

# AEESP Newsletter

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## September 2017

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Need to renew your 2018 AEESP membership? Go to "Membership > Online Renewal" on the AEESP Website: [AEESP.org](http://AEESP.org)

### AEESP Newsletter Submissions

Please send news, conference announcements, job postings, letters to the editor, and other contributions to the newsletter to Laura Arias Chavez at [LChavez@tntech.edu](mailto:LChavez@tntech.edu). The next newsletter will appear in January 2018.

## President's Letter

By LINDA WEAVERS  
The Ohio State University



Dear AEESP Members:

The beginning of the academic year is always a time of change for AEESP. At the AEESP Business Meeting during the AEESP Biennial Conference at the University of Michigan in June, the presidency of AEESP officially passed from Peter Vikesland from Virginia Tech to me. A big THANKS to Peter for being a caring and thoughtful steward of this organization during his time on the board and particularly during this last year as president. And thanks also to Cindy Lee from Clemson and Dion Dionysiou from the University of Cincinnati for their work on the Board.

In existence for more than fifty years, AEESP has a rich history, passionate membership, and is an anchor for our community. To lead such a great organization is both daunting and humbling. It is daunting because now does not seem to be the time to idly continue as has been done in the past. It is humbling to look at the list of who has been in these shoes before me and the path that has been laid. As I begin my term as president of AEESP, I am cautiously optimistic.

I am cautiously optimistic because it appears to be a time of change. The change stems from weakening of environmental regulations, reduced and uncertain support for environmental research, and skepticism surrounding the value and use of science. Understandably, many in our membership are energized. We often think of creativity when we think about our research. But creativity is needed in professional service as well. Creativity is at the intersection of novelty and value. Ingredients needed for creativity are intention (passion helps!), know-how, thinking, perseverance, and environment (particularly a sense of urgency). Also, truly creative changes often occur at the edge of chaos. My optimism comes because the ingredients exist for us as a community to affect change.

I am not sure of the outcome of the changes but we, as a community, need to participate. Participation may come in a wide variety of forms and will need perseverance before the change is realized. Our effect will also be stronger if we work together as a community; thus, AEESP will have an important role.

AEESP is an all volunteer organization that exists to serve its members. To be a thriving organization, we need our members to serve. If you are active in AEESP, please stay active and continue to make a difference. If you have not been involved in AEESP, I ask you, as members, to get involved. Get involved in committees where you can offer help, where you feel a drive to make a difference, where you see that something can be improved. To get involved, visit our website. Under the Committees tab you will find information on how to get involved. You can also contact a committee chair, member of the board, or our administrator, Brian Schorr.

As incoming president, I have the fortune to be able to learn of your creative ideas, work with the Board to implement those creative ideas, and envision how to make this great organization just a little bit better. There are a few of opportunities that are ripe for adding value in the short term.

**1. Tools for Advocacy.** The change in federal administration has caused many of us to be motivated to get involved in outreach and connecting with people outside of academia. If we work together by sharing information and best practices and working with partners outside of AEESP we may have more effect. Over this next year the Board, select committees, and I will focus on best ways for AEESP to assist. We have some ideas but are happy to get more ideas and assistance.

**2. Student Societies in Environmental Engineering.** Because of the range of professional societies in environmental engineering, student societies in environmental engineering and science have trouble figuring out how to

*Continued on page 2*



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AEESP Membership Application online:

[www.aeesp.org/membership](http://www.aeesp.org/membership)

navigate them all and often create a new society resulting in no connection to other student groups at other universities. AEESP historically worked on this problem but it needs renewed attention. I am looking for volunteers with great ideas to solve this problem. Please contact me if you are interested in getting involved.

**3. AEESP's Journal.** In 2014 AEESP adopted Environmental Engineering Science as the official journal of AEESP. Integration of the journal with AEESP and improving its visibility and reach for our members is ongoing. Please submit to this journal and look for changes as it becomes more integrated.

**4. AEESP Awards.** AEESP has awards for graduate students and faculty members. These awards exist largely due to the generosity of Sustaining members and AEESP members and friends that have endowed awards. We currently have four awards that are not supported

in these ways. The AEESP Board has decided to keep three awards as AEESP signature awards. The AEESP Award for Outstanding Teaching in Environmental Engineering & Science, AEESP Award for Outstanding Contribution to Environmental Engineering & Science Education and the AEESP Outstanding Publication Award represent the three pillars of what we do: teaching, research, and service and thus, will be our signature awards. The Board will begin a campaign to endow these awards and ask you, as members, to donate. For the fourth award, an endowment campaign was launched this summer to endow the Walter J. Weber Jr./AEESP Frontier in Research Award. Lynn Katz from the University of Texas is leading this effort.

I look forward to an exciting year of chaos and change. I hope to have the chance to cross paths with you!

Linda Weavers

## Letter from the Editor

This newsletter is the final one for which I will serve as editor. I have really enjoyed my three years serving an organization and a community that I am proud to be part of. It is time, however, to let another serve in this role. Before moving on, I want to sincerely thank the AEESP presidents and board members who served these past three years. I have appreciated their support. Most importantly, I want to thank Brian Schorr for his help and support over these three years. His work has been invaluable. I am leaving you in the capable hands of Laura Arias Chavez who will become the editor for the next three years. Future submissions should be sent to her at: [LChavez@tntech.edu](mailto:LChavez@tntech.edu)

— Steve Mylon

## Highlights of the AEESP Board of Directors Spring and Summer 2017 Meetings

Submitted by Karl Linden (University of Colorado, Boulder, AEESP Vice-President)

The AEESP Board of Directors met on February 9 & 10 at the University of South Florida and on June 23 at the University of Michigan. The Board was joined by Brian Schorr, AEESP's manager of business operations, from Technology Transition Corporation (TTC). The following is a summary of highlights from these recent Board of Directors meetings.

### New Board Members

The Board welcomed the following newly elected members from the 2017 board elections:

- April Gu, Northeastern University
- Joel Ducoste, North Carolina State University
- Shaily Mahendra, University of California Los Angeles

### Membership Update

AEESP has 213 new members for 2017 (93 Regular Members, 2 Affiliate Members, 115 Student/PostDoc Members, and 3 Sustaining Members). As of September 2017, there were 915 members up to date on dues payments with an additional 179 members in arrears. Reminders will be sent for members in arrears. The Board encourages members to check their online membership profile to determine his/her status, renew his/her membership online if necessary, and consider multi-year renewal.

### Activities of Committees

The Board discussed the various committees that make AEESP work. Highlights from a few of our committees are presented below. You can find the listing of the AEESP committees and the coordinates for the committee chairs at ([aeesp.org/contact/committees](http://aeesp.org/contact/committees)). Please consider volunteering your time on one of these committees and getting more involved and connected with AEESP.

**Conference:** The Board reviewed plans for 2017 AEESP Conference at the meeting in February and then reviewed the conference outcomes following the event in Ann Arbor. The Board solicited feedback from our membership on the conference received numerous excellent comments.

**Lecturers Committee:** Pedro Alvarez was selected as the 2017-2018 Distinguished Lecturer. The Committee established a new AEESP lecture for the AWWA WQTC conference with support from Corona Environmental Consultants titled the Emerging Researcher Lecturer, to highlight exciting work by our young and mid-career professors.

