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AEESP e-Newsletters
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New AEESP Web site
Check out the new site at:

 **AEESP.org**

President's Letter



Phil Singer

Dear AEESP Members,

As most of you know, the National Science Foundation (NSF) has been a consistent supporter of AEESP activities for many years. We owe a great deal of thanks to Ed Bryan for initiating these

activities and, more recently, to Nick Clesceri and Pat Brezonik for expanding them. Over the years, NSF has co-sponsored many of our education and research conferences, and we have turned to them frequently for support of a number of workshops that AEESP has conducted.

Nick Clesceri joined NSF in 2000, taking leave from Rensselaer Polytechnic Institute (RPI) to become the temporary program director for environmental engineering which was then part of BES (Bioengineering and Environmental Systems) within the Directorate for Engineering. In addition to managing the core environmental engineering research program, Nick helped give birth to the Collaborative Large-scale Engineering Analysis Network for Environmental Research program, known as CLEANER.

Pat Brezonik replaced Nick as program director for environmental engineering in 2004, taking leave from the University of Minnesota. Under Pat's "watch," CLEANER became a reality before morphing into the WATERS (WATER and Environmental Research Systems) Network, which will oversee construction of a series of regional environmental observatories in the next decade. Pat also saw the environmental engineering program

move to CBET (Chemical, Bioengineering, Environmental, and Transport Systems) when BES and CTS (Chemical and Transport Systems) were combined in 2006.

The Environmental Engineering and Sustainability Cluster within CBET now comprises the following programs: Environmental Engineering (with Pat Brezonik as program director and also program manager for the CLEANER/WATERS Network project), and Environmental Technology (with Cindy Ekstein as program director). New programs in "Environmental Sustainability" and "Energy for Sustainability" are being developed within CBET. Cindy Lee, on leave from Clemson, has been directing the Environmental Sustainability initiative this past year.

Both Cindy Lee and Pat will be leaving their temporary assignments this year, and replacements for both will be sought. Pat indicates that the professional perks associated with the program director's job are: the opportunity to meet and interact with many people in his field and in related fields and to work with a wide range of interesting and highly accomplished scientists and engineers who are fellow program directors at NSF; the intellectually broadening experience that comes with exposure to a wide range of current and proposed research activities and ideas; the managerial experience gained by overseeing a large research portfolio and the visibility that the position provides within the academic community, both of which are useful to those who may be interested in moving into administrative positions when they return to academia; and the opportunity to live in and take advantage of the Washington, D.C. area for a few years.

It has been helpful to our organization, to environmental engineering in general, and to

Newsletter submissions

Submissions may be sent electronically to:

Eric Marchand
marchand@unr.edu
(775) 784-6817
(775) 784-1390, fax

Letters to the president may be sent to:

Philip Singer
Environmental Sciences &
Engineering, CB-7431
University of North Carolina
Chapel Hill, NC 27599-7431
phil_singer@unc.edu

Letters to the editor may be sent to:

Eric Marchand
University of Nevada, Reno
Civil & Environmental
Engineering, MS 258
Reno, NV 89557-0152
marchand@unr.edu

Address changes may be sent to:

Joanne Fetzner
AEESP Business Office
2303 Naples Court
Champaign, IL 61822
joanne@aeesp.org
(or jfetzner@uiuc.edu)

AEESP Newsletter online

www.aeesp.org/publications_newsletter.php



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the environment to have AEESP members in leadership positions at NSF. I would encourage our members to take a serious look at the opportunities provided by the impending changes at NSF. Which of our members will follow in Nick's, Pat's, and Cindy's footsteps?

Sincerely,

A handwritten signature in black ink that reads "Phil Singer".

Phil Singer
President, AEESP

AEESP Board Highlights

Submitted by Amy E. Childress

The board met on March 23 and 24 at the University of Minnesota, Twin Cities. The board discussed reports from the approximately 20 active committees that cover AEESP's education, research, and outreach activities.

We are pleased to report that AEESP has experienced a phenomenal 97% renewal rate for regular members. In addition, we have experienced a 4% increase in membership; the current membership is 844 individuals. Members should look for a facelift of the AEESP Web page later this spring.

The board is continuing to work on advancing the AEESP Foundation. We are currently applying for tax exempt status and developing a Foundation Web page.

The board was visited by Professor Jerry Schnoor of the University of Iowa and Pat Brezonik of NSF regarding the new Water and Environmental Research Systems (WATERS) Network program. Stay tuned for an interesting session on the WATERS Network at the AEESP Education and Research Conference at Virginia Tech. AEESP members will have an opportunity to participate as educators and researchers with this \$300 million proposal to NSF to build an environmental observatory during 2012-2016 that will help us to understand, model, and forecast future changes in the quality and quantity of our nation's

waters. A draft conceptual design for the observatory is being written now by leaders in the environmental engineering and the hydrological sciences communities. It will go to NSF for a decision in 2008 and must eventually pass the muster of Congress. If successful, AEESP members will be able to benefit from the WATERS Network by participating in proposals for about 10 regional observatories (capital expenditures of approximately \$25 million each), to co-locate research and instruments on WATERS Network platforms, and to gain access to a real-time, streaming network of water quality data for modeling and analysis.

