd like to present our yearly Environmental Engineering Division Newsletter. We are eagerly looking forward to the workshops, sessions, meetings, and awards dinner in June. Our program chair, Dr. Stephanie Butler Velegol, has organized three technical sessions, as well as our poster session. Please note that ASEE has reorganized the conference schedule, with technical sessions beginning at 8 am on Sunday. Our technical session, "Environmental Engineering Program Strategies," is in that 8 am slot on Sunday, so please plan your travel accordingly. At 11:30 am on Sunday, we are co-sponsors for the panel on Energy System Innovation and Environmental Impact. Also on Sunday, at 4 pm, is the ASEE Division Mixer. Please stop by our table to say hello to the executive committee officers, and learn more about EED. We are currently looking for an incoming treasurer, to be voted on at our business meeting. Please contact any of the EED officers for more information on this, or speak to us at the conference.

On Monday, we have two technical sessions: "Environmental Engineering Pedagogy" is at 11:30 am, and "Sustainability in Engineering Education" is at 3:15 pm. Tuesday's EED activities include the poster session at 11:30 am, our business meeting at 5:30 pm, and the EED awards dinner at 7 pm at The Pearl, a cozy, urban tavern in the Short North Arts District. Please plan to attend the business meeting, where we will be discussing and voting on proposed changes to our bylaws; electing a new treasurer; hearing reports from our officers and our PIC chair; discussing the 2018 conference and introducing any new business. The EED Awards Dinner is a ticketed event, with tickets available on the ASEE web site. At the dinner, we will recognize and celebrate the great work done by our colleagues, raise a glass to all, and enjoy a night out in Columbus. Wednesday brings the distinguished lecture series at 9:45am (including a session of Best ASEE Papers), and the Wednesday Workshops at 1:30 pm.

In closing, as outgoing division chair, I would like to thank all of the EED officers, past and present, whose service and dedication to the Division has been—and continues to be—so inspiring. I'd like to thank Dr. Stephanie Butler Velegol, in particular, for her work in organizing the division's program; Dr. Monica Palomo for serving as secretary (and producing this newsletter!); and Dr. Gnaneshwar Gude for serving as treasurer. I'd also like to thank all authors and reviewers. I always leave the conference with new ideas to

implement in my own courses, and a renewed sense of excitement and joy. I look forward to seeing you soon, and thank you for letting me serve you.

Sincerely,

Dr. Mary Cardenas

## **2016-2017 Environmental Engineering Division Chair**



LaFetra Chair in Environmental Engineering

Harvey Mudd College  
Claremont, CA

## **Program Chair 2016-2017**

Dr. Stephanie Butler Velegol

Senior Lecturer  
Chemical Engineering

Penn State University  
University Park, PA



## **Secretary 2016-2017**

Dr. Monica Palomo

Associate Professor  
Civil Engineering

Cal Poly Pomona  
Pomona, CA



## **Treasurer 2016-2017**

Dr. Veera Gnaneshwar Gude

Assistant Professor  
Civil and Environmental Engineering

Mississippi State University  
Starkville, Mississippi



## EED Business Meeting

### **U125·Environmental Engineering Division Technical Session 3**

Sunday, June 25, 2017, 8:00 AM to 9:30 AM  
Room A221, Columbus Convention Center

### **U345·Energy System Innovation and Environmental Impact Panel**

Sunday, June 25, 2017, 11:30 AM to 1:00 PM  
Room A113, Columbus Convention Center

### **M325·Environmental Engineering Division Technical Session 1**

Monday, June 26, 2017, 11:30 AM to 1:00 PM  
Room A221, Columbus Convention Center

### **M525·Environmental Engineering Division Technical Session 2**

Monday, June 26, 2017, 3:15 PM to 4:45 PM  
Room A221, Columbus Convention Center

### **M534A·2017 Interdivisional Town Hall Meeting: The Culture of Teaching**

Monday, June 26, 2017, 3:15 PM to 4:45 PM  
Room A111, Columbus Convention Center

### **T325·Environmental Engineering Division Poster Session**

Tuesday, June 27, 2017, 11:30 AM to 1:00 PM  
Exhibit Hall A & B, Columbus Convention Center

### **T625·Environmental Engineering Division Business Meeting**

Tuesday, June 27, 2017, 5:30 PM to 6:30 PM  
Taft A, Hyatt Regency Columbus

### **T725·Environmental Engineering Division Social**

Tuesday, June 27, 2017 7:00 PM to 9:00 PM  
The Pearl  
641 North High Street Columbus, OH 43215,

This year our annual Business Meeting will be held on **Tuesday, June 27 from 5:30 PM to 6:30 PM** in room Taft A, of the Hyatt Regency Columbus. Members are strongly encouraged to attend to provide the Division with enriching feedback for improvements and input for the 2018 conference.

## **Division Social Tuesday, June 27, 2017 7:00-9:00 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 PEARL 641 North High Street Columbus, OH 43215, Phone: 614.227.0151**. All dinners tickets need to be bought online. No cash accepted at the event.

More dinner details are presented on page 6.

## DIVISION AWARDS

### 2017 Best Paper Award

“What does it take? Getting freshmen to read the material before class.”

