



AEESP Newsletter

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*Need to renew your
2010 AEESP membership?
Go to "Join > membership renewal"
on the AEESP website:
AEESP.org*

AEESP Newsletter Submissions

*Please send news, conference
announcements, job postings, letters
to the editor, and other contributions
to the newsletter to the editor, Joe
Ryan, at joseph.ryan@colorado.edu.
The next newsletter will appear in
January, 2011.*

Presidents' Letter

Transitions

Dear Colleagues,

This letter marks Peter Adriaens' last communication through the newsletter as President and represents a transition to Nancy Love, who will take over as President after the Water Environment Federation (WEF) meeting in New Orleans this October. We're in the unusual situation where both of us are at the same institution as a result

of Nancy's move to the University of Michigan. Please see the accompanying figure for an explanation of how we came to the amicable decision to co-author this letter!

First, let's give you an update on the state of the organization. AEESP is an organization in **transition!** Our collective experience on the Board and with the membership shows that our organization is truly infused with a remarkable and enviable level of professional collegiality and engagement. This is important for an all-volunteer organization, as we only have so much time to give. The Association is strong, both financially and in terms of membership growth, and the AEESP Foundation is on target in its various endowment activities (see Dick Luthy's note on page 3). In the past year, Peter and the Board have provided leadership that builds on our existing relationship with the American Academy of Environmental Engineers (AAEE), and forged a path toward closer collaboration between industry and academe (see Cecil Lue-Hing's contribution on page



President Peter Adriaens and President-Elect Nancy Love play rock-paper-scissors to determine who gets to write the President's Letter for the newsletter. After testing the tenets of this selection process with the actual items, they began a "best $[(n-1)/2] + 1$ out of $n \rightarrow \infty$ " match, but finally compromised by co-writing the letter.

14). Furthermore, recognizing that the field of environmental engineering and science is in **transition**, the Board has developed a Strategic Directions document that we are presenting to the membership for feedback in this newsletter (page 2) and through our Linked-In chat forum. We hope to hear from you! And finally, pen in July 10–12, 2011 for the next biannual AEESP conference to be held in Tampa, Florida (see more on page 5).

During the past year, Peter has provided an important context for the emergent trend of use-driven research and business entrepreneurship, which was central to his presidential initiative. With Greg Characklis at the helm, and with input from academic, industry, and NGO leaders, the initiative has culminated in a hopefully successful NSF workshop proposal. Based on public comments and press releases from university presidents and college of engineering deans, it appears that these themes are becoming

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EMAIL: adriaens@umich.edu

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AEESP Membership Application online:

www.aeesp.org/membership/AEESP_member_app.pdf



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Looking Ahead: Strategic Planning and Directions for AEESP

Every five years or so, the AEESP Board of Directors (BOD) undertakes a review of the strategic direction of the organization to assess our current position, and to respond to the changing pressures and challenges that influence our research, teaching, and service. At the spring meeting of the BOD this year, we engaged an external consultant in a one-day strategic planning exercise to help us probe what we do now, how well we do it, and how we should respond.

A lot of ideas were formed and input from the membership is needed to help prioritize future efforts and initiatives based on the results and ideas of the strategic session. Please take this opportunity to weigh in on how you view the organization's current core services and its strategic direction and the proposed changes and motivation. Some leading questions for your response could include

- What are or what should the core services of the organization be?
- We distilled the strategic directions in four broad areas. Are these areas appropriate? What was missed?
- As a volunteer-run organization we have to focus our efforts. How would you prioritize the directions and activities listed below?

The four strategic directions are

- 1 Expand AEESP's global influence.
- 2 Define the scope and direction for environmental engineering & science curricula
- 3 Facilitate expanded research activity
- 4 Promote the environmental engineering & science community

Full descriptions of each strategic direction and some potential action items were sent out in August through the AEESP email list and were posted to the AEESP website and to the LinkedIn (linkedin.com) discussion board.

Please take a few moments to offer views on what you see as the future of AEESP and how the organization can best serve you, the members, in the future and also help to improve our society at a time when your expertise and abilities are in great need.

Sincerely,
Board of Directors

Newly Elected Board of Directors Members

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 2010 are

- ▶ **Bob Arnold**, University of Arizona
- ▶ **Jennifer Becker**, Michigan Technological University
- ▶ **Benito Marinas**, University of Illinois at Urbana-Champaign

The Board extends congratulations to all of them. The board also extends appreciation to all of the candidates for their willingness to serve AEESP.

Fundraising Advances on Endowment of Charles R. O'Melia Distinguished Educator Award

Submitted by RICHARD G. LUTHY, CHAIR, AEESP FOUNDATION

The AEESP Foundation is pleased to announce that fundraising for the Charles R. O'Melia Distinguished Educator Award has advanced to more than two-thirds of the amount needed to endow this award (\$62,500). The Award recognizes the significant contributions of Professor O'Melia to environmental engineering education and will be awarded to environmental engineering and science professors who have a record of excellent teaching in the classroom and through 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. To make this award possible, a steering committee of Charlie's former doctoral students from the University of North Carolina and Johns Hopkins University worked with the AEESP Foundation to establish an Endowment Fund that will support the award in perpetuity. As we enter the final phase of fundraising, AEESP will provide a total of \$11,250 toward this award in the form of 1:1 matching donations for the final \$22,500. Please consider making a donation to the O'Melia award and your contribution will be matched for double impact. Go to <http://www.aeesp.org/donate> for information on making a donation.



AEESP Lectures and Activities at WEFTEC

AEESP is pleased to announce the following lectures and activities to be sponsored at the Water Environment Federation Technical Exhibition & Conference (WEFTEC), which runs from October 2–6, 2010 in New Orleans, Louisiana.

Special Sessions jointly sponsored by AEESP and WEF

Trace Organic Compounds

Monday, October 4th, 1:30–5:00 pm
Ernest R. Morial Convention Center, Room 357

Water Sustainability

Tuesday, October 5th, 8:30 am–Noon
Ernest R. Morial Convention Center, Room 339

All of the following events occur on Monday, October 4.

AEESP/WEF Research Lecture

Dr. Denny Parker

Senior Vice President—Brown & Caldwell

“Penetration of New Technologies into the Wastewater Industry”

Sponsored by CDM—Camp Dresser & McKee
Monday, October 4th, 10:30 am
Ernest N. Morial Convention Center

AEESP/WEF Scientists Lunch

Dr. Alex McCorquodale

Department of Civil & Environmental Engineering,
University of New Orleans

“Environmental Issues and Coastal Restoration in the Mississippi Delta”

Sponsored by Brown & Caldwell
Monday, October 4th, 11:30 am to 1:30 pm
Ernest N. Morial Convention Center, Room 260–262

AEESP Meet & Greet and Annual Meeting

Sponsored by Carollo Engineers
Monday, October 4th, 5:00 to 7:00 pm
Hilton New Orleans Riverside
(conference headquarters hotel)
Belle Chase Room, 3rd Level

Dates Set for AEESP Distinguished Lecturer David Dzombak

The AEESP Lectures Committee is pleased to announce the schedule for the 2010–2011 AEESP Distinguished Lecture Series by Professor David Dzombak of Carnegie-Mellon University. Dave will be visiting eighteen environmental engineering and science programs in North America during a whirlwind tour from September, 2010, to April, 2011. He will be offering two lectures during his tour:

Need and Challenge of Alternative Water Sources for Use in Electric Power Production

Geologic Sequestration of CO₂: Evaluating and Monitoring Seal Rock Integrity

Dave Dzombak is the Walter J. Blenko Sr. Professor of Environmental Engineering in the Department of Civil and Environmental Engineering at Carnegie-Mellon University and Director of the Steinbrenner Institute for Environmental Education and Research. He is a registered professional engineer in the Commonwealth of Pennsylvania, a Diplomat of the American Academy of Environmental Engineers, a Fellow of the American Society of Civil Engineers, and a member of the National Academy of Engineering. His research interests include water chemistry, fate and transport of chemicals in surface and groundwater, wastewater treatment and reuse, contaminated soil and sediment remediation, abandoned mine drainage remediation, and geologic sequestration of carbon dioxide.