**Awards Committee:** The Chair Rob Nerenberg is working on a plan to get more nominations for our awards and is recruiting new subcommittee members. The Frontiers in Research Award, formerly sponsored by ARCADIS, is now named the Walt Weber award, supported by donations from Professor Weber's former students and colleagues. The Call for Award Nominations will go out in January.

**Internet Resources Committee:** Chaired by Lindsay Oh, the committee conducted a survey on the quality of website. The report will be forthcoming.

**Education Committee:** This committee is chaired by Rouzbeh Tehrani and has been getting out the word on the educational resources we have available from AEESP and using outlets like LinkedIn. They are working on a survey for the AEESP membership so look out for that soon.

### New AEESP Officers

- Linda Weavers (Ohio State University) assumed the role of President.
- The following new officers were installed following board elections:
- President-elect: Maya Trotz, University of South Florida
- Vice President: Karl Linden, University of Colorado Boulder
- Treasurer: Timothy Strathmann, Colorado School of Mines
- Chief Technical Officer: Lutgarde Raskin, University of Michigan

The Board is grateful for the service of outgoing Board members: Peter Vikesland (President), Cindy Lee (Treasurer), and Dion Dionysiou (CTO). We look forward to their continued service to AEESP!



The AEESP Board of Directors. L-R: Greg Lowry, Shaily Mahendra, Karl Linden, Lutgarde Raskin, Joel Ducoste, Cindy Lee, Dionysios Dionysiou, Timothy Strathmann, Maya Trotz, Brian Schorr, Paige Novak, Linda Weavers, Peter Vikesland. Missing from picture is April Gu.

## AEESP Journal Environmental Engineering Science Spotlight

Catherine A. Peters (EES Deputy Editor), Susan J. Masten (Chair, AEESP Publications Committee), Domenico Grasso (EES Editor-in-Chief)

The “spotlight” column draws attention to selected articles in *Environmental Engineering Science*, the official journal of the Association of Environmental Engineering and Science Professors (AEESP). Spotlight articles appear regularly in the journal as an Editor’s Note, as well as in the AEESP newsletter. Through publication of high-quality peer-reviewed research, the *EES* journal helps AEESP achieve its mission of developing and disseminating knowledge in environmental engineering and science. In this entry, we shine the spotlight on selected articles from the April 2017 issue through the July 2017 issue of *EES*. Congratulations to all whose work is highlighted.

**Chen Z., Chen L., Chen C., Huang Q., Wu L., and Zhang W.** (2017) Organotin Contamination in Sediments and Aquatic Organisms from the Yangtze Estuary and Adjacent Marine Environments. *Environ. Eng. Sci.* 34, 227. Marine environments are at risk for pollution with organotin compounds (OTCs), which are known endocrine disruptors. These researchers conducted a field study of OTC occurrence in fish and crab species as well as in sediment samples from the Yangtze estuary in the mid-east of China. Particularly high concentrations were found in the Luchao fishing port indicating elevated risks for the ecosystem and for human health risks. The concentrations were found to decrease with distance away from the coast, confirming hypotheses about the role of human activity in high OTC occurrence.

**Boxman S.E., Zhang Q., Bailey D., and Trotz M.A.** (2017) Life Cycle Assessment of a Commercial-Scale Freshwater Aquaponic System. *Environ. Eng. Sci.* 34, 299. Aquaponics is an innovative type of aquaculture for fish production but, unlike conventional aquaculture, the water is recirculated and nitrate releases to the local environment are minimized. These re-

searchers applied life cycle assessment (LCA) methods to examine not only local environmental impacts but also global impacts. Electricity requirements of aquaponics were found to contribute significantly to environmental impacts, and shifts to renewable energy sources could have a large impact on reducing these impacts.

**Meyer, T., Chen X., Tran H.N., Grant, D.G., and Edwards E.A.** (2017) Natural Freezing-Thawing and its Impact on Dewaterability and Anaerobic Digestibility of Biosludge. *Environ. Eng. Sci.* 34, 357. These researchers investigated the dewatering of biosolids from pulp and paper mill processing. The dewaterability and anaerobic digestibility of solids treated using freeze-thaw cycling were determined. Compared to polymer addition to enhance dewatering, freeze-thaw cycling was more effective as a result of irreversible compaction and dehydration of sludge particles. Freezing-thawing had little effect on the anaerobic digestibility of the biosolids and digestate.

**Duan Y., Luo, G., Jung B., Vishakha, V., Batchelor, B., and Abdel-Wahab A.** (2017) Photochemical Degradation of Arsenic and Selenium with Advanced Reduction Processes-Effects of Reagents. *Environ. Eng. Sci.* 34, 481. These researchers studied the reduction of arsenic and selenium using advanced reduction processes, which involve combining reagents with activation methods to produce highly reactive reductants. Three reagents (ferrous, dithionite (S<sub>2</sub>O<sub>4</sub><sup>2-</sup>), and sulfite ions) were used to reduce As(III), As(V), Se(IV), and Se(VI) in water. Experiments were conducted in the absence and presence of UV irradiation. Dithionite/UV was found to reduce the arsenic and selenium species to insoluble As<sub>4</sub>S<sub>4</sub> and Se<sub>0</sub>, respectively. However, oxidation of the solids resulted in subsequent resolubilization of both arsenic and selenium.

## Association of Environmental Engineering and Science Professors (AEESP)

### Request for Proposals for the 2019 AEESP Research and Education Conference

**Deadline: 5:00 pm EST, February 2, 2018**

#### Introduction

The AEESP Research and Education Conference is the flagship event for members to exchange information on novel research and educational activities, as well as develop professional competencies. It serves as a venue for the exchange of information among academics and practitioners, particularly relating to the advancement of innovative research, pedagogy, and the preparation of students for professional practice in environmental engineering and science. AEESP Conferences are held biennially on odd-numbered years, and are balanced with respect to content on research and education.

Proposals are now being accepted from universities to host the AEESP Research and Education Conference during summer 2019. We invite institutions of all sizes to apply, and favor geographic diversity relative to recent prior locations. Proposals that promote interaction among faculty as well as attendance by senior PhD students and postdocs seeking academic positions are encouraged. The ability to accommodate similar or increased attendance relative to recent conferences is not a requirement for hosting the conference; conference formats of all sizes will be considered equally.

#### Past AEESP Conference Locations (contact person):

- Harvard University, 1960
- Northwestern University, 1967
- Drexel University, 1973
- Purdue University, 1980
- Michigan Technological University, 1986
- Oregon State University, 1991
- University of Maine, 1996
- Penn State University, 1999

- University of Toronto, 2003
- Clarkson University, 2005
- Virginia Tech, 2007
- University of Iowa, 2009
- University of South Florida, 2011 (Maya Trotz: matrotz@usf.edu; Jeff Cunningham: cunning@usf.edu)
- Colorado School of Mines, 2013 (Linda Figueroa: lfigueroa@mines.edu)
- Yale University, 2015 (Jaehong Kim: jaehong.kim@yale.edu)
- Univ. of Michigan, 2017 (Nancy Love: nglove@umich.edu; Christian Lastoskie: cmlasto@umich.edu)

#### Procedure

Responders to this RFP should do so with the intent to host the conference in 2019. Responses should include a projected budget, as detailed below, and narrative responses to enable the 2019 Conference Site Selection Committee to evaluate the attributes detailed in the next section. The responses should be prepared as a single pdf file and submitted to the Committee Chair (Junko Munakata Marr, junko@mines.edu).

