



AEESP Newsletter

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- 2 AEESP News
- 9 Conferences/Workshops/
Lectures
- 11 Member News
- 17 Jobs

Highlights

- Job application review
for students **PAGE 3**
- AEESP Board highlights **PAGE 7**
- AEESP Distinguished
Lecturer **PAGE 9**
- 2013 AEESP Conference **PAGE 9**
- Bob Baillod obituary **PAGE 11**

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2012 AEESP membership?
Go to "Membership > Online Renewal"
on the AEESP website:
AEESP.org*

AEESP Newsletter Submissions

*Please send news, conference
announcements, job postings, letters
to the editor, and other contributions
to the newsletter to the new editor,
Upal Ghosh, at ughosh@umbc.edu.
The next newsletter will appear in
September, 2012.*

President's Letter

Environmental Engineering and Science... Great Profession for the Future

Submitted by JOEL G. BURKEN (MISSOURI
UNIVERSITY OF SCIENCE AND TECHNOLOGY)

I've always felt fortunate to be in a profession and a position that I truly love. I know from the passion of so many AEESP members that I am just one of many who share that feeling. As environmental engineers and scientists we work in a challenging and rewarding profession, and as researchers and educators we also help shape our profession for the future. Our collective accomplishments have a profound impact on our society and our world. To take just one example, in March 2012, UNICEF and WHO issued a joint report noting that more than two billion people gained access to secure drinking water sources between 1990 and 2010, thus meeting the global Millennium Development Goal (MDG) of decreasing by half the number of people without sustainable access to safe drinking water.¹ I personally take no direct credit for this accomplishment, but I applaud my colleagues and friends for their outstanding work, and feel proud that educators in our fields have done so much to lay the groundwork for such important initiatives.

It's imperative for all of us to remember the tremendous impact that a few passionate individuals can have on the world. Just a handful of people founded such influential programs as Engineers Without Borders and NGOs such as Water.org, and now those organizations attract and train thousands of dedicated, talented, and altruistic professionals to leave the world a better place. I recently spoke with



AEESP President Joel Burken

Gary White, the founder of Water.org, and learned how his professors inspired him to make a difference in the world. He developed the skills to break down political, social, and technological barriers, and to cultivate partnerships that have allowed his organization to contribute substantially to meeting the world's growing need for clean, safe water sources. Now he's one of *Time* magazine's 100 most influential people, but he's the first to admit that he didn't do it alone. All of us environmental engineers and scientists should be proud of the roles we collectively play in contributing to such ambitious goals as the MDG, and as professors, we should be proud of the role played in educating and many times inspiring students like Gary. We must also seek to help future generations of students to succeed professionally and to be agents of positive global change.

Acting globally and expanding the scope of environmental engineering education as a profession are part of our AEESP strategic initiatives. AEESP is looking to disseminate information on unique opportunities,

continued on page 4



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AEESP Membership Application online:

www.aeesp.org/membership/AEESP_member_app.pdf



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Updates from the Education Committee

Submitted by KAITLIN MALLOUK (UNIVERSITY OF ILLINOIS) AND CLAUDIA GUNSCH (DUKE UNIVERSITY) ON BEHALF OF THE EDUCATION COMMITTEE

Course Materials Database

The AEESP Education Committee is developing a database of members who are willing to share course materials with other AEESP members. These course materials may include syllabi, lecture notes, problem sets, exam questions, etc.

To start, the database will simply be a compilation of the names, contact information, and available materials that our members are willing to share. In the future, we hope to be able to host a password-protected repository for course materials that could be accessed by AEESP members.

We have opened an online survey to compile a list of AEESP members that are willing to share course materials and the courses and materials they are willing to share. The results of this survey will be assembled and published on the AEESP website by the end of the summer. To date, we have over 50 courses listed in the database including 8 air quality courses, 9 wastewater courses, and 11 general/introductory courses. Topics that are under-represented in the database and could use additional input from AEESP members include those related to Sustainability and Energy, Waste Management, Microbiology, Hydrology, and Engineering Science/Design.

If you are willing to add your course materials to the growing database, please fill out our online survey, which can be found on the Education page at the AEESP website: www.aeesp.org/education.

Water and Wastewater Treatment Online Video Resources

We are in the process of locating and evaluating online video resources related to water and wastewater treatment for use as educational tools in and out of the classroom. The evaluation of these resources will include a member-generated rating for the quality and usefulness of the resource, which can then be used by other members to select appropriate and valuable resources for their own courses.

Laboratory Manual Overhaul

We are currently evaluating the AEESP Environmental Engineering Processes Laboratory Manual, which was last updated in 2001. If you have suggestions for topics that are not included, but should be, please contact us (mallouk2@illinois.edu or ckgunsch@duke.edu). We will send out a formal solicitation to the AEESP membership shortly.

AEESP Ballot Results

Submitted by STEVE DENTEL (UNIVERSITY OF DELAWARE AND SECRETARY OF AEESP)

1) Membership Vote Establishes “Fellow” Membership Category

The January ballot results are in, with strong support (149 approving, 12 opposed) for the new Fellow membership classification. These are “AEESP members who have demonstrated the highest levels of teaching, research and/or service in the environmental engineering or science professorate.” At least 15 years as an AEESP member are also required. This membership category is considered as a significant recognition. However, unlike the Lifetime membership category, it does not provide an exemption from dues (although a Fellow may be exempt from dues if he or she is also a Lifetime member).

The Membership Committee is developing the procedures for nominating and selecting Fellows. At steady state, the Board anticipates admission of no more than 1% of the membership to this category per year.

2) Straw Poll: Most Members Want Journal Affiliation to Move Forward

As explained in previous newsletters, the AEESP has been weighing the pros and cons of affiliating itself with an international journal. The prime candidate for such affiliation has been the journal *Environmental Engineering Science (EES)*. Accordingly, our Board of Directors

appointed an ad hoc committee that worked with *EES* to develop a memorandum of understanding to implement this collaboration (available at www.aeesp.org/pdf/publications/EES_MOU.pdf). The Board also agreed to add a non-binding “straw poll” on this question to January’s member ballot (already required for the bylaw change establishing a Fellow membership category).

The results for the poll are in. A total of 161 votes were received—about 25% of the membership—with the counts as follow:

- 1) do not pursue a journal affiliation at this time—50 (31%)
- 2) move forward on a bylaw amendment for an affiliation with *EES*—91 (56.5%)
- 3) move forward in developing a journal affiliation considering an alternate journal—12 (7.5%)
- 4) abstentions—8 (5%)

A clear majority approve of affiliation with *EES*. If abstentions are neglected, 60% want the bylaw amendment to be offered, and 67% want affiliation with either *EES* or an alternate journal. The level of dissention was also significant, however, with 33% opposing a journal affiliation at this time.

Technically, the straw poll shows support for a ballot measure on *EES* affiliation rather than on the affiliation itself. The binding vote on the journal affiliation, presented as a bylaw amendment, will be the final determinant.