**Fethiye "Faith" Ozis, Ph.D**  
Civil and Environmental Engineering  
Northern Arizona University



*Dr. Fethiye "Faith" Ozis is a Lecturer in Civil Engineering, Construction Management and Environmental Engineering at Northern Arizona University. She started at NAU in 2014. She received her PhD in Environmental Engineering from University of Southern California in 2005. Her doctorate work focused on numerical modeling of biofilters for air pollution control as part of the Sustainable Cities Program at USC. Prior to her current position she worked in K-12 STEM institutions both as a teacher and an administrator for five years. Her research interests include sustainable technologies for environmental issues, engineering education and initiatives that facilitate success and retention of minority students in STEM related fields including STEM readiness and teacher support. As an instructor in the department, Ozis teaches various undergraduate courses in civil and environmental engineering including Introduction to Environmental Engineering, Computer Aided Drafting and Fundamentals of Environmental Engineering. She is an ASCE ExCEED Teaching Fellow and the faculty advisor for the Society of Women Engineers Chapter at NAU.*

## DIVISION BYLAWS

### AMENDMENT

On behalf of the Executive Committee, here is the link to proposed amendments to the ASEE EED bylaws. We took our current bylaws, and modified them based on the ASEE model bylaws.

[https://sites.asee.org/envir/wp-content/uploads/sites/8/2017/04/EED\\_bylaws\\_proposed\\_4\\_17.pdf](https://sites.asee.org/envir/wp-content/uploads/sites/8/2017/04/EED_bylaws_proposed_4_17.pdf)

The main changes include spelling out the duties of each officer; adding in wording regarding the Nominating Committee (to identify candidates for Treasurer); and including the Diversity Statement. Wording regarding email and electronic voting was also adopted from the model bylaws.

Our current bylaws require that proposed amendments to the bylaws be published at least 30 days before our annual business meeting. We will vote on the proposed amendments during our business meeting on Tuesday, June 27th, 5:30-6:30pm.

## **OFFICERS**

### **July 2017-June 2018**

**Outgoing Division Chair:** Dr. Mary Cardenas  
Harvey Mudd College  
[mary\\_cardenas@hmc.edu](mailto:mary_cardenas@hmc.edu)

**Division Chair:** Dr. Stephanie Butler Velegol  
Pennsylvania State University  
[sbv1@psu.edu](mailto:sbv1@psu.edu)

**Program Chair:** Dr. Monica Palomo  
Cal Poly Pomona  
[mpalomo@cpp.edu](mailto:mpalomo@cpp.edu)

**Secretary:** Dr. Veera Gnaneshwar Gude  
Mississippi State University  
[gude@cee.msstate.edu](mailto:gude@cee.msstate.edu)

#### **Treasurer: To be elected at the business meeting**

**Please note that we will be electing a Treasurer for 2017-2018. If you are interested in the position please contact Dr. Stephanie Butler Velegol [sbv1@psu.edu](mailto:sbv1@psu.edu) or be present at the Division business meeting.**

## **BEST FACULTY 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, and a plaque.**

## **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, 2017. Applicant will be un-tenured as of August 30,

2017. Applicant teaches at any 2- or 4-year University that offers at least one environmental engineering course.

### **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 2017 (Monica Palomo) at [mpalomo@cpp.edu](mailto:mpalomo@cpp.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.

## **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 \$500 each with a plaque.

# **ASEE Annual Conference 2018**

## **Salt Lake City, Utah**

### **CALL FOR PAPERS 2018**

The Environmental Engineering Division of ASEE invites papers for the Annual Meeting to be held in Salt Lake City, Utah. The division will offer sessions that include papers on the following topics:

- Innovative pedagogical methods (social media, flipped classrooms, active learning etc.) in teaching environmental engineering courses;
- Integrating sustainability in courses, across disciplines, in communities, especially as it relates to new ABET criteria.
- Innovative uses of current and emerging technologies in teaching environmental engineering courses;
- Extracurricular student projects/contests in environmental engineering, e.g. P3, EWB, IEDC, etc.;
- Development of new or hybrid courses in environmental engineering, e.g. Environmental Biology, Environmental Security, Environmental and Public Health;
- Interdisciplinary approaches to addressing major (e.g. Grand) challenges such as climate change, food, water;
- Engaging students in environmental lifelong learning;
- Educational resources such as online case studies, web-based course modules for teaching environmental engineering topics;
- Recruitment and retention of diverse students in environmental engineering;
- Undergraduate environmental engineering research or capstone experiences;
- Accreditation and assessment, e.g. ABET, graduate program accreditation, assessment, etc.
- Community engagement through research or capstone experiences (e.g. service learning experiences).

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 2017-2018 Division Chair, Dr. Stephanie Butler Velegol at [sbv1@psu.edu](mailto:sbv1@psu.edu) or the 2017-2018 Program Chair, Dr. Mónica Palomo [mpalomo@cpp.edu](mailto:mpalomo@cpp.edu)

# **ENVIRONMENTAL ENGINEERING AND SCIENCE DIVISION ANNUAL SOCIAL AND AWARDS DINNER**

**Tuesday, June 27, 2017  
7:00-9:00 PM**



Please join us for our annual division social and awards dinner at  
**The PEARL**  
**Restaurant-Tavern-Oyster Room**  
**A Jewel Long in the Making. And well worth the wait.**

**641 North High Street Columbus, OH 43215,**

**Phone: 614.227.0151**

**<https://www.thepearlcolumbus.com/Home.aspx>**

**Costs are \$35/person online registration only**  
**"Tickets are required and must be purchased online or at the**  
**2017 ASEE registration counter before the event"**  
**Register for the EED Social and Awards Session**  
**T725-Environmental Engineering Division Social and Awards Dinner Social**  
**Tuesday, June 27, 2017 7:00 PM to 9:00 PM**