At four of the universities hosting Professor Dzombak—the University of Illinois

at Urbana-Champaign, the University of Nebraska, Missouri S&T, and the University of South Florida—the lectures will be taped and posted on the AEESP website.

For more information, please contact the host school contacts or Dr. Sarina Ergas (sergas@eng.usf.edu).

Date	University	Contact
2010		
September 30	Lafayette College and Lehigh University	David Brandes, brandesd@lafayette.edu
October 1	University of Maryland	Allen P. Davis, apdavis@umd.edu
October 8	University of Cincinnati	Dion Dionysiou, dionysios.d.dionysiou@uc.edu
October 14	University of Notre Dame	Rob Nerenberg, nerenberg.1@nd.edu
October 15	University of Illinois at Urbana-Champaign	Tim Strathmann, strthmnn@illinois.edu
October 22	University of Buffalo	John van Benschoten, jev@buffalo.edu
November 19	Stanford University	Lynn Hildemann, hildemann@stanford.edu
2011		
January 24	Arizona State University	Peter Fox, peter.fox@asu.edu
January 25	University of Arizona	Reyes Sierra, rsierra@email.arizona.edu
January 27	University of Washington	Gregory Korshin, korshin@uw.edu
February 2	Duke University	Helen Hsu-Kim, hsukim@duke.edu
February 4	University of South Florida	Jeff Cunningham, cunning@usf.edu
February 14	Louisiana State University	Louis Thibodeaux, thibod@lsu.edu
February 16	University of Oklahoma	David Sabatini, sabatini@ou.edu
February 23	University of Nebraska–Lincoln	Bruce Dvorak, bdvorak@unl.edu
March 10	University of Iowa	Keri Hornbuckle, keri-hornbuckle@uiowa.edu
March 17	Missouri University of Science & Technology	Joel Burken, burken@mst.edu
April 1	Clarkson University	Susan Powers, sep@clarkson.edu

2011 AEESP Education and Research Conference

Submitted by MAYA TROTZ and JEFFREY CUNNINGHAM (CO-CHAIRS), WAYNE ECHELBERGER, SARINA ERGAS, JAMES MIHELICIC, LINDA PHILLIPS, PETER STROOT, AMY STUART, DANIEL YEH, and QIONG ZHANG

The University of South Florida will host the 2011 Association of Environmental Engineering and Science Professors (AEESP) Education and Research Conference. The conference will take place July 10, 2011 (Sunday)–July 12, 2011 (Tuesday) in Tampa, Florida. The theme of the conference is *Global Sustainability and Environmental Engineering and Science: Implications for Research, Education, and Practice*.

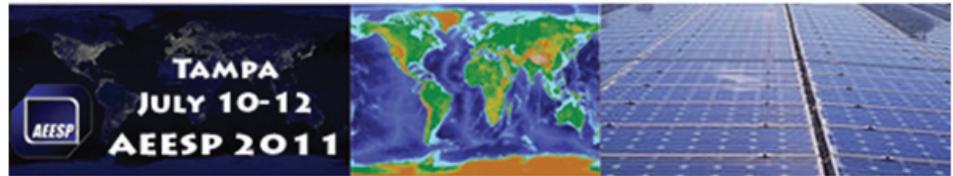
The theme will be highlighted by contributions for research, education, and practice and include the following six tracks:

- 1 Advances that deal with water depletion and degradation
- 2 Advances that assess and improve waste management and air quality
- 3 Infrastructure that serves an expanding and urbanizing population
- 4 Vulnerability and adaptation to climate change
- 5 Global issues in Environmental Engineering and Science
- 6 Energy as a cross-cutting theme

Several plenary speakers will provide a vision of the future for research, education, practice, and service. The conference will also include an AEESP Legacy Week where our legacies (i.e., individuals who were instrumental in the establishment of AEESP and our discipline) are invited to be honored and participate. The conference organizers also plan to engage our assistant professor members, including setting up a breakfast with current and past Board members and committee chairs.

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 10, the first day

GLOBAL SUSTAINABILITY AND ENVIRONMENTAL ENGINEERING & SCIENCE: IMPLICATIONS FOR RESEARCH, EDUCATION, & PRACTICE



of the conference. Two types of workshops proposals are requested:

1. **How do I teach?** These workshops will present the tools of the trade, example syllabi, suggested textbooks, etc., and are designed to help faculty with the development of new courses or the improvement of old ones. Topics might include: *How do I teach environmental engineering and science concepts? Green engineering? Air quality to transportation students? Global climate change?* The time slots for these workshops will be 1.5 hours.
2. **Workshop proposals on any topic of interest to environmental engineering and science professors.** Workshops at the 2009 AEESP conference in Iowa included *Getting Things Done*, *Integrating Sustainability*, and *Academic Job Search*. The time slots for these workshops will be 3 hours.

Please send a one-page description of your proposed workshop that will be suitable for posting on the conference website. Describe the topic and intended audience 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. Workshop proposals should be sent to Sarina Ergas (sergas@eng.usf.edu) by December 15, 2010.

Further information will be provided this fall on registration and the deadline for submitting abstracts for review. We expect the deadline for submitting abstracts to be sometime in early 2011. A later deadline will be provided for student poster submissions,

to allow for the submission of late-breaking research by students. Submitted abstracts will be reviewed by session chairs and recommendations will be made to the conference co-chairs.

The conference includes a Sunday Welcome Beach Party, a Monday reception and AEESP Awards Ceremony that will take place at the Florida Aquarium in downtown Tampa, and a Tuesday Poster Session/Social at the USF Interdisciplinary Research Building followed by an evening Legacy Dinner.

The web site (<http://aeesp2011.com>) includes information on several lodging options. We have secured a variety of housing options, including \$109/night lodging at the conference hotel, the Embassy Suites Tampa USF, which is located a short walk to conference activities at the USF Marshall Student Center.

Tampa provides a vast range of activities, both family-friendly and for single attendees. Many activities are available within walking distance of the USF campus; others are within a short drive. For example, the Conference headquarters is located within one mile of Busch Gardens, Adventure Island, the Yuengling Brewery, the Museum of Science and Industry, and USF's Botanical Gardens and Riverfront Park. Nearby nightlife includes historic Ybor City, known as Tampa's Latin Quarter, and SoHo Tampa, an entertainment district within Tampa's Hyde Park section.

We look forward to seeing you next summer. If you have any questions, please email us at info@aeesp2011.com.