Program on Academic Job Application Review for Graduate Students and Postdoctoral Researchers

The AEESP Student Services Committee is pleased to announce this year’s Academic Job Application Review Program to take place in Summer 2012. The Program will link student and postdoctoral researchers who are interested in applying for academic jobs with faculty members who will provide individualized advice to strengthen academic job applications. Approximately 50 students and postdoctoral scholars benefited from this Program during the AEESP 2011 Conference, and this year’s Program will be conducted entirely online through email, phone, or teleconference correspondence. Student participants will interact with professors

from different institutions to receive comments on their draft documents that comprise an application for a faculty position as well as to get perspectives on job expectations.

At this time, the Committee is opening registration to graduate students and postdoctoral researchers and soliciting faculty members to serve as volunteer reviewers. Program registration is limited to 40 participants with application packages. All interested students and reviewers are asked to respond to the Committee (acad_job_review@aeesp.org) by **June 15**.

President's Letter, continued from page 1

advance the portfolio of teaching methods, and develop a repository of educational materials on an increasingly diverse array of topics. Electronic modules, case studies, and successful examples of how to teach such topics as life cycle analysis, sustainable water and energy supply, or climate change mitigation are targeted to be developed and disseminated. AEESP is also considering new avenues by which to distribute these resources and to publish on effective new methods of teaching. The education committee is currently collecting and reviewing innovative educational materials that we can disseminate within AEESP. Please see their call for submissions and a description of the program (page 2). We certainly cannot rely on textbooks alone, particularly for many topics of global significance that are moving at a faster pace than traditional publishing. Our students are also more in tune with learning from podcasts and multimedia tools that are readily available, so “education on the fly” must be part of our toolbox. Other approaches and ideas to improve and expand our educational methods, materials, and topics will be discussed at the *Frontiers in Environmental Engineering and Science Education* workshop to be held this October, thanks to generous support from NSF and NIEHS. Topic solicitations and attendee applications will be sent soon, and additional information is included in this issue of the newsletter (page 9).

So as we look to the future, we all must consider how best to educate and train the next generation of environmental engineers and scientists. To that end, AEESP seeks to develop some best practices that will improve and expand learning beyond the classroom and beyond graduation as well. We can look to professional societies like AAEE, WEF, IWA, ASCE, and organizations like EWB to provide experience, resources, and expertise regarding how best to link experiential learning with more traditional educational and training goals. Some specific collaborative efforts with AAEE are highlighted in this newsletter. As part of this effort to increase collaborations among practicing professional and organizations, we have also stepped up collaboration with the ACS – Environmental Chemistry Division to offer joint sessions, and ACS will also support student poster awards at AEESP meetings and conferences. I offer my sincere thanks to Dion Dionysiou for leading this effort. Another important collaboration that will improve the education of our future environmental engineers and scientists is the first annual Department and Program Chairs

Conference this July 29–31 in Columbus, Ohio, jointly organized by AEESP and AAEE. Details and registration information are listed in this newsletter (page 10) and on AEESP.org. This NSF-supported conference will help academic leaders to handle the increasing challenges in administering our educational programs and to create a communications platform that will last for generations.

We are certainly experiencing an exciting time in environmental engineering and science, but I have begun to suspect that our field has always been that way. I remember the passion and excitement of my professors and mentors and of AEESP members when I joined as a graduate student almost 20 years ago. I hope and FULLY expect that this excitement and passion will continue for all future generations, with AEESP continuing to lead the way as it has since it was founded in 1963, nearly 50 years ago. Yes, indeed, we will celebrate our Golden anniversary next year! My favorite quotation sums things up pretty well:

“A teacher affects eternity; he can never tell where his influence stops.”

—HENRY BROOKS ADAMS, 1907 (1838–1918)

Without doubt our students will face challenges we have not yet imagined as they go out and shape our future society.



Joel G. Burken
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 President of AEESP
 Associate Chair and Professor at Missouri S&T

¹ WHO/UNICEF Joint Monitoring Programme for Water Supply and Sanitation
www.unicef.org/media/files/JMPreport2012.pdf

Results of Policy Statement Elicitation

July 12, 2011

AEESP Research and Education Conference
University of South Florida

Submitted by PATRICK GURIAN (DREXEL UNIVERSITY)

One of the lunch sessions at the July conference involved a brainstorming activity in which members proposed and prioritized topics for AEESP policy statements. The results provided by the different lunch groups were then combined and edited by the facilitators of the exercise to develop the following five topics for policy statements:

AEESP should develop a policy statement defining sustainability criteria for use in formulation of standards (ISO, ASTM, etc.). This should include criteria for renewable energy portfolios.

AEESP should develop a policy statement supporting urgent research in science and engineering to support sustainability, including 1) disruptive innovations and the use of universities as test beds, 2) practical applications of and implementation of new technologies.

AEESP should develop a policy statement encouraging members to collaborate with members of other disciplines and acquire a basic functional knowledge of these disciplines.

AEESP should develop a policy statement identifying sources of good practices in education and encouraging members to adopt these practices in their teaching.

AEESP should develop a policy statement that environmental literacy is a fundamental literacy for an educated person in the 21st century. Environmental literacy of the citizenry is critical to sustainable development, and every college graduate should have an understanding of how the environment functions, the links between environmental quality and human well-being, how technology influences the environment, how technology can provide solutions to environmental challenges, and how societal institutions may provide solutions to environmental challenges. Universities should seek to achieve environmental literacy in all students, and offer opportunities for environmental specialization for students who desire deeper understanding. Additional environmental education efforts should target K–12 students and the general public.

This environmental education:

- 1) should be forward looking by addressing the concepts and topics that will be important to the future
- 2) should be integrated into the general undergraduate curriculum, especially into all engineering majors, and
- 3) should be both quantitative and qualitative.

These five topics are being provided to the Board and membership for their consideration. AEESP's policy adoption process provides that the formulation of new policies may be initiated either by the Board or by AEESP committees (with appropriate notice to the Board). This was intended only as a brainstorming exercise, and these topics will not necessarily be carried forward into policy statements, unless the Board or individual committees choose to follow up on one or more of them. Similarly, this process does not in any way exclude other prospective policies from consideration. The Government Affairs committee thanks the attendees and facilitators for their participation in the exercise, and hopes it is helpful as the organization considers the adoption of policy statements.

Changes to the AEESP Board of Directors

Submitted by JOEL G. BURKEN
(MISSOURI UNIVERSITY OF SCIENCE
AND TECHNOLOGY)

I regret to report that two of the AEESP board members have resigned their positions over the past year. On behalf of the entire Board of Directors and AEESP members, we want to thank Sharon Jones and Benito Marinas for their service to and work for AEESP. The rigors of academia and multiple appointments at their universities did not afford the time they felt the Board position deserved and each asked to resign. Sharon was in her last year and her position will be filled through the election this summer. Benito has just over a year remaining and Allen Davis from the University of Maryland has been appointed to fill the vacancy and he has accepted the appointment. Allen has been a champion of the Government Affairs Committee for many years and has contributed greatly to many AEESP activities, and we gladly welcome him to the Board of Directors.