The proposals must be submitted no later than 5 pm ET on February 2, 2018. The Conference Committee will make a recommendation to the AEESP Board by March 1, 2018. The AEESP Board will notify proposers on the site selection in April 2018.

#### Conference Format

Proposers are at liberty to propose any schedule that maintains a conference length of at least two full days of sessions with additional time for workshops. The Annual Business Meeting of AEESP will take place during the conference. The AEESP Board typically meets immediately after the conference for at least a day and a half. The AEESP Foundation Board typically meets just prior to or during the conference for up to one half day. The proposal should include provisions for these meetings.

The conference will include the following activities:

- Organized oral sessions on topical areas that may include invited speakers. Some of these will focus upon specific topics proposed by the host organizer, and may involve speakers from outside the AEESP community as appropriate. Equal opportunity to present findings or ideas on research, education and policy of broad interest to the membership is strongly encouraged.



- Keynote speakers and/or special activities for lunchtime and/or evening receptions
- Evening receptions and award ceremony
- Organized panel sessions focusing on forefront issues in both education and research in environmental engineering and science
- Contributed poster sessions containing papers of interest to segments of the membership presenting a balance of research and educational activities of members
- Exhibitor space including participating publishers, consultants, and public sector
- Networking breaks (time and space to facilitate, for example, mentoring of junior faculty, interactions between students and faculty, faculty to faculty collaboration)
- Workshops on issues of interest to segments of the membership (e.g., CAREER proposal preparation, teaching effectiveness, accreditation, tenure preparation, academic job search, novel forefront research techniques, preparation for the environmental PE, leadership development, career planning)

Regardless of format, platform speakers are expected to be of the highest quality.

The conference organizers must conduct an assessment of the success of the conference both in terms of quality of experience and in terms of finances; results of the assessment must be shared with the Conference Site Selection Committee and the AEESP Board within ninety (90) days of the conclusion of the conference, and be available to potential hosts of subsequent conferences.

## Attributes for Selection

The narrative portion of the proposal should provide details on the content of the conference so that the committee can evaluate the strength of the proposal's commitment to both education and research, its relevance of the conference theme to environmental engineering and science education and research, and the competency, commitment, and depth of the local planning team.

Proposals will be evaluated on the basis of the weighted categories of conference structure and planning (40%), logistics (30%), budget (20%) and outreach (10%). Specific factors that may be considered in each category when developing proposals are included below (in no particular order of priority within these categories):

### • Conference structure and planning (40%)

- Conference size and distribution of attendees; What is your vision for the conference size? What is your preferred number of and distribution between faculty, postdocs, PhD, MS and undergraduate students, and practitioners? How will you achieve this?
- Overall conference structure (such as session topics defined by conference organizers, proposed by attendees, or organically formed after abstracts received)
- Method of selecting plenary speakers
- Review process for submitted abstracts and delegation into oral vs. poster sessions; how balance between education and research presentations/posters will be achieved
- Opportunities that enable distinct time and space for interactions of:
  - faculty to faculty
  - students to faculty
  - students to students

- Presentation judging and awards process
- Workshop organization
- Conference management by faculty and operational support network
- Strength of conference leadership (given the time and logistical commitment, leadership by more senior faculty is encouraged)
- Mechanisms of internal communication with conference attendees
- Level of institutional support (financial, facilities, administrative, and other)

### • Logistics (30%)

- Adequacy of conference venue (meeting rooms, space for posters, etc.) and venues for evening receptions and activities (tie to conference size)
- Array of housing choices with affordable choices for student attendees (including university dormitories, lodges, motels and hotels at reasonable fees and distances from the venue. Group discounts are also usually available from some hotels). The conference organizers should be willing to assist the conference attendees in housing choice selection.
- Accessibility of conference and lodging to major airport(s), typical cost of airfare, and other modes of public transit
- Amenities for people with disabilities
- Availability of tourism activities and family-friendly services (e.g., child-care, housing with kitchenettes, onsite child-friendly recreational amenities)
- Use of sustainable practices at the conference with an effort to minimize the "carbon footprint" of the conference itself (e.g. walkability of venues for conference, housing and activities, reduced paper use for program & proceedings, reuse of banners, use of recycled paper for printed materials, limited use of disposable utensils at events, carbon offsets)
- Consideration given to allocating time and space for AEESP Board, AEESP Foundation Board, and AEESP Committee meetings to be held during or before/after the technical portion of the conference
- In selecting the conference dates, proposers should strive to avoid conflicts with events that are attended by many AEESP members (e.g., ASEE Annual Conference (June 16-19, 2019, Tampa FL), International Water Association (IWA) World Water Congress, AWWA specialty and annual conference, Gordon Conferences (e.g. Environmental Nanotechnology), WEF specialty and annual conferences, AAAR conferences, IWA events, AWMA Annual Conference, American Chemical Society, American Society for Microbiology, EWRI Conference, North American Membrane Society Conference, ASM Biofilm Conference). Also consider that some schools on the quarter system finish the school year in mid-June. Additionally, AEESP makes its own annual Awards for Excellence within the discipline. Nominations for these awards are typically due on March 15, and the awards committee usually selects these awardees by June. Proposers should keep this schedule in mind when choosing dates for their proposed conference so that award winners can be notified and awards can be presented at the event. In the past, proposers have received funding from NSF for a CAREER Workshop at the AEESP Conference. In selecting a date for the conference, proposers should be aware of the NSF CAREER proposal deadline (check nsf.gov) and develop their NSF CAREER workshop grant to predate that proposal deadline. Within these constraints, each proposer should suggest dates that would work at their venue.

### • Budget (20%)

- Estimated registration fee (tied to budget, which is discussed below)
- Potential contributions from external sponsors (tied to budget discussed below)
- Plans to encourage participation of senior PhD students and postdocs

**• Outreach (10%)**

- Innovative approaches to involvement of postdocs, students, student organizations (e.g., pre-conference workshops, essay contests, photo competitions, poster awards...)
- Innovative approaches to engage new AEESP members, first time conference attendees, sustaining members (companies and organizations that pay a membership fee and often provide support for special events), fellows, and lifetime members (PhDs before 1975)
- Overall marketing plan, including use of free media, paid media, social media and AEESP database
- Connections with Environmental Engineering Science, the official journal of AEESP
- Development of a functional and user-friendly conference website
- Linkage to other events (other conferences) that might be of interest to attendees
- Strategy for outreach to local, regional, national, and international communities of practice that might attend and/or provide sponsorship
- Engagement with international groups
- Engagement with funding agencies and other public sectors

The proposers should suggest particular themes that would be appropriate for their venue. It is not the intention that the conference exclusively focuses on these themes; however the themes can provide a particular “flavor” to the conference and/or selected sessions. Conference themes should show a balance between research and education sessions, and each theme should cover a wide range of specific topics so that more quality papers will have an opportunity to be reviewed.