Conference Web Site: <http://aeesp2011.com>

Wiki Website for Students

Submitted by STUDENT SERVICES COMMITTEE

The AEESP Student Services Committee is developing a wiki website to provide information and resources for students. The wiki format was chosen to make the site interactive and allow input from a multitude of users. We invite you to visit the site, sign up as a user, and contribute. The address is <http://environmentalengineeringscience.wikispaces.com/>. We are specifically requesting the following contributions:

- Tips for seekers of business-sector and non-profit careers in the “Careers” section;

- Links to LinkedIn public profiles or research group website from faculty and research associates;
- Entries for professional organizations (international, national, or local) to be promoted in the “Organizations” section; and
- Links to available opportunities in the “Scholarships and Fellowships” section.

Ideally, this will be just the beginning. If you have other ideas for information that could be added, let us know...or simply add it! The main contact for suggestions and questions is David Ladner (ladner@clermson.edu). You can also contact Defne Apul (defne.apul@utoledo.edu) or Andy Whelton (ajwhelton@gmail.com).



Publishing

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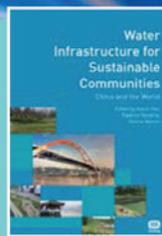
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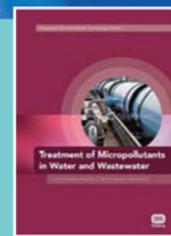
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Daniel Oerther Joins Missouri University of Science and Technology

Missouri S&T is proud to welcome Dr. Dan Oerther as the John A. and Susan Mathes Chair in the Civil, Architectural, and Environmental Engineering Department and as Director of the Environmental Research Center. Dan holds a Ph.D. in environmental engineering from the University of Illinois. He spent the past ten years at the University of Cincinnati where he most recently served as the Director of the Ohio Center of Excellence for Sustainable Urban Environments and Head of the Department of Civil and Environmental Engineering.

His current research interests include diagnosing clinical bacterial infections, developing metagenomic markers for microbial source tracking, crowd sourcing as an inexpensive means of mining bioinformatic data, and combating the obesity epidemic through sustainable living choices. He was awarded a Fulbright Fellowship to teach in India in 2006. In 2009, his work to bring potable water to 20,000 villagers in Tanzania was recognized with the Honor Award from the American Academy of Environmental Engineers. Dan's technical expertise, broad interests, and dedication to environmental engineering education are welcomed to Missouri S&T and compliment expertise in advanced wastewater treatment, indoor air pollution, phytoremediation, water treatment in developing countries, and the fate and treatment of emerging contaminants.

Dan currently serves on the AEESP Board of Directors. Previously, he served as chair and member of the Awards Committee. His efforts in research, teaching, and service have been acknowledged as recipient of the AEESP/Montgomery Watson Master's Thesis Award and the AEESP Outstanding Educator Award.



Dan Oerther

Jahan Receives Sharon A. Keillor Award

Kauser Jahan, Professor of Civil and Environmental Engineering at Rowan University, was awarded the Sharon A. Keillor Award for Women in Engineering Education by the American Society for Engineering Education. She was recognized for her strong record in the integration of undergraduate research that promotes intellectual development of students and quality mentoring into her teaching activities. She has mentored students at all levels (undergraduate and graduate) in funded research activities that have led to numerous awards at professional competitions. She has promoted the participation of students in state and national conferences to help them develop as professionals and be exposed to the practice of engineering.



Kauser Jahan

Kauser's most recent NSF project, "Hands on an Aquarium" is an innovative partnership with the New Jersey Academy for Aquatic Sciences and a local county college. She developed a program called "Engineers on Wheels" which uses a retrofitted van to bring engineering activities to local school districts. She was instrumental in establishing the "Attracting Women into Engineering" program at Rowan University. She has led two NSF Research Experiences for Undergraduates in Pollution Prevention and Sustainability.

Kauser received the B.S.C.E. degree from the Bangladesh University of Engineering and Technology, the M.S.C.E. degree from the University of Arkansas-Fayetteville, and the Ph.D. degree from the University of Minnesota-Minneapolis. She also received the 2006 New Jersey American Society of Civil Engineering Educator of the Year award and the 2007 Gary J. Hunter Excellence in Mentoring Award from Rowan University.

AEESP e-Newsletters

Want to go paperless for the AEESP Newsletter? If you wish to receive only the link for obtaining an electronic copy of the Newsletter, send a brief message to Joanne Fetzner at joanne@aeesp.org and we will remove you from the mailing list beginning with the January 2011 issue.

John Fortner and Brent Williams Join Washington University in St. Louis

Dr. John Fortner and Dr. Brent Williams have joined the Department of Energy, Environmental, and Chemical Engineering (EECE; www.eec.wustl.edu), as assistant professors for the Fall 2010 semester. The appointments of Dr. Fortner and Dr. Williams continue the growth of the EECE department in environmental engineering. They are contributing to the Department's Engineered Aquatic Processes and Aerosol Science and Technology cluster areas.



John Fortner



Brent Williams

Dr. John Fortner recently completed an Intelligence Community Postdoctoral Research Fellowship at Rice University. He held previous postdoctoral positions at Georgia Tech and ETH-Zurich. He received his Ph.D. degree in Environmental Engineering from Rice University in 2006, and his doctoral thesis was awarded the CH2M Hill/AEESP 2007 Outstanding Dissertation Award in Environmental Engineering. Dr. Fortner's research is focused on environmental implications and applications of emerging, engineered, nanoscale materials. He has extensively studied the environmental fate and biological impacts of fullerenes (e.g., C₆₀ and carbon nanotubes) in aqueous systems. In the area of sensing, Dr. Fortner is developing nanoscale iron-based materials for detecting low levels of heavy metals. He is using related materials in novel treatment processes for the removal of arsenic from drinking water. In addition to studying the processes in the laboratory, he has developed an on-site, pilot-scale reactor in Central Mexico. Dr. Fortner will teach Introduction to Environmental Engineering in the 2010-2011 academic year and

he will be developing a new course on environmental organic chemistry.

Dr. Brent Williams obtained his Ph.D. degree from University of California-Berkeley. He was a postdoctoral fellow at the University of Minnesota and a postdoctoral scientist with Aerodyne Research, Inc. Dr. Williams' research has focused on developing novel organic aerosol measurement instrumentation. He has successfully deployed and operated this instrumentation in multiple large-scale international and domestic field campaigns that investigated issues ranging from urban and agricultural pollution to the long-range transport of pollutants. His work has advanced our understanding of chemical and physical processes that result in the formation of particles and nanoparticles in the atmosphere. He has also developed new instrumentation for *in situ* chemical speciation of both gas-phase and particle-phase materials present in Earth's atmosphere. His paper "An in-situ instrument for speciated organic composition of atmospheric aerosols: Thermal desorption Aerosol GC/MS-FID (TAG)" is one of the top 10 cited papers in the journal *Aerosol Science and Technology* (volume 40, pages 627–638). At Washington University, he is setting up an aerosol mass spectrometry facility that will enable studies of particle formation in systems that include the ambient atmosphere, combustion systems, and nanoparticle reactors. Dr. Williams will teach classes in chemical thermodynamics and atmospheric sciences, and he will advance education at the university on global climate change.

John McCray appointed Director of Environmental Science and Engineering Division at Colorado School of Mines

The Environmental Science and Engineering Division at Colorado School of Mines (CSM) is pleased to announce the appointment of a new Director, Professor John E. McCray. John has been a faculty member in the Environmental Science and Engineering Division for the past six years. He also served on the faculty of the Department of Geology and Geological Engineering at CSM and at the Jackson School of



John E. McCray

Geosciences at the University of Texas. He recently served as Director of the Hydrologic Science and Engineering Graduate Program at CSM. He teaches and conducts research in the area of chemical hydrology, including watershed hydrology, subsurface remediation, soil-based water reclamation, and carbon sequestration. He earned a Ph.D. degree in Hydrology and Water Resources at the University of Arizona, an M.S. in Environmental Systems Engineering from Clemson University, and a B.S. in Electrical Engineering from West Virginia University. John enjoys mountain biking, trail running, family outings, and travel.

Finneran and Ladner join Clemson University

Dr. Kevin Finneran and Dr. David Ladner have joined the Department of Environmental Engineering and Earth Sciences at Clemson University for the Fall 2010 semester.

Kevin Finneran received his Ph.D. in microbiology at the University of Massachusetts at Amherst in 2001. He spent three years at GeoSyntec Consultants in the Boston area prior to joining the University of Illinois at Urbana-Champaign Department of Civil and Environmental Engineering as an assistant professor. Kevin left Illinois in 2010 to join the Department of Environmental Engineering and Earth Sciences (EEES) at Clemson as an associate professor. His research focuses on bioremediation of organic and inorganic contaminants, biofuel production by altering microbial metabolic pathways, and sustainable remediation. He is a co-editor-in-chief of the *International Journal of Soil, Sediment, and Water*. He also served as the academic member of the Battelle 2010 Conference on Remediation of Chlorinated and Recalcitrant Compounds, and is currently an academic liaison to the Sustainable Remediation Forum (SuRF; www.sustainable-remediation.org).

David Ladner comes to Clemson most recently from Arizona State University, where he was a postdoctoral scholar with Professor Paul Westerhoff in the School of Sustainable Engineering and the Built Environment. There, he studied nanoparticle interactions with water-treatment membranes. David received his Ph.D. in Civil and Environmental Engineering from the University of Illinois at Urbana-Champaign in October, 2009, where he worked with



Kevin Finneran



David Ladner

Professor Mark Clark. His dissertation topic was membrane fouling in desalination facilities facing red tide algal blooms. His M.S. work was also completed at Illinois in 2005 on a laser-scanning-cytometry instrument for bacterial detection in membrane processes. David's B.S. degree was obtained in 2003 in his home state at the New Mexico Institute of Mining and Technology.

They are joining a program ranked in the top 25 by *U.S. News and World Report*. Research activities in the department include process engineering (targeted at water, wastewater and air treatment, and soil and groundwater remediation), environmental health physics (ABET/ASAC accredited), environmental chemistry, environmental fate and transport, sustainable systems and environmental assessment, environmental radiochemistry and hydrogeology. The department is starting a new undergraduate degree in Environmental Engineering in the Fall of 2010 with the first cohort of 25 students. The Department has 20 full-time faculty members, more than 20 adjunct faculty, and more than 70 graduate students. Excellence in environmental engineering has been a tradition at Clemson University for many years. It is the only program 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 four NSF CAREER award recipients. EEES faculty also published five books in the past decade.

Presidents' Letter, continued from page 1

key to a well-rounded university education in the 21st century. It should be no surprise, therefore, that these themes emerged among the AEESP's strategic directions. Also in line with the strategic direction is AEESP's effort to expand our borders to have a more global influence. In that spirit, AEESP and the Environmental Engineering Education (E3) specialty group in the International Water Association (IWA) are engaging in conversations on how to cooperate in order to engage our global community (look for more on this through the AEESP email list and website).

We hope to see many of you at the upcoming Awards Ceremony at

WEFTEC on October 4 in New Orleans. At that time, Peter will ride off into the sunset as a Past President and Nancy will move into the saddle. In anticipation of the leadership **transition**, Peter wants to thank the AEESP membership, the committees, the Board of Directors, and Joanne Fetzner for their support over the past year. Nancy wants to thank Peter for his leadership and vision as President, and is honored and excited to have the opportunity to serve the AEESP membership as President.

Be well and we'll see you in New Orleans!

Seager and Torres Join Arizona State University

The Ira A. Fulton Schools of Engineering at the Arizona State University announce the additions of Thomas Seager and César Torres to the faculty.

Thomas P. Seager joined the School of Sustainable Engineering and the Built Environment as an associate professor in August 2010. Seager is formerly a founding faculty member at the Golisano Institute for Sustainability at Rochester Institute of Technology and led development of their Ph.D. curriculum in sustainability. He works at the leading edge of an integrative, transdisciplinary approach to engineering education and research and is currently leading projects related to ultra-low energy community infrastructure, ethics education for science and engineering graduate students, and the life-cycle environmental implications of single-walled carbon nanotubes in energy applications. Seager is the author of 24 journal articles on topics including resilience in the context of coupled ecological-engineering systems and stochastic approaches to understanding stakeholder value choices in the context of life-cycle assessment. He has authored over two dozen other articles, books chapters, or refereed conference papers. He earned his Ph.D. in Civil Engineering at Clarkson University in 2001 and previously held faculty appointments at Hudson Valley Community College, Purdue University, and the University of New Hampshire.



Thomas Seager



César Torres

Dr. César Torres joins the Departments of Chemical Engineering and Civil, Environmental, and Sustainable Engineering as an assistant professor this fall. Torres is a leader in microbial electrochemical cell research. He focuses on the microbial kinetics of anode-respiring bacteria (ARB) and extracellular electron transport to and from solid electrodes. He combines biofilm modeling and electrochemical, microscopic, and analytical techniques to characterize ARB kinetics and thermodynamics. He has also developed techniques to enrich and isolate ARB from soils and sediments and various engineering approaches to increase the efficiency of microbial electrochemical cells. He has published 15 journal articles on this topic. He plans to focus on fundamental studies of interactions between bacteria and electrochemical systems and to apply electrochemical techniques to several environmental engineering processes. Torres completed his B.S.E. in chemical engineering at University of Puerto Rico-Mayagüez in 2002. In 2005, he completed his M.S. in environmental engineering at Northwestern University, where he examined total nitrogen removal, anaerobic digestion, and biohydrogen production. He completed his Ph.D. degree at Arizona State University in May 2009 and continued as a postdoctoral researcher in the Center for Environmental Biotechnology at the Biodesign Institute at Arizona State University. Dr. Torres will continue his association with this Center.

Mónica Palomo Participates as Visiting Scholar at the Inland Empire Utilities Agency

Professor Mónica Palomo, an assistant professor in the Department of Civil Engineering at California State Polytechnic University-Pomona, spent the summer as a visiting scholar at the Inland Empire Utilities Agency (IEUA). IEUA is a leading agency on innovative and sustainable engineering practices in California. At IEUA, Dr. Palomo was able to work with experts on reclaimed/groundwater management, replenishment, and monitoring practices. She plans to enhance her future undergraduate



Mónica Palomo

research projects through continuing collaborations with IEUA. Her participation as a visiting scholar was funded by a Career Development Award from the NSF ADVANCE grant at Cal Poly-Pomona.

Palomo joined Cal Poly-Pomona's Civil Engineering Department in the fall of 2008. Her expertise is in water and wastewater quality and treatment. Since her arrival, she has been dedicated to the development of projects that provide research and travel opportunities for undergraduate civil engineering students. The projects have highlighted the importance of water management and environmental issues so critical to our nation and California in particular, where water shortages threaten the state's growth, agriculture, and economy.

University of Pittsburgh Welcomes Vikas Khanna

Dr. Vikas Khanna is joining the Department of Civil and Environmental Engineering at the University of Pittsburgh. He received his B.E. degree in Chemical Engineering from Panjab University in India. Before entering graduate school, he worked as a process engineer with Technip KT India, Ltd. He received his Ph.D. degree in Chemical Engineering with a dual Masters in Applied Statistics from the Ohio State University. His doctoral work focused on the environmental evaluation of emerging nanotechnologies and multi-scale modeling for environmentally-conscious design of chemical processes. Before joining the University of Pittsburgh, Dr. Khanna worked as an associate engineer at ConocoPhillips, where his research focused on the life-cycle environmental evaluation for advanced biofuel technologies. Dr. Khanna was a recipient of the prestigious presidential fellowship at the Ohio State University and the Christine Mirzayan Science and Technology Policy Fellowship at the National Academy of Sciences in the United States.

Dr. Khanna's research interests are in the general areas of sustainability science and engineering, life-cycle assessment, and role of environmental policy in engineering decision-making. His current focus is on studying the life-cycle environmental impacts of hydrocarbon biofuels that can act as drop-in replacements for fossil fuels. His previous work on the environmental evaluation of nanotechnology highlighted the energy-intensive nature of several engineered nano-materials and nano-products. Dr. Khanna is also developing integrated economic-environmental models for evaluating the role of environmental policies such as carbon tax and cap-and-trade regulations.



Vikas Khanna

Erik Christensen named UWM Distinguished Professor

Erik Christensen of the University of Wisconsin-Milwaukee's Department of Civil Engineering and Mechanics was named a UWM Distinguished Professor by the University of Wisconsin system. The designation recognizes faculty who have an international distinction in their field as evidenced by a record of distinguished scholarly contributions and accomplishments that have contributed to, advanced, and had a significant impact on their field of study.



Erik Christensen

Dr. Christensen's research activities relate to source apportionment and degradation of aquatic pollutants. He has also contributed to dose-response modeling in ecotoxicology and modeling of nutrients and pollutants in watersheds from nonpoint sources. Throughout his career, he has received significant funding for his research from the U.S. National Science Foundation as well as from other federal and state agencies. In 2010, he received a five-year NSF grant for an Industry University Cooperative Research Center on Water Equipment and Policy collaborating with Marquette University. He convened the first International Water Association specialist conference on sediment contamination and remediation in Milwaukee and co-chaired an NSF-sponsored workshop on research needs for coastal pollution in urban areas, also held in Milwaukee. Sabbatical visits have included the Technical University of Denmark and the University of Southern California. He is a fellow of the American Society of Civil Engineers, and serves as associate editor for the ASCE *Journal of Environmental Engineering* and the International Association for Great Lakes *Research Journal of Great Lakes Research*.

IN MEMORIAM

Harvey F. Ludwig, 1916–2010

by TIM SHEA, CH2M-HILL

Many outstanding engineers and scientists have shaped our field since its inception. Harvey F. Ludwig was one of the legends. Harvey had a “presence” as a personality and as an engineer.

The legend started probably as a graduate student at Berkeley working with Professor Wilfred Langelier on coagulation. Harvey conducted some 5000 jar tests, which resulted in landmark papers and ensuing awards. As a professor at Berkeley (1949–51), he helped to secure the land for what became the Richmond Field Station and formed at the same time a lifelong friendship with Professor Erman Pearson (1920–1985). Harvey’s national legacy was due to shaping environmental legislation and policy during his years (1951–56) as assistant to Dr. Mark Hollis, the Chief Sanitary Engineer at the U.S. Public Health Service. We live today with the legislative framework that Harvey helped build. This experience helped in advising governments in southeast Asia on their own environmental legislation. Harvey also presided over funding of research in sanitary engineering to selected universities, which helped to establish strong graduate programs in the mid-1950s and 1960s. He had a role in establishing the Robert A. Taft Sanitary Engineering Center building in Cincinnati, making sure that “engineering” was in its name and that an engineer would be named its director.

In 1957, Harvey and partner Joe Feeney founded Engineering-Science in Arcadia, California. The firm grew in size and reputation and by 1966 had offices in Austin, TX, and Washington, DC. Harvey’s business model for Engineering-Science was to staff the firm with graduate-level engineers and scientists and to offer designs and studies founded on science as opposed to traditional empiricism. Harvey recruited graduates from the network

Dear All:

I am sad to tell you that Harvey just passed away peacefully on Saturday night 24 April 2010. He was 94 years old. He was a great person, good husband, great father, and good friend. He will be missed and we all love him.

Kind regards,

Vanida Ludwig

of professors he developed while with the U.S. Public Health Service. By the mid-1960s, Engineering-Science had emerged as a leading firm in environmental consulting. By this time, Harvey’s name and accomplishments and the reputation of Engineering-Science were a part of the lexicon of those in the field. Harvey was mentor to a host of young engineers and scientists who would later emerge as prominent, some as Engineering-Science leaders.

Along the way, Harvey had had a role in virtually every major development in the field. He was still a player in the U.S. Public Health Service’s Division of Water Supply and Pollution Control through frequent conversations with the Chief, Gordon MacCallum, a long-time colleague. MacCallum later joined Engineering-Science and opened the Washington, DC, office. Harvey was the leader in the founding of the American Academy of Environmental Engineers (incorporated in 1955 as the American Sanitary Engineering Intersociety Board). He later supported the founding in 1963 of the Association of Environmental Engineering Professors (AEESP) under the leadership of Professor Erman Pearson.



Harvey’s honors tell much about his accomplishments and standing in the field. He received major awards for accomplishments on his own and with others—the AWWA Goodell Award in 1942, the WEF Harrison Prescott Eddy Medal in 1954, the ASCE Rudolph Hering Medal in 1956 and again in 1959, an honorary doctorate from Clemson University in 1965. He was elected to the National Academy of Engineering (NAE) in 1969. In 1999, Harvey was named an Honorary Member of the American Academy of Environmental Engineers and was recognized as a University of California Distinguished Engineering Alumnus.

Harvey authored or co-authored some 300 papers, eight textbooks, and some other self-published books. His 1985 autobiography, *Adventures in Consulting Engineering*, includes every detail of his life—parents, childhood, growing up in a tough Los Angeles neighborhood, education, professional life, and his family. Harvey was a “people-person” and was not reticent to express his opinion of others, which included prominent persons who had opposed some of his many initiatives. It’s not surprising that he had many persons in his camp and some outside.

The passing of Harvey Ludwig leaves a void in our profession, and in his family including his wife, Vanida, and five adult children. Harvey was disseminating his frequent e-mails (to

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Students I have Known and What They Have Taught Me (Part IV)

Submitted by P. AARNE VESILIND, BUCKNELL UNIVERSITY

The last three issues of the AEESP Newsletter had some stories of memorable students. Here is another group.

John

Can people self-destruct? Can they sometimes intentionally shoot themselves in the foot?