The AEESP board looks forward to seeing you at the AEESP Education and Research Conference at Virginia Polytechnic Institute and State University July 27-August 1, 2007.

2007 AEESP Research & Education Conference

Please be sure to save July 28-August 1, 2007 for AEESP's biennial Research and Education Conference on the Virginia Tech campus in Blacksburg, Virginia. This year's program promises to be very special due to the quality of the many papers and posters that will be presented (approximately 150), the four Sunday workshops, and Saturday's fun day activities. The latest news about the conference and information about registration and lodging can be found at <http://www.cpe.vt.edu/aeesp/>. Important upcoming dates are:

- Application deadline for NSF workshop award: **May 15, 2007**
- Recipients of NSF awards for CAREER workshop will be notified: **June 15, 2007**
- Registrations and room reservations due: **June 25, 2007**

AEESP Education Committee Update

The AEESP Education Committee announces the publication of a compilation titled "Case Studies in Environmental Engineering and Science." This document

will be made available as a free download to members through the AEESP Web site this summer. The 134-page compilation is expected to be of interest to instructors of a variety of environmental engineering courses. It consists of nine case studies that range in topics from hydraulics of chlorine contact tanks to waterborne disease outbreaks. Each case study is written in a format that allows easy incorporation in undergraduate and graduate-level courses. Supplementary instructor materials including solutions and spreadsheets will be made available for a nominal charge through the AEESP Business Office.

AEESP Lecturers Committee selects Dave Allen as 2007 Lecturer

The Lecturers Committee is pleased to announce that Dr. David Allen has been selected as the 2007 AEESP Distinguished Lecturer. Dr. Allen is the Gertz Regents Professor of Chemical Engineering and the Director of the Center for Energy and Environmental Resources at the University of Texas at Austin. Dr. Allen's lecture tour will begin during the fall 2007 semester. A solicitation for schools that are interested in hosting Dr. Allen was distributed via the AEESP electronic mailing list in March. Dr. Allen plans to offer three talks: (1) The Texas Air Quality Studies: State of the Science of Air Quality in Texas and Implications for Air Quality Policy, (2) Sustainable Engineering: A Model for Engineering Education in the Twenty-First Century?, and (3) The Energy Institute at the University of Texas. People with suggestions for nominees for future lectures are invited to contact any committee member.

Dr. Allen is the author of six books and over 170 papers in areas ranging from coal liquefaction and heavy oil chemistry to the chemistry of urban atmospheres. For the past decade, his work has focused primarily on urban air quality and the development of materials for environmental education. Dr. Allen was a lead investigator for the first and second Texas Air Quality Studies,



which involved hundreds of researchers drawn from around the world, and which have had a substantial impact on the direction of air quality policies in Texas. He has also developed

environmental educational materials for engineering curricula and for the University's core curriculum. Dr. Allen received his B.S. degree in Chemical Engineering, with distinction, from Cornell University in 1979. His M.S. and Ph.D. degrees in Chemical Engineering were awarded by the California Institute of Technology in 1981 and 1983. He has held visiting faculty appointments at the California Institute of Technology, the University of California, Santa Barbara, and the Department of Energy.

AEESP Student Services Committee Update

Submitted by the AEESP Student Services Committee: James D. Englehardt (Chair), Defne Apul, Nathalie Tufenkji, Marjorie Aelion, Rachel Brennan, John Easton, Daniel E. Giammar, Eric M.V. Hoek, Michael A. Robinson, Rominder Suri, and Tian Zhang

In the fall of 2005, the Committee began to discuss options currently available for students in terms of professional societies. A survey was prepared to collect student input regarding needs. Results have now been submitted to the journal *Environmental Engineering Science* by Defne Apul and Nathalie Tufenkji, and were provided to the Joint Task Force of the American Academy of Environmental Engineers (AAEE) and the Association of Environmental Engineering and Science Professors (AEESP) on the Establishment of a Professional Society for Environmental Engineers (Mike Aitken, Chair) and to the AEESP Board of Directors for discussion. Based on the results of the Student Services Committee

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, Eric Marchand.

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.

Regular member advertising policy

Any advertisement, including faculty, post-doc, or student ads, or other types of announcements submitted by an AEESP 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.

survey and experience with student chapters to date, the Committee made several recommendations concerning the creation of a new professional society to serve environmental engineers and scientists. Among these, the Committee:

1. Supports the conclusion of the Task Force that there is a significant perceived need for a new society, particularly among students and young professionals in the fields of environmental engineering and science. This recommendation follows from the results of our survey, in which 90.3% of respondents reported interest in joining a Student Society for Environmental Engineering and Sciences (SSEES), 74.8% responded that they would attend an international meeting of all SSEES organizations, and 89.4% responded that they would see themselves as being involved in the SSEES after graduation;