The 2019 Conference Planning Committee will develop the ultimate program with input from the AEESP Board.

Note that Technology Transition Corporation (TTC, www.ttc.org), which is AEESP’s management company, also provides conference organization services for professional societies. TTC managed registration, membership verification and fee collection for the 2017 AEESP Conference, and could provide these and other logistical services in support of the 2019 host institution. Please contact Brian Schorr, AEESP Executive Administrator, at bschorr@aeesp.org for more information.

**Specific Budget Elements**

The budget projection should be prepared using the following outline. Two example scenarios regarding attendance should be used as indicated below; note that proposers need not plan solely for these scenarios, but budget information should be provided for evaluation purposes. The registration fee needed to produce a breakeven budget under either scenario should be indicated.

**Scenario I: 200 student attendees, 50 post-doctoral scholar attendees, 250 faculty attendees, 50 accompanying guests (consume all meals)**

**Scenario II: 350 student attendees, 50 post-doctoral scholar attendees, 300 faculty attendees, 50 accompanying guests (consume all meals)**

	Scenario I	Scenario II
Revenue		
Registration Fees (total)		
Early Registration Fee (by category, including complimentary ( <i>Work with AEESP board early to determine these categories, especially those that are discounted or complimentary (e.g. lifetime)</i> ))		
Regular Registration Fee (by category, student, post-doc, faculty, professional practice, including complimentary)		
Sponsorships:		
External		
Internal (Host)		
Grant from NSF/EPA or other:		
<b>Total Revenue</b>		
<b>Expenses</b>		
Personnel costs:		
Admin. Assistant, Conference Planner		
Other staff costs (graphic artist, web site, helpers, benefits)		
Supplies, Printing, Marketing		
Transportation (tours and misc.)		
Facilities and audio-visual services		
Hospitality less guest meal fees:		
Breaks, Breakfasts, Lunch		
Welcome Function		
Luncheon		
Banquet		
Meetings		
<b>Total Expenses</b>		
<b>Net Projected Surplus (Loss)</b>		

AEESP expects the conference to run on a “breakeven” basis. Accordingly, proposers should assume that any financial gains (or losses) are the responsibility of the host organization.

Data on attendance numbers and revenues are included below. Proposers are encouraged to contact the prior conference host committees for their full proposal, information about expenses, overall organizational procedure, etc.

**Data from previous AEESP conferences; note that sustaining the trend in increasing attendance is not required**

	2011 Tampa	2013 Colorado	2015 Yale	2017 Michigan
Total Attendees	426	463	621	736
Student Attendees	168	190	268	391
Faculty Attendees	212	224	314	301
Other Attendees	46	49	39	44
Students Registered Early	95	140	185	276
Faculty Registered Early	127	175	168	181
Others Registered Early	30	17	13	14
Student registration (early, regular)	\$80, 125	\$125, 225	\$150, 250	\$150, \$190
Faculty registration (early, regular)	\$350, 425	\$400, 575	\$425, 600	\$425, \$600
Non AEESP member registration (early, regular)	\$600	\$500, 700	\$525, 700	\$525, 700
Total number of early registrants	252	315	353	471
Funding from Registration	\$95,600	\$83,355	\$224,100	\$210,935
Funding from Corporate Sponsorship	\$14,850	\$9,750	\$9,000	\$52,700
Funding from University Sponsorship	\$20,000	\$26,000	\$5,000	\$7,000
Funding from Grants	\$ 44,350	\$50,000	\$50,000	\$49,999

	SPONSORSHIP LEVEL			
	CONFERENCE \$7500	EVENT \$5000	SESSION \$2500	STUDENT \$1000
TABLE SPACE	✓	✓	✓	✓
1 FULL REGISTRATION	✓	✓	✓	✓
PLENARY SPEAKER INTRO	✓			
SESSION SPEAKER INTRO			✓	
LOGO ON BANNERS	✓	✓		
LOGO ON WEBSITE	✓	✓		
LOGO ON PROGRAM	✓			
LOGO ON SPONSOR LISTINGS	✓			
TOP TIER		✓		
2ND TIER			✓	
3RD TIER				✓
4TH TIER				✓

The AEESP Board does not wish to exclude participation of any faculty, students, or practitioners by assigning sponsorship of the Research and Education Conference to one sole sponsor. The Board is very supportive of any firm or set of firms who wish to “take the lead” in sponsoring any given conference by establishing matching funds or other mechanisms that not only guarantee their own substantial involvement, but also foster participation and contributions by others. The Board favors formal recognition of the level of support of various sponsors by different levels of support. An example of sponsorship levels and entitlements is shown at left.

In the past, AEESP has received funding for its conferences from the National Science Foundation. The Board will work with the selected organizers in submitting proposals for support from these agencies. Examples of previous NSF proposals will be provided to potential hosts. However, it is ultimately the responsibility of the host to write and submit the NSF proposals.



## **2019 Conference Site Selection Committee**

Junko Munakata Marr	Colorado School of Mines, Chair
Andrea Achilli	University of Arizona
Jeff Cunningham	University of South Florida
Kimberly Jones	Howard University
Mohiuddin Khan	Washington State University and Los Alamos National Laboratory
Jaehong Kim	Yale University
Christian Lastoskie	University of Michigan
Greg LeFevre	University of Iowa
Jonathan (Josh) Sharp	Colorado School of Mines
Heather Shipley	University of Texas, San Antonio
Karl Linden	University of Colorado, Boulder, AEESP Board Liaison

## **Summary Feedback from 2017 Conference**

- Growth in conference size has diminished faculty-faculty interactions; numerous suggestions to restrict number of students and increase interactions
- Student enthusiasm should be fostered but perhaps focus on academic or professional research career track senior students and postdocs
- Education side needs renewed emphasis—balance has shifted recently to more research sessions
- Conference venues in closer proximity preferred (no more long bus trips)

## New Faculty Appointments

### Dr. Susana Y. Kimura Hara joins the Department of Chemistry Faculty at the University of Calgary



Dr. Susana Y. Kimura Hara joined the Department of Chemistry at the University of Calgary as an Assistant Professor in July 2017. Prior to joining the University of Calgary, Susana was a postdoctoral fellow for two and half years in the Department of Chemistry and Biochemistry at the University of South Carolina and a postdoctoral research fellow for one year at the University of Illinois at Urbana-Champaign (UIUC). Susana obtained her M.S. and Ph.D. in Environmental Engineering from UIUC and B.Eng. in Industrial Engineering from CETYS Universidad in Mexico.

Susana's research focuses on the identification and characterization of chemical formation mechanisms of unregulated disinfection by-products using advanced mass spectrometry instrumentation and techniques. She will expand her work in analytical chemistry techniques and investigate the formation of emerging disinfection by-products and contaminants of concern derived from oxidation and membrane-based technologies developed to remove contaminants from municipal wastewater. Susana is affiliated with ACWA (Advancing Canadian Wastewater Assets), an alliance between The City of Calgary and the University of Calgary that contains a full-scale experimental wastewater research facility that feeds twelve constructed, replicate, naturalized experimental research streams for ecological assessments, and analytical laboratories for biological and chemical measurement.