AAEE and AEESP Step Up Collaboration

Submitted by MICHAEL SELNA (PRESIDENT, AAEE)

Joint efforts with AEESP President Joel Burken and teams of energetic AAEE and AEESP committee volunteers have resulted in a number of very positive outcomes. The high level of cooperation between our organizations emphasized by 2010 presidents Cecil Lue-Hing (AAEE) and Peter Adriaens (AEESP) and furthered by last year's presidents Brian Flynn and Nancy Love has begun to bear fruit.

Department and Program Chairs Conference

Designed to provide a forum for Environmental Engineering (and similarly named) department and program chairs to exchange ideas on curriculum, teaching methods, accreditation, administration, the BOK, and education outcomes, this conference is a joint effort of AEESP (lead) and AAEE. The inaugural conference is scheduled for July 29-31, 2012, at the Ohio State University as a stand-alone conference. In alternate years the conference would be held in conjunction with AEESP's Biennial Conference. AEESP's role is to create the conference content; AAEE's role is to provide the conference planning and links to outside entities.

Academic Award

AAEE, in cooperation with AEESP, has developed a new award that recognizes outstanding achievement in the education of practitioners. The inaugural award was presented to Professor Emeritus George Tchobanoglous, U.C. Davis, at the Academy's Excellence in Environmental Engineering Awards ceremony on April 26, 2012 in Washington D.C.

Student Competition

AAEE is working on a student competition that will reward Engineers Without Borders (EWB) project teams for their outstanding work. The Academy is mindful of the drain on students and faculty associated with project competition programs. As such, this will not be a new "project" but will instead focus on existing projects the students are already involved in. The inaugural award will be bestowed at the Academy's Excellence in Environmental Engineering Awards Banquet in April 2013.

Intern Opportunities

At the suggestion of AEESP Board member Bob Arnold (University of Arizona), AAEE has created a clearinghouse for MS degree interns and employers to link up internships. The AAEE website will provide an opportunity for students to list their desire to serve as interns and employers to list opportunities. The concept is to have employers provide specific projects to be addressed by MS candidates as part of their degree requirements. The program is scheduled to roll out on a pilot basis at the University of Arizona in the fall of 2012.

Student Chapter Opportunities

AAEE membership is free to students, and student chapters are encouraged. So as not to overload already busy students, AAEE advocates joint chapters serving multiple professional organizations. In this structure, students enjoy the benefits of each organization but do not meet multiple times. AAEE Students and Young Professionals Chair Stephanie Bolyard (scarbone@knights.ucf.edu) can assist in the formation of new chapters.

New Environmental Scientist Certification

The Academy Board of Trustees has approved a new certification category of **Board Certified Environmental Scientist (BCES)** and has approved a change in the name of the organization to reflect the inclusion of environmental scientists. The organization will be known as the **American Academy of Environmental Engineers and Scientists**. The name change will be effectuated in January 2013 and the first round of testing and certification of environmental scientists will occur in the spring of that year. Applications are being accepted now for the first BCES class.

AEESP is a vibrant organization, and on behalf of the Academy, I want to thank its leadership and members for their support in these new programs. We have the common goal of serving the Environmental Engineering profession as well as students and young professionals who will be our future leaders. I encourage feedback, so please feel free to contact me with your thoughts: michaelselna@socal.rr.com

Highlights of the AEESP Board of Directors Spring 2012 Meeting

Submitted by JENNIFER G. BECKER (MICHIGAN TECHNOLOGICAL UNIVERSITY)

The AEESP Board of Directors met at the University of Michigan campus on May 17–18, 2012. We were joined by Joanne Fetzner who manages the AEESP Business Office and, during strategic planning activities, by Nancy Love, the previous President of AEESP. We thank Nancy and the University of Michigan staff who helped with meeting logistics for their hospitality, which helped ensure that we had a pleasant and productive meeting!

The highlights of our meeting are listed below.

■ The Board welcomes Allen P. Davis (University of Maryland) as its newest member. Allen has a long history of dedicated service to AEESP including, most recently, his service as Chair of the Government Affairs Committee. Allen was appointed to the Board to fill the vacancy created by the resignation of Benito Marinas (University of Illinois), whose term was scheduled to end in 2013. Three additional Board members will be elected during the regularly scheduled elections in July to replace Sharon Jones and outgoing Board members Joel Burken and Steven Dentel. Please look for the election ballot and information on the Board nominees in a July mailing.

■ Based on the results of the “straw” poll of AEESP members completed earlier this year to gauge interest in establishing an official affiliation of AEESP with an international journal (including *Environmental Engineering Science*) the Board is putting forward an official vote to the full AEESP membership to make changes to the bylaws that would:

- allow the Board to designate an official journal, and
- designate *Environmental Engineering Science* as the journal of choice (pending final development of a Memorandum of Understanding with Mary Ann Liebert, Inc., the publisher of *Environmental Engineering Science*).

AEESP member participation in the recent straw poll and past bylaws amendment votes has been relatively low. We encourage all AEESP members to educate themselves about the potential affiliation of AEESP with an international journal



The AEESP Board of Directors on the University of Michigan campus: (from left): Joanne Fetzner, Sharon Walker, John Tobiason, Joel Burken, Mark Wiesner, Jennifer Becker, Sarina Ergas, and Bob Arnold. Steve Dentel was unable to attend and called in for the meeting, including being on Joel’s phone in the photo.

and consider what the implications of such an affiliation might mean for the future of AEESP and its members. The official ballots for the proposed bylaws change will be mailed out in July along with the Board election materials. Please be sure to submit your vote on this important issue!



Allen Davis, new member of the AEESP Board of Directors

■ The Board and current business manager, Joanne Fetzner, devoted the better part of a day to discussion of the future management services that will be needed in order for our expanding organization to function well and achieve AEESP’s strategic goals, including:

- Expand AEESP’s Global Presence
- Define the Scope and Direction for Environmental Engineering & Science Curricula
- Facilitate Expanded Research Activity
- Promote the Environmental Engineering & Science Community

Nancy Love acted as a facilitator for this strategic planning session, which was also enhanced by input from David

continued on next page

Board Highlights, *continued from page 7*

Dzombak (current Chair of the AEESP Foundation Board), Charles Werth (former member of the AEESP Board and the AEESP Foundation Board), and James Mihelcic (former President of AEESP), who participated in the discussion via teleconference. Several different management models that could be adopted to meet the future needs of our association were discussed, and an ad hoc committee consisting of Mark Wiesner, John Tobiason, Jennifer Becker, and Nancy Love was formed to develop a request for proposals (RFP) for the provision of management services to AEESP in the future. The committee expects to complete development of the management services RFP within the next several months. If AEESP members have insight regarding management models that have been successfully implemented by professional associations like AEESP, they are encouraged to share this information with members of the ad hoc committee.

- The Board discussed the rising cost of “doing business” and agreed on a plan to address these expanding costs. First, the Board approved the first dues increase since 2001. Student dues will be unaffected by this increase. Thus, effective January 1, 2013, the new dues rates will be: student (\$15); assistant professor (\$50); associate professor (\$75); full professor (\$100); and affiliate (\$60). The Board also voted to increase revenue by raising the flat fees of Web-based advertisements to \$400 and \$450 for academic and industrial ads, respectively. These rates have not been increased in over 5 years.
- The Board also discussed the contacts and relationships with collaborating organizations and sustaining members. As we have increased activities with many organizations, our efforts to maintain communication must also increase. The liaisons with many organizations were reviewed, and we are working to develop a Sustaining Member Stewardship Committee that will maintain standing contacts with all sustaining members.
- Recognition of the many accomplishments of members of AEESP and the broader environmental engineering and science community is an important component of the association’s mission to serve our members and profession. To that end, the Board approved formation of an ad hoc committee

that will focus on developing processes for improving communication about awards, coordination of new award development, and administration of existing awards with the AEESP Foundation and the American Academy of Environmental Engineers (AAEE). The committee will also be charged with long-term planning, including consideration of how many awards should ultimately be given in the academic, practitioner, and student categories. The Board supports the efforts of the AEESP Awards Committee to solicit more nominations for all AEESP awards, including earlier announcement of the request for AEESP award nominations. This will provide would-be nominators with more time to assemble the award nomination packages. Look for an announcement of the request for nominations for the 2013 AEESP awards some time this fall!

Earlier this spring the Board also:

Approved a proposal by Mandy Ferguson (Duke University) to undertake a much-needed update and expansion of the services provided through the AEESP Website.

Approved the proposal by Linda Figueroa, Angela Bielefeldt, Junko Munakata Marr, and Anu Ramaswami for the 2013 AEESP Research and Education Conference to be held at the Colorado School of Mines (July 14–16, 2013) in Collaboration with University of Colorado-Boulder and University of Colorado-Denver. The theme of the conference, which coincides with AEESP’s 50th anniversary, is: Environmental Engineers and Scientists of 2050: Education, Research and Practice. More information on the 2013 conference appears elsewhere in the newsletter.

A constant theme of the Board’s discussions this past spring has been the importance and need to fully engage AEESP members in our Association’s many activities and in shaping its future. The Board welcomes input and suggestions from AEESP members. Contact information for current AEESP officers can be found on the last page of this newsletter and for other directors at: www.aeesp.org/contact_board.

The next meeting of the AEESP Board of Directors will be held in New Orleans in conjunction with WEFTEC 2012. We look forward to seeing many of you at the numerous AEESP-sponsored events at WEFTEC on October 1, 2012!

2012–13 AEESP Distinguished Lecturer: Desmond Lawler



Submitted by JEANINE PLUMMER (WORCESTER POLYTECHNIC INSTITUTE)

Desmond Lawler is the Nasser I. Al-Rashid Chair in Civil Engineering and a member of the Academy of Distinguished Teachers at the University of Texas. His research and teaching focus on physical/chemical treatment processes for water and wastewater, with greater emphasis on drinking water treatment. Throughout his career, he has studied particle removal processes and more recently has been studying desalination and processes for the removal of pharmaceuticals and personal care products. He served as the Secretary of AEESP for two years early in his career, and has been a board member of the Water Science and Research Division of AWWA for the past several years. He is a member of the Drinking Water Committee of the Science Advisory Board of the USEPA. Des has received several teaching awards at UT and his contributions to research and education have been recognized with major awards by AWWA, WEF, and AMTA. His 75 MS graduates are productive throughout the water and wastewater field, and 14 of his 20 PhD graduates are academicians.

Dr. Lawler will offer the following lectures during his tours:

- Particles, Particles, and More Particles
- Water, Water, Everywhere: Challenges of Inland Desalination

Lecture tour dates will be scheduled from September 2012 through April 2013. Further descriptions of these talks and host application forms are available on the AEESP website and from Jeanine Plummer (jplummer@wpi.edu). Applications were due by May 22, 2012.

Workshop Announcement: Frontiers in Environmental Engineering & Science Education

Submitted by JOEL G. BURKEN (MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY)

After a few 'on again... nope off again' potential funding efforts, we are pleased to announce successful funding of a 2-day workshop to address needs and novel approaches in environmental engineering and science education. Due to generous funding from NSF and NIEHS, the workshop will address topics of educational pedagogy as well as topics where more educational focus is needed. The planned dates are October 18 and 19 in St. Louis, MO.

The goal of the workshop is to engage leading environmental engineering educators and researchers to define and advance major directions in the educational challenges and also to develop methods for sharing breakthroughs and needs in education methods in these frontier areas. Through AEESP and ASEE, the workshop results will be broadly disseminated, likely in report and webinar forms and sessions at future ASEE and AEESP meetings.

AEESP Education and Research Conference 2013

Submitted by LINDA A. FIGUEROA (COLORADO SCHOOL OF MINES)

The Colorado School of Mines in conjunction with the University of Colorado Boulder and Denver Campuses has been selected to host the 2013 Association of Environmental Engineering and Science Professors Education and Research Conference. The conference will take place July 14, 2013 (Sunday)–July 16, 2013 (Tuesday) in Golden, Colorado. The theme of the conference will be “Environmental Engineers and Scientists of 2050: Education, Research and Practice.” A conference website will be set up this summer explaining more about the conference and activities for you and your family to enjoy in the Colorado Front Range area and the Rocky Mountains.

We look forward to seeing you next summer,

Linda Figueroa (Chair)
Junko Munakata Marr (Co-Chair)
Angela Bielefeldt (Co-Chair)
Anu Ramaswami (Co-Chair)

Along with disseminating the findings, educational resources will be developed to be shared among AEESP members. The AEESP Education and Internet Resources Committees are currently working on developing a peer-review process and web-based repository for publishing the resulting materials. The workshop will also foster discussion of ongoing and future research that will create new knowledge for solving problems and how resulting knowledge that is created can quickly and efficiently translate to classrooms and beyond... into non-traditional educational approaches. If the resources for emerging topics are noted to be absent/needed nationally, the workshop will serve to develop calls to develop the necessary resources and forward the recommendations nationally, including to federal agencies such as NSF, Determent of Education, and NIH.

A call for thought topics will be following soon. For more information, please contact me at: burken@mst.edu.

TIME TO REGISTER

July 29-31, 2012

THE OHIO STATE UNIVERSITY



AMERICAN
ACADEMY
OF ENVIRONMENTAL ENGINEERS®

FIRST ANNUAL

Environmental Engineering Department and Program Chairs Conference

CONFERENCE TOPICS INCLUDE

CURRICULA

EDUCATIONAL RESOURCE SHARING

ADMINISTRATIVE ISSUES

ACCREDITATION

TEACHING PEDAGOGY

PROFESSIONAL ASPECTS

ADVANCING/EMERGING TOPICS

RESEARCH NEEDS

ROLE OF BSEnvE vs MS

POLICY STATEMENT 465

PROFESSIONAL SOCIETY ROLES

The Association of Environmental Engineering and Science Professors (AEESP), in partnership with the American Academy of Environmental Engineers and Scientists (AAEES), is launching a new annual conference for Environmental Engineering Department and Program Chairs. The conference will provide a platform for discussion of issues common among environmental engineering programs and for sharing ideas related to curriculum/trends in education. At this inaugural meeting, the conference will serve to establish the framework for future meetings and the creation of a communications and information-exchange platform to foster a continued dialog among program and department leaders nationally and internationally.

The conference will begin Sunday evening with an ice-breaker. Sessions will run all day Monday and half day on Tuesday.

A block of rooms is being held at The Blackwell Inn, which is on campus and near the location of the meeting. Room rate is \$133 per night - the room block is called "Environmental Engineers Chairs Conference". The room block will be held until Friday, June 29, 2012 - afterwards, rooms can be reserved subject to availability. Complimentary pre-arranged airport transportation to and from the Port Columbus International Airport is available. The Blackwell contact information is: phone 614-247-4000 or toll-free 866-247-4003, or visit them at <http://www.theblackwell.com/>.

Register at http://www.aee.net/AEESP-Chairs_Conference

Be a part of this groundbreaking NEW conference designed to serve the needs of the Environmental Engineering academic community!



For more information contact:

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537-341-6547
burken@mst.edu

Michael Selna, President, AAEE
714-374-5686
michaelselna@socal.rr.com

Carolyn Merry, OSU Host
614-292-2771
merry.1@osu.edu

OBITUARY**C. Robert (Bob) Baillod****March 21, 1941–April 12, 2012**

Submitted by JENNIFER BECKER AND NEIL HUTZLER (MICHIGAN TECH) AND PATRICK BREZONIK (UNIVERSITY OF MINNESOTA)

A champion and tireless advocate for our profession, C. Robert (Bob) Baillod, passed away on April 12, 2012. He leaves an impressive legacy of contributions to environmental engineering education and practice.

Bob obtained a B.S. in Civil Engineering from Marquette University (1963) and M.S. (1965) and Ph.D. (1968) degrees in Civil Engineering from the University of Wisconsin before beginning a tenure of nearly 40 years on the faculty of the Civil and Environmental Engineering Department at Michigan Tech. In the 1980s, he played a major role in developing an undergraduate environmental engineering program that is now nationally ranked and among the largest in the country. His research and teaching focused on water and wastewater treatment, with an emphasis on biological treatment processes. Bob served as Department Chair from 1991 to 2005. During this period, he greatly increased the number of environmental engineering and science faculty at Michigan Tech and oversaw the growth of its environmental engineering graduate program.

Bob's leadership and vision for environmental engineering education have had lasting impacts through his service to the Association of Environmental Engineering Professors (AEEP [now AEESP]), the American Academy of Environmental Engineers (AAEE), and the Accreditation Board for Engineering and Technology (ABET). In 1986, he served as chair of the Fifth AEEP Conference on Environmental Engineering Education, and his efforts were recognized with a Distinguished Service Award. Many of the issues highlighted at the meeting are still remarkably relevant and continue to influence environmental engineering and science education programs today. Bob continued to serve AEEP as: Chair of the Education Committee (1987–1991), member of the Board of Directors (1989–1993), Vice President (1990–1991), President (1991–1992), and member of the Planning Committee for the Seventh Conference on Environmental Engineering Education (1996).

Bob's service to AAEE was a testimony to his commitment to defining the knowledge and skills that environmental engineering students must acquire to be successful practicing engineers and the development of environmental engineering curricula that provide students with those knowledge and skills. Most recently, Bob served with Debra R. Reinhart (University of Central Florida) as the co-leader of



Bob's colleagues at Michigan Tech remember him as a tireless advocate and mentor who worked behind the scenes to help advance the careers of others.

the National Environmental Engineering Body of Knowledge (BOK) Work Group. He served a three-year term as an elected member of the AAEE Board of Trustees from 2007 to 2010. Bob also served as a member and Chair of AAEE's Education Committee and was the founding editor of *Environmental Engineer: Applied Research and Practice*, AAEE's peer-reviewed journal. Through his work with ABET, including service as a Program Evaluator for Environmental Engineering (1999–2005), Bob also played an active and critical role in the assessment of environmental engineering programs. Bob's wide-ranging service to the environmental engineering community benefited from his personal integrity, even temper, and optimistic spirit. Bob continued to actively serve the environmental engineering community after retiring as an Emeritus Professor in 2007.

Bob's colleagues at Michigan Tech remember him as a tireless advocate and mentor who worked behind the scenes to help advance the careers of others. He championed our students and prodded us to take on educational initiatives, which we begrudgingly admit, were good for us as well as for our students. Bob balanced his commitment to his department and the broader environmental engineering community with active community service, including membership on the board of the local water and wastewater authority for 34 years (including 20 years of service as its Chair). He was also an avid Lake Superior boater and enthusiastic hockey fan, youth hockey league coach, and intramural hockey player (well into his 60s). Bob is survived by his wife, Jeanine (Godfried) Baillod and sons Brian, Brendon, and Bradley and their families.

Willie Harper Joins AFIT

Dr. Willie F. Harper, Jr. has joined the faculty at the Air Force Institute of Technology (AFIT) near Dayton, Ohio. Dr. Harper is an Associate Professor, having received a B.S.C.E. degree from UCLA, an M.ENG. degree from Cornell University, and a Ph.D. from UC Berkeley, where he studied enhanced biological phosphorus removal with David Jenkins. Dr. Harper also served as a process engineer at CH2M Hill, Inc. for five years. Dr. Harper's general research interest is biological processes, and recently he has focused on using biosensors to detect pollutants, understand the transformation of pharmaceutical compounds, and analyze environmental sustainability. Before joining AFIT, Dr. Harper served on the faculty at the University of Pittsburgh and at Auburn University, where he was honored with the outstanding junior faculty award in 2007. Dr. Harper is a professional engineer and he is also a recipient of the NSF Early Faculty CAREER award and the Pennsylvania Water Environment Association Professional Research Award.



Willie F. Harper, Jr.

AFIT is the Air Force's graduate school. AFIT is committed to providing defense-focused graduate education and research to sustain the technological supremacy of America's air and space forces. Harper speaks highly of his new environment, "AFIT has the most unique and committed group of graduate students in the country. Our students are experienced, multi-talented military professionals. We also have very fine lab facilities and outstanding researchers in residence. I am excited about the possibilities that exist here at AFIT."

New Department of Chemical, Biochemical, and Environmental Engineering at UMBC

As part of a strategic initiative at UMBC to expand its research and academic leadership in environmental sustainability, the Departments of Chemical and Biochemical Engineering and Civil and Environmental Engineering merged on July 1, 2011 to form the new Chemical, Biochemical, and Environmental Engineering Department. The merger has created a significantly larger department with expanded research breadth. We've hired two new faculty members as part of the merger. Dr. Lee Blaney is a new Assistant Professor and is building a research program focused on advanced treatment processes aimed at removing pharmaceuticals from water and wastewater matrices. Dr. Josh Enszer has joined us as a new Lecturer, conducting courses involving experimental and computational tools, mathematical modeling, and working with new learning technologies. We are currently searching for another new Assistant Professor to join us in Fall 2012. We are expanding the opportunities for our undergraduates by adding a new track in Environmental Engineering and Sustainability. The track leads to the B.S. degree in chemical engineering and is available to current freshmen and sophomores at UMBC as well as incoming students. Help us spread the word!

More information about our new department is available here: www.umbc.edu/cbe/

Jeremy Guest: New Assistant Professor at UIUC

Dr. Jeremy S. Guest joined the Department of Civil and Environmental Engineering at the University of Illinois at Urbana-Champaign (UIUC) as an Assistant Professor in December 2011. Prior to joining UIUC, Dr. Guest received his Ph.D. in Environmental Engineering from the University of Michigan (2011), his M.S. in Environmental Engineering from Virginia Polytechnic Institute and State University (2007), and his B.S. in Civil Engineering from Bucknell University (2005). His honors at the University of Michigan included receiving the Walter J. Weber Jr. Award in Environmental and Energy Sustainability and being named a Predoctoral Fellow of the Rackham



Jeremy S. Guest

Graduate School and a Doctoral Fellow of the Graham Environmental Sustainability Institute.

Dr. Guest's research is aimed at developing biotechnologies and decision-making tools that enable the design of more sustainable environmental infrastructure in both technologically advanced and developing communities. His primary focus is on sanitation and the development of bioprocesses that reduce life cycle environmental impacts, reduce costs, and increase performance reliability by achieving energy, nutrient, and product recovery from wastewaters. At UIUC, Dr. Guest is also contributing to the development of a new cross-cutting program in energy and water sustainability within the Department of Civil and Environmental Engineering. Detailed information about Dr. Guest's research and educational activities can be found at www.engineeringforsustainability.com.

Lee Blaney: New assistant Professor at University of Maryland Baltimore County

In August 2011, Dr. Lee Blaney joined the newly merged Department of Chemical, Biochemical, and Environmental Engineering at the University of Maryland Baltimore County (UMBC) as an assistant professor. Lee comes to UMBC after finishing his PhD at the University of Texas at Austin, where he was advised by Desmond Lawler and Lynn Katz in the Environmental and Water Resources Engineering program.



Lee Blaney

Lee's research deals with transformation of emerging contaminants, such as pharmaceuticals and personal care products, in natural and engineered systems. In particular, his research group focuses on transformation of antibiotic compounds in ozone- and UV-based processes. The primary interests of Lee's research group include describing the transformation kinetics of these reactions, identifying the resultant transformation products, and determining the toxicological significance of those transformation products. He is also interested in the detection, fate, and transport of pharmaceuticals in natural systems. Besides his research activity, Lee is serving as the faculty advisor to the UMBC chapter of Engineers Without Borders.

Lee has B.S. and M.S. degrees in Environmental Engineering from Lehigh University, where he worked with Arup SenGupta. Between his M.S. and PhD degrees, Lee served as an NSF fellow at the Research Centre for Eco-Environmental Sciences (Beijing, China) through the East Asia and Pacific Summer Institute (EAPSI) program. During his PhD, he was supported by an NSF graduate research fellowship. More information about Lee Blaney is available at www.umbc.edu/cbe/blaney/.

Desiree Plata: New assistant professor at Duke University

Desiree L. Plata joined the faculty in the Department of Civil and Environmental Engineering at Duke University as an assistant professor in August 2011. She comes to Duke after serving as visiting assistant professor at the Massachusetts Institute of Technology (MIT) in the Departments of Civil and Environmental Engineering and Aeronautics and Astronautics, as well as a visiting professor in the Department of Chemistry at Mount Holyoke College.



Desiree L. Plata

Broadly, her work seeks to alter the approach to the development of novel chemicals and engineered systems to include environmental metrics, along with traditional performance and cost objectives. In particular, Plata's group seeks to (1) predict and mitigate environmental damage using physicochemical knowledge of material reactivity, prognostic fate models, and geochemical analyses and (2) design benign syntheses via mechanistic understanding of chemical reactions used in manufacturing processes. She has particular expertise in carbon-based nanomaterial synthesis and environmental detection, as well as oil and gas environmental fate.

Desiree has a Ph.D. in Environmental Chemistry and Chemical Oceanography from the Joint Program in Oceanography and Applied Ocean Science and Engineering at MIT and the Woods Hole Oceanographic Institution, and holds a B.S. in Chemistry with minors in Biology and Mathematics from Union College. More information about her research can be found at plata.cee.duke.edu.

Brian Reed at UMBC Awarded Fulbright scholarship

Brian E. Reed, Professor in the Department of Chemical, Biochemical, and Environmental Engineering at the University of Maryland Baltimore County, was awarded a Fulbright Scholars award at the Dublin Institute of Technology, Dublin, Ireland. He is working on engineering education issues including assessing the role that accrediting entities have on curriculum/teaching improvements

and the development of an undergraduate degree in environmental and energy systems engineering. He is also investigating novel methods to treat maritime wastes and aquacultural wastewaters.



Brian E. Reed

Steve Hrudehy Awarded 2012 A.P. Black Award

Emeritus Member Steve E. Hrudehy has been awarded the 2012 A.P. Black award, the top research prize of the American Water Works Association for his career work on drinking water quality, safety, and public health. Steve will be presenting the opening keynote address to the professional program at ACE12 in Dallas in June, with the title, “*The Things We Know That Get Us into Trouble.*” In March 2012, Steve was also awarded an Honorary Doctor of Science by the University of Alberta where he is Professor Emeritus in the Analytical and Environmental Toxicology Division of the Faculty of Medicine and Dentistry.



Steve E. Hrudehy

Philip McCreanor Awarded Teaching Award by ASEE-SE

Philip McCreanor was awarded the 2012 Mid-Career Teaching Award by the Southeastern Section of the American Society for Engineering Education (ASEE-SE). This Award recognizes his sustained outstanding service through innovation in environmental engineering course development and assessment, introduction of online interactive video materials, service learning using community projects, a dedicated Senior Environmental Engineering Laboratory, promotion of student research through participation in ASEE-SE conferences, and the design and construction of a unique Engineering Honors Program. The Award was presented by Dr. Cecelia Wigal, ASEE-SE’s Vice-president for Awards and Recognition and Assistant Dean of the College of Engineering and Computer Science at the University of Tennessee at Chattanooga. Dr. McCreanor currently holds the rank of Associate Professor in the Environmental Engineering Department and is Director of the Engineering Honors Program at Mercer University.



Philip McCreanor

Cranfield University Warms Up for First Summer School 2012

Cranfield University, the UK’s only wholly postgraduate university specializing in science, technology, engineering and management, is preparing for its first Summer School focusing on its expertise in environment and water.

The Summer School runs from June 11–22, 2012 and will cover land, water, health, energy, and planning. The sponsor is Dr. Tom Stephenson, Lorch Professor of Water Sciences, AEESP member, and Head of Cranfield’s School of Applied Sciences. Dr. Stephenson said “The students will benefit from Cranfield’s internationally recognized scholars who have many years of experience in their fields, bridging the gap between academia, the environment, and the economy.”

The program comprises a combination of lectures, practical sessions, and field trips, culminating in a course forum for presentation and debate of the issues on “the living land,” profit from waste, water recycling, wind turbine location, and health and environmental impact.

The course has been developed for graduates and final year undergraduate students from UK/EU and international universities and colleges, providing undergraduates with cutting edge research-led teaching in their chosen area of study, insight into studying in the UK, and a route into postgraduate studies as they accumulate credits which may count towards their continued studies.

Further details available are available at www.cranfield.ac.uk/summerschool

Joseph Hughes Joins Drexel University

Joseph B. Hughes has joined Drexel University as the new Dean of the College of Engineering, where he leads Drexel's largest college with more than 3,500 students enrolled in six departments specializing in research, experiential and global education. The college has been consistently ranked among the best in the country for its undergraduate and graduate programs by *U.S. News & World Report*. Most recently, it was ranked among the top 25 private undergraduate programs in the nation. Joe is also a Distinguished University Professor affiliated with Drexel's Civil, Architectural, and Environmental Engineering Department.



Joseph B. Hughes

Prior to this position at Drexel, Joe served as the Karen and John Huff School Chair and Professor of Civil, Environmental, and Materials Science Engineering at the Georgia Institute of Technology. He was on the faculty at Rice University before his position with the Georgia Institute of Technology. He received his master's and doctoral degrees in environmental engineering from the University of Iowa and received his undergraduate degree in chemistry from Cornell College. Joe's research focuses on biological processes and applications of nanotechnology in environmental systems.

Joe is active in the National Academy of Engineering's Frontiers of Engineering program as a speaker and organizer; is a Diplomat (by Eminence) of the American Academy of Environmental Engineering; and, is a member of the U.S. EPA science advisory committee on environmental engineering. He has received the McKee Medal from the Water Environment Federation, the Walter P. Huber Research Prize from the American Society of Civil Engineers (ASCE), and the Charles Duncan Award for Outstanding Academic Achievement at Rice University, and is a member of Chi Epsilon, and twice was recognized with the ASCE Outstanding Professor Award at Rice University.

More information on Drexel University's College of Engineering can be found here: drexel.edu/engineering/

Deborah Rodrigues Recipient of NSF CAREER Award

Deborah F. Rodrigues, assistant professor in the Department of Civil and Environmental Engineering at the University of Houston, was the recipient of a \$450,000 NSF CAREER Award in January 2012. The goal of her research is to understand the mechanisms of microbial toxicity of graphene-based nanomaterials and determine the toxic concentrations that affect the functionality of microbial communities involved in various biogeochemical cycles important in wastewater treatment, such as nitrogen, sulfur, and carbon cycles. Her research integrates the fields of microbial ecology and environmental biotechnology with traditional environmental engineering techniques to better address challenges in environmental quality, sustainability, and security of these nanomaterials.



Debora F. Rodrigues

Debora F. Rodrigues received her BS and MS in Biology and Microbiology from the University of Sao Paulo, Brazil, and her PhD in Microbiology and Molecular Genetics from Michigan State University in 2007 under the supervision of Prof. James Tiedje. In her MS research she demonstrated the presence of genes involved in the degradation of polychlorinated biphenyls (PCBs) and hydrocarbons in estuaries. Her PhD work focused on the physiology and diversity of microorganisms in the Siberian permafrost. She was a postdoctoral associate in the Environmental Engineering Program at Yale University in the group of Prof. Menachem Elimelech from 2007 to 2010. Her research at Yale dealt with toxicity of carbon nanotubes to microorganisms. She started in September 2010 as an Assistant Professor at the University of Houston in the Department of Civil and Environmental Engineering.

Joint Institute for Strategic Energy Analysis

The Joint Institute for Strategic Energy Analysis (Joint Institute) participates in several events organized by other institutions, but also works with its members to cosponsor events with relevance to its partners and the global analysis community. Carnegie Mellon University and Stanford University have been jointly participating in energy analysis to develop an Integrated Modeling Framework for Carbon Management Technologies, a systematic framework for characterizing:

- The performance and cost of alternative carbon capture and sequestration
- Technologies applicable to a broad range of electric power systems.

From Carnegie Mellon University, Climate Decision Making Center (CDMC): Anand B. Rao, Edward S. Rubin, Michael B. Berkenpas, Granger Morgan, David Keith, Nomana Intekhab Hadi (Alumni), and others.

From Stanford University, Global Climate and Energy Project (GCEP): Sally Benson, Richard Sassoon, Leigh Johnson, Emilie Hung, Jennifer Milne, Nomana Intekhab Hadi, and others.

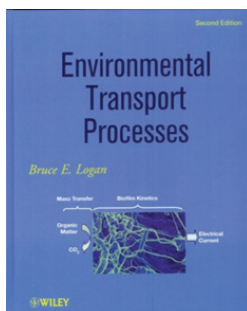
The main objective of the Institute is to provide a platform for experts from around the world to discuss and address current and emerging energy and greenhouse gas challenges in the region. Participating companies and institutes with near-to-market technologies and capabilities will discuss opportunities and steps necessary to bring expertise and commercialization opportunities to the region.

The group will be clarifying an understanding of the region's strategy, mechanisms, and institutions for supporting promising technologies in carbon capture and storage, energy efficiency, and alternative energy technologies leading to recommendations related to emerging technologies, regulatory frameworks, and industrial developments and applications relevant for the region.

Environmental Transport Processes, 2nd Edition

by BRUCE E LOGAN, PENN STATE UNIVERSITY

Publisher: Wiley, ISBN #978-0-470-61959-9



The second edition of *Environmental Transport Processes* is now available. The textbook covers the fundamentals of chemical transport processes in both natural and engineered environments, with a particular focus on the biological-physical interface. Specific topics include mass transfer to aggregates and biofilms; chemicals transport in lakes, rivers, oceans and groundwater; and particle dynamics with emphasis on coagulation and filtration processes.

Faculty members of AEESP can request pdf copies of all textbook solutions as well as additional problems and solutions from the author (email: blogan@psu.edu)

— ADVERTISEMENT —

Can We Techno-Fix Our Way To Sustainability?

Techno-Fix: Why Technology Won't Save Us or the Environment

by Michael Huesemann, Ph.D., and Joyce Huesemann, Ph.D., (foreword by Paul and Anne Ehrlich, and endorsements by Herman Daly, Norman Myers, E.U. von Weizsaecker, William Rees, and others) questions a primary paradigm of our age: that advanced technology alone will extricate us from an ever increasing load of social, environmental, and economic ills. *Techno-Fix* shows why negative unintended consequences of science and technology are inherently unavoidable and unpredictable, why counter-technologies, techno-fixes, and efficiency improvements do not offer lasting solutions, and why modern technology, in the presence of continued economic growth, does not promote sustainability but instead hastens collapse.

Techno-Fix asserts that major paradigm shifts are needed to reorient science and technology in a more socially responsible and environmentally sustainable direction. The arguments advanced in *Techno-Fix* are supported by extensive research, with more than 1200 footnotes citing at least 600 references, primarily from peer-reviewed academic publications. To view the advance praise, table of contents, introduction, and to receive a set of free PowerPoint lectures to facilitate classroom presentations of the topics covered in *Techno-Fix*, please visit www.technofix.org.

— ADVERTISEMENT —



Postdoctoral Position at University of Alberta: Air Pollution

A postdoctoral researcher position is available at the University of Alberta to conduct research related to measuring emission fluxes of air pollutants from area sources (oil sands tailings ponds). The successful applicant will also be expected to assist in training and mentoring graduate students and writing research papers and proposals. The ideal candidate should have experience using eddy covariance and/or open-path remote sensing techniques (OP-FTIR) and must hold a Ph.D. in Meteorology, Atmospheric Science, Mechanical Engineering, Environmental Engineering, or another suitable field. Excellent communication skills and a record of publishing in peer-reviewed journals are essential.

Applicants should send a cover letter, curriculum vitae, the contact information of three referees, and a sample of relevant publications to Dr. Zaher Hashisho (hashisho@ualberta.ca, www.ualberta.ca/~hashisho/) and Dr. John Wilson (jaydee.uu@ualberta.ca, faculty.eas.ualberta.ca/jdwilson/). Applicants are encouraged to apply as soon as possible. Review of applications will begin immediately and applications will be accepted until the position is filled. The appointment will begin immediately. A competitive stipend will be awarded depending on the level of experience.

The University of Alberta, founded in 1908, is one of the largest universities in Canada. More information about the University of Alberta can be found at www.uofaweb.ualberta.ca/facts/index.cfm

Postdoctoral Position at University of Alberta: Multi-Component Adsorption

A postdoctoral researcher position is available in the Department of Civil and Environmental Engineering at the University of Alberta to conduct research related to multi-component adsorption of organic vapors for air pollution control, adsorbate-adsorbent interaction, and regeneration of adsorbents. The successful applicant will also be expected to assist in the training and mentoring of graduate students and writing research proposals, progress reports, and papers.

The ideal candidate should have experience with adsorption principles and applications, material characterization techniques (pore size distribution, TGA/TPD, XPS, SEM, XRD...), analytical techniques (GC/MS...), and setting and conducting adsorption experiments for air treatment. The ideal candidate should hold a Ph.D. in Material Science or Engineering, Chemistry, Chemical Engineering, Environmental Engineering, or other suitable field, and also have excellent communication skills and a record of publishing in peer-reviewed journals.

Applicants should send a cover letter, a curriculum vitae, the contact information of three referees, and sample of relevant publications to Dr. Zaher Hashisho, Department of Civil and Environmental Engineering, 3-088 NREF, Edmonton, Alberta, Canada T6G 2W2, or electronically to hashisho@ualberta.ca. Review of applications will begin immediately and applications will be accepted until the position is filled. Further information on research in Dr. Hashisho's group may be found at www.ualberta.ca/~hashisho/.

The University of Alberta, founded in 1908, is one of the largest universities in Canada. More information about the University of Alberta can be found at www.uofaweb.ualberta.ca/facts/index.cfm

AEESP e-Newsletters

As announced in 2011, the AEESP Board of Directors has changed the default in 2012 for distribution of this newsletter to electronic only, unless members notify us of their desire to receive a printed copy of it. To indicate this preference, please send a message to the Business Office (joanne@aeesp.org), and we will print and send you a paper copy of the newsletter during 2012.

New Faculty Position at WaTER Center, University of Oklahoma



THE UNIVERSITY OF OKLAHOMA Water Technologies for Emerging Regions (WaTER) Center invites applications to fill a tenure-track faculty position in **Sanitation Technologies and Approaches for Emerging Regions**. This new position reflects the strong commitment of the University of Oklahoma to expand the pioneering work of the OU WaTER Center (WaTER.ou.edu) in response to the UN Millennium Development Goals (specifically Target 7.c). The WaTER Center is targeting applications at the Associate Professor level but will consider other ranks for highly qualified applicants.

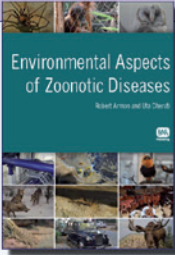
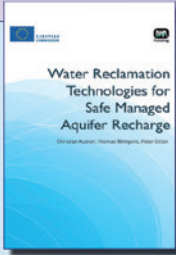
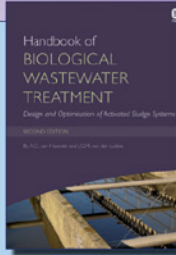
An earned Ph.D. in engineering, science, or a closely related field is required. The successful candidate should have a record of funding and publishing peer-reviewed journal articles on sustainable sanitation technologies and approaches in developing countries including rural and/or urban applications. The successful candidate will teach courses and mentor undergraduate and graduate students working on sanitation for developing countries. Preference will be given to candidates with extended field experience in developing countries and the ability to quickly develop and maintain research programs focused on developing countries. Preference will also be given to candidates with experience integrating technology, business, behavioral and/or health issues, as well as those whose work overlaps with issues common to emerging regions in the US.

Applicants should send a curriculum vitae, a statement of research and teaching interests, and the contact information of three references to: Sanitation Technology/Approaches Search Chair, School of Civil Engineering and Environmental Sciences, The University of Oklahoma, 202 W. Boyd Street, Room 334, Normal, OK 73019-1024. Initial screening of applications will begin by August 1, 2012; applications will be accepted until the position is filled. Women, minorities, and disabled persons are strongly encouraged to apply. The University of Oklahoma is an EEO/AA employer.



Publishing

New Titles from IWA Publishing

 <p>Environmental Aspects of Zoonotic Diseases</p> <p>Robert Armon and Uta Cheruti</p> <p>Oct 2011 • ISBN: 9781843390855 496 pages • Hardback IWA Members Price: US\$195.75 Non-Members Price: US\$261.00</p>	 <p>Water Reclamation Technologies for Safe Managed Aquifer Recharge</p> <p>Christian Kazner, Thomas Wintgens, Peter Dillon</p> <p>March 2012 • ISBN: 9781843393443 460 pages • Paperback IWA Members Price: US\$178.20 Non-Members Price: US\$133.65</p>	 <p>Handbook of Biological Wastewater Treatment: Second Edition</p> <p>Adrianus van Haandel and Jeroen van der Lubbe</p> <p>April 2012 • ISBN: 9781780400006 848 • Hardback IWA Members Price: US\$261.00 Non-Members Price: US\$195.75</p>
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Journal of Water Reuse and Desalination

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Announcement and Call for Papers

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Association of Environmental Engineering and Science Professors Newsletter

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