2. Supports, preliminarily, the name 'Society for Environmental Engineering' suggested by the Task Force. However, in light of recommendation (4), below, and of the possible long run benefits of including science in the name in terms of stimulation of cross-disciplinary collaboration, and increased recognition of engineering work, we would like to suggest further consideration of the inclusion of the word 'science' in the name;

3. Agrees with the recommendations of the Task Force that interested scientists, as well as engineers, should be eligible for full membership. We suggest that full membership should be open to professionals holding a Bachelor of Science degree in an engineering, natural science, or social science discipline, and that eligibility as a student member would begin upon enrollment in such a program. The requirement for a Bachelor of Science degree will distinguish the society from the many trade organizations representing environmental engineering at present;

4. Suggests adoption of *Environmental Engineering Science* as the official journal of the society. This journal was identified as the most recognized among

environmental engineering journals that are general in scope and not currently affiliated with a professional society. We have contacted Dominic Grasso, Editor, and he has expressed interest in discussing affiliation with the new society; and

5. Would like to highlight that real-world experiences stood out among the key expectations of survey respondents regarding the new society. While some such experience could be provided in terms of student competitions, we feel that students are particularly interested in projects offering real opportunities to make contributions, such as through Engineers Without Borders and similar outreach activities.

The committee would like to thank Mike Aitken and the Task Force for their inspiration, initiative, and practical recommendations for a path forward, and we look forward to supporting the establishment of the new society as a service to current and future students of the field.

AEESP Lecture at AWWA Annual Conference

Monday, June 25, 2007

12:00 - 12:45 p.m.

Metro Toronto Convention Centre

Dr. William R. Knocke

W. Curtis Professor and Head

Virginia Polytechnic Institute and

State University, "Practical Issues

Associated with Integrating Effective

Manganese Control into Water Treat-

ment Plants"

A&WMA/AEESP Meet & Greet Breakfast Meeting

If you are an A&WMA academic member, take the opportunity to network with your colleagues from the Association of Environmental Engineering and Science Professors at the annual A&WMA/AEESP breakfast meeting.

Professor Cliff I. Davidson, Carnegie Mellon University, will be presenting "En-

vironmental Sustainability: A Challenge for the Future" at the A&WMA/AEESP breakfast meeting during A&WMA's

100th Anniversary Annual Meeting and Exhibition. It will be held at the David L. Lawrence Convention Center in Pittsburgh, PA. The breakfast will be on Wednesday, June 27 from 7:00 a.m.-8:30 a.m. This event is open to all conference attendees who are university and college faculty, as well as Ph.D. students and post-docs. Please RSVP by e-mail to sspratt@awma.org or at (412) 232-3444, ext. 3119, to participate in the breakfast portion of this event.

AEESP sponsored activities at WEFTEC.07

The Water Environment Federation has approved reduced prices for members of AEESP to attend WEFTEC.07 in San Diego, CA, from October 13-17, 2007. The reduced costs will include: \$50 for the AEESP/WEF Scientist Luncheon; \$50 for the AEESP/WEF Keynote Research Presentation; and \$300 for attending WEFTEC Research Sessions throughout the week. A special registration form has been prepared and posted on the AEESP Web site (<http://www.aeesp.org/postings/WEFTEC07AEESP.pdf>). If you have any questions, contact Daniel Oerther at Daniel.Oerther@uc.edu. Events on Monday, October 15, 2007 include:

AEESP/WEF Luncheon

Jörg E. Drewes, Colorado School of Mines, "Drinking Water Augmentation with Impaired Water Sources—Technologies and Water Quality Issues"

11:30-1:30 p.m., San Diego Convention Center

AEESP/WEF Keynote Research

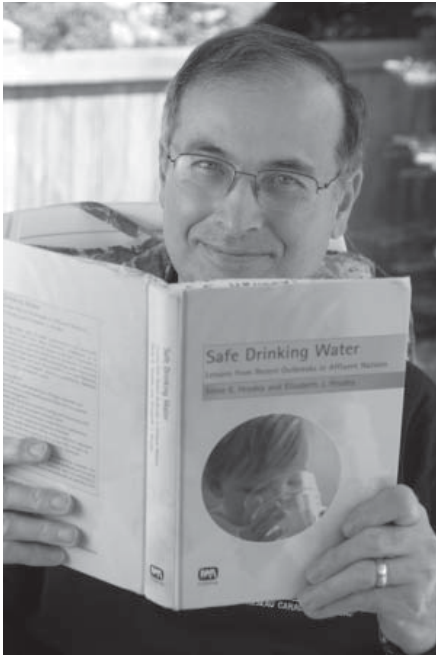
Presentation

David Jenkins, University of California, Berkeley, Session 020 Leading Edge Research Program, "From TSS to FISH—A Personal View of Biological Wastewater Treatment Population Dynamics"

1:30-2:30 p.m., San Diego Convention Center, Room 6C

AEESP Meet-and-Greet Reception

5:00-7:00 p.m., Manchester Grand Hyatt San Diego



Steve Hrudey elected Fellow, Academy of Sciences of RSC

Dr. Steve E. Hrudey, Associate Dean of the University of Alberta School of Public Health, has been elected as a Fellow of the Academy of Sciences of the Royal Society of Canada (RSC). A fellowship in the RSC is the highest recognition of achievement across all academic disciplines in Canada. Dr. Hrudey has been a member of AEESP since 1977. In 1988, he moved to the Faculty of Medicine to establish the Environmental Health Sciences program which became a core program of the new School of Public Health in 2006. He was chosen as the 2006 TD/Canada Trust Walter Bean Visiting Professor in Environment at the University of Waterloo and the 2006 Distinguished Visiting Speaker for Canada's National Water Research Institute.