### Three New Faculty Begin at Arizona State University



**Dr. Rebecca Muenich** joined the School of Sustainable Engineering and the Built Environment (SSEBE) at Arizona State University (ASU) as an Assistant Professor on August 16, 2017. Before joining ASU she was a postdoctoral researcher at the University of Michigan Graham Sustainability Institute. Dr. Muenich received her B.S. in Biological Engineering from the University of Arkansas (2009) and her M.S. (2011) and PhD (2015) in Agricultural & Bio-

logical Engineering from Purdue University. Dr. Muenich's research is in the field of watershed modeling for surface hydrology and water quality, especially in agricultural ecosystems. She applies a wide range of modeling programs and data analysis techniques to evaluate trade-offs in land use and land management decisions with respect to ecosystem services. Examples of her recent research include investigating the impacts of legacy phosphorus in soils on long-term water quality, analyzing the potential for manure nutrient utilization from excess applications, and evaluating the interactive effects of climate change and land management on nutrient losses from agricultural fields. During her graduate studies, Dr. Muenich received a National Science Foundation Graduate Research Fellowship, was named the

2011 recipient of the American Society of Agricultural & Biological Engineers' Engineering and Humanities Award, was the 2014 recipient of Purdue University's France A. Cordova Leadership in Action Award, and was the 2014 recipient of the Purdue Agricultural & Biological Engineering Outstanding Service Award.



**Dr. Celina Dozier** will join the School of Sustainable Engineering and the Built Environment (SSEBE) at Arizona State University (ASU) as Lecturer and Research Associate Professor in January 2018. Dr. Dozier obtained a PhD in Environmental Engineering from the University of Texas at Austin in 2016. She also

holds an MS in Environmental Engineering from the University of California, Berkeley (2008), and a BS in Chemical Engineering from Florida Agricultural and Mechanical University (2007). Her dissertation focused on the synthesis and application of mixed aluminum oxide and titanium dioxide solids on the photocatalysis of pharmaceuticals.

Dr. Dozier is currently a post-doctoral associate at UMass-Amherst, where she is also the Administrative Coordinator for the Water Innovation Network for Sustainable Small Systems (WINSSES). Her work encompasses a variety of areas, including disinfection byproducts, monitoring the release of PPCPs from urine compost, and ultrafiltration membranes for the treatment of secondary effluent. Dr. Dozier is the recipient of the National Science Foundation Graduate Research Fellowship and the Graduate Student Teaching Award at UT-Austin.



**Dr. Anca Delgado** joined the School of Sustainable Engineering and the Built Environment (SSEBE) at Arizona State University (ASU) as an Assistant Professor in August 2017. She is also a faculty member of the Biodesign Swette Center for Environmental Biotechnology, ASU. Dr. Delgado received a Ph.D. from Arizona State University under the supervision of Dr. Rosa Krajmalnik-Brown. Her Ph.D. work focused on biogeochemical

factors that affect the rates and extent of bioremediation of chlorinated ethenes and on the development of high-rate bioreactors for growth of bioaugmentation cultures. During her postdoctoral appointment at ASU, Dr. Delgado studied strategies for enhanced bioremediation by combining biodegradation and chemical oxidants for remediating soils contaminated by heavy petroleum hydrocarbons. As an Assistant Professor, Dr. Delgado will research soil and water microbial processes that sequester, recycle, and transform carbon and chlorine compounds for (i) contaminant removal, (ii) minimization of harmful chemicals in food production, (iii) improvement of soil quality, and (iv) biofuel precursor production.

## New Faculty Joins CVE Department at URI



**Dr. Joseph Goodwill** joined the Department of Civil and Environmental Engineering (CVE) at the University of Rhode Island (URI) as an Assistant Professor in August 2017. Goodwill completed his Ph.D. in Civil Engineering at the University of Massachusetts Amherst (UMass) where he worked with Professors John Tobiason and David Reckhow on physical-chemical water treatment processes, including the use of ferrate for drinking water

treatment. Goodwill also received a B.S. in Civil Engineering from Lafayette College and a M.S. in Environmental Engineering from UMass. He worked as a consulting engineer in the water division of Black & Veatch prior to starting his Ph.D, and is a licensed professional engineer (PE). His research interests include novel oxidation processes for water treatment, direct potable water reuse, water-poverty issues in developing areas, and the use of data by water utilities. His work has been published in *Environmental Science and Technology*, *Water Research*, *Chemosphere*, and the *Journal of the American Water Works Association*.

## Dr. Andrew Metcalf Joins the Faculty at Clemson University



**Dr. Andrew Metcalf** joined the Department of Environmental Engineering and Earth Sciences at Clemson University as an Assistant Professor in August 2017. His research focuses on measurements of atmospheric air pollution across scales – from microscale experiments in the laboratory to large-scale field projects to characterize pollutants in the ambient atmosphere. Dr. Metcalf earned a B.S. and M.S. in meteorology from Penn State University and a Ph.D. in Environmental Science and Engineering from Caltech, specializing in measurements of black carbon aerosol particles. He completed postdoctoral work at the University of Minnesota where he developed microfluidic tools to measure thermodynamic properties of atmospherically-relevant aerosol liquid samples. At Clemson, Dr. Metcalf's research group will continue developing the microfluidic platform for ambient aerosol measurements towards lab-on-a-chip solutions for miniaturizing air pollution measurements. His research will also use emissions from management practices at the Clemson Experimental Forest to understand how small biomass burning sources contribute to local air quality.

## University of Pittsburgh launched Master of Science in Sustainable Engineering program this summer

Answering a demand for professional programs that help students find sustainable solutions to regional and global engineering issues, the University of Pittsburgh launched a new Master of Science in Sustainable Engineering (MSSE) program in fall 2017. The professional degree will utilize a systems-based approach to help students identify and address complex environmental and socioeconomic problems.

Housed within the University's Mascaro Center for Sustainable Innovation (MCSI) with the degree granted from the Swanson School of Engineering, the 30-credit MSSE integrates with nine current masters' degree programs in engineering, and provides students the opportunity to complete two M.S. degree programs with a limited time increase. The MSSE curriculum combines an engineering technical formation with the study of sustainability from multiple perspectives such as business, policy and economics. Civil and Environmental Engineering faculty member and Deputy Director of MCSI, Melissa Bilec, led the development of the MSSE program whose educational objectives are to: (1) provide advanced education to graduate students to identify and solve sustainability issues using systems approaches in the context of the triple bottom line of environmental, societal, and economic problems; (2) create a rigorous program with breadth and depth to propel graduate students to foster sustainable technologies, science, and practices in the U.S. and abroad; (3) create regional and nationally scalable sustainability solutions through service learning projects with a cohort of students; and (4) provide students with experiences that enable them to communicate sustainability issues and solutions to multiple audiences.

For more information, contact David Sanchez, Assistant Professor, Civil and Environmental Engineering and MCSI Assistant Director for Education and Outreach at [davidsanchez@pitt.edu](mailto:davidsanchez@pitt.edu) or 412-624-9793.

