



AEESP Newsletter

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*Need to renew your 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 Upal Ghosh at ughosh@umbc.edu. The next newsletter will appear in January, 2013.

President's Letter

The More Things Change, the More They Stay the Same

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

As we start the 2012–2013 academic year, I am very happy to announce a few new beginnings and changes for AEESP. Perhaps most importantly, the AEESP will now have an official journal. The bylaws revision was approved for AEESP to pursue an agreement with *Environmental Engineering Science (EES)* to designate this journal as the official AEESP journal, and the AEESP Board of Directors and Publications committee will be working with Domenico Grasso and the team at Mary Liebert Publishing to develop that agreement. We look forward to a long, mutually beneficial affiliation with *EES*. A special topics issue is already in the works, so please be on the lookout for news and opportunities that will appear in our professional journal.

While having an official AEESP journal is clearly a big step for our organization, as professors we have always strived to embrace new ideas that will aid in educating our students, our peers, the public, and ourselves. A professional journal, like our AEESP conferences and newsletters, will enhance our ability to provide members with important resources including research results, professional perspectives, and educational tools. Along these lines, new AEESP web pages are being developed, and soon we will have a "Members Only" resources section that will include a repository of educational materials and modules to help us educate the next generation of environmental engineers and scientists. The AEESP membership roster will also be searchable, making it easier to



AEESP President Joel Burken

find collaborators or editors for potential reviews . . . both useful, unless you are the one getting hammered with review requests.

This summer also marked the first meeting of the Environmental Engineering Chairs and Program Directors, coordinated jointly by the AEESP and the AAEEES (see article on page 5). The meeting attracted more than fifty attendees, and significant progress was made toward building a lasting communications forum to address the needs of our educational institutions. The meeting was so successful that it will now become a continuing series of events, with the next one scheduled for the Summer 2013 AEESP meetings in Colorado. Clearly, the productive relationship between the AEESP and the AAEEES has strengthened our ties with the practicing environmental engineers and scientists.

This time of year comes with many exciting changes and announcements, and it is also the time of year to change the Board. The new members of the Board of Directors (see page 2) will take on a changing AEESP that will continue to develop new ways to

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AEESP Membership Application online:

www.aeesp.org/membership/AEESP_member_app.pdf



This newsletter is printed using soybean-based ink and 100% post-consumer recycled paper.

New AEESP Board Members

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

The board is pleased to announce the results of the election for three new members of the AEESP Board of Directors. Serving three-year terms beginning October 2012 are: Greg Characklis, University of North Carolina at Chapel Hill; Andrea Ferro, Clarkson University; and Jean MacRae, University of Maine. The board congratulates their new members and looks forward to their contributions. We also express our sincere appreciation to all of the candidates for their willingness to serve AEESP.



Greg Characklis



Andrea Ferro



Jean MacRae

Membership Approves Journal Affiliation

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

With 342 members (50.9%) voting, 273 (79.8%) voted to allow the AEESP Board of Directors to designate an official AEESP journal, specifically, the journal *Environmental Engineering Science (EES)*. This is greater than the 67% approving this proposition (with different wording) in a straw poll last spring.

Incoming AEESP President Mark Wiesner, who helped with the initiative, stated, “this vote approves a significant step forward, as part of AEESP’s strategic plan to broaden its impact. It culminates years of work by current and previous Board members. We’re looking forward to finalizing the details of affiliation with *EES*.”

The approval was actually to amend the AEESP Bylaws so that the Board, with a 2/3 majority, can enter into an affiliation with a journal through a Memorandum of Understanding (MOU). To provide long-term flexibility, the bylaw changes authorize, but do not require, a journal affiliation, and also do not identify a specific journal. The ballot item itself identified *EES*, and the Board of Directors will now work with *EES*’s editor, Domenico Grasso, and with Mary Ann Liebert Publishers, to develop the Memorandum of Understanding. The affiliation, once established, will be reviewed annually by the Board of Directors.

Dates Set for AEESP Distinguished Lecturer Desmond Lawler

Submitted by JEANINE PLUMMER (WORCESTER POLYTECHNIC INSTITUTE AND CHAIR OF THE AEESP LECTURES COMMITTEE)

The AEESP Lectures Committee is pleased to announce the schedule for the 2012–2013 AEESP Distinguished Lecture Series by Desmond Lawler of The University of Texas at Austin. Des will be visiting fifteen environmental engineering and science programs in North America during his tour from September 2012 to April 2013. He will be offering two lectures during his tour: “Particles, Particles, and More Particles” and “Water, Water, Everywhere: Challenges of Inland Desalination.”

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.

For more information, please contact the host school contacts or Dr. Jeanine Plummer (jplummer@wpi.edu).

<i>Date</i>	<i>University</i>	<i>Contact</i>
2012		
September 13	Lehigh University	Derick Brown, dgb3@lehigh.edu
September 20	University of Illinois at Urbana-Champaign	Helen Nguyen, thn@illinois.edu
October 19	University of Wisconsin–Milwaukee	Zhen He, zhenhe@uwm.edu
October 22	Michigan Technological University	Alex Mayer, asmayer@mtu.edu
November 14	Penn State University	Brian Dempsey, bad5@psu.edu
November 16	University of Cincinnati	Steven Buchberger, Steven.Buchberger@uc.edu
November 30	Rice University	Qilin Li, Qilin.Li@rice.edu
2013		
January 11	Stanford University	Lynn Hildemann, hildemann@stanford.edu
2013 dates to be scheduled at:	Clemson University	Kevin Finneran, kft@clemson.edu
	North Carolina State University	Detlef Knappe, knappe@ncsu.edu
	University of Massachusetts Amherst	John Tobiason, tobiason@ecs.umass.edu
	University of Florida	Treavor Boyer, thboyer@ufl.edu
	University of Maryland at Baltimore County	Upal Ghosh, ughosh@umbc.edu
	Virginia Tech	John Little, jcl@vt.edu
	University of Minnesota	Paige Novak, novak010@umn.edu

2013 AEESP Education and Research Conference

Submitted by LINDA FIGUEROA, JUNKO MUNAKATA MARR, ANU RAMASWAMI, and ANGELA BIELEFELDT

The Colorado School of Mines and the University of Colorado will host the 2013 Association of Environmental Engineering and Science Professors (AEESP) Education and Research Conference. The conference will take place July 14, 2013 (Sunday)–July 16, 2013 (Tuesday) at the Colorado School of Mines, Golden, Colorado with additional activities hosted by the University of Colorado, Boulder and Denver. The theme of the conference is Environmental Engineers and Scientists of 2050: Education, Research and Practice.

The conference will be organized around topics related to the sustainable community of 2050, with each topic having one session with a keynote speaker, and six to eight additional speakers. Plenary speakers will provide a vision of the future for research, education, practice, and service.

Topics include the following themes:

1. Environmental life-cycle assessment of infrastructures
2. Sustainable development and education
3. Sustainable cities
4. Intersection of water and energy
5. Climate change
6. Watershed scale management
7. Waste to energy
8. Zero waste realization
9. Inter-disciplinary and Systems Thinking/Learning

The organizing committee is soliciting proposals for workshops to be held at the conference. Workshops will be held on the morning and afternoon of Sunday, July 14, the first day of the conference. Previous workshops in 2011 included:

NSF CAREER workshop—3 hours

Integrating sustainable development into engineering courses—3 hours

Engaging students in the classroom—1.5 hours

Strategies for teaching writing—1.5 hours

Please send a one-page description of your proposed workshop that will be suitable for posting on the conference website. Describe the topic, intended audience, time needed (increments of 1.5 hours), and provide some information on the workshop leaders. Note that a workshop is already planned for the meeting that will be of particular interest to young faculty on the topic of NSF CAREER awards. The deadline for workshop proposals will be mid-December 2012.

Further information will be provided this fall on registration and the deadlines for submitting workshop and presentation abstracts for review. We expect the deadline for submitting abstracts to be sometime in early 2013. A later deadline will be provided for student poster submissions, to allow for the submission of late-breaking research by students.

You and your family can enjoy a plethora of possible activities in the Golden and the Denver metropolitan area, so we will only highlight below a few of the local attractions. Golden alone has ten museums, a record for a town of 7.9 square miles with 17,000 people. Covering quite a spectrum, they include history, geology, fossils, art, railroads, quilts, living history park, and mountaineering. Golden also houses four gallery/shops featuring southwestern and western paintings, sculpture, and pottery with traditional and contemporary themes. Denver is home to world-class art and history museums as well as eight professional sports teams (including the Colorado Rockies and Colorado Rapids, both in season during the summer), and offers wide-ranging cultural and musical events. And of course, Jefferson County has one of the nation's premier open space programs with over 52,000 acres of open space, including over 200 miles of trails. Outdoor adventures in Colorado include ATVing, four wheeling, mountain biking, backpacking, and climbing Colorado's 14ers (54 peaks rising more than 14,000 feet above sea level). Colorado's lakes and rivers invite extreme water adventurers to try jet skiing, whitewater rafting, tubing, waterskiing and kayaking.

The conference website and email will be activated on September 1, 2012. After September 1, 2012 you may access the website at <http://csmospace.com/events/aeesp2013> and email us at AEESP2013@mines.edu with all inquiries.

We look forward to seeing you next summer.

What Employers Want

Submitted by MICHAEL SELNA, PRESIDENT OF AAEEES

AEESP and the American Academy of Environmental Engineers and Scientists (AAEES) successfully partnered to hold the first annual Environmental Engineering Department and Program Chairs Conference July 29–31, 2012 at the Ohio State University. During the year of planning for the conference, AEESP took the lead role and provided the conference content. AAEEES provided conference support and practitioner involvement. In preparing for the conference, AAEEES surveyed 250 employers, both public and private, about hiring practices and degree preferences in their environmental engineering staffs. The employers were primarily those with at least one member in AAEEES. Of the 55 employers that responded, 30 were private firms ranging in size from 3 to 869 environmental engineers (median size: 15), and 25 were public agencies ranging in size from 1 to 590 environmental engineers (median size: 5).

The survey results were presented at the conference and generated significant discussion. With the small sample size and selection of employers based on their affiliation with AAEEES, it is clear that a repeat of the survey with improvements in the survey process will be productive in measuring employer preferences. However, the results of this relatively small survey provide clear trends. The survey asked employers about the degrees held by environmental engineers at entry level, employer preferences in terms of the degree held, how environmental engineers with various degrees advanced in their organizations, and about performance in the first five years of employment.

Sixty-three percent of the entry level environmental engineers hired by the respondents hold a bachelor's degree, 33 percent a master's degree, and 4 percent a PhD. Contrary to the actual hiring practices, 58 percent of the same employers indicated they would prefer to hire candidates with a master's degree in environmental engineering, with 36 percent indicating preference for a bachelor's degree engineer. When asked about advancement in the organization, 84 percent of the respondents indicated higher potential for the MS degree holder than a BS in technical "tracks" and 64 percent in management/supervision. The survey compared nine performance attributes measured in the first five years of employment such as performing creative design, analyzing regulations, working independently, and presentation skills. In all nine attributes, the respondents indicated that the MS degree holders outperform the BS degree holders. Differences between private and public employers were slight, with private employers showing higher preferences for MS degree holders.

While this survey has limitations, it is clear that the employer preference in entry level hiring is for the MS degree in Environmental Engineering over the BS degree. The nonprofit Environmental Engineers of the Future (E2F) has been tracking MS enrollment levels since the mid-1990's. MS EnvEng enrollments peaked in the

mid-1990's and have generally declined to nearly half of those levels since, with some exceptions in the past few years. Of 16 universities providing data consistently since 1997, 11 reported declining enrollment ranging from 9 to 65 percent comparing 1997 and 2011. This raises the obvious question: are enough MS EnvEng degree holders being produced to meet employer demand? In the short term economic crisis, perhaps yes, but in the longer term, demand for MS degree holders is expected to exceed supply.

Reflections from the Conference

In discussing the survey results with department and program chairs in attendance, the predominant opinion was that the survey results were not unexpected, and in fact, stronger preferences for the MS degree could have been expected. However, the pressures to perform transformative research, the availability of funding for such research, and the incentive to publish all combine to make focus on the MS degree at research institutions problematic. An observation from the conference is that students and parents are economically challenged and are less likely to opt for another year or two of education to obtain the MS degree. These constraints make obvious the need for employers to assume more responsibility for funding MS candidates.

A recurring theme in the practitioner panel sessions at the conference was the need for environmental engineers who can analyze complex problems rather than those who can perform straightforward calculations, for example. The global problems we face such as climate change and global water scarcity call for talented engineers who can bring multiple disciplines together to solve problems. Environmental engineers holding graduate degrees are better prepared to address these challenges. Not all students are inclined to pursue graduate education and there are fulfilling careers awaiting environmental engineers possessing BS degrees. However, in the opinion of the majority of the survey respondents, those with at least an MS degree have the opportunity to progress further and are better equipped to handle more challenging assignments.

Correcting the Imbalance

AAEEES stands ready to partner with AEESP to more accurately gauge employer needs and to pursue mechanisms to provide funding for MS degree programs. The joint intern program, operating at a pilot scale at the University of Arizona, is a first step. E2F would be able to provide additional funding if more firms and agencies participated. Collectively, we have the ability to address the imbalance between supply and demand for MS environmental engineering degree holders.

As always, I welcome your thoughts. Please reach me at michaelselna@socal.rr.com.

2013 AEESP Award Nominations

Submitted by LINDA WEAVERS (THE OHIO STATE UNIVERSITY) AND CHAD JAFVERT (PURDUE UNIVERSITY), AEESP AWARDS COMMITTEE CHAIR AND VICE CHAIR, RESPECTIVELY

AEESP and the AEESP Foundation confer awards that our community presents for outstanding contributions to environmental engineering and science education and research. Through the hard work and generosity of many, AEESP and the AEESP Foundation have been raising funds to endow new and existing awards. Efforts are continuing, and we expect to announce additional endowed awards in the future.

Please consider nominating a worthy student or colleague for one of these prestigious awards. **Nominations for the 2013 awards are being accepted until March 15, 2013.** Brief award descriptions are presented below. Full instructions and a list of prior award winners can be found on the AEESP Foundation Webpage at www.aeespfoundation.org/awards.html. Unless stated otherwise, awards will be presented at the AEESP Education and Research Conference in Golden, Colorado, July 14–16, 2013.

Student Awards

CH2M Hill/AEESP Outstanding Doctoral Dissertation Award

This award, endowed by CH2M Hill, annually recognizes an outstanding doctoral dissertation that contributes to the advancement of environmental science and engineering. The award will consist of a plaque and cash prize of \$1,500 for the student, and a plaque and cash prize of \$500 for the faculty advisor. A \$750 travel allotment is provided to recipients who attend the awards ceremony.

Paul V. Roberts/AEESP Outstanding Doctoral Dissertation Award

This endowed award will be given annually to recognize a rigorous and innovative doctoral thesis that advances the science and practice of water quality engineering for either engineered or natural systems. Special consideration will be given to physical-chemical process research and/or research that especially supports underserved communities, environmental awareness, or sustainable solutions. The award consists of a plaque and cash prize of \$1,500 for the student, and a plaque and cash prize of \$500 for the faculty advisor. A \$750 travel allotment is also provided for recipients who attend the awards ceremony.

MWH/AEESP Master's Thesis Awards

These awards annually recognize the first and second most outstanding MS theses that contribute to the advancement of environmental science and engineering. The prize for the first place award includes

a plaque and cash prize of \$1,500 for the student and a plaque for the faculty advisor. The second place award consists of a plaque and cash prize of \$500 for the student and a plaque for the faculty advisor. MWH also provides \$750 as a travel allotment to all recipients who attend the awards ceremony.

William Brewster Snow Award

This award, administered in conjunction with AAEES, is given annually to recognize an environmental engineering graduate student who has made significant accomplishments in an employment or academic engineering project. Nominees for this award must be enrolled part or full time in an environmental engineering graduate program pursuing a Master's degree in Environmental Engineering or a closely related degree program, or have completed a Master's in Environmental Engineering, or a closely related program, one year or less from January 1 of the year in which the Brewster Snow Award is presented. The award consists of a plaque and a \$250 cash prize, which will be awarded at the AAEES E3 Awards Banquet and Conference in spring 2013.

Education, Research, and Practice Awards

Charles R. O'Melia/AEESP Distinguished Educator Award

This endowed award is given annually to recognize the significant contributions of Professor O'Melia to environmental engineering education and will be awarded to an environmental engineering or science professor who has a record of excellence in classroom teaching and graduate student advising, significant research achievements that have contributed to environmental engineering knowledge, and an outstanding record of influence through mentoring of former students and colleagues. The recipient of this award will receive a plaque, a cash prize of \$1,500, and a \$750 travel allotment to attend the awards ceremony.

AEESP Award for Outstanding Contribution to Environmental Engineering & Science Education

This award is given annually to recognize an environmental engineering or science professor who exhibits excellence in teaching scholarship and/or professional society educational initiatives. The recipient of this award will receive a plaque and a cash prize of \$500.

McGraw-Hill/AEESP Award for Outstanding Teaching in Environmental Engineering & Science

This award is given annually to recognize an environmental engineering or science professor who exhibits excellence in classroom

continued on next page

performance and related activities. The recipient will receive a plaque and a cash prize of \$500. Although open to nomination at any rank, the award is intended primarily to recognize a demonstrated commitment to teaching early in a person's career.

Excellence in Environmental Engineering Education (E4) Award

This award, administered in conjunction with AAEEES, will be given annually to recognize a university professor who has excelled in the development of educational material or text that enhances the ability of students to succeed as professional environmental engineers serving as practitioners in roles such as infrastructure design and project leadership. The recipient will receive a monetary award of \$1,000 with an additional \$500 travel allotment to attend the AAEEES E3 Awards Banquet and Conference in spring 2013.

AEESP Outstanding Publication Award

This award is given annually to recognize the author(s) of a "landmark environmental engineering and science paper that has withstood the test of time and significantly influenced the practice of environmental engineering and science." At least one of the authors must be living and previous winners are ineligible for a period of three years. The recipients of this award will receive plaques in honor of their achievements.

ARCADIS/AEESP Frontier in Research Award

This award is sponsored by Malcolm Pirnie, the Water Division of ARCADIS, and was formerly named the Malcolm Pirnie/AEESP

Frontier in Research Award. It is given annually to recognize an environmental engineering or science professor who has advanced the environmental engineering and science field through recognized research leadership and pioneering efforts in a new and innovative research area. The selected recipient will receive a plaque and a cash prize of \$4,000. The sponsor also provides a \$750 travel allotment that may be used by the recipient to attend the awards ceremony.

AEESP Founders' Award

This award is given annually to recognize an environmental engineering and science professor who has made "sustained and outstanding contributions to environmental engineering education, research, and practice." The recipient of this award will receive a plaque in honor of his/her achievements.

The Frederick George Pohland Medal

This award honors an individual who has made sustained and outstanding efforts to bridge environmental engineering research, practice, and education. This award is jointly administered between AEESP and AAEEES; only members of AEESP and/or AAEEES are eligible to receive this award. The award will consist of a medal, a \$1,000 cash award, and reimbursement of travel costs of up to \$1,000 for travel to the award ceremony.

Sequestration

Submitted by ALLEN DAVIS (UNIVERSITY OF MARYLAND COLLEGE PARK AND AEESP BOARD MEMBER)

If sequestration has meaning to you only in the context of carbon or some other chemical, then I urge you to update yourself on budgetary issues happening now in Washington that have the potential to impact AEESP members. Current budget legislation to reduce federal spending will result in across-the-board cuts of 8–20% in all programs in January. This includes NSF, EPA, USDA, and all the others that many of us rely on to support our research programs. Now would be a good time to learn how your elected

representatives feel about sequestration and, as a constituent, make your opinion known.

On April 24 and 25, 2012, Steve Dentel, Yuefeng Zie, and Allen Davis visited Washington, DC, representing AEESP. We met CBET Program Directors Bruce Hamilton and Debra Reinhart to discuss the state of environmental engineering funding. We spread the word about AEESP and the importance of federal funding to Senators Cardin (MD), Carper (DE), Casey (PA), Coons (DE), Mikulski (MD), and Toomey (PA). House offices included Carney (DE at large), Cummings (7th MD), Holden (17th PA), and Hoyer (5th MD).

Reflections on the AEESP Distinguished Lecture 2011–12

Submitted by RICHARD G. LUTHY (STANFORD UNIVERSITY)

Dear Colleagues:

One of the joys of being selected as the AEESP distinguished lecturer is reflecting on what I learned from the tour in terms of the state of our profession and the breadth and depth of our education and research activities. My lecture tour spanned the continent, from Canada to Florida in the east, and from Los Angeles to Colorado in the west, with stops in between.

What impressed me the most was how our profession has grown so very much in terms of programs and faculty since I became a professor many years ago. Simply stated, there is more good work being done by more people in more places than ever before.

As I toured the country, I saw how the research in our field continues to expand in two directions—towards the very small, where the size of particles changes their chemical behavior that can result in new treatment technologies—and towards the very large, where systems-level analysis brings understanding of social, economic, and geo-political factors affecting the quality and sustainability of ecosystems and our planet.

Much of the research I saw on the tour was focused on sustainable practices and infrastructure, which is a change from a decade or so ago, when the emphasis of most research was on remediation. New

fields like eco-hydrology are emerging, and environmental engineers and scientists are contributing to the intellectual framework for this new discipline.

In terms of mechanistic studies, I saw how two photons in the visible range can be made to generate one photon in the UV range for a new form of disinfection. I saw how a simple device like the inside of a can of soda may be transformed into an inexpensive UV reactor for use in developing countries, and I saw how fiber optic cables one-kilometer-long can monitor minute changes in environmental systems.

Another trend I observed was more work on understanding the behavior of natural systems, be they rivers, storm water, sediments, or estuaries. “Environmental physics” is a term that came up a couple of times to address the issues of scale and complex processes. Nowadays, industrial ecology and sustainability are becoming common elements in our curriculum and research. There are courses on “sustainable cities,” and fruitful linking with developers and redevelopment agencies. This helps bridge the divide between academic research and important urban societal problems through which engineers, urban planners, and other disciplines join forces to create vibrant and eco-friendly communities. Such trends influenced my own thinking about collaborative and integrative work on systems-level analysis, efficient engineered systems, and natural

water infrastructure systems for renewal of our urban water infrastructure.

Many engineers of my generation studied “engineering economics,” which I learned is essentially accounting. Today there are instructors teaching “financial analysis” and the value of hedging, plus risk-based insurance options for drought and scarcity. This is a new direction for our field that introduces new ways of thinking about resource management, reliability, resiliency, and regional cooperation.

Our profession seems to have survived the Great Recession, at least in terms of faculty hiring. After a hiatus of the past two or three years, most programs I visited are hiring young faculty, often more than one. For the most part, programs are housed in new or recently renovated buildings that speak well of the support from the administration.

I first became aware of the Association’s lecture tour as a brand new assistant professor in 1975 at Carnegie Mellon. At that time, the tradition was to alternate between an international speaker and a speaker from the U.S. It took a few years for the Carnegie Mellon program to grow, but I felt we were squarely “on the map” when Professor Werner Stumm from Switzerland was selected and came to our young program as part of his 1981 distinguished lecture tour. Now, 30 years later, I was the AEESP lecturer and I can say, “Many, many more programs are on the map and thriving!”

Electronic Balloting Works!

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

After considerable effort in preparation, the electronic election of board members and voting on journal affiliation were both completed successfully with only very minor glitches. Out of 672 voting members, 342 (50.9%) completed electronic ballots. The electronic reminders were an important factor in reaching this return rate, which is much higher than with previous balloting by conventional

mail (which has been about 35%). There were no requests for hard copy or fax ballots either.

Conversion to completely electronic voting in the future should save AEESP about \$1600 in postage, paper, and printing costs each time. This will require that the updating of membership information also be done electronically, which is in the works.

Although the election is over, arrangements are being made for future balloting. If you experienced problems, or have suggestions, you can contact Steve Dentel at dentel@udel.edu.

AEESP Lectures and Activities at Water Environment Federation Technical Exhibition & Conference

WEFTEC • 9/29–10/3/2012 • New Orleans, LA

Submitted by JENNIFER BECKER (MICHIGAN TECH UNIVERSITY, AEESP VICE PRESIDENT)

The AEESP community is invited to participate in several rewarding AEESP-sponsored activities that will occur at WEFTEC on October 1 and 2, 2012 in New Orleans, LA. Detailed information on these events, including the AEESP/WEF lecture, the AEESP Scientists' luncheon, the AEESP Meet-and-Greet and Awards Ceremony, and two technical sessions is provided below.

AEESP/WEF Research Lecture

Dr. Peter Dold

President, EnviroSim Associates Ltd. (Developers of BioWin, Dynamic Wastewater Modeling and Simulation Software)

“Best of WWTMod Update/Outcome”

Sponsored by CDM Smith

Monday, October 1, 2012, 10:30 AM to 12:00 PM

New Orleans Morial Convention Center

AEESP/WEF Scientists Lunch

Dr. Mark Wiesner

James L. Meriam Professor of Civil & Environmental Engineering, Duke University and Director, Center for the Environmental Implications of NanoTechnology (CEINT)

“Progress Towards Understanding the Environmental Implications of Nanomaterials”

Sponsored by Brown & Caldwell

Monday, October 1, 2012, 12:00 PM to 1:30 PM

New Orleans Morial Convention Center

AEESP Meet & Greet and Awards Ceremony

Sponsored by Corollo Engineers

Monday, October 1, 2012, 5:00 to 7:00 PM

Hilton New Orleans Riverside (Conference Headquarters Hotel)

Compass Room

WERF Paul Busch Awardee/ AEESP Technical Session

Technical Session 005 (TS005)

This AEESP session at WEFTEC is primarily intended as a platform to promote the participation of students and researchers at WEFTEC. The session features cutting edge fundamental and applied research focused on emerging future issues related to water, wastewater, and the environment.

Monday, October 1, 2012, 1:30 to 5:00 PM

New Orleans Morial Convention Center

AEESP Session: Utility/University Collaborative Research

Technical Session 028 (TS028)

This AEESP session features cutting edge fundamental and applied research focused on emerging future issues related to water, wastewater, and the environment. The session highlights collaborative research conducted jointly by utilities and universities.

Tuesday, October 2, 2012, 8:30 AM to 12:00 PM

New Orleans Morial Convention Center

President's Letter, continued from page 1

organize resources, develop assets, and advance our profession. Without question, the greatest resource of the AEESP is the collective “Us.” Our membership committee is developing the criteria and procedure for appointing AEESP Fellows, to celebrate the important contributions of those who have helped to change and shape our field and AEESP in meaningful ways. As we approach our upcoming annual meeting (see page 4), I am more confident than ever that ours is indeed one of the greatest fields and collection of colleagues one could ever imagine. And we are certainly not done. We stand at the doorstep of several great milestones in our collective history. In 2013 we'll celebrate our 50th anniversary as an organization, and this exciting event sowed the seeds for a vibrant membership campaign “1000 by 50.” Our goal is to have 1,000 members of AEESP by our 50th anniversary; this new infusion of members will certainly help us continue the work of our association into the next generation. As a special incentive, we'll offer an iPad to the person who recruits the most new members into the AEESP.

On this eve of our golden anniversary, I encourage you to remember those 21 engineers and professors who founded the original AAPSE in late 1963. Over the past five decades we have witnessed monumental changes in our profession and in our world—changes that those original founders could never have imagined. But throughout our existence, we have always kept our students at the heart of what we do. Our approaches to education have changed and will continue to change, especially as technology transforms our universities. But in the end, the core values of the AAPSE remain strong and central.

As I look back over the past year, I have certainly noticed the truth of the saying, “the more things change, the more they stay the same.”



David Sabatini Honored by University of Illinois Civil and Environmental Engineering Alumni Association

David Sabatini, David Ross Boyd Professor and Sun Oil Company Endowed Chair of Civil Engineering and Environmental Science at the University of Oklahoma, received the Distinguished

Alumnus Award from the University of Illinois Civil and Environmental Engineering Alumni Association at an awards banquet on March 14 at the Union League Club in Chicago. He was honored for his contributions in the field of hazardous waste remediation using surfactants as well as the development of appropriate and sustainable technologies for water, addressing water quality issues in remote villages. Drawing on experiences from both research areas, Sabatini serves as editor-in-chief of the *Journal of Contaminant Hydrology* and on the editorial board of the *Journal of Water, Sanitation and Hygiene for Development*. At OU, Sabatini also serves as director of the Water Technologies for Emerging Regions Center and associate director of the Institute for Applied Surfactant Research.



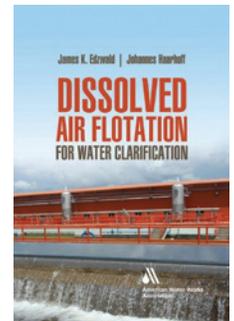
Charlie Werth (UIUC), David and Frances Sabatini, and Al Valocchi (UIUC) at the University of Illinois CEE Awards Banquet

New Book: Dissolved Air Flotation for Water Clarification

James K. Edzwald and Johannes Haarhoff, McGraw-Hill and AWWA NY, 2012

Submitted by JAMES EDZWALD (UNIVERSITY OF MASSACHUSETTS)

The first book devoted entirely to dissolved air flotation is now available. The book is a valuable reference book for a variety of courses in water treatment processes. The book provides a robust theoretical foundation that will remain essential and valid for many years as dissolved air flotation becomes a more important water clarification process; it also emphasizes practical design considerations. Coverage includes: (1) Types of flotation methods, (2) History of dissolved air flotation, (3) Air saturation, (4) Air precipitation, (5) Air bubbles and particles in water, (6) Pretreatment coagulation and flocculation, (7) Contact zone principles and applications, (8) Separation zone principles and applications, (9) Float layer removal, (10) Process selection and design, (11) Conventional applications for drinking water treatment, (12) Additional applications, and (13) Dissolved air flotation for desalination pretreatment.



Faculty Position in Environmental Engineering at University of Nevada, Reno

The Department of Civil and Environmental Engineering at the University of Nevada, Reno invites applications for a tenure-track faculty position in the area of environmental engineering. The position is expected to be filled at either the assistant or associate professor level with a start date of July 1, 2013. Candidates must have a PhD in environmental engineering, civil engineering, or a related field of study.

The selected candidate must have a strong research background in environmental engineering and experience in one or more of the following areas is desirable: innovative water treatment technologies, water reuse systems, environmental sensor networks, and sustainable water and energy systems. In accordance with the University's mission

as a land grant institution, the candidate is expected to develop a robust externally funded research program, to supervise MS and PhD students, to teach undergraduate and graduate courses, and to participate in university and professional service and outreach. The candidate should be interested in becoming registered or already be registered as a professional engineer. The rank of assistant professor requires demonstrated potential to become an excellent scholar and teacher while the rank of associate professor requires a documented record of funded, quality research and excellent teaching. Applicants should submit their curriculum vitae, statement of research interest, teaching philosophy, and contact information for five references electronically at: <https://>

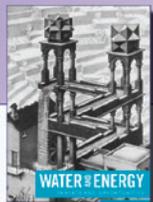
www.unrsearch.com/postings/10962. All other inquiries may be directed to Prof. Amy Childress (amyec@unr.edu), Department Chair. Full consideration will be given to all applications received by October 31, 2012.

Further information about the Department of Civil and Environmental Engineering may be found at: www.unr.edu/cee/. Reno is located in the scenic Eastern Sierra region, with a wide variety of world-class outdoor recreation opportunities nearby. These include the Lake Tahoe watershed, with exceptional skiing, snowboarding, sailing, mountain biking, kayaking, and rock climbing, and hiking trails such as the 165-mile Tahoe Rim Trail, Pacific Crest Trail, and the Truckee River system from Lake Tahoe through downtown Reno.



Publishing

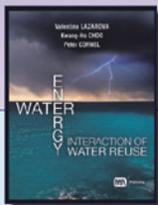
New Titles from IWA Publishing



Water and Energy Threats and Opportunities

Gustaf Olsson

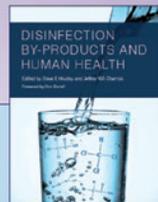
Jun 2012 • ISBN: 9781780400266
Pages: 300 • Hardback
IWA members price: US\$ 93.15
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Student price: US\$ 70.20



Water-Energy Interactions in Water Reuse

Valentina Lazarova
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Steve E Hrudey and
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Detection of Pathogens in Water Using Micro and Nano-Technology

Giampaolo Zuccheri and
Nikolaos Asproulis

Aug 2012 • ISBN: 9781780401089
Pages: 316 • Paperback
IWA members price: US\$ 133.65
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Journal of Water and Climate Change

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Journal of Water and Climate Change publishes refereed research and practitioner papers on all aspects of water science, technology, management and innovation in response to climate change, with emphasis on reduction of energy usage.

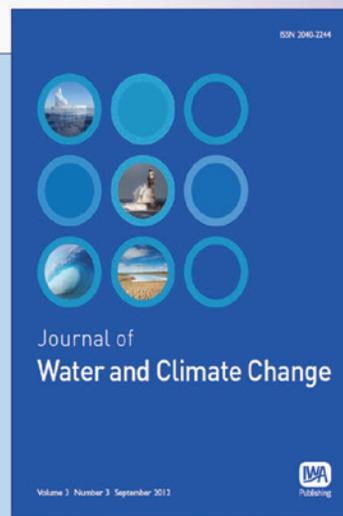
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Four New Faculty Join the University of Michigan

Herek Clark

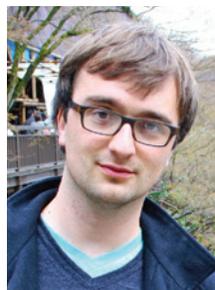
The Civil and Environmental Engineering department is pleased to welcome Herek Clack to the faculty. Clack joined the department in early September 2012 as associate research professor and lecturer. He previously was an associate professor in the Mechanical, Materials, and Aerospace Engineering Department at the Illinois Institute of Technology in Chicago. Clack earned his bachelor's degree in aerospace engineering from Massachusetts Institute of Technology and master's and doctoral degrees in mechanical engineering from University of California, Berkeley. His research interests have centered on the control of toxic pollutants from combustion, specifically on the emission of mercury from the combustion of coal for electric power generation. Aside from natural events such as volcanic eruptions, coal-fired power plants currently are the number one source of mercury emission into the atmosphere. To control emissions, a powdered activated carbon, or sorbent, is injected into the flue gas, but some sorbents escape into the environment and can have potentially climate-changing effects. Clack's research assesses the degree to which this occurs and aims to devise ways to decouple the two effects.



postdoctoral research and, in September, was appointed assistant professor and a Michigan Society of Fellows Postdoctoral Scholar. Ellis's research focus is water-rock interactions, and his work centers on developing engineering solutions that enable society to continue to use fossil fuels in a safe and sustainable way. More specifically, his past research examined geologic carbon sequestration as a means to mitigate the release of CO₂ into the atmosphere. At U-M he plans to study the environmental risks of hydraulic fracturing of shale gas formations. He is most interested in understanding the complex geochemical reactions that take place in the subsurface during the development of these new energy strategies. The recipient of a National Science Foundation Science, Engineering and Education for Sustainability (SEES) fellowship, Ellis is also examining policy implications related to energy and the environment. He plans to take a holistic approach to evaluating risks, rewards, and potential remediation strategies associated with the development of shale gas reservoirs.

Branko Kerkez

In January of 2013, the Civil and Environmental Engineering department will welcome Branko Kerkez to the faculty as assistant professor. Kerkez works on problems related to the emerging complexity of civilian systems. His research focuses more specifically on the deployment of large-scale wireless sensor networks for hydrologic monitoring and integrating resulting data into systems-based models. Over the past four years, he has been collaborating on the deployment of one of the world's largest environmental sensor networks in the mountains of California. The state's water supply relies heavily on snowpack in the Sierra Nevada, but currently there are no existing tools, techniques, or models to conduct reliable,



real-time water forecasts in the western part of the country. Kerkez's research has yielded positive results, including data at previously unseen temporal and spatial resolutions. Now he is collaborating on expanding the work to the American River basin, an area of more than 5000 square miles. He hopes ultimately to build the "Internet of Water," an intelligent cyber-physical system that connects water bodies with physical infrastructure and data-driven models atop a novel communications backbone. Using a system-level approach, Kerkez is working to conceptualize the anthropogenic and natural components of water networks while tying them together through advances in sensing, communication, machine learning, and control theory. In addition to significant cost savings, intelligent water grids have vast implications, including accurate predictions of water availability and control of its release; irrigation systems that adjust to weather patterns and drought conditions; and ongoing sensing to mitigate malicious attacks on water infrastructure. Kerkez earned his bachelor's degree in civil engineering from the University of Florida. He earned dual master's degrees in civil and environmental engineering and electrical engineering and computer science from the University of California - Berkeley. He has developed a number of successful iPhone apps that offer real-time air quality readings and co-founded TransitR, an application development company that provides real-time public transit information to mobile phone users.

Brian Ellis

The Civil and Environmental Engineering department welcomes alumnus Brian Ellis to the faculty. Ellis earned bachelor's degrees in Environmental Geosciences and Economics from U-M and a master's and PhD from Princeton University. He returned to U-M in July 2012 to continue



Krista Wigginton

The Civil and Environmental Engineering department welcomes Krista Wigginton to the faculty. She begins her appointment as assistant professor in January 2013. Much of Wigginton's research



continued on next page

has focused on the fate of chemical and microbial pollutants in drinking water and wastewater treatment. To address health and ecological risks in water, Wigginton's research takes a three-pronged approach. First, she works to improve analytical methods in order to detect chemical and microbial contaminants at the low concentrations that can cause harm to humans and the environment. Her research also explores how these chemical and

microbiological pollutants break down – both in the natural environment as well as during engineered treatment processes. Third, her work focuses on ways to improve existing treatment processes and on developing new technologies to address the trace organic contaminants and emerging pathogens in our wastewater and drinking water. Wigginton earned her bachelor's degree in professional chemistry from University of Idaho and her

master's degree and PhD in environmental engineering from Virginia Tech. She held a National Science Foundation International Postdoctoral Fellowship in Lausanne, Switzerland, for two years, where she worked to understand how viruses in drinking water and wastewater are disinfected during treatment. Currently she serves as assistant professor in the civil and environmental engineering department at the University of Maryland.

Annick Anctil joins Clemson University

Dr. Annick Anctil received a PhD in Sustainability from the Rochester Institute of Technology in 2011 where she also received her MS in Materials Engineering (2007) after a BS in Materials Engineering from Ecole Polytechnique de Montreal (2005). Prior to joining Clemson, she worked as a Research Associate at the National Photovoltaic Environmental Research Center at Brookhaven National Laboratory where she worked on the environmental impact of large-scale photovoltaic power plants and resource availability of critical metals for solar technologies. Dr. Anctil's major research interest is in sustainable energy, in particular photovoltaics, where she uses life cycle assessment to identify the main issues of current technologies and propose alternative solutions. A primary focus of her work is in the environmental impact of nanomaterials and fine chemicals for energy applications, in particular as it relates to reducing the impact of industrial production.



Excellence in environmental engineering has been a tradition at Clemson University for many years. Environmental Engineering and Earth Sciences (EEES) is the only Department in the nation with three faculty members who have been honored with the prestigious Founders Award by the AEESP. Currently, six faculty members serve in the editorial or editorial advisory boards of prominent journals. The department houses five NSF CAREER award recipients. EEES faculty also published five books in the past decade. Research activities in EEES include process engineering (targeted at water, wastewater, and air treatment, and soil and groundwater remediation), biosystems engineering, environmental health physics, environmental chemistry, environmental fate and transport, sustainable systems and environmental assessment, environmental radiochemistry, and hydrogeology. The department has a new undergraduate degree in Environmental Engineering started in the Fall of 2010, which currently has 75 majors. The Department has 24 full-time faculty members, more than 20 adjunct faculty and more than 125 graduate students.

Christopher Hennigan joins University of Maryland Baltimore County

Christopher J. Hennigan joined the Department of Chemical, Biochemical and Environmental Engineering at the University of Maryland, Baltimore County (UMBC) as an assistant professor in August 2012. He comes to UMBC after serving as a postdoctoral scholar at Carnegie Mellon University in the Center for Atmospheric Particle Studies and the Department of Mechanical Engineering working with Allen L. Robinson.



Christopher's research broadly deals with issues of air quality, atmospheric chemistry, and climate change. In particular, his research focuses on atmospheric aerosols – small particles suspended in air that have important implications for human health, ecosystem stability, and Earth's climate. His research seeks to understand the formation of aerosols from the reaction of gas-phase compounds, with a focus on multi-phase processes. This is carried out through the development and deployment of instrumentation for direct atmospheric aerosol measurements.

Christopher has MS and PhD degrees in Environmental Engineering from the Georgia Institute of Technology where he was advised by Rodney Weber. He holds a BS in chemistry from the University of Florida. More information about his research is available at www.umbc.edu/cbe/hennigan/.

Special Issue of the Journal of Environmental Engineering

Guest Editors:

Jeanne VanBriesen, Carnegie Mellon University,
jeanne@cmu.edu

Michel Boufadel, New Jersey Institute of Technology,
boufadel@gmail.com

Submitted by JEANNE VANBRIESEN (CARNEGIE MELLON UNIVERSITY)

Unconventional gas in tight shales like the Barnett, the Marcellus, and the Eagle Ford formations is changing the view of domestic natural gas supply. Directional drilling and hydraulic fracturing has opened up new resources, but also opens new debates on the impacts of extraction technologies on water and air resources. Environmental engineers are leading technology developments in green completions, as well as investigating the effects of drilling on water and air quality.

ASCE is pleased to announce a special issue of the Journal of Environmental Engineering broadly encompassing the following aspects: Water resources and allocation, migration of fluids (liquids and gases) in aquifers and waterways, produced water treatment, and air quality.

Prospective authors are requested to prepare manuscripts according to the guidelines published at the *Journal of Environmental Engineering* website. Submission of a manuscript for the special issue does not guarantee publication. Manuscripts will be subject to the same peer-review process for all manuscripts published in the *Journal of Environmental Engineering*. Submit articles to editorial manager at www.editorialmanager.com/jrneeng. **Submission deadline: September 30, 2012.**

More information at: www.asce.org/Books-and-Journals/Journals/Call-for-Papers-Abstracts/Call-For-Papers-Environmental-Aspects-Of-Shale-Gas-Development/

Be Recognized As Board Certified in Environmental Engineering or Science

The American Academy of Environmental Engineers transitions to the American Academy of Environmental Engineers and Scientists on January 1, 2013. In addition to accepting applications from qualified environmental engineers, the Academy is accepting applications from qualified environmental scientists seeking to attain the title: Board Certified Environmental Scientist (BCES).



BCES qualifications are similar in structure and scope to the BCEE or BCEEM for engineering, but specifically related to science. The minimum qualifications for BCES include a degree in environmental science, or other science degree acceptable to the Academy Board, followed by eight years of practice and/or teaching experience in environmental science, of which four years are in responsible charge; and successful completion of written and oral examinations. Candidates with 16 years of experience may request written examination waiver. Those with 20 years' experience, of which 10 comprise senior leadership, may qualify via Eminence (no written/oral exams). Post graduate degrees may apply toward years of experience.

Specialty areas for the BCES certification include Air Resources; Environmental Biology; Environmental Chemistry; Environmental Microbiology; Environmental Toxicology; Groundwater and the Subsurface Environment; Surface Water Resources; and Sustainability Science.

Details:

BCEE or BCEEM: <http://www.aeee.net/BoardCertified.php>

BCES: <http://www.aeee.net/BCES-Requirements.php>

Associate Director of Research position at University of North Carolina Chapel Hill

The Water Institute at UNC is recruiting an Associate Director of Research to join its rapidly growing team. The successful applicant will work with Jamie Bartram (Director), Pete Kolsky (Associate Director for Teaching and Learning) and 15 – 25 researchers, doctoral, masters, and undergraduate students in further developing and implementing a fast-paced research programme focused on critical challenges in WaSH and global health. See url for further details: <https://unc.peopleadmin.com/postings/7282>.

Journal AWWA Invites Your Manuscripts

Submitted by TANJU KARANFIL (CLEMSON UNIVERSITY) and ANDREA DIETRICH (VIRGINIA TECH.)

The “new” *Journal—American Water Works Association (JAWWA)*, the flagship publication of the American Water Works Association that is distributed each month to more than 40,000 members, encourages professor, postdoc, and student members of AEESP to submit water-related articles for publication in the *Journal*. In 2012, *JAWWA* adopted a new format that expands the number of peer-reviewed articles published each month. The edited full-length article is published online, and a two-page summary of the article prepared by the authors is also published online and in print. This format has been widely acclaimed as readers can first obtain insights to the research through the two-page summary and then seek out details in the full-length article.

In addition *JAWWA*'s distinguished Peer Review Editorial Board has streamlined the submission and review process to provide fast turnaround times. We are also diligently working on further reducing the time from submittal to publication, as we recognize the significance of timely publication to academic publishing.

It's important that you also know that ***JAWWA* has increased its global reach and “findability”** through implementation of digital object identifiers (DOIs) and is abstracted by numerous online scientific databases including JSTOR, EBSCOHost, and SCOPUS, to name a few.

JAWWA seeks your articles that relate to all aspects of drinking water, from watersheds to consumers who drink water at the tap. These include but are not limited to:

- Comprehensive water supply contamination from inputs related to land use, wastewater discharges, natural and anthropogenic chemicals and microbes, the impacts on aquatic life and public health,

- water resources and watershed management,
- all treatment technologies, from conventional to advanced water reuse,
- all residuals management issues—from treatment to disposal,
- utility management,
- regulations for source water and finished drinking water (e.g., CWA and SDWA),
- chemical and microbial water quality in source, finished, and tap waters,
- complete water distribution—from pressure to pipes in public and private systems, and
- consumer satisfaction and aesthetic issues.

Both a professional and a scholarly journal, *JAWWA* has earned its reputation as a widely respected publication in the water industry. *JAWWA*'s goals are to:

- disseminate cutting-edge technical information and research to water professionals,
- discuss and highlight best management practices in the water industry, and
- provide the best and most current information on regulations affecting the global water industry.

Members of the *JAWWA* Editorial Advisory Board strongly encourage you, your colleagues, and students to consider *JAWWA* for publication of your water-related research.

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.



Association of Environmental Engineering and Science Professors Newsletter

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