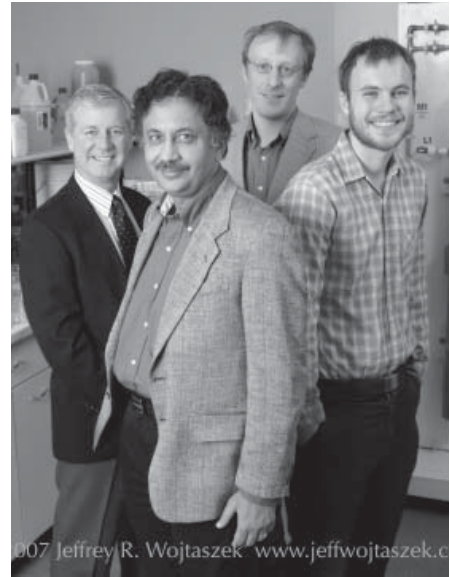
In recent years, Dr. Hrudey served as a member of the Research Advisory Panel to the Walkerton Inquiry into a drinking water outbreak that killed 7 people, as leader of the Protecting Public Health Program for the Canadian Water Network, and on a 3-member expert panel to conduct public hearings across Canada on regulatory options to assure safe drinking water for First Nations communities.

The panel report was tabled in Canada's Parliament in December 2006. After nine years of cabinet-appointed service on the Alberta Environmental Appeals Board, Dr. Hrudey was appointed in 2005 as the first non-lawyer to serve as chair of this quasi-judicial tribunal which reviews, following appeal, a variety of regulatory decisions of Alberta Environment. He has recently been appointed to the Management Advisory Board of the Alberta Water Research Institute.

SenGupta and team win NAE Grainger Challenge Award

A team led by **Arup K. SenGupta**, professor of environmental engineering at Lehigh University, won the Grainger Challenge Silver Award of \$200,000 for their sustainable water treatment system to provide arsenic-safe drinking water in the Indian subcontinent. The award was sponsored by the National Academy of Engineering (NAE) and the Grainger Foundation to address what many have called the world's worst environmental crisis. The World Health Organization (WHO) estimates that as many as 100 million people in India and Bangladesh may be drinking well water that contains toxic levels of naturally occurring arsenic. Victims suffer skin lesions, cancer, and death. WHO calls the phenomenon the "largest mass poisoning of a population in history." SenGupta will share the Grainger Challenge Award with Water For People (WFP) and also with John Greenleaf and Lee Blaney, graduate students in environmental engineering in Lehigh University; Owen E. Boyd, CEO of SolmeteX Co. in Northborough, Mass.; and Arun Deb, retired vice president of Weston Solutions Inc., in West Chester, PA.

During the last ten years, SenGupta and his graduate students collaborated with the Bengal Engineering and Science University in India to develop and refine community based arsenic removal systems in remote villages. This easy-to-operate system does not require electricity or addition of external chemical, and is run by



villagers. Tens of such systems have been running for several years. Currently, about 200,000 people in the region bordering India and Bangladesh collect arsenic-safe water from these units for drinking and cooking. The arsenic removed from the groundwater is contained in an environmentally safe manner with minimum leaching. The project led to the development of the first commercial polymer-based arsenic selective adsorbent which is currently in use in over two hundred communities in the United States for arsenic removal.

Clemson University

Dr. Shelie A. Miller joined the faculty of the Department of Environmental Engineering & Science, School of the Environment, at Clemson University as an assistant professor in August 2006. She earned a B.S. degree in Chemistry from Denison University (2000) and a M.S. degree in Civil and Environmental Engineering from Clarkson University (2001). Dr. Miller obtained a Ph.D. in Civil and Materials Engineering from the University of Illinois at Chicago in 2006. During her graduate studies, she received a National Science Foundation IGERT fellowship, which seeks to provide interdisciplinary solutions to complex real-world environmental problems. Dr. Miller performed a

Member News



comparative life cycle assessment for Alcoa Inc. to evaluate a transition from petroleum to soybean-based lubricants in the aluminum rolling process. Her current work

focuses on the environmental impacts of bio-based products and tradeoffs in the carbon and nitrogen cycles in agriculture. Her teaching and research plans at Clemson University involve sustainability science and industrial ecology, which is the concept of designing engineered systems to behave more like natural systems. Dr. Miller is interested in fostering collaborative efforts on sustainability initiatives in the agricultural and manufacturing sectors.