## New books detail Gulf of Mexico before the spill

C. Herb Ward, professor emeritus of civil and environmental engineering and ecology and evolutionary biology and presently a scholar at the Baker Institute for Public Policy at Rice University, edited “Habitats and Biota of the Gulf of Mexico: Before the Deepwater Horizon Oil Spill” at the behest of BP Exploration and Production, which leased the platform. BP paid for production of the books and the open-access fees.

The volumes are available as free e-books from publisher Springer, which also sells print versions.

Deepwater Horizon, stationed 250 miles southeast of Houston, was destroyed in April 2010 and the well spilled millions of gallons of oil into the gulf before it was capped at the seabed 87 days later. Eleven people died in the explosion.

The books were originally intended to set a baseline to help assess post-spill effects on the gulf, Ward said. He was approached for his expertise during the early days of litigation. “Their technical people were asked for input because in the assessment of damages, you have to have a baseline. So what was it? Does it exist?”

“They started asking really well-known people, and the universal answer was that there wasn’t

one,” he said. “There was a study of this and a study of that — all good published papers — but they didn’t serve as a baseline in any way on which to judge the damages.”

Ward, who taught courses at Rice in oil-spill cleanup and is the founding editor in chief of the international scientific journal *Environmental Toxicology and Chemistry*, enlisted authors from academia and from environmental consulting firms to write the collection of white papers.

“A job I thought was going to take six months ended up taking six years,” he said. “These were supposed to be internal documents for BP to start with, but in the process, they decided it would be a service to publish all this work, and I agreed.”

The authors’ topics include examinations of water quality, plant and animal life in the gulf, natural oil seepage, sediments, coastal habitats, and commercial and recreational fisheries. The books include entire chapters on sea turtles, birds and animal disease and mortality in the gulf.

He noted that while the Mississippi River continues to be the dominant influence on gulf ecosystems, the steady release of oil has also had an impact. “Remember, the books reflect the gulf be-

fore the spill,” Ward said. “They have nothing to do with oil spills — except that oil goes into the gulf 24 hours a day and has been doing so for thousands of years. There is a whole biology down deep that’s based on the presence of oil, and it would disappear if the oil release stopped. It’s their energy source — energy from the sun that was captured in plant and animal material and buried eons ago.”

“The gulf is a special body of water,” he said. “It always has been and always will be. I don’t know of any other major bodies of water that are so heavily impacted by the continuous input of oil. It’s an enormous energy input because of the oil vents and the ecology that’s developed around them. That might be completely unique.”

### For Download:

“Habitats and Biota of the Gulf of Mexico: Before the Deepwater Horizon Oil Spill”

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<http://www.springer.com/us/book/9781493934454>

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## John Sivey of Towson University received NSF CAREER Award



Dr. John Sivey, an assistant professor in the Department of Chemistry at Towson University, received an NSF CAREER award for his project, “BrCl and Other Highly Reactive Brominating Agents in Disinfected Waters: Implications for Disinfection By-Product Formation and Control”. Sivey’s grant is Towson University’s fifth NSF CAREER award and the first for the Department of Chemistry. Sivey’s project seeks to understand how the speciation of electrophiles can influence the formation rates and product distributions of brominated disinfection by-product in natural and engineered systems. This project also includes an interdisciplinary outreach program in which sixth grade math students use guided-inquiry water chemistry activities to discover how linear functions are essential to science and engineering.



**Environmental Research & Education Foundation**

*Lighting a path to sustainable waste management practices*

**The Environmental Research & Education Foundation Awards Seven Scholarships**

The Environmental Research & Education Foundation (EREF) is the largest source of funding for scholarships and grants related to sustainable solid waste management in North America. The Scholarship Program recognizes students with academic excellence, professional involvement and an interest in sustainable solid waste management issues at the postdoctoral, doctoral and master’s levels.

**The EREF Board of Directors is pleased to announce the award of seven scholarships in 2017:**



**Sampurna Datta**  
*University of Michigan, Ann Arbor, Ph.D.*



**Koichi Kanaoka**  
*Duke University, MS*  
Robert J. Riethmiller/PTR Baler and Compactor Scholarship



**Sarah Gustitus**  
*University of Virginia, Ph.D.*



**Daniel Moccia-Field**  
*Yale University, MS*



**Richard Hilliard**  
*Oregon State University, Ph.D.*



**James Souder**  
*Yale University, MS*  
Ice River Springs Master’s Scholarship for Sustainability



**Ryan Joslyn**  
*University of Central Florida, MS*  
Robert P. Stearns/SCS Engineers Master’s Scholar

Applications will be considered from those who:

- will be this year or are now a full-time master’s or doctoral student, and
- have a clearly demonstrated interest in solid waste management research.

Doctoral scholarships are awarded up to \$14,400 per year, paid monthly, and can be extended for up to 3 years from the initial award date. Master’s scholarships are awarded up to \$6,000 per year and can be extended for up to 2 years from the initial award date. Scholarship renewal is dependent upon satisfactory progress as determined by the student’s academic advisor.

**Applications for 2018 scholarships will be due in late spring 2018.**

More information on how to apply to the EREF scholarship program can be found at

<https://erefdn.org/scholarship-program/how-to-apply/>



## Environmental Research & Education Foundation

*Lighting a path to sustainable waste management practices*

### The Environmental Research & Education Foundation Awards Six Research Grants

EREF's Research Grants Program is led by its Research Council, a body of volunteers consisting of technical experts in industry, academia and consulting. The work of the Council is guided by a long range strategic plan with the goal to achieve greater sustainability, good environmental stewardship, higher process efficiency and increased knowledge of the solid waste industry.

In the past projects funded by EREF have primarily focused on landfills, but there has been a shift in funding priority in recent years to non-landfill projects that relate to sustainable solid waste management. Currently funded projects include coal ash management, anaerobic digestion, recycling, waste collection, waste diversion, organics stabilization, leachate treatment, landfill fugitive emission management and modeling and non-hazardous industrial waste management. Awards have been made over the past decade to more than 30 institutions.

#### The EREF Board of Directors approved support for the following projects funded in 2017:

##### **Comparative Microbiology of Typical and Elevated Temperature Landfills**

*D'Arcy R. Meyer-Dombard, Ph.D., University of Illinois at Chicago*

*Jean Bogner, Ph.D., University of Illinois at Chicago*  
Award Amount: \$120,000

##### **Effect of Food Waste Diversion on Leachate Quality**

*Florentino B. Dela Cruz, Ph.D., North Carolina State University*

Award Amount: \$75,000

##### **Liner Systems for Aggressive Leachates from Coal-Fired Power Plant Wastes**

*Kuo Tian, Ph.D., George Mason University*

Award Amount: \$150,000

##### **Effects of Aggressive Leachates on Modified Geosynthetic Clay Liners**

*Tarek Abichou, Ph.D., Florida State University*

*Youneng Tang, Ph.D., Florida State University*  
Award Amount: \$150,000

##### **Detection of Nuisance Odors Using Odor Binding Protein Sensor**

*Daniel E. Meeroff, Ph.D., Florida Atlantic University*

Award Amount: \$150,000

##### **Renewable Energy from Waste: A Study of Landfill Gas Purification by Hybrid Porous Materials**

*Fangyuan Tian, Ph.D., California State University at Long Beach*

Award Amount: \$100,000

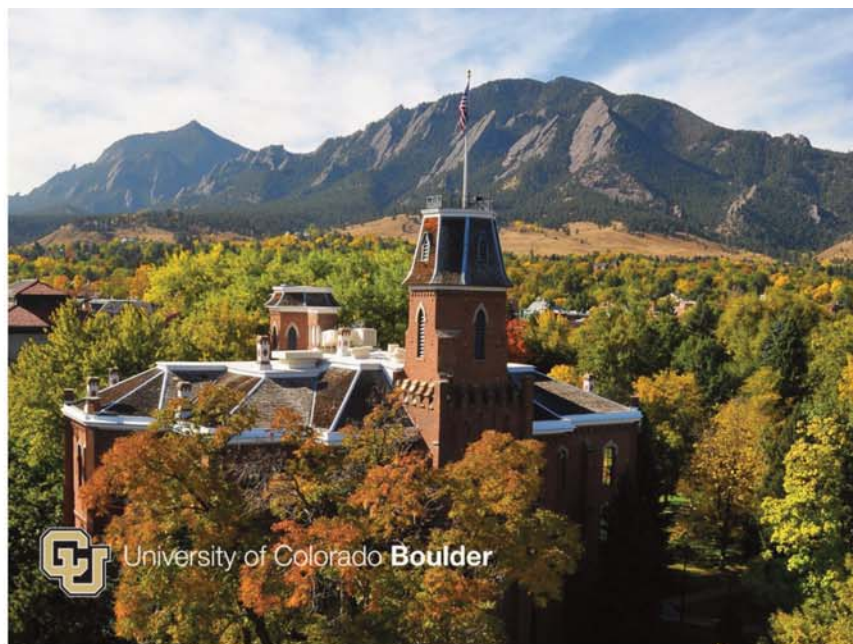
Pre-proposals are required prior to submitting a full proposal.

#### **The next preproposal deadline is January 8, 2018 at 5 pm (EST)**

Submission are accepted online and additional information on how to apply for a grant can be found at

<https://erefdn.org/research-grants-projects/how-to-apply-for-grant/>

For additional information, please contact Dr. Stephanie Bolyard ([sbolyard@erefdn.org](mailto:sbolyard@erefdn.org))



## Open Rank Faculty Positions in Environmental Engineering – Water Sustainability

The Environmental Engineering (EVEN) Program at the University of Colorado Boulder is currently seeking applications for two (2) tenure track faculty positions in the area of Water Sustainability. These positions are part of the long-term growth plans for the program. The positions are open at all levels, with special consideration given to applicants at the Assistant Professor rank. Although other topics related to the theme will be considered, ideally candidates should have teaching and research interests in one or more of the following areas: water reuse (e.g., membrane processes, engineered water infiltration systems), impaired water quality (e.g., organic and inorganic contaminants, microbial pathogens, toxicology), and systems analysis in the water-energy nexus (e.g., interactions between sectors, decentralization of water infrastructure, resource recovery, sustainability analysis). Candidates with interests in other topics related to the theme will also be considered.

The positions will be rostered in the Department of Civil, Environmental and Architectural Engineering (CEAE). Candidates must have an earned Ph.D. or equivalent degree in environmental engineering or a related field. Professional registration or an ability to become a registered professional engineer is desirable, but not required. The EVEN Program is one of the largest in the nation, with 19 full-time program faculty, over 220 undergraduate students, and over 70 graduate students. For information about the EVEN Program, please visit: <http://www.colorado.edu/even/>. For more information about the CEAE Department, please visit: <http://www.colorado.edu/ceae/>.

Successful candidates will be expected to engage in undergraduate and graduate teaching, contribute professional service, and develop vigorous, externally-funded research programs in their technical areas while fostering collaboration with other faculty. Candidates whose expertise

cuts across engineering disciplines are especially encouraged to apply. Candidates should describe their interests in teaching and graduate student researcher training, and their plans to develop a recognized research program based on scholarly work in their field.

Inclusiveness and diversity are valued characteristics of the faculty and students in the EVEN program, as well as primary objectives of the College of Engineering and Applied Science and the University of Colorado Boulder campus.

*The University of Colorado is an Equal Opportunity Employer committed to building a diverse workforce. We encourage applications from women, racial and ethnic minorities, individuals with disabilities and veterans. Alternative formats of this ad can be provided upon request for individuals with disabilities by contacting the ADA Coordinator at: [hr-ada@colorado.edu](mailto:hr-ada@colorado.edu).*

Applicants must submit their applications on-line at CU Careers (<https://www.cu.edu/cu-careers/cu-boulder>) for Job Posting Number 11158. Submit a PDF file containing a cover letter stating your research area (1 page), names and contact information for three to five references, a curriculum vita, and statements describing your goals related to teaching and research (2-3 pages each).

Review of applications will start on November 10<sup>th</sup>, 2017 and will continue until the positions are filled.

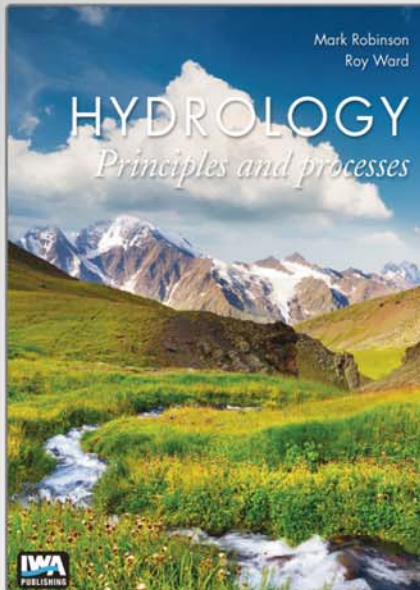
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Department of Civil, Environmental and Architectural Engineering  
Environmental Engineering Program  
University of Colorado at Boulder  
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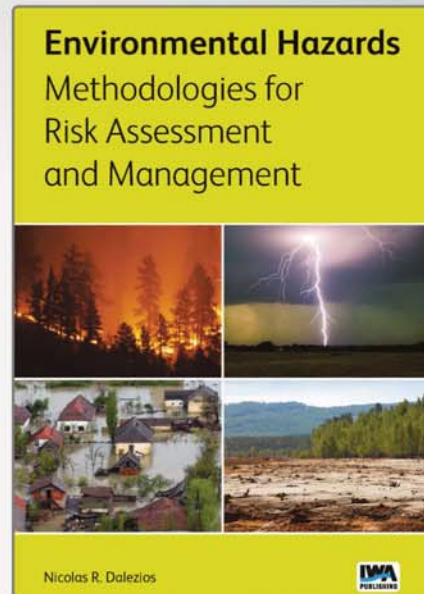




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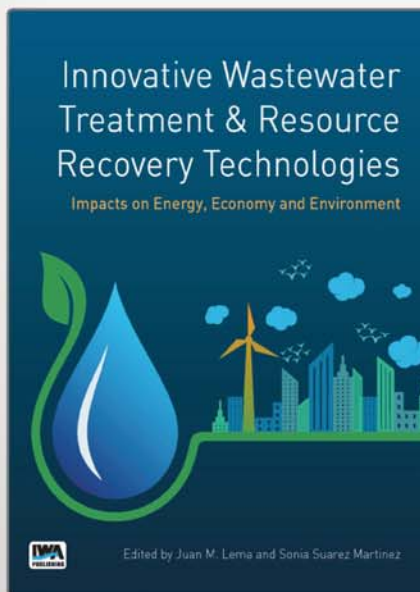


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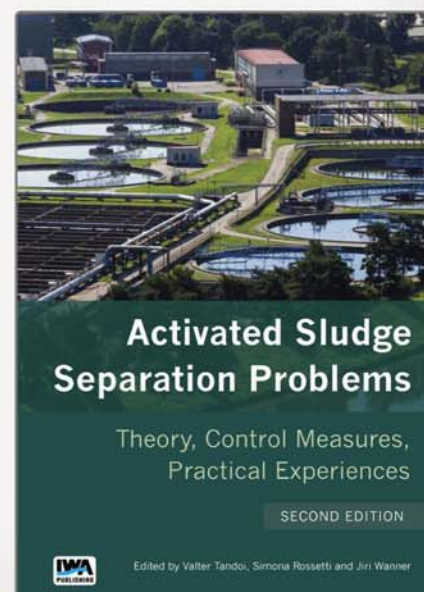


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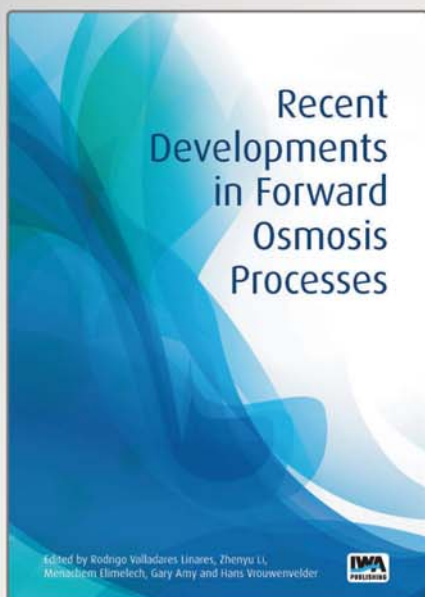
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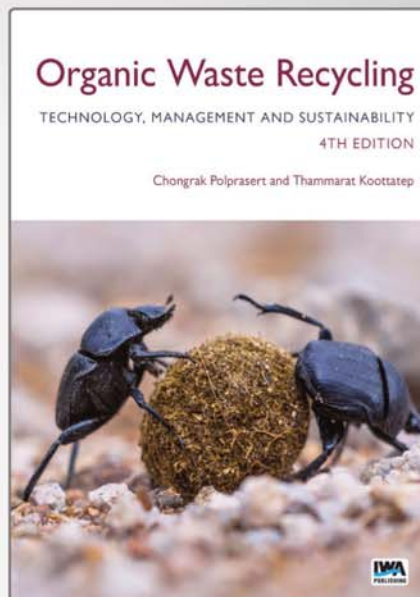
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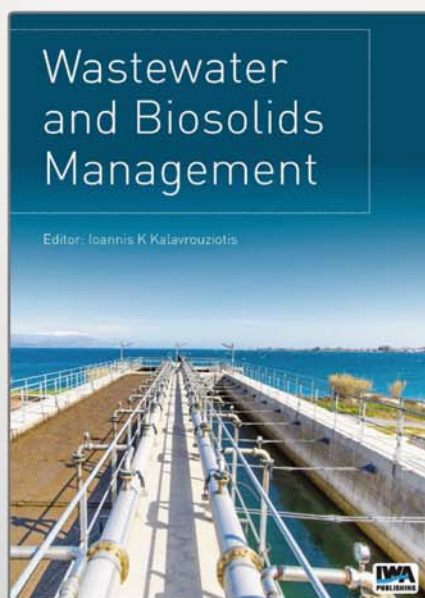
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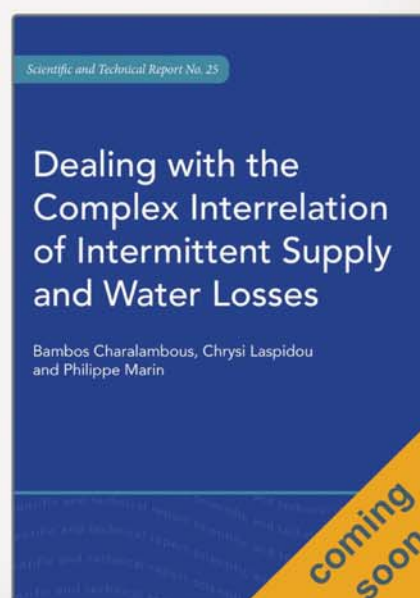
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Membership in AEESP offers important benefits to educators, researchers, students, professionals, corporations and organizations engaged in the environmental engineering and science profession. All who are eligible for membership are welcome to join the Association and to participate in the full range of benefits and opportunities. Membership categories and fees are described below, with complete definitions provided in the AEESP Bylaws. Applying online is easy! We welcome your participation!

### Regular and Student Membership

Regular Membership in AEESP is open to persons of full-time faculty or instructional rank (instructors, lecturers, assistant, associate, full professors) in environmental engineering or environmental science at academic institutions that offer baccalaureate, diploma, or graduate degrees in environmental engineering, environmental science or related fields.

Rank	Annual Fee
Full Professors	\$100
Associate Professors	\$75
Assistant Professors	\$50
Students and Post-docs	\$15

Applying for Regular membership is made by submitting a completed application form and a brief two page curriculum vitae online with payment. Alternatively, application materials may be mailed to the Business Office with a check enclosed.

### Affiliate Membership

Affiliate Membership is open to individuals who are not eligible for regular membership including:

- Individuals primarily employed outside academia who also hold academic appointments in an environmental engineering or related academic program (e.g. adjunct faculty).
- Individuals primarily employed outside academia who have made contributions to education in environmental engineering or related fields.
- Educators in environmental engineering or related fields who are employed at junior colleges or other educational institutions that do not offer the degrees specified above.
- Individuals who were members at one time and who have retired from active teaching.

Application for Affiliate membership is the same as for regular membership. The annual dues for Affiliate members are \$60.

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Sustaining Membership is open to individuals and organizations whose concern for education in environmental engineering and related fields stimulates them to assist in strengthening university programs devoted to this area. Sustaining members are often those who employ or interact closely with graduates of environmental engineering and science programs such as consultants, utilities, research foundations, professional organizations, publishers and equipment manufacturers. The financial support provided by Sustaining Members allows AEESP to carry out a variety of special programs that benefit all members of the profession. Sustaining Members have access to all AEESP publications and are invited to all AEESP events. Organizations or individuals desiring more information on Sustaining Membership should write to the Secretary, the President, or the Business Office.

Annual dues for Sustaining members are \$500. Organizations or individuals desiring more information on sustaining membership should contact the Business Office at the phone number below.

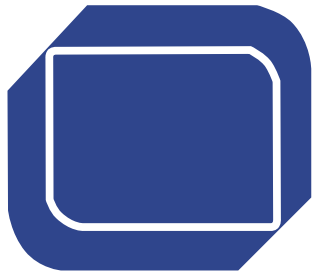
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# Association of Environmental Engineering and Science Professors Newsletter

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