Consider John. He was a very bright Ph.D. student who could not find an adviser. His area of interest was close to mine when he first came to us, and we actually finished a master's degree together, but then he decided to start shopping around for a different Ph.D. adviser. He systematically went through at least six other faculty members, trying them out for a while and then rejecting their help and their projects. This game of musical advisers did not make the faculty happy, of course, and some of them started to ask if he ought to be encouraged to quit the program.

About the time John was running out of advisers, I approached him with a project idea and suggested that we should again try to work together. Just as this was about to happen, he decided to find a part-time job in a governmental agency. I knew this was the end, but I could not dissuade him from taking the job. Sure enough, his days at the university decreased steadily until we hardly saw him at all, and eventually I found that he had gone full-time with the agency.

John had all the smarts to do a very fine Ph.D. dissertation. What was it that made him invent reason after reason for not completing the degree? This is one of the most frustrating aspects of working with graduate students—the inability to understand what drives them and then to use that knowledge to help them construct the best educational experience. I learned from John, and a few others who never finished, that doing a Ph.D. requires a special hunger and commitment, and that this I could not teach.

Linda

I like teaching, and I think I am good at it. I used to spend several hours preparing for each class, orchestrating it with events and activities such as quizzes (and music!). I also had a case of nerves before every one of my lectures. My wife learned to give me wide berth during breakfast if I had a lecture coming up because I was often not a very nice person when I was nervous. This behavior was so normal to me that I believed that everyone who teaches in a college classroom does the same thing.

Linda was a Ph.D. student who wanted to earn money and experience by presenting some lectures in a course I was teaching. She was eminently qualified, and I had no trouble putting her in the classroom, knowing that her experience and skills would complement mine and

the students would benefit from having her in the classroom. Unfortunately, I started to hear some rumblings about her teaching, and I was trying to find a nice way of asking her if I could sit in on some of her classes.

Then one morning she came to my office after her class and told me, "You know, I discovered something today. If you prepare for the class, it goes much better."

I was speechless. Prepare? Had she not been preparing for the classes? And indeed, gentle prodding soon revealed that she had just gone into the classes with some sketchy ideas of what was to be covered, and winged it. I proceeded to describe to her what I do, and she was quite surprised.

"You do all that?" she wanted to know.

Yes indeed, I assured her. And after every class I would write down in my notebook those things that went well and those things that did not go well in the classroom so I could remember them next year.

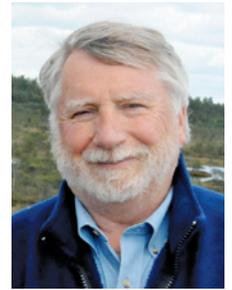
This experience with Linda taught me that students generally have no idea of the work that goes into preparing for an effective learning experience. She also taught me that in the future when I asked students to teach, I needed to work with them ahead of time. This teaching business is not always intuitive.

Lee

One of our assistant professors did not receive tenure. Bitterness followed and the professor left quickly, abandoning some of his graduate students. One of the abandoned students was nearing the completion of his Ph.D. research, but there were no other faculty who could readily take over advising him in this research. It looked like the student was going back to Taiwan without his degree, which would have been a severe embarrassment. So I offered to help him, provided we revise the committee to make sure critical areas that I did not know well would be covered. We worked long hours and finally got to where his work was going well and by Christmas, it looked like he would finish in time for the May graduation.

I was in my office when he appeared with a large package tied up in a big red ribbon. He told me it was my Christmas gift. I tried to explain how it would be inappropriate for me to take the gift because others might find out about it and assume that gift enhanced his chances of a successful defense even though he and I knew that it would have no bearing on how he would finish.

His feelings were terribly hurt. He had obviously spent quite some time and probably money in finding just the right present. I felt



P. Arne Vesilind

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AAEE and Academia

by JAMES W. PATTERSON, BCEEM, and MICHAEL W. SELNA, BCEE

The American Academy of Environmental Engineers (AAEE) was founded in 1955 as the American Sanitary Engineering Intersociety Board for the principal purpose of improving the practice, elevating the standards, and advancing public recognition of environmental engineering through a program of specialty certification of highly qualified engineers. The original sponsoring organizations were ASCE, APHA, ASEE, AWWA, and WPCF (now WEF). In addition to the founding sponsors, current sponsoring organizations include A&WMA, AEESP, AIChE, ASME, APWA, NSPE, and SWANA.

AEESP became a sponsoring organization of AAEE in 1977. The two organizations have a long history of cooperation in the advancement and recognition of environmental engineering education and state-of-the-art practice. Examples include the annual Kappe Lecture Series and the Pohland Award, both jointly sponsored by AEESP and AAEE. The Kappe Lectures share the knowledge of today's most respected practitioners with tomorrow's environmental engineers at events hosted on university campuses.

Board-certified membership in AAEE requires specialty certification in one of the following areas of environmental engineering: air pollution control, environmental sustainability, general environmental engineering, hazardous waste management, industrial hygiene, radiation protection, solid waste management, and water supply and wastewater. Board-certified AAEE members are internationally recognized for their expertise and leadership in environmental engineering.

AAEE has more than 160 Board-certified members representing academia. A candidate for BCEE (Board-Certified Environmental

Engineer) or BCEEM (Board-Certified Environmental Engineering Member) must satisfy educational and professional experience requirements and is evaluated by an AAEE panel of peers to ascertain his or her competency in one of the above specialty areas. The BCEEM category is relatively new and does not require a professional engineer's license.

AAEE also offers two other categories of membership. Academy Members are professionals in the early phase of their environmental engineering career on a professional development track leading to full specialty certification. AAEE also provides a venue for student membership and sponsors student chapters and Tau Chi Alpha environmental engineering honor societies, as well. Student Members must be enrolled and pursuing a course of study leading to a degree in environmental (or a related branch of) engineering. Student membership is a first step in a candidate's lifelong career in environmental engineering and the Academy offers numerous Student Member benefits.

If you would like to learn more about AAEE, visit the website www.aee.net. If you plan to attend WEFTEC 2010 in October, you are invited to visit the AAEE booth and meet AAEE Executive Director Joe Cavarretta and AAEE President Cecil Lue-Hing. Joe Cavarretta and the two authors of this article will also be at the WEFTEC 2010 AEESP Meet and Greet and would be pleased to provide information during or after that event.

Our two organizations share many common goals and interests, and we look forward to continued and expanded professional and educational collaboration.

Students I Have Known, continued from page 13

terrible in having to disappoint him, and I am not sure he understood the ethics of my argument.

I learned from Lee that students sometimes want to express their gratitude and admiration for professors, but often do not know how to do it properly. I know that I owe a great deal to my professional

mentor, but am not sure how to express this gratitude. Should we have a "Professor's Day" to go with Mother's Day and Father's Day so we can make it easier to express our feelings and to remind us once a year that we are who we are because a few special people helped and guided us along the way?

Center for Sustainable Engineering: Workshops on Teaching Sustainability Concepts in Engineering Courses

Held since 2006, Center for Sustainable Engineering (CSE) workshops for faculty members teaching engineering courses will again be offered by the CSE, a partnership of Syracuse University, Carnegie Mellon University, the University of Texas at Austin, Arizona State University, and Georgia Institute of Technology. Two similar workshops will be held on May 23–24 and May 26–27, 2011 in Syracuse, NY. The first will be slightly more oriented toward instructors without prior experience in teaching concepts in sustainable engineering, while the second will be slightly more oriented toward instructors with at least some prior experience. Each workshop will start at 9:00 am on the first day and will adjourn by 3:30 pm on the second day so participants can catch flights home the same evening.

Each workshop will accommodate 30 participants. Faculty members from accredited engineering departments at four-year colleges and universities in the U.S., who are U.S. citizens or permanent residents and have not participated in any previous CSE workshops, are eligible to apply. Participants will be chosen based on a competitive application process. All participants are expected to pay their own travel costs to the workshop. NSF will cover the expenses of the workshop, including food, lodging and workshop materials.

Applications will be accepted starting in November 2010 and continuing until January 15, 2011. For further information, see <http://www.csengin.org> or contact Ms. Tamara Rosanio at trosanio@syracusecoe.org.

Harvey F. Ludwig, 1916–2010, continued from page 12

over sixty friends, family, and colleagues) to within a few weeks of his passing on April 24, 2010. He had opinions on every issue including global warming, economic crises, education, the European Union, graft and what to do about it, appropriate technologies and environmental standards for developing countries, and more. He tried to advance the issue of appropriate technologies for developing countries at every opportunity, including writing textbooks on the topic. Harvey as a personality and as an engineer is not only a legend, but an institution. His influence continues.

Purdue Industrial Waste Conference Proceedings

by KATHY BANKS, PURDUE UNIVERSITY

The Purdue Industrial Waste Conference Proceedings (1948–1997) are now available online at <http://earchives.lib.purdue.edu/redesign/about/engineering/>. The conference presented research on pollution control in an industrial setting. The entire collection can be searched by keyword, title, and author and can be viewed year-by-year.

ADVERTISEMENT

WATER AND HEALTH: WHERE SCIENCE MEETS POLICY

Conference and Networking Weekend Events

OCTOBER 25-26, 2010
University of North Carolina at
Chapel Hill, NC, USA

This year's **Water and Health: Where Science Meets Policy** conference includes the first networking weekend to take place alongside main conference activities.

Don't miss the opportunity to collaborate with and learn from the unique array of national and international experts.

For more information and to register, visit:
www.ie.unc.edu/water2010

Or contact us: wh2010@unc.edu,
or (919) 962-0965.



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

**Weekend Networking Events
on October 23-24, 2010:**

*Household Water Treatment and Storage:
Convening of the International Network*

*Health Impact Assessment: Principles
and Practice*

World Health Organization

Hygienic Risks of Sanitation Systems

International Water Association

**Specialist Group on Sanitation
and Water Management**

*Water Safety Plans: Identifying Future
Research Priorities*

**U.S. Center for Disease Control
and UNICEF**

*Meeting of the Universities Consortium
for Global Water, Sanitation and Hygiene*

**Center of Strategic and
International Studies**

*Microfinancing for Water, Sanitation,
Hygiene & Environmental Projects*

Africa Safe Water Foundation

*Molecular Methods for Characterizing and
Measuring Recreational Water Quality*

U.S. Environmental Protection Agency

8th Asia Pacific Conference on Sustainable Energy & Environmental Technologies

Following the success of the previous conference in China, the 8th APCSEET is to be held in Adelaide, South Australia, from 10–13 July, 2011. The conference is being hosted by the Centre for Energy Technology (CET) at the University of Adelaide.

APCSEET is an international biennial forum for scientists, engineers, planners, policy-makers, and managers to interact, report, and identify opportunities in the invention, design, development, and implementation of sustainable energy and environmental technologies. APCSEET 2011 will be an extended scientific conference to engage industry, government, and universities, and showcase the cutting edge of science, technology and engineering with particular attention and reference to issues from the Asia-Pacific region. The conference themes include

- Renewable energy (solar, geothermal, wind etc.)
- Greenhouse gas mitigation technologies
- Energy conservation and efficient use of resources
- Desalination
- Clean coal and gas technologies
- Air pollutant and air toxics control

- Hydrogen technologies (production, storage) and fuel cells
- Water and solid waste treatment and management
- Eco-material and environmental catalysis, adsorption, and separation
- “Waste” recovery
- Green/eco buildings
- Biofuels
- Energy and environmental policy and education
- Clean production and ISO 14000
- Sustainable energy industry and markets
- Smart grids
- Sustainable wineries

The submission deadline for extended abstracts is 30 Nov 2010. Early-bird registration closes 15 Jan 2011. Notice of acceptance of abstracts and oral or poster presentations will be sent out on 15 Feb 2011. For paper submission, registration details, sponsorship opportunities, and more information, please visit the website www.adelaide.edu.au/apcseet2011 or email apcseet2011@adelaide.edu.au.

Indoor Air 2011 in Austin, Texas

Indoor Air is the triennial international conference of the International Society of Indoor Air Quality and Climate. It will be hosted by the University of Texas in beautiful Austin, TX, from June 5-10, 2011.

Indoor Air brings together researchers and practitioners from over fifty countries for one week to discuss all aspects of indoor environments: contaminants such as bio-aerosols, VOCs, pesticides, radon, and infiltrated smog; health issues including sick building syndrome, asthma, allergies, infectious disease, toxicology, epidemiology, and comfort; building systems and air pollution controls; processes such as soil vapor intrusion and building ecology; sustainability, weatherization, and green buildings.

Indoor Air 2011 will highlight future challenges including the relationship between buildings, indoor environments, and climate change, the long-term implications of green building design on indoor air quality, indoor air chemistry and health, connections between local

and regional outdoor air quality and the indoor environment, and the challenges of poor indoor air quality in developing countries. A parallel symposium will be aimed at translating research results for practitioners as well as helping researchers identify emerging needs. We will also offer continuing education credits to professional practitioners.

The student program includes a unique “Student Video Challenge” as well as awards related to unique indoor air challenges, best student posters and papers, a student-run symposium, opportunities for students to serve as session co-chairs, student social events, and a job fair.

Conference President Richard Corsi (UT Austin) and Technical Chair Glenn Morrison (Missouri S&T) invite you to submit abstracts by visiting the conference website www.indoorair2011.org.

Seminar to Celebrate the Careers of Pat Brezonik and Mike Semmens

On Friday, September 24th, 2010, we are celebrating the careers of Pat Brezonik and Mike Semmens with a day-long seminar, dinner reception, and roast at the University of Minnesota in Minneapolis, MN.

Pat Brezonik was a member of the faculty of the Civil Engineering Department at the University of Minnesota from 1981 until his retirement this past May, with a brief hiatus from 2004-2007 to serve as the Director of the Environmental Engineering Program at the National Science Foundation. At the University of Minnesota, Pat was also the Director of the University's Water Resources Center from 1985 to 2003. Pat's research contributions covered nutrients and eutrophication, lake acidification, behavior of mercury in aquatic systems, and application of satellite imagery for analysis of lake and river water quality. He has authored more than 120 journal articles and two books, and his third book—*Water Chemistry: An Introduction to the Chemistry of Natural and Engineered Aquatic Systems*—will be published by Oxford University Press this fall. Pat was awarded the AEESP Distinguished Service Award in 2004 and is currently a member of the AEESP Foundation Board of Directors.



Pat Brezonik



Mike Semmens

Mike Semmens joined the University of Minnesota's Civil Engineering Department in 1977 and he will retire this December. Mike's research contributions covered a range of topics in the general area of water and wastewater treatment including the use of membranes for gas transfer, membrane filtration, chemical and biological fouling of membranes, membrane bioreactors, and ion exchange. He has authored more than 85 journal articles. Before coming to the University of Minnesota, Mike was an assistant professor at the University of Illinois at Urbana-Champaign's Civil Engineering Department. He earned his Ph.D. degree at the University College London in 1973. Mike received the AEESP Outstanding Contributions to Environmental Engineering and Science Education award in 2003.

Speakers at the seminar include Joe Delfino (University of Florida), Karl Rockne (University of Illinois-Chicago), Keith Pilgrim (Barr Engineering), Earl Shannon (Conestoga Rovers and Associates), Zhanfeng Cui (Oxford University), Ranil Wickramasinghe (Colorado State University), Drew Johnson (University of Texas-San Antonio), Joao Crespo (Universidade Nova de Lisboa), Tor Ove Leiknes (Norwegian University of Science and Technology), and Larry Baker, Marv Bauer, Paul Bloom, and Ed Cussler (University of Minnesota).

For more information, contact Professor Ray Hozalski (hozal001@umn.edu) at the University of Minnesota.

Newsletter policies

AEESP welcomes AEESP members to submit items such as letters to the editor, letters to the president, news, ads, and announcements to the Newsletter. The decision to publish is subject to the discretion of the Editor and the AEESP Board of Directors. All submissions for the AEESP Newsletter should be sent electronically as an attached file to the Newsletter editor, Joseph Ryan.

Submissions deadline: The AEESP Newsletter is published three times a year in January, May, and September. The deadline for Newsletter submissions is one month prior to the publication date (e.g., the deadline for the January Newsletter is December 1). Please keep in mind when submitting items with deadline dates that members receive issues four to six weeks after the submissions deadline.

Individual member advertising policy: Any advertisement, including faculty, post-doc, or student ads, or other types of announcements submitted by an AEESP individual member, will be free for the first 250 words (approximately 1/4 page) and then charged at \$1 per word for additional content, if formatted to fit in a column. Non-members will be charged at the per word rate for any size column-formatted ad. Full page formatted advertisements will be charged at \$500 for members and \$1,000 for non-members. All formatted full page ads will be accompanied by a free web ad. Programs will be limited to one full page of ads and/or announcements per issue.

Photo submissions: Photo submissions to the AEESP Newsletter are encouraged. Please submit your photos electronically in JPG format at the highest dimension for downsizing to print resolution (preferably less than 750 KB). Also, please include captions with names, locations, and dates.

Environmental Research Engineer/Scientist at Southwest Research Institute

Review and develop environmental data and facility information to prepare environmental impact statements and environmental assessments following NEPA requirements and agency implementing regulations (e.g., 10 CFR Part 51); review and development of environmental documentation including but not limited to nuclear fuel cycle facilities used throughout the nuclear fuel cycle from uranium extraction through enrichment, nuclear waste transportation, storage, and disposal sites. Analyze diverse information and draw environmental impact related conclusions. Interact regularly with multi-disciplinary teams to produce integrated products. Participate in preparing high quality technical reports. Assist in preparing presentations for commercial and government clients and for non-technical stakeholders, proposals, and other business development activities.

BS or MS in Environmental Science or a related discipline required, with 1 year minimum experience after MS or 3 years after BS of progressive experience in NEPA environmental impact statements, environmental assessments, and supporting activities such as scoping meetings and hearings. Experience in other federal and/or state environmental regulations. Must have at least a 3.0 GPA. NEPA certification desired, but not required. Proven experience in one or more disciplines of socioeconomics, environmental justice, assessment of cumulative impacts, and assessment of cultural and historical resources highly desirable. Excellent writing and verbal communication skills required; must have the ability to work independently and in multidisciplinary teams, make presentations to diverse audiences, and maintain good client relations. Position in Rockville, MD, or San Antonio, TX. Apply at www.swri.org/hr/default.htm.

PhD Fellowships in Environmental Engineering/Biotechnology at the Technical University of Denmark

Applicants are sought for six PhD fellowships in the Department of Environmental Engineering at the Technical University of Denmark in Lyngby, Denmark. The fellowships are supported by several research grants (MIRECOWA, DW Biofilter, Ecodesign MBR) with the objective to develop and optimize biotechnological solutions for drinking water and wastewater handling.

For further information, contact Prof. Hans-Jørgen Albrechtsen (hja@env.dtu.dk) or Prof. Barth F. Smets (bfs@env.dtu.dk). Complete applications can be submitted electronically; go to www.dtu.dk/Om_DTU/ledige_stillinger.aspx?&inst=55004755.

Two New Professorships in The Department of Environmental Engineering at The Technical University of Denmark (DTU Environment)

In an effort to increase its corps of faculty at the full professor level, DTU Environment is announcing two new professorships. The first professorship is in the area of Environmental Risk Assessment of Nanomaterials. The second professorship is in the area of Modeling of Contaminant Fate and Transport in Water Resources/Environmental Engineering. Detailed information and application guidelines will be posted on the DTU website (www.env.dtu) with an expected deadline of October 30, 2010.

DTU is one of the leading technical universities in Europe. The Department of Environmental Engineering conducts research and education across a broad range of environmental science/engineering topics, is one of the largest in Europe with 170 employees, and collaborates with many leading universities in the EU, the USA, and across the globe.

Ph.D. Student Opening at the University of Rhode Island

The University of Rhode Island (URI)'s Graduate School of Oceanography (GSO) has been funded to work on a project using passive samplers to measure persistent bioaccumulative toxics (PBTs) in the Great Lakes. The project offers five years of funding for a graduate research assistant at the Ph.D. level.

The project will yield unique information to (i) enhance the measurements of the spatial variability of atmospheric concentrations of PBTs around Lakes Erie and Ontario; (ii) assess whether the lakes are volatilizing or absorbing gas-phase PBTs to derive fluxes and loading to Lakes Erie and Ontario; and (iii) detect emerging contaminants of concern across Lakes Erie and Ontario.

Interested students need a background in environmental or chemical engineering, chemistry, or a related field, and an interest in working in both field and laboratory. Contact Rainer Lohmann (lohmann@gso.uri.edu) for details about the position and the project.

Any interested student will need to be accepted as a graduate student in Oceanography at URI. For more information about URI's Oceanography program, please visit www.gso.uri.edu, or contact GSO's Academic Advisor Meredith Clark (m.clark@gso.uri.edu) for details.



Association of Environmental Engineering and Science Professors

Name: _____

Title: _____

Institution: _____

Department: _____

Business address: _____

Business phone: _____

E-mail address: _____

Fax no: _____

Home address: _____

Home phone: _____

Applying for: Regular Member [Rank: _____]

Affiliate Member

Student Member [Advisor: _____]

Sustaining Member

PLEASE ATTACH A BRIEF (1–3 PAGE) CURRICULUM VITAE

Enclosed are my AEESP dues in the amount of U.S. \$ _____.

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Membership in AEESP is on a calendar-year basis. When you join the Association, you will be sent the current AEESP Membership Directory and previous Newsletters and other materials which have been sent to members during the year, if your application is received prior to October 1. If you join after October 1, your membership will begin the following calendar year, but the current AEESP Membership Directory will be sent to you immediately upon approval of your membership by the Association's Secretary.

Rank/Status Annual Dues

Regular Member (Professor) \$75.00

Regular Member (Assoc. Professor) \$60.00

Regular Member (Asst. Professor) \$40.00

Affiliate Member \$50.00

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