Dr. Stephen Moysey joined the faculty of the School of the Environment at Clemson University as an assistant professor in August 2005. He received a B.S. in Environmental

Physical Sciences from the University of Alberta (1996), a M.S. in Hydrology from the University of Arizona (1999), and a Ph.D. in Geophysics from Stanford University (2005). Dr. Moysey's research interests include the use of geophysics in hydrologic investigations, geostatistical data integration, and scaling of hydrologic processes and properties. Dr. Moysey is also interested in problems related to the sustainability of water resources, particularly in the developing world. He is currently working with NGOs in India to understand the impact of village-level water harvesting on ground water availability.

New AEESP members at Michigan Tech



Dr. Qiong (Jane) Zhang is a senior research engineer and adjunct assistant professor in the Department of Civil and Environmental Engineering at Michigan Technological

University. She is also the operations manager for the Michigan Tech Sustainable Futures Institute (SFI). In this capacity, she works with faculty, staff and students from a wide range of disciplines across the campus on multidisciplinary research and education initiatives in support of decision-making for sustainability. Dr. Zhang received a Ph.D. in Environmental Engineering from Michigan Tech and her doctoral research focused on pollution prevention and green design. Her research interests are in the areas of sustainability, environmental risk, life cycle assessment, modeling environmental fate and transport, and water and wastewater treatment. Her teaching interests focus on green design and integration of sustainability principles into engineering education. She was instrumental in development of the water treatment textbook (*Water Treatment: Principles and Design*, 2nd ed., John Wiley and Sons, New York, 2005) and also co-authored its solution manual.

Linda D. Phillips is a lecturer in the Department of Civil & Environmental Engineering at Michigan Technological University. She has 20 years of experience in the management of design/construction projects in both heavy and building construction and teaches a capstone design course titled "International Senior Design" (ISD). ISD is a 6-credit course that since 2000 has provided 118 students a service-learning design experience situated in Bolivia and the Dominican Republic so they can explore the technical, economic, and social implications



of engineering design and construction. Linda has co-authored several papers on how service learning design projects situated in the developing world can be integrated with ABET requirements and a more motivational learning experience for students.

University of Minnesota



Julian D. Marshall joined the faculty of the Department of Civil Engineering, Institute of Technology, at the University of Minnesota in January 2007. Dr. Marshall is an environmental engineer whose primary research interest is population exposure to air pollution, especially transportation emissions. He is also interested in GIS tools for air pollution modeling; metrics for environmental justice aspects of air pollution; urban planning, air pollution, and exercise levels; "healthy cities;" energy consumption trends in developing countries; and sustainability.

After earning his B.S.E. in chemical engineering (with high honors) from Princeton University, he received both his

M.S. and Ph.D. (Energy and Resources Group) from the University of California, Berkeley. Dr. Marshall most recently worked as a post-doctoral research fellow at the University of British Columbia in the area of occupational and environmental hygiene. Prior to this position, he had several fellowships and teaching positions, including teaching chemical engineering at Temasek Polytechnic in Singapore. From 2001 to 2005, he worked as an independent contract researcher. His clients included California Air Resources Board (Sacramento, CA); Environmental Defense (Oakland, CA); United Nations University (Tokyo, Japan); and the U.S. Agency for International Development (Jakarta, Indonesia).

Dr. Marshall has published numerous articles in the areas of urban air pollution and health, sustainability and industrial ecology, and groundwater modeling.

University of Nevada, Reno



Dr. Edward P. Kolodziej joined the faculty in the Department of Civil and Environmental Engineering at the University of Nevada, Reno (UNR) as an assistant professor in January 2007.

Professor Kolodziej joined UNR after a long association with the Department of Civil and Environmental Engineering at the University of California, Berkeley, where he completed his M.S. in 1999, Ph.D. in 2004, and continued on with post-doctoral research related to the occurrence, fate, and transport of endocrine disrupting steroid hormones. Prior to graduate school, Edward received his B.S. in Chemical Engineering from the Johns Hopkins University. He works in the area of environmental aquatic chemistry, specializing in emerging contaminants, endocrine disruption, and contaminant fate and transport.

Jeff Nason and Dorte Wildenschild join Oregon State University

The Environmental Engineering Program at Oregon State University, which is currently part of the Department of Civil, Construction, and Environmental Engineering, is in the process of merging with the chemical and bioengineering departments on campus to form a new School of Chemical, Biological, and Environmental Engineering. The School recently added two new members to their Environmental Engineering group.



Jeff Nason joined the faculty as an assistant professor in January 2007. Jeff has degrees from Cornell University (B.S. Chemical Engineering, 1997 and M.S. Environmental Engineering,

2002) and The University of Texas at Austin (Ph.D. Civil Engineering, 2006). Prior to attending graduate school, he worked as an engineer in the water/wastewater group at Parametrix, Inc. in Sumner, WA. His teaching and research interests include aquatic chemistry and physical/chemical treatment processes, with an emphasis on the removal of particles from water and wastewater.



Dorte Wildenschild joined the faculty as an assistant professor in July 2006. Dorte has degrees from the Technical University of Denmark (DTU), Copenhagen (M.S., 1991, and Ph.D.,

1996, both in Civil and Environmental Engineering). She was most recently employed as an associate research professor at DTU and prior to that as a post-doctoral researcher at Lawrence Livermore

National Laboratory and at University of California, Davis. Dorte teaches courses in environmental engineering fundamentals, sustainable water development, and groundwater modeling. Her main research focus is multi-phase flow and transport processes in porous systems, pore-scale visualization techniques, and subsurface bioremediation.

Banu Örmeci named Canada Research Chair



Banu Örmeci, who joined the Department of Civil and Environmental Engineering at Carleton University (Ottawa, Canada) in 2005, was recently chosen as the Canada Research Chair (Tier II) in Wastewater and Public Health Engineering. The appointment brings \$500,000 to Carleton and Örmeci will also receive a \$530,000 grant to be used for infrastructure. Örmeci's main research focus is wastewater and biosolids treatment and fate and persistence of pathogens and chemicals through treatment processes. She is also the recipient of the 2006 Carty Research Fellowship, the 2006 Carleton University Research Achievement Award, and the 2005-2006 Carleton University Students' Association Teaching Excellence Award.

Banu Örmeci received her M.S. and Ph.D. degrees from the Department of Civil and Environmental Engineering at Duke University.

AEESP Member News

News items about AEESP members may be submitted for publication in the 'Member News' section by sending them to: Eric Marchand, AEESP Newsletter Editor, marchand@unr.edu.

Member News

University of Kansas



Belinda McSwain has recently joined the University of Kansas as an assistant professor in the Department of Civil, Environmental & Architectural

Engineering. Dr. McSwain received a B.S.P.H. in Environmental Science and Engineering from the University of North Carolina – Chapel Hill and a Ph.D. from the University of Notre Dame in 2005. Dr. McSwain performed her doctoral research in Munich, Germany at the Technical University of Munich and held a post-doctoral position at the University of California, Davis. She works in the area of environmental microbiology, including wastewater treatment and the detection of pathogens.

Duke University



Dr. Mark R. Wiesner has joined the faculty of Duke University as the John L. Meriam Professor of Civil and Environmental Engineering in Duke's Pratt

School of Engineering. Dr. Wiesner also holds an appointment in the Nicholas School of Environment and Earth Sciences. Dr. Wiesner's research has pioneered the application of membrane processes to water treatment. He co-edited the book "Water Treatment Membrane Process," and served as the founding Chair of the AWWA's Membrane Research Committee. His recent research has focused on the applications of nanotechnologies to environmental engineering and an examination of the fate, transport, and impacts of nanomaterials in

the environment. He co-edited/authored the book "Environmental Nanotechnologies" and is a co-founder of the Houston-based nanomaterials company, Oxane Materials.

Wiesner received the AEESP Frontiers in Research Award in 2004 and was named a "de Fermat Laureate" at the French Polytechnic Institute and National Institute for Applied Sciences. Before joining Duke, Wiesner was a member of the Rice University faculty for 18 years, served as director of the Rice's Environmental and Energy Systems Institute, worked at the environmental engineering consulting firm of Malcolm Pirnie, Inc. in White Plains, NY, and was a research engineer with the Lyonnaise des Eaux, in Le Pecq, France. Professor Wiesner holds a B.A. in Mathematics and Biology from Coe College, a M.S. in Civil and Environmental Engineering from the University of Iowa, a Ph.D. in Environmental Engineering from The Johns Hopkins University, and did post-doctoral work at the Chemical Engineering Sciences Laboratory (ENSIC) in Nancy, France.

In memoriam: Tim Kramer

On December 9, 2006, **Dr. Timothy Kramer** was killed while attempting to land his plane at a small airport in Maryland. Words cannot adequately express the profound sense of loss in the Zachry Department of Civil Engineering at Texas A&M University, especially among his colleagues in the Environmental and Water Resources Division. Tim was an exceptional teacher, an outstanding researcher, and a dedicated mentor to so many students. Tim arrived at Texas A&M University in January 2001 as an assistant professor. He quickly adapted to life in Texas and became one of our outstanding teachers. He had a warmth and sensitivity felt by all he encountered. He established a highly successful research program that supported several undergraduate and graduate students. His consulting and industrial experience served him well in the classes he taught which included physical processes,

advanced treatment processes, and capstone design. In research, Tim had established an expertise in particle flocculation, arsenic immobilization, and perchlorate reduction. His enthusiasm and energy for environmental engineering made him a magnet for students and he found it hard to resist requests for special lectures, projects, and promotion of the program. At one point he was advising as many as 15 graduate students! Always looking for opportunities to expose students to the profession, he routinely organized trips to conferences, seminars, meetings, and facility tours. He also shared his passion for flying and reinvigorated the Flying Club serving as the academic advisor. He was a seasoned pilot with many hours of flight-time and a certified instructor. In response to requests by students and friends, a memorial fund has been created to permanently honor Tim's memory. The goal is to permanently endow the Timothy A. Kramer Outstanding Faculty Award, to be given to a faculty member that demonstrates dedication, compassion, and genuine caring for his/her students and both their scholastic and personal pursuits. These are the same traits that characterized Tim's approach to teaching and advising. If you would like to make a contribution to this memorial fund, please contact John Small (j-small@civil.tamu.edu). The profession has lost an effective champion. We have all lost a great friend.



Center for Green Chemistry & Green Engineering at Yale

Yale University has announced the establishment of the new Center for Green Chemistry and Green Engineering. The Center is the product of a joint effort between the Environmental Engineering Program, the Department of Chemistry, and the School of Forestry and Environmental Studies and builds on the interdisciplinary foundation that Yale University has established in sustainability. The mission of the Center is to advance the impact of the science and technology of sustainable design through the principles of Green Engineering and Green Chemistry.

The Center has five focus areas of Research, Education, Industrial Implementation, Communications, and Policy. Each of the focus areas leverages existing discipline-specific expertise within Yale while building interdisciplinary collaborations both within the Yale community as well as with external partners domestically and internationally. The partnerships currently existing span academia, industry, government, and the non-governmental sectors. The Center seeks to transform fundamental scientific research into practical, implemented solutions to sustainability issues including energy, water quality and quantity, toxic compounds, and climate change.

Yale has named Prof. Paul T. Anastas as Center director. Prior to his arrival at Yale, Anastas was the director of the ACS Green Chemistry Institute that he co-founded in 1997. From 1999-2004, Anastas was at the White House Office of Science and Technology Policy, most recently as assistant director for environment. In 2006, Anastas received the H. John Heinz III Award for the Environment and in 2005 was named one of the fifty most influential people in science and technology by Scientific American. As part of the Center launch, Yale also announced the appointment of Dr. Julie B. Zimmerman as assistant professor of green engineering jointly in the Environmental Engineering Program and the School of Forestry and Environment.

Dr. Zimmerman was previously a program director at the U.S. Environmental Protection Agency's Office of Research and Development in charge of the P3 (People, Prosperity, and Planet) student design program as well as being an assistant professor on the faculty of the University of Virginia's Civil Engineering Department.

Prof. Menachem Elimelech – director of the Yale Environmental Engineering Program – said that “The Center for Green Chemistry and Green Engineering was a logical next step for Yale in its approach to sustainability issues. Yale recognizes that in order to significantly address the great issues of our generation, we will need to employ the best basic science, apply it in a broad interdisciplinary context, and train the next generation of scientists and engineers to design for sustainability.” The Center's Web site can be accessed at www.greenchemistry.yale.edu.

Summer '07 Study Abroad for Environmental Engineering & Science Students

The University of New Orleans with 15 years of experience in conducting the Prague Summer Study Abroad Program is offering two environmental engineering and science courses this upcoming summer, July 8-August 4, 2007.

- Design for Sustainability: A Socio-Economic and Environmental Assessment of Prague and Other Cities (ENCE 4096)
- Air Pollution Control: The Czech Republic in International Comparison (ENCE 4328)

Each course carries 3 credits, which are transferable to the students' home institution. In addition to American students, the courses will be open to local students from Prague's Czech Technical University and other international institutions, allowing for meaningful interactions



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Questions about this program or the courses taught may be directed to Professor Bhaskar Kura at bkura@uno.edu or the program coordinator at (504) 280-7318 or prague@uno.edu.



How about them apples?

by P. Aarne Vesilind, Bucknell University



One of the legends of our pioneer days is John Chapman, better known as “Johnny Appleseed.” Born in 1774 near Leominster, Massachusetts, he decided to become a nursery man and started to plant apple trees in the newly settled territories of the young United States. He would travel to unsettled parts of the Midwest and by himself clear the land in order to plant apple trees. Johnny Appleseed was a gentle man who never carried a gun and who befriended the Native Americans. The importance of Johnny Appleseed to the development of agriculture in the Midwest was his willingness to strike out to new territories, bringing with him the apple seeds that helped thousands of pioneers establish their homes and communities.

Perhaps the analogy between Johnny Appleseed and the short and glorious history of the early sanitary engineering program at MIT is a bit hokey, but not unreasonably so. As related in this space in April 2005, the decision by MIT to close down its sanitary engineering program (Course XI) in the early 1960s resulted in an explosion that sent some of our very best sanitary engineers to other universities, to establish their own centers of excellence. What was not discussed in that piece was the students who graduated from the MIT program. It is an impressive list. Jim Symons has compiled the following, and I have, with the help of Ross McKinney, Perry McCarty, and Dave Hendricks, tried to fill in some blanks. Here is what we know about the graduates of the MIT sanitary engineering program – their year of graduation and their employment.

Weinberger, L.W., 1949, Washington, D.C.
Pearson, E.A., 1949, University of California, Berkeley
Tom, A. Q.Y., 1951, Consultant in Hawaii
McKinney, R.E., 1951, MIT and the University of Kansas
Kaufman, W.J., 1951, University of California, Berkeley
Horton, J.P., 1951, Newark Brush Company
Frame, J.D., 1952, Cities Service, New York, NY
Garrett, M.T. Jr., 1952, Superintendent, Sewage Treatment Plant, Houston, TX
Nesbitt, J.B., 1952, Pennsylvania State University
McCauley, R.B., 1953, Michigan State University
Lamb, J.C. III, 1953, University of North Carolina
Bogan, R.H., 1954, University of Washington
Engelbrecht, R.S., 1954, University of Illinois
Burbank, N.C., 1955, Washington University, St. Louis, MO
Ryckman, D.W., 1956, Washington University, St. Louis, MO
Lynch, W.O., 1956, Stearns and Wheeler, Consulting Engineers

Langley, H.E. Jr., 1957, University of New Hampshire
Symons, J.M., 1957, MIT, Robert A. Taft Sanitary Engineering Center, USPHS, Cincinnati, and University of Houston
Lauderdale, R.A. Jr., 1958, University of Kentucky
McCarty, P.L., 1959, MIT and Stanford University
Mohanrao, G.J., 1959, Sanitary Engineer, India
Skrinde, R.T., 1959, University of Massachusetts, Washington University, St. Louis, MO, and Seattle University
Washington, D.R., 1961, Rensselaer Polytechnic Institute
Speece, R.E., 1961, University of Illinois, Drexel University, New Mexico State University, University of Texas, and Vanderbilt University
Ketcham, D.L., 1962, AID Program, Washington, D.C.
Jeris, J.R., 1962, Manhattan College
Kugelman, I.J., 1963, NYU, EPA Cincinnati, and Lehigh University
Bechir, M.H., 1963, University of Oklahoma
Tenney, M.W., 1965, Notre Dame University

The list is impressive, isn't it? The engineers who were instrumental in building many of the best programs in our field came from this short, bright time at MIT. The professors at that time, including William Stanley, Rolf Eliassen, Clair Sawyer, A.A. Thomas, George Bryant, and Murray Horwood, and the young assistant professors who stayed on after receiving their degrees, Jim Symons, Perry McCarty, and Ross McKinney – should be justly proud. These men, and especially Ross McKinney, changed sanitary engineering from a handbook profession to one based on fundamentals of chemistry and biology; and their students, by taking “the MIT approach” to other universities, provided the seeds that populated some of the best environmental engineering programs in the nation.

News submissions deadline

The submissions deadline for the September 2007 AEESP Newsletter is **August 1, 2007**.

Send news items to:

Eric Marchand
AEESP Newsletter Editor
marchand@unr.edu

AEESP membership application

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http://www.aeesp.org/membership/AEESP_member_app.pdf



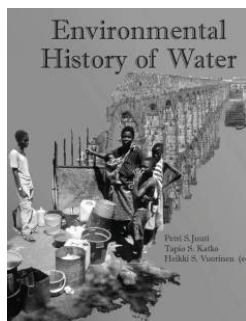
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New from IWA Publishing

* Environmental History of Water *

Global views on community water supply and sanitation

Editors: P. Juuti, T. Katko, H. Vuorinen



The World Water Development Report 2003 pointed out the extensive problem that: "Sadly, the tragedy of the water crisis is not simply a result of lack of water but is, essentially, one of poor water governance."

Cross-sectional and historical intranational and international comparisons have been recognized as a

valuable method of study in different sectors of human life, including technologies and governance. *Environmental History of Water* fills this gap, with its main focus being on water and sanitation services and their evolution. Altogether, 34 authors have written 30 chapters for this multidisciplinary book which divides into four chronological parts, from ancient cultures to the challenges of the 21st century, each with its introduction and conclusions written by the editors. The authors represent such disciplines as history of technology, history of public health, public policy, development studies, sociology, engineering, and management sciences.

This book emphasizes that the history of water and sanitation services is strongly linked to current water management and policy issues, as well as future implications. Geographically, the book consists of local cases from all inhabited continents. The key penetrating themes of the book include especially population growth, health, water consumption, technological choices, and governance. There is great need for general, long-term analysis at the global level. Lessons learned from earlier societies help us to understand the present crisis and challenges. This new book, *Environmental History of Water*, provides this analysis by studying these lessons.

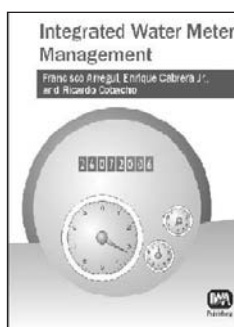
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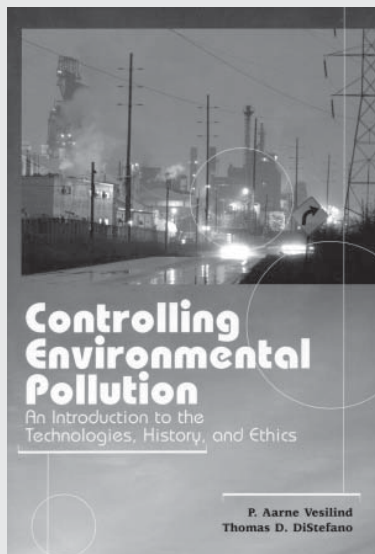


GRADUATE STUDENