



AEESP Newsletter

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Need to renew your 2013 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 May, 2013.

President's Letter

Submitted by MARK WIESNER (DUKE UNIVERSITY)

Dear AEESP members,

We belong to a great alumni association!... or at least that's what it seems like every time we get together. It feels like a big class reunion. Our shared sense of commitment to our profession, to the environment, and to the Public interest, are values that forge strong friendships and a very collegial setting whenever we meet. The occasions where we meet are as varied as they are numerous, spanning meetings of many other organizations including ACS, ASCE, WEFTEC, AIChE, AWWA, IWA, SETAC, AGU, A&WMA, and AAEES. AEESP sponsors sessions and workshops at many of these meetings, reflecting the interdisciplinary nature of our field. During the period that I have been lucky enough to serve on the AEESP Board of Directors, I have been able to appreciate first-hand the talents and dedication of my colleagues to our field and our Association. It is somewhat astonishing to me that *volunteers* serving on AEESP Committees and the Board are able to accomplish so much—in keeping us connected through a website and newsletter, judging awards, making educational materials available, tracking membership trends, representing the academic interests of our profession to governmental and public groups, providing input on the content and accreditation of curricula, and organizing conferences, sessions at conferences, and workshops.

At our next "class reunion," AEESP will celebrate its first 50 years at our biennial meeting, to be held in July 2013 in Boulder, Colorado. This promises to be another great opportunity for us to share our professional experience, consider where we are moving

as a profession and association, and of course, spend time with friends. As I step into the role of President of AEESP, I want to take this opportunity to highlight some potentially transformative activities that the Board has been working on, designed to enhance and expand services to our profession as we begin the next 50 years, allowing us to fulfill our role as an association of environmental academics, while promoting the camaraderie that we all enjoy in AEESP.



AEESP has launched a new website that will have the key feature of providing better connectivity and member access to many documents and services that have previously required mailings; all this while improving functionality and convenience. For example, we have all had the experience of paging through the printed directory looking for proposed reviewers for our papers or evaluators for tenure cases. Members will now be able to log-on to the AEESP website and access the membership directory, which will be searchable by categories such as expertise and institution. You will be able to update your membership information online and membership renewal will be automated so that, along with all the other memberships you juggle, you will no longer have to wonder where you stand with this year's dues. But wait... there's more! Submission of awards materials, committee contacts, and job postings will all be done online.

Another key development is that AEESP now has a journal. This summer, AEESP membership voted overwhelmingly to adopt a journal

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www.aeesp.org/publications_newsletter

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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.

President's Letter, continued from page 1

with the intention of entering into an agreement with *Environmental Engineering Science*. AEESP sponsorship of a journal provides our association with a forum for publishing policy papers, articles on environmental curricula and methods, special topics issues proposed by AEESP members, and broader distribution of AEESP newsletter content. Members will have free trial access for one month to the journal by logging-in to the website, and access to reduced rates for journal subscription.

There will also be new developments in AEESP's Business Office. The Board is currently working to put in place a mechanism for providing long-term management services and enabling the work of AEESP's committees and Board of Directors. Many mechanisms for providing business office functions can be envisioned, and a request for proposals to provide AEESP management services seeks to tap the creativity of those responding to this RFP in suggesting how coordination, financial, clerical, and administrative functions can be provided for many years into the future. For example, private, stand-alone management companies might be used to provide these services as might expertise present at many of our universities. Our goal is to ensure that AEESP receives the same care, attention, and quality of service that we have enjoyed in the past, while keeping member dues at a level that is substantially lower than those for most of the other organizations we belong to.

AEESP now recognizes members who have demonstrated the highest levels of teaching, research and/or service in the environmental engineering or science professorate as AEESP Fellows. Individuals with 15 years of continuous membership in good standing in AEESP may be nominated, with a limited number of nominations accepted in any given year.

Finally, in the spirit of recognizing the contributions that many have made to AEESP during our first 50 years, I want to call out two members in particular who have just stepped off the Board, outgoing Secretary Steve Dentel and outgoing President Joel Burken. In true style to their commitment to AEESP, they have both agreed to continue to help in a number of activities of the Board. The dedication, insight, humor, and friendship that they have brought to the Board perfectly express the balance between professional association and class reunion that is, and I hope always will be, AEESP.

2012 AEESP Award Recipients

Submitted by LINDA WEAVERS (OHIO STATE UNIVERSITY), PAST AWARDS COMMITTEE CHAIR

The 2012 AEESP Awards were presented to the award recipients at the 2012 AEESP Business Meeting and Award Ceremony on October 1, 2012 at the 2012 AEESP Meet & Greet and Annual Meeting at WEFTEC in New Orleans, Louisiana. Thank you to the members of the 2012 awards committee and sub-committees for thoughtful evaluation of nominations: Bill Arnold, Ali Boehm, Francis De Los Reyes, Andrea Ferro, Hector Fuentes, April Gu, Willie Harper, Ray Hozalski, Chad Jafvert, Cindy Lee, Karl Linden, John Little, Cecil Lue-Hing, Jim Mihelcic, Paula Mouser, Rob Nerenberg, Liz Pohland, Tim Prince, and Linda Weavers. Congratulations to all award winners!

Student Awards

Outstanding Doctoral Dissertation Awards

These awards annually recognize two outstanding doctoral dissertations that contribute to the advancement of environmental science and engineering. The two awards are equivalent. Each student recipient is presented with a plaque as well as a \$1,500 cash award. The students' advisors are awarded \$500.

CH2M Hill/AEESP Outstanding Doctoral Dissertation Award

This award which CH2M Hill has sponsored for many years and endowed in 2012, is given annually to recognize an outstanding doctoral dissertation that contributes to the advancement of environmental science and engineering.

Wen Zhang (advised by **Yongsheng Chen**), Georgia Institute of Technology

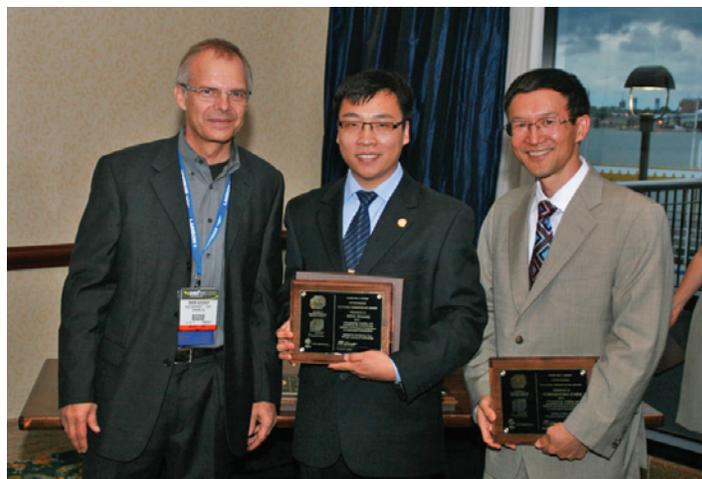
Characterizing, Imaging, and Quantifying the Environmental Behavior and Biological Interactions of Metal-Based Nanoparticles

Paul V. Roberts/AEESP Outstanding Doctoral Dissertation Award

This award, newly endowed in 2012, is given annually to recognize an outstanding doctoral dissertation that advances the science and practice of water quality engineering for either engineered or natural systems.

Simoni Triantafyllidou (advised by **Marc A. Edwards**), Virginia Polytechnic Institute and State University

Lead (Pb) Contamination of Potable Water: Public Health Impacts, Galvanic Corrosion and Quantification Considerations



Wen Zhang (middle) and advisor, Yongsheng Chen (right) accept the CH2M Hill/AEESP Outstanding Doctoral Dissertation Award from The AEESP President, Mark Wiesner (left).



Above: Simoni Triantafyllidou (right) accepts the Paul V. Roberts/AEESP Outstanding Doctoral Dissertation Award from The AEESP President, Mark Wiesner (left).



Above: Marc Edwards (right) accepts the Paul V. Roberts/AEESP Outstanding Doctoral Dissertation Award as advisor to Dr. Simoni Triantafyllidou from the chairman of Civil and Environmental Engineering at Virginia Tech, Samuel Easterling (left).



Above: Mark J. Rood (right) accepts the MWH/AEESP Master's Thesis Award (Andrew Nelson was not in attendance) from The AEESP President, Mark Wiesner (left).



Above: Mira Olson (right) accepts the McGraw-Hill / AEESP Award for Outstanding Teaching in Environmental Engineering & Science from The AEESP President, Mark Wiesner (left).



Above: Amy Childress (right) accepts the Outstanding Publications Award from The AEESP President, Mark Wiesner (left).

Award Recipients, continued from page 3

AEESP Outstanding Doctoral Dissertation Award: Honorable Mention

Meagan S. Mauter (advised by **Menachem Elimelech**), Yale University

Implications and Applications of Nanomaterials for Membrane-Based Water Treatment

MWH /AEESP Master's Thesis Award

This award annually recognizes the first and second most outstanding Master of Science theses that contribute to the advancement of environmental science and engineering. The first place award includes a \$1,500 cash award for the student, and \$500 is awarded to the second place student awardee.

First Place: Andrew J. Nelson (advised by **Mark J. Rood**), University of Illinois at Urbana-Champaign

Bench-Scale Evaluation of an Energy Efficient Acoustic Aerosol Purification Device with a Newly Designed Bioaerosol Testing and Evaluation Chamber

Second Place: Ahmed El-Hadidy (advised by **Sigrid Peldszus, Michele Van Dyke, and Peter M. Huck**), University of Waterloo (none attending)

Removal of Enteric Viruses by Ultrafiltration Membranes

Education, Research, and Practice Awards:

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

This award is given annually to recognize excellence in classroom performance and related activities. The recipient receives a \$500 cash award.

2012 Recipient: **Mira Olson**, Drexel University

Mira Olson is an assistant professor in Environmental Engineering at Drexel University. Her hands-on teaching approach in both her graduate hydrology course and undergraduate course on nanotechnology is particularly effective. This style of teaching led her to incorporate a service learning project into her hydrology course, and to advise two Drexel student teams in EPA's *People, Prosperity, and the Planet* competition. Dr. Olson is also very active in service projects. She initiated an afterschool science program for young girls in urban Philadelphia and was involved in Drexel's student chapter of Engineers without Borders.

Outstanding Publications 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.

2012 Recipients: Amy E. Childress and Menachem Elimelech

“Effect of Solution Chemistry on the Surface Charge of Polymeric Reverse Osmosis and Nanofiltration Membranes” *Journal of Membrane Science*, 119(2): 253-268, October 1996.”

Amy Childress is professor and chairperson in Civil and Environmental Engineering at the University of Nevada-Reno. Meny Elimelech is the Roberto Goizueta Professor in the Department of Chemical and Environmental Engineering at Yale University. In their award winning paper, Childress and Elimelech addressed the importance of the relationship between membrane electrokinetic properties and membrane performance, redefining the way researchers understand membrane performance. The paper has been cited numerous times since it was published in 1996.

AEESP Founders' Award

This award is given annually to recognize a member of AEESP who has made “sustained and outstanding contributions to environmental engineering education and practice.”

2012 Recipient: **C. Robert Baillod**, Michigan Technological University

Bob Baillod spent the majority of his career as a professor at Michigan Technological University. In the early 1980's he played a major role in the development of the school's highly regarded undergraduate environmental engineering program and served as head of the department from 1991 to 2005. In addition, Bob's efforts in service to our profession were profound. He was chair of the 5th AEEP conference on environmental engineering education and served as AEEP president in 1991–1992. He served on the AAEEES Board of Trustees, was founding editor of *Environmental Engineer: Applied Research and Practice*, AAEEES's peer-reviewed journal, and served as co-leader of the Environmental Engineering Body of Knowledge (BOK) Work Group which defined the BOK needed to enter environmental engineering practice in the 21st century. Unfortunately, Bob passed away in 2012 before the AEESP award recipients were announced. Members of Bob's family will be presented with his award at a ceremony in spring, 2013, by the Department of Civil and Environmental Engineering at Michigan Tech.

ARCADIS/AEESP Frontier in Research Award

This award 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. In addition to a plaque, this honor includes a \$4000 cash award.

2012 Recipient: **William A. Arnold**, University of Minnesota

William Arnold is the Joseph T. & Rose S. Ling professor in Civil Engineering at the University of Minnesota. Dr. Arnold has written over sixty widely cited papers and co-authored a water chemistry text book. Bill was nominated for his seminal research innovations in the areas of pharmaceutical photochemistry and the development of reactive barrier membranes.

Charles R. O'Melia Distinguished Educator Award

This award, newly endowed in 2012, recognizes the significant contributions of Professor O'Melia to environmental engineering education and is awarded to an environmental engineering or science professor who has a record of excellent classroom teaching and graduate student advising; significant research achievements; and an outstanding record in mentoring of former students and colleagues. In addition to a plaque, this honor includes a \$1500 cash award.

2012 Recipient: **Desmond F. Lawler**, University of Texas at Austin



Above: William Arnold (right) accepts the ARCADIS/AEESP Frontier in Research Award from The AEESP President, Mark Wiesner (left).



Above: Desmond Lawler (right) accepts the Charles R. O'Melia Distinguished Educator Award from The AEESP President, Mark Wiesner (left).



Above: Michael Stenstrom (right) accepts the Fredrick George Pohland Medal from The AEESP President, Mark Wiesner (left).



Above: Joel Burken (right) accepts the Distinguished Service Award for Outstanding Service as AEESP President and Board Member from The AEESP President, Mark Wiesner (left).



Above: Allen Davis (right) accepts the Distinguished Service Award for Outstanding Service as Chair of the AEESP Government Affairs Committee from The AEESP President, Mark Wiesner (left).

Award Recipients, continued from page 5

Des Lawler is a professor and holds the Nasser I. Al-Rashid Chair in Civil Engineering at the University of Texas at Austin. His research and teaching focus on physical/chemical treatment processes for water and wastewater, with emphasis on particle removal processes. He has been the recipient of many university and national awards in recognition of his outstanding research and teaching capabilities and is currently the AEESP Distinguished Lecturer. To date, Des has mentored nearly 100 graduate students, many of whom are now in academia. Professor Lawler's nominator characterizes him as "always passionate about his work." As one of Charlie O'Melia's own advisees, Des Lawler truly illustrates what it is to be an extraordinary educator.

Fredrick George Pohland Medal

This award honors a member of AEESP and/or the American Academy of Environmental Engineers and Scientists (AAEES) who has made sustained and outstanding efforts to bridge environmental engineering research, education, and practice. In addition to a medal, this honor includes a \$1000 cash award.

2012 Recipient: **Michael K. Stenstrom**, UCLA

Michael Stenstrom is a Distinguished Professor in Civil and Environmental Engineering at UCLA. Michael has an international reputation in the application of fundamental principles in aeration systems and regularly consults with water and wastewater utilities on aeration processes. Throughout his distinguished career, Dr. Stenstrom has advised more than 45 PhD students and 30 Masters Thesis students. He has also been active in service to our profession, serving on ASCE and WEF committees among others.

Distinguished Service Awards

Distinguished Service Award for Outstanding Service as AEESP President and Board Member

Joel G. Burken, Missouri University of Science and Technology

Distinguished Service Award for Outstanding Service as Chair of the AEESP Government Affairs Committee

Allen P. Davis, University of Maryland

Distinguished Service Award for Outstanding Service as AEESP Secretary and Board Member

Steven K. Dentel, University of Delaware

Distinguished Service Award for Outstanding Service as Chair of the AEESP Conference Selection Committee

H. Rick Diz, Gannon University

Distinguished Service Award for Outstanding Service as Editor of the AEESP Newsletter

Joseph N. Ryan, University of Colorado at Boulder

Distinguished Service Award for Outstanding Service as Chair of the AEESP Awards Committee

Linda K. Weavers, The Ohio State University



Left: Linda Weavers (left) accepts the Distinguished Service Award for Outstanding Service as Chair of the AEESP Awards Committee from Ohio State's Civil, Environmental, and Geodetic Engineering Department Chair, Carolyn Merry (right).



Above: Steven Dentel (right) accepts the Distinguished Service Award for Outstanding Service as AEESP Secretary and Board Member from The AEESP President, Mark Wiesner (left).

2013 AEESP Award Nominations

Submitted by CHAD JAFVERT (PURDUE UNIVERSITY), AEESP AWARDS COMMITTEE CHAIR

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 M.S. 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

continued on next page

Award Nominations, continued from page 7

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 AAEEES, 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 AAEEES 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.

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 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. ARCADIS 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.

Updates from the AEESP Board of Directors

Submitted by JOHN TOBIASON (UNIVERSITY OF MASSACHUSETTS; AEESP VICE PRESIDENT)

The AEESP Board of Directors has periodic conference call meetings and we last met in person in New Orleans on October 2-3, 2012 during the annual WEFTEC conference. We were joined by Joanne Fetzner who manages the AEESP Business Office. The Board meeting on Tuesday followed a busy Monday of AEESP sponsored WEFTEC activities including the AEESP/WEF Research Lecture by Dr. Peter Dold entitled “Best of WWTMod Update/Outcome” (sponsored by CDM Smith), the AEESP/WEF Scientists Lunch lecture by Dr. Mark Wiesner entitled “Progress Towards Understanding the Environmental Implications of Nanomaterials” (sponsored by Brown & Caldwell), the WERF Paul Busch Awardee/AEESP Technical Session, and the AEESP Meet & Greet and Awards Ceremony (sponsored by Corollo Engineers, and attended by many AEESP members). On Tuesday, the AEESP Session on Utility/University Collaborative Research was held. The AEESP Board thanks the speakers, participants, and sponsors of these important events.

Some highlights of Board meetings since the September 2012 newsletter are:

- ▶ The New Orleans Board meeting marked the end of Joel Burken’s term as AEESP President, including four years of AEESP BOD service (thank you, Joel!), and the beginning of Mark Wiesner’s Presidential year. The Board welcomed new members Allen Davis (University of Maryland, completing an unfinished term) as well as Greg Characklis (University of North Carolina), Andrea Ferro (Clarkson University), and Jean MacRae (University of Maine) who had been elected by the membership in the summer of 2012. We enjoyed the company and outstanding service of Steve Dentel as he completed his work as AEESP Secretary and member of the Board – thank you, Steve! Other Board officer changes included election of Sarina Ergas to serve as the new AEESP Secretary and John Tobiason as the new Vice President, replacing Jennifer Becker who is now our AEESP President-Elect. Also, Allen Davis agreed to serve as Chief Information Officer for AEESP.
- ▶ The Board reviewed progress on the new AEESP web site, then under design by contractor Mandy Ferguson of Duke University, and now live (as of November 2012) with continuous updates occurring. The new site will allow for member login and have a searchable membership directory; the Board voted to no longer print and mail hard copies of the directory as of 2012.
- ▶ As described previously, the Board is issuing a request for proposals to provide long-term management services for AEESP, looking ahead to a time when Joanne may no longer be



available, and considering expanded responsibilities to help accomplish AEESP’s strategic goals. AEESP is a relatively small organization, but could benefit from an Executive Administrator to provide integration of the individual services provided and communication with, and reporting to, the AEESP BOD. This integration will reflect a knowledge of AEESP practices within the broader context of environmental engineering and science in an academic setting. The Board will solicit and review proposals early in 2013.

- ▶ For many years, AEESP members have participated in Congressional Visits Days in Washington, DC, coordinated through the AEESP Government Affairs Committee. Led by Allen Davis, the Board discussed the benefits and costs of participating in these visits and concluded that AEESP should discontinue its participation in Congressional Visits Days and charged the Government Affairs Committee with identifying more effective alternatives, such as targeted visits to funding agencies.
- ▶ The Board reviewed the membership approval of the formal affiliation of AEESP with the journal *Environmental Engineering Science*, and asked Mark Wiesner, as AEESP President, to negotiate and sign a detailed memorandum of understanding with *EES* publisher Mary Ann Liebert, Inc. As noted elsewhere, this task has been completed with an effective date of January 1, 2013. The Board is excited about the benefits to AEESP of having *EES* as our official journal.

The next meeting of the AEESP Board of Directors will be held in Tuscon, Arizona in March followed by our meeting in conjunction with the 2013 AEESP Research and Education Conference at the Colorado School of Mines in Golden, Colorado, July 14-17, 2013. We look forward to seeing many of you at our biennial conference this summer!

Dates Set for AEESP Distinguished Lecturer Desmond Lawler

Submitted by JEANINE PLUMMER (WORCESTER POLYTECHNIC INSTITUTE)

The AEESP Lectures Committee is pleased to announce the spring schedule for the 2012–13 AEESP Distinguished Lecture Series by Desmond Lawler of The University of Texas at Austin. Des visited seven universities in the fall of 2012, and will be visiting an additional nine environmental engineering and science programs in the spring of 2013. At each school, he will be presenting one of two lectures: “Particles, Particles, and More Particles” or “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

Date	University	Contact
January 11	Stanford University	Lynn Hildemann, hildemann@stanford.edu
February 4	North Carolina State University	Detlef Knappe, knappe@ncsu.edu
February 6	Virginia Tech	John Little, jcl@vt.edu
February 8	Clemson University	Kevin Finneran, ktf@clmson.edu
February 25	University of Maryland at Baltimore County	Upal Ghosh, ughosh@umbc.edu
February 27	University of Massachusetts Amherst	John Tobiason, tobiason@ecs.umass.edu
March 1	University of Florida	Treavor Boyer, thboyer@ufl.edu
April 10	University of Michigan	Jeremy Semrau, jsemrau@umich.edu
April 12	University of Minnesota	Paige Novak, novak010@umn.edu

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).

Students and Postdocs Benefit from AEESP's Faculty Application Review Program

Submitted by PHILLIP LARESE CASANOVA (NORTHEASTERN UNIVERSITY)

During Summer 2012, the AEESP Student Services Committee (SSC) conducted its first online Academic Job Application Review (AJAR) Program and 20 graduate students and postdocs participated. This event was coordinated by SSC, and faculty members volunteered to review faculty application packages submitted by students and postdocs. Participants submitted cover letters, curriculum vitae, and teaching and research statements for review. A special thanks is extended to the following volunteer application reviewers for their time and effort: Drs. Douglas Call (Syracuse University), Matthew Eckelman (Northeastern University), Venkata Ramana Gadhamshet (Rensaleer Polytechnic Institute), V. Gnaneswar Gude (Mississippi State University), Christopher Higgins (Colorado School of Mines), and John Howarter (Purdue University).

Look for a "Navigating the Academic Job Search" workshop this summer at AEESP 2013 in Colorado for an opportunity for students and postdoctoral researchers to learn about obtaining faculty positions in environmental engineering and science. An academic job search "how to" publication will soon be available from the *Journal of Professional Issues in Engineering Education and Practice*. This manuscript was recently accepted for publication and resulted from the AEESP 2011 conference.

Navigating the Academic Job Search for Environmental Engineers: Guidance for Job Seekers and Mentors. *Journal of Professional Issues in Engineering Education and Practice*. [Accepted 2012, In Press] by D Ladner, S Boylard, D Apul, AJ Whelton.

And stay tuned to our student services wiki site (environmental-engineeringscience.wikispaces.com) for future professional development resources.

Respectfully,

Dr. Philip Larese-Casanova, SSC Academic Job Application Review Program Coordinator, Northeastern University

Dr. David Ladner, SSC Chair, Clemson University

Dr. Andrew Whelton, SSC Vice Chair, University of South Alabama

Dr. Defne Apul, University of Toledo

Mrs. Stephanie C. Bolyard, University of Central Florida

Dr. Daniel Giammar, Washington University at St. Louis

Dr. Ramesh Goel, University of Utah

Dr. Zhen He, University of Wisconsin-Milwaukee

Dr. Philip Larese-Casanova, Northeastern University

Dr. Jason Ren, University of Colorado-Denver

Dr. Qilin Li, Rice University

Dr. Andrew Ramsburg, Tufts University

Dr. Fu Zhao, Purdue University

Request for Proposals to Provide Management Services for the Association of Environmental Engineering and Science Professors (AEESP)

Submitted by MARK WIESNER (DUKE UNIVERSITY AND PRESIDENT, AEESP)

Proposal Deadline: 5 PM EST, March 1, 2013

Letter of Intent: January 31, 2013

Budget: Not to exceed \$50,000/year

Proposed Contract Duration: Five years subject to annual review and satisfactory performance

Proposed Contract Start Date: October 1, 2013

Background

The Association of Environmental Engineering and Science Professors (AEESP) is made up of professors in academic programs throughout the world who provide education in the sciences and technologies of environmental protection (www.aeesp.org). Founded in 1963 as a private nonprofit organization, AEESP has grown to more than 700 members in universities throughout the world. The Association assists its members in improving education and research programs, encourages graduate education, serves the profession by providing information to government agencies and the public, and provides direct benefits to its members.

The Association is administered by an elected Board of Directors (BOD) who serve without stipend. The Board comprises nine members, three of whom are selected each year for a three-year term. The Board elects its own officers: President, President-Elect, Vice President, Secretary, and Treasurer. The work of AEESP is carried out primarily by committees that report directly to the BOD. Committee membership is open to all members.

The AEESP Foundation (a tax-exempt 501(c)(3) corporation, www.aeespfoundation.org) is a sister organization of the Association of Environmental Engineering and Science Professors and was formed in 2005 to

exclusively help promote the educational and scientific objectives of AEESP. The purpose of the AEESP Foundation is to improve the state of knowledge in environmental engineering through the support and acknowledgement of excellence in environmental engineering education and scientific research, and to foster and encourage dialogue about advancements in environmental engineering education and research among educators and scientists, practicing engineers, and the general public.

Management Services RFP

For many years, administrative, fiscal, legal, and technical support for AEESP and the AEESP Foundation has been provided under contract with an individual business manager. AEESP seeks proposals to provide expanded management services for the organization. The desired management services include:

- Coordination of management services (Executive Administrator)
- Financial management
- Legal services
- Administrative, logistical, and clerical support and,
- Technical support.

All mechanisms of providing these services may be considered, including the use of individual contractors, part or full time employees, management firms, or combinations of these or other entities. The framework for providing these services should allow for continuity in operations over time, portability to other service providers, responsive interaction with the AEESP Board of Directors and adaptability to new needs expressed by the BOD. Proposers should provide a clear organizational structure including lines of reporting, responsibilities, and mechanisms and criteria for evaluating performance.

Coordination Function –Executive Administrator: The roles of the AEESP Executive

Administrator (EA) are to: (1) integrate the individual services provided, (2) report to the AEESP BOD and communicate with the BOD, the AEESP membership, and the public. This integration will reflect a knowledge of AEESP practices within the broader context of environmental engineering and science in an academic setting. The coordination function will include regular reporting to the BOD, oversight of any individuals or contractors providing financial management, legal, logistical, and technical support services and ensuring continuity across all services and over time. The EA is expected to attend all BOD meetings (two in-person meetings per year and 4-6 conference calls per year) and the biennial AEESP conference. (In-person meetings are typically 1.5 to 2 days in length and conference calls 2 hours in length.)

Financial services: The proposed framework should provide for overall financial management services for the AEESP Business Office, including reviewing the record of deposits and making deposits at a financial institution, contracting appropriate printing services, issuing payment for service-related expenses, and preparing a quarterly financial statement describing expenses incurred and payments received on behalf of AEESP, preparing an annual consolidated financial report for AEESP which incorporates all AEESP accounts and financial activity for the previous calendar year, and from this summary, preparing the Federal Form 990, Return of Organization Exempt from Income Tax, preparing financial and related correspondence for the AEESP Foundation, and checking all deposits of mailed checks or cash, authorized off-line credit card charges, or online checks and credit card charges via the AEESP web site for accuracy, and making associated deposits. Financial services also include providing invoices when authorized to do so by an officer of AEESP, invoicing, reminder notices, preparing deposits, maintaining a data base of all financial

transactions, coordinating with the AEESP Treasurer, preparing related correspondence for sustaining members and web ads, and preparing a balance report.

Administrative, logistical, and clerical support: Expected services include:

a) prepare and mail (herein meaning primarily e-mail with follow-up/targeted physical mail as necessary) annual dues notices (in coordination with financial services functions) along with any other forms or enclosures (or electronic attachments) sent to the membership along with the dues notice; prepare and mail late dues reminder notices; process applications for new members in concert with the AEESP Secretary; and promptly send new members a welcome letter from the Association and links/login information to the members' section of the AEESP website.

b) Integrate with technical support services to maintain up-to-date membership records in a standard database format, generate renewal reminders, and other automated email correspondence related to membership inquiries. The database will include all information of interest on members, including mailing addresses, and will be updated based on member input.

c) Ensure that an electronic format of the AEESP Membership Directory is prepared annually.

d) Work with the Newsletter editor and any publishers that may be associated with AEESP to ensure that an electronic and ready-to-print format of the AEESP Newsletter is prepared three times each year based on manuscripts (on electronic or paper media) supplied by the Newsletter Editor and facilitate electronic distribution of the Newsletter to the membership.

e) provide fulfillment services for AEESP publications, including storage, order processing, shipping, and deposit into the AEESP account of all funds received from the sale of publications.

f) administer additional as-needed communication with the AEESP membership and others as directed by the BOD.

g) provide storage and cataloguing of the AEESP archives, and add materials as appropriate to maintain an accurate and complete history of the Association. Plans for ensuring data security and backup should be provided.

h) provide support for the biennial AEESP Research and Education Conference including: facilitate timely creation of and linkage to the conference web site and communication (deadlines, advertising) with the AEESP membership and the public; coordinate registration with respect to confirmation of membership; support of program development and on-site coordination; coordinate with sustaining members for financial support

i) Organizing meetings of the AEESP BOD, including logistics and related correspondence for lodging, tele-conferencing and other matters (room reservations, refreshments, etc.) associated with BOD meetings, as well as arrangements for AEESP events at conferences.

Legal Services: Solicit and coordinate legal services as needed to ensure that AEESP procedures, contracts, publications, and activities comply with all pertinent laws and to maintain incorporation of AEESP in the appropriate jurisdiction(s).

Technical support: Assure, in concert with the AEESP Internet Resources Committee, the maintenance of the AEESP website in terms of content and functionality, interface with admin/logistical functions to produce mailing lists, emails to membership, update content, post job listings, events, member directory, on-line membership application capacity, contact information and other information. Content on the website to be maintained will include items on the current website, plus updateable documents such as AEESP by-laws, handbook, and committee activities. Technical support will interface with committees to ensure effective web-based

interactions (e.g., document sharing) as needed. The technical support functions also include aiding with teleconferencing/web-based platforms for meetings.

Letter of Intent

Parties interested in submitting a proposal should provide a letter of intent no later than January 31, 2013.

Submission Material

- A written proposal, no longer than 10 pages in length should be submitted no later than 5 PM EST, March 1, 2013. Respondents may be asked to provide additional details. Proposals should respond to the RFP and include the following elements:
 - Qualifications (personnel, organization, etc.)
 - Proposed Budget and Justification
 - Contact information for three references
- All proposal materials should be submitted by email as one pdf file to Professor Sharon Walker: swalker@enr.ucr.edu
- Questions regarding this RFP may also be directed by email to Prof. Walker.

Evaluation Criteria

- Experience with, and knowledge of, AEESP as an organization
- Experience in providing management services to similar organizations
- Responsiveness to the RFP
- Qualifications
- Budget Justification

Daniel Oerther on Fulbright-ALCOA Distinguished Chair at University of Western Para, Brazil

Submitted by DANIEL OERTHER (MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY)

From September through November 2012 and again from March through May 2013, Daniel B. Oerther, the John A. and Susan Mathes Chair of Environmental Engineering at the Missouri University of Science and Technology, is serving as the inaugural Fulbright-ALCOA Distinguished Chair of Environmental Science and Engineering at the University of Western Para, Brazil. Fulbright, the flagship exchange program of the US Department of State, sends nearly 1,200 faculty overseas each year as “cultural ambassadors.” Forty



of those faculty travel as Distinguished Chairs highlighting eminent researchers and distinguished teachers as among the most prestigious appointments in the Fulbright program. Oerther previously served as a Fulbright-Nehru Scholar to the Indian Institute of Science and a Fulbright-Pai Endowed Scholar to Manipal University, India. To learn more about Oerther’s travels check out danieloerther.wordpress.com, and to learn more about opportunities from the Fulbright program check out eca.state.gov/fulbright. Dan is happy to help answer questions you may have about applications or strategies for making a Fulbright experience part of your faculty professional development.

Arup K. SenGupta Receives 2012 Intel Environmental Award

Submitted by ARUP SENGUPTA (LEHIGH UNIVERSITY)

Arup K. SenGupta, Professor of Civil and Environmental Engineering at Lehigh University, was the recipient of Silicon Valley’s 2012 Intel Environmental Award for his technological innovations in the water area. The award ceremony took place on November 15 at the Santa Clara Convention Center and was attended by over 1400 people under the auspices of TechAwards, a non-profit organization founded by multinational corporations in Silicon Valley. The award consisted of a trophy and a cash prize of \$75,000.

Every year, TechAwards recognizes individuals who have applied *technology benefiting humanity* in six different areas: environment, education, energy, health, economic develop-



SenGupta receiving Intel Environmental Award from Stuart Pann, the corporate vice-president of Intel Corporation.

ment, and young innovators. For the 2012 TechAwards, there were over 700 nominations from more than 60 countries. SenGupta was the winner in the environmental category and recognized for his invention of the first reusable arsenic-selective adsorbent that has provided arsenic-safe water to over one million people in both the developing and the developed world, and created jobs in impoverished regions. He was also cited for his ongoing effort in mitigating fluoride crisis in Africa and Asia. SenGupta donated the prize money to the charitable foundation (www.thetsfoundation.org) he created along with like-minded students to address water issues in the developing world. In his acceptance speech, SenGupta emphasized *water as an engine for economic growth through appropriate technology*.

SenGupta has been an AEESP member since 1986 and was the lead faculty member to create all three degrees in environmental engineering (BS, MS and PhD) at Lehigh University. He was the editor of *Reactive & Functional Polymers Journal* of Elsevier from 1996 through 2006. SenGupta’s research has received awards from several professional societies including the 2001 Frontier in Research Award from the AEESP.

César Torres wins Outstanding Young Investigator Award

Submitted by BRUCE RITTMANN (ARIZONA STATE UNIVERSITY)

Arizona State University's Dr. César I. Torres is the winner of the Society of Hispanic Professional Engineers (SHPE) 2012 Young Investigator Award. The honor recognizes his contributions to bioenergy research. An AEESP member, Dr. Torres is an assistant professor in the School for Engineering of Matter, Transport and Energy at ASU, and he is a faculty member in the Swette Center for Environmental Biotechnology at ASU's Biodesign Institute. The focus of his research is on a bacterial group called anode-respiring bacteria. It is an emerging, interdisciplinary field that connects engineering with microbiology and electrochemistry. Torres received his award during the annual SHPE National Conference November 16 in Fort Worth, Texas. The organization's Young Investigator Award is given to researchers under the age of 36 who have "contributed in an outstanding and innovative way to the progress of research in any field of science and engineering." SHPE was established in 1974 to encourage Hispanic students to pursue careers in engineering and science. Torres says he is honored to be recognized by an organization that shares his goal of providing role models to students in a group that is underrepresented in engineering and science fields.



César I. Torres

ASU appoints Halden as director of new Center for Environmental Security

Submitted by ROLF HALDEN (ARIZONA STATE UNIVERSITY)

ASU professor Rolf Halden has been appointed to lead a new effort to protect human health and critical ecosystems, called the Center for Environmental Security (CES).

"The goal of CES is to protect human populations and our planet by detecting, minimizing and ultimately eliminating harmful chemical and biological agents through engineering interventions," said Halden, a professor in the Fulton Schools of Engineering, Biodesign Institute researcher, and senior sustainability scientist in the Global Institute of Sustainability at Arizona State University. "We will be utilizing a proactive approach to examine chemical and biological threats in the environment locally and globally, to track human diseases caused by environmental exposure, and to develop intervention strategies suitable for mitigating these threats."

Major CES research thrusts include:

- Environmental Monitoring (Threat Detection)
- Environmental Epidemiology (Health Impact Assessment)
- Public Health Preparedness (Bioterrorism Prevention)
- Innovative Environmental Diagnostics and Management Strategies (Microcosm arrays and Policy Interventions)
- Food Safety & Security (Microbial Drug Resistance Tracking)

The new center is being established as the 11th research center at ASU's Biodesign Institute, and the first partnership to leverage expertise and resources of ASU's Security and Defense Systems Initiative (SDSI), led by ASU professor Werner Dahm.

More information about the center is available at: https://asunews.asu.edu/20121107_halden_ces

New Faculty Appointed at Bourns College of Engineering, UC Riverside

Submitted by SHARON WALKER (UNIVERSITY OF CALIFORNIA RIVERSIDE)

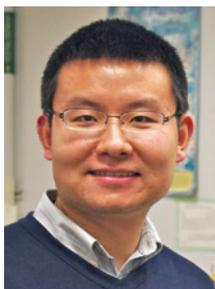
The Department of Chemical and Environmental Engineering at the Bourns College of Engineering (BCOE) at UC Riverside welcomes two new assistant professors to its ranks in 2012–13.

David Jassby's research focuses on membrane technology, water and wastewater treatment, environmental implications, and applications of nanotechnology. In his lab, Jassby utilizes developments in nanotechnology, material science, and chemistry and applies them in environmentally relevant applications, with a particular focus on water treatment, including the fate and transport of nanomaterials in the environment. Jassby received his Ph.D. in civil and environmental engineering from Duke University, his M.S. in civil and environmental engineering at UC Davis, and his B.Sc. in biology from Hebrew University in Israel. Prior to BCOE, Jassby was the executive director of the Center for Environmental Implications of Nanotechnology, an NSF-funded research center located at Duke University. His appointment at BCOE began July 1, 2012.

Assistant Professor **Haizhou Liu's** research interests include colloidal metal behavior and redox chemistry in drinking water, chemical remediation of contaminated sites, environmental electrochemistry, and advanced oxidation in water treatment processes. His long-term research goal is to harness chemical reactions and processes of environmental significance to improve water quality and enhance water purification and reuse in engineered applications. Liu received his Ph.D. in environmental engineering and his M.S. in civil engineering from the University of Washington, and his B.S. in environmental engineering from Sichuan University in China. Prior to joining BCOE, he worked as a postdoctoral researcher at UC Berkeley for two years in the Department of Civil and Environmental Engineering. His appointment begins January 1, 2013."



David Jassby



Haizhou Liu

Kyle Bibby: New Assistant Professor at the University of Pittsburgh

Submitted by RADISAV VIDIC (UNIVERSITY OF PITTSBURGH)

Dr. Kyle Bibby joined the Department of Civil and Environmental Engineering at the University of Pittsburgh as an Assistant Professor in January 2013. Prior to joining Pitt, Dr. Bibby received a Ph.D. in Chemical and Environmental Engineering from Yale University (2012), and a B.S. in Civil Engineering from the University of Notre Dame (2008). While a Ph.D. student at Yale University, Kyle received EPA STAR, Environmental Research and Education Foundation, and Yale Goodyear fellowships.



Kyle Bibby

Dr. Bibby's research interests center around understanding the activity, presence, ecology, and diversity of microorganisms, such as viruses and bacteria, in an environmental engineering context. Microorganisms are at the core of many of society's environmental challenges, including sustainable energy production, waste treatment, and environmentally transmitted disease. In the Bibby Lab, emerging molecular biology techniques such as proteomics, genomics, metagenomics, and transcriptomics are integrated with fundamental, quantitative environmental engineering practice to develop new insights and solutions to these problems.

Journals from IWA Publishing



Water Science & Technology

Editor-in-Chief: Helmut Kroiss
ISSN: 0273-1223; Vols. 67-68, 24 issues, 2013
Institutional rate (print and online access):
£4,594 / US\$8,449 / €7,075

Water Science & Technology: Water Supply

Editor-in-Chief: Helmut Kroiss
ISSN: 1606-9749; Vol. 13, 6 issues, 2013
Institutional rate (print and online access):
£1,585 / US\$2,805 / €2,561

Water Policy

Official Journal of the World Water Council
Editor-in-Chief: J. Delli Priscoli
ISSN: 1366-7017; Vol. 15, 6 issues, 2013
Institutional rate (print and online access):
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Journal of Hydroinformatics

Editor-in-Chief: Dragan Savic
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ISSN: 1464-7141; Vol. 15, 4 issues, 2013
Institutional rate (print and online access):
£979 / US\$1,732 / €1,526

Journal of Water Supply: Research & Technology - Aqua

Editors: Rolf Gimbel, Benjamin Stanford
and Yoshimasa Watanabe
ISSN: 0003-7214; Vol. 62, 8 issues, 2013
Institutional rate (print and online access):
£751 / US\$1,286 / €1,085

Journal of Water & Health

Publishing in association with the World
Health Organization (WHO)
Editors: Paul R. Hunter, Maria A. Efstratiou,
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Mark J Nieuwenhuijsen and Steve Pedley
ISSN: 1477-8920; Vol. 11, 4 issues, 2013
Institutional rate (print and online access):
£820 / US\$1,482 / €1,209

Journal of Water & Climate Change

Editors: Sankar Arumugam, Rutger de Graaf, Carol
Howe and Chris Perera
ISSN: 2040-2244; Vol. 4, 4 issues, 2013
Institutional rate (print and online access):
£477 / US\$707 / €598

Hydrology Research

An International Journal. Official Journal of:
The Nordic Association for Hydrology (NHf)
The British Hydrological Society (BHS)
The German Hydrological Society (DHG)
The Italian Hydrological Society (IHS)
Editors: Chong-Yu Xu and Ian Littlewood
ISSN: 0029-1277; Vol. 44, 6 issues, 2013
Institutional rate (print and online access):
£950 / US\$1,630 / €1,426

Journal of Water Reuse and Desalination

Editors: Blanca Jiménez Cisneros, How Yong Ng,
Stephen Gray and In S. Kim
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Institutional rate (print and online access):
£448 / US\$709 / €561

Journal of Water, Sanitation and Hygiene for Development

Editor-in-Chief: Jamie Bartram
Editors: Barbara Evans, Michael Hantke-Domas,
Guy Howard, Guy Hutton and Marcos von Sperling
ISSN: 2043-9083; Vol. 3, 4 issues, 2013
Institutional rate (print and online access):
£463 / US\$732 / €580

Water Quality Research Journal of Canada

Official Journal of
the Canadian Association on Water Quality
Editor: R. Gehr
ISSN: 1201-3080; Vol. 48, 4 issues, 2013
Institutional rate (print and online access):
£449 / US\$695 / €673

Water Research

Editor-in-Chief: Mogens Henze
ISSN: 0043-1354; Vol. 47, 20 issues, 2013
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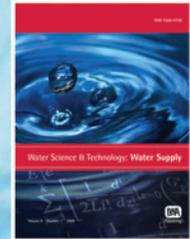
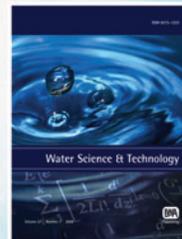
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A Message from AAEES President Pasquale S. Canzano P.E., BCEE

This past Spring, the American Academy of Environmental Engineers and Scientists (AAEES) approved its first Board Certified Environmental Scientists (BCES) under the new certification program. As the incoming 2013 President of AAEES, I look forward to building on that momentous event. It has been a privilege to serve on the Academy's Board of Trustees (BOT) and to work with exceptionally talented peers on the BOT.



Pasquale S. Canzano

These include trustees-at-large, officers, and the trustees of Sponsoring Organizations, such as Dr. James R. Mihelcic, Ph.D., BCEEM, Professor of Civil and Environmental Engineering, University of South Florida, Tampa, representing the Association of Environmental Engineering and Science Professors (AEESP). In particular, the vibrant partnership between AAEES and AEESP is creating unique platforms for recognizing individual expertise and achievements in academia and private practice. The following briefly describes some of these accomplishments.

AAEES—Board Certified Environmental Scientist

First and foremost is our new name: the American Academy of Environmental Engineers and Scientists, and our new Certification—the BCES—Board Certified Environmental Scientist. Similar to AEESP, the Academy recognizes the value of an interdisciplinary approach to environmental engineering and the value of identifying highly qualified environmental scientists who work side-by-side with specialty experts in environmental engineering. This approach benefits the public-at-large as well as stakeholders in research and projects. More information on the Academy's BCES certification program is available at www.aee.net.

Board Certified Environmental Engineer (BCEE)

Application time is also here for those who qualify for recognition in any of eight Environmental Engineering specialties through the BCEE (P.E. licensed) certification program. The deadline for submitting a BCEE application is March 31, 2013. For details and to apply, visit www.aee.net.

Board Certified Environmental Engineering Member (BCEEM)

The BCEEM (non-P.E.) is achieved through Eminence. It is designed for those who do not have a state P.E. license, but have a degree in environmental engineering or related engineering degree and at



least 20 years of experience in practice or education. To apply for BCEEM through Eminence, send your resume, or that of your nominee, to Cecil Lue-Hing at CLHAI@aol.com, or Dr. James Patterson at J_W_Patterson@msn.com, and request a preliminary review of qualifications.

Frederick George Pohland Medal

Another example of cooperation between AEESP and AAEES and its Environmental Engineering Foundation (EEF) is the jointly administered **Frederick George Pohland Medal**. The winner receives the Pohland Medal, \$1,000 cash, and reimbursement of up to \$1,000 in travel costs to receive the Award at the Academy's Excellence in Environmental Engineering and Science (E3S) Awards Luncheon and Technical Conference, April 25, 2013, at the National Press Club, Washington, DC.

Brewster Snow Award

Now in its third year, the Brewster Snow Award is presented to an outstanding engineering student currently pursuing or recently completing a Masters degree in Environmental Engineering or closely related degree program. The recipient receives a plaque and a check for \$250. This is also jointly administered by AEESP and AAEES with the cooperation of the EEF. Details are available at www.aee.net under "Awards."

Wesley Eckenfelder Graduate Research Award

AEESP and AAEES jointly administer the Wesley Eckenfelder Graduate Research Award. Sponsored by HDR, this award is granted annually to recognize a student whose research contributes to the knowledge pool of industrial wastewater management. The award includes plaques for both the student and major faculty advisor, a cash honorarium of \$1,500 for the student, and a \$500 student travel allowance to attend the E3S Conference and Luncheon and receive the award. For details, go to www.environmentalengineeringfoundation.org.

Excellence in Environmental Engineering Education Award

All of us—practitioners and educators, past, present, and future—stand on the shoulders of giants—those who educated us in the first place. Last year marked the first Excellence in Environmental Engineering Education Award, jointly administered by AEESP and AAEES. The first award, jointly sponsored by GHD, Lee & Ro, Inc., MWH, and Parsons, went to Dr. George Tchobanoglous, Professor

Emeritus in the Department of Civil and Environmental Engineering at the University of California, Davis. AEESP will be seeking nominations. For updates on this prestigious award, visit www.aeesp.org/awards.

Environmental Engineering Department and Program Chairs Conference

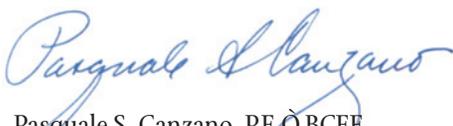
In July 29–31, 2012, AEESP and AAEES launched the First Annual Environmental Engineering Department and Program Chairs Conference, at The Ohio State University, establishing a framework for succeeding joint conferences. A similar preconference workshop will be held at this year's AEESP Conference on July 14, 2013, in Golden, Colorado. More details are forthcoming at www.aeesp.org/content/aeesp-conference.

Student Team Award

The AAEES Membership Development and Outreach Committee worked with Dr. Daniel B. Oerther, Ph.D., Professor, Missouri University of Science & Technology, to develop an additional mechanism for reaching out to students through a new award recognizing an outstanding team project such as those of the chapters of Engineers Without Borders. The award includes \$1,500 for one or more students to travel to the Excellence in Environmental Engineering and Science Awards Luncheon and Conference and receive the award. Dr. Oerther graciously donated the first \$1,500 for the Award.

In closing, I invite our environmental engineer and scientist colleagues to explore the benefits of Academy certification and to visit our web site at www.aee.net or contact the Academy's office at 410-266-3311 for more information.

Sincerely,



Pasquale S. Canzano, P.E. 
AAEES President

Update on AAEES Education Committee

Submitted by JAMES MIHELIC (UNIVERSITY OF SOUTH FLORIDA)

David Chin (University of Miami and chair, AAEES Education Committee) reported that the ABET Board approved the proposed revisions to the Program Criteria for Environmental Engineering programs and the Program Criteria for Environmental Engineering Technology programs. These criteria will now be published for comment in the 2013–14 cycle and, hopefully, be implemented in the 2014–15 cycle. It is incumbent on all of us to ensure that our colleagues at affected programs are aware of these pending changes. The AAEES Board of Trustees has indicated their support for the Education Committee to develop a commentary on the new Program Criteria for Environmental Engineering. However, this will not begin in earnest until at least the end of the 2013–14 comment cycle. Please provide David Chin any comments in this regard. David Vaccari (Stevens Institute of Technology) provided great service on the ABET Board. AAEES has nominated James Hunt (University of California Berkeley) and Debra Reinhart (University of Central Florida) as (AAEES) ABET Engineering Accreditation Commissioners and Jeff Greenfield (South Florida Water Management District) as our commissioner for the ABET Engineering Technology Accreditation Commission.

Special Offer for AEESP

The American Academy of Environmental Engineers and Scientists identifies highly skilled environmental engineers and environmental scientists for the benefit of the public.



These unique professionals are readily recognized through Academy credentials: Board Certified Environmental Engineer—BCEE (P.E. licensed), Board Certified Environmental Engineering Member—BCEEM (no P.E.), and Board Certified Environmental Scientist—BCES.

Those with a degree in environmental engineering (or related engineering degree), at least 8 years of experience, and a P.E. license may qualify to take written and oral specialty examinations to obtain the BCEE credential. Those with a degree in environmental science (or related science degree) and at least 8 years of experience may qualify to take written and oral specialty examinations to obtain the BCES credential. Those with 20 years of experience in environmental engineering (unlicensed) and a 10-year record of exemplary senior leadership may qualify to obtain the BCEEM.

Apply online now and get a free 2012 Who's Who in Environmental Engineering (a \$75 value). To create your account, go to www.aees.org and click Log In to the AAEES Center. Purchase your Application for Board Certification, add the Who's Who to your cart, and enter the discount code APP-AEESP12. Offer expires March 1, 2013.

W. Wesley Eckenfelder Graduate Research Award

This award is given annually to recognize a student whose research contributes to the knowledge pool of industrial wastewater management. The award selection will be based on original, innovative research of publishable quality and other factors as provided below.

Both Master's and Ph.D. students are eligible. The award will consist of a plaque and a cash honorarium of \$1,500.00 for the student and a plaque for the major faculty advisor. A \$500.00 travel allotment to student recipients who attend the AAEES awards ceremony will also be provided. This award selection committee is administered jointly by AEESP and AAEES. Eligible applicants will be judged based on academic program performance (45%), professional or community service (15%), engineering project accomplishment (25%), purpose and goals (10%), and any other evidence provided (5%).

Electronic nomination packages should include: (1) A letter from the faculty advisor of the applicant, indicating that the applicant has completed all substantive requirements for the graduate degree sought, and has earned a minimum GPA of 3.3/4 in the current program, (2) Documented successful completion of the Fundamentals of Engineering Exam, (3) Two academic letters of recommendation, detailing the contributions of the research to the profession, (4) Copy of a publication (or manuscript submitted for publication) derived from the subject research for which the applicant is the first author – 25 page limit, (5) A professional resume of the student applicant, listing all professional affiliations, publications, honors, service, and relevant experience, and (6) An applicant prepared statement

of professional purpose in pursuing the graduate degree and goals for the first five years of professional practice – limit 500 words.

Application packages should be submitted as a single pdf file by March 15, 2013, to: AAEE.Eckenfelder.Award@gmail.com.

Questions may be directed to the Chair of the W. Wesley Eckenfelder Graduate Research Award committee:

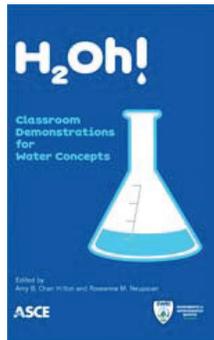
Professor James R. Mihelcic
Department of Civil and Environmental Engineering
University of South Florida
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Professor Wesley Eckenfelder, Jr. is considered the “godfather” of industrial wastewater management. He was a great colleague and mentor to numerous practitioners, professors, and students. His prolific contributions to the environmental engineering discipline included writing over thirty books, serving as a principal in several environmental engineering firms, and receiving twenty-eight awards from a wide range of professional societies. In addition, Dr. Eckenfelder was an accomplished professor with a teaching career that included positions at Manhattan College, the University of Texas at Austin, and Vanderbilt University. He was known internationally as an early developer and innovator of biological treatment technology that is now considered a standard skill employed by practicing professionals, worldwide.

Collection of Water-Related Classroom Demonstrations Now Available

Submitted by DAVID MAYS (UNIVERSITY OF COLORADO, DENVER)

Do you teach water-related courses such as water quality, fluid mechanics, hydraulics, hydrology, or groundwater? Then you may be interested in a new book, published by the American Society of Civil Engineers (ASCE), entitled *H₂Oh! Classroom Demonstrations for Water Concepts*.



Written by ASCE's Excellence in Water Resources Education committee, this book contains 45 classroom demonstrations that have each been peer-reviewed and tested. Unlike a typical laboratory manual, the emphasis is on short demonstrations that can be incorporated into a classroom lecture, rather than

on extensive laboratory exercises that span the entire class period. Breaking up lectures with short demonstrations is helpful, because education research tells us that the amount of information retained by students decreases drastically after approximately 20 minutes of passive learning.

For each demonstration, the book provides information on the target audience, materials, preparation, delivery, timing, and a brief overview of the principles demonstrated. The demonstrations cater to undergraduates, but many demonstrations can be adapted for middle, high school, or graduate students. For more information, or to place an order (\$40 with free domestic shipping, or \$30 for ASCE members), please visit the following website:

www.asce.org/Product.aspx?id=2147487569&productid=179120845

TENURE-TRACK/TENURED FACULTY POSITIONS

Department of Civil Engineering at The University of Texas at Arlington

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The College of Engineering at The University of Texas at Arlington is building areas of excellence that foster cross-disciplinary, cutting edge research. The Department of Civil Engineering (CE) is recruiting one or more outstanding faculty in these areas of excellence, including urban water, water quality and water resources.

Positions available include a tenure-track assistant professor position in water resources and a senior-level position in environmental engineering and water quality at the associate or full professor level with tenure, depending on qualifications. Highly accomplished individuals may qualify for an endowed professorship.

The successful candidates are expected to participate in the Urban Water Research Center, which Tarrant and Dallas Counties have committed to establish at UT Arlington. Both counties have pledged to provide significant funding toward the establishment of this center, which will focus on interdisciplinary water research for North Texas and beyond.

An earned doctorate degree in civil engineering or a closely related field is required. Candidates must have demonstrated a commitment to quality teaching and scholarly research. Applicants in senior ranks are expected to have an excellent record of research, scholarship, funding and leadership, and a commitment to teaching and mentoring. The department has ongoing projects with industry and inter-disciplinary collaborations with other departments and

colleges on campus. Competitive salaries and research startup funds are available for these positions.

UT Arlington is a doctoral, research-extensive university with a current enrollment of over 33,000 students and is part of the University of Texas System. The University is located in Arlington, Texas, in the Dallas/Fort Worth Metroplex, the fourth largest urban area in the nation. With more than 4,500 students and 23,000 alumni, the College of Engineering (uta.edu/engineering) is the fourth largest in Texas, and has ties to numerous high technology companies in North Texas. The College offers nine baccalaureate, 13 master's, and nine doctoral degree programs.

The CE Department (uta.edu/ce) is a leading department of civil engineering in North Texas, propelled on an upward trajectory due to the rapid growth of urban infrastructures and economic development in the Dallas Fort Worth Metroplex which is home to more than seven million people, projected to exceed 10 million by 2030.

Review of applications will begin on November 1, 2012, and continue until January 15, 2013.

The successful candidate will be required to complete an Employment Eligibility Verification form and provide documents to verify identity and eligibility to work in the U.S. UT Arlington is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply. The use of tobacco products is prohibited on UT Arlington properties. A criminal background check will be conducted on finalists.

FACULTY POSITION ANNOUNCEMENT***Environmental Microbiology/Biotechnology***

*Whiting School of Engineering
Department of Geography and Environmental Engineering
Johns Hopkins University*

The Department of Geography and Environmental Engineering at Johns Hopkins University invites applications for a tenure-track position in environmental microbiology/biotechnology beginning in Fall 2013. We seek applicants with strong scientific foundations who are interested in the application of microbial, molecular biological, or biochemical techniques to systems related to environmental engineering. Examples of relevant research activities include the use of microbial ecology methods and theory, molecular biological tools, including genomic, transcriptomic, and proteomic analyses, to explore cell regulation, microbial communities and organism-organism interactions, biotransformations of contaminants, energy recovery from biomass or waste streams, and studies of the physical aspects of microbial activity, such as chemotaxis and biofilm development. The department is focused on understanding the dynamics and sustainability of natural and engineered systems and the design of strategies, technologies and policies to address critical environmental issues. Information about the department can be found at www.engineering.jhu.edu/~dogee/. The department is multidisciplinary and encourages collaborative research.

Candidates should have a doctoral degree in environmental microbiology, environmental engineering, or a closely related field; demonstrate potential to establish an externally funded research program; and have a strong commitment to undergraduate and graduate teaching. The successful candidate is expected to teach both undergraduate and graduate courses and to lead a team of graduate students in Ph.D. research. Preference is given to applicants at the Assistant or Associate Professor level although exceptional candidates at the rank of Professor will be considered. Send a letter of interest, curriculum vitae, a one or two-page summary of research and teaching interests, relevant papers and publications, and names of five references in a single pdf file to dogee@jhu.edu. We encourage applicants to submit applications by January 15, 2013; however, applications will be reviewed on a rolling basis until the position is filled. For additional information, contact Professor Edward Bouwer (bouwer@jhu.edu). The Whiting School of Engineering is committed to building a diverse educational environment; women and minorities are strongly encouraged to apply. The Johns Hopkins University is an EEO/AA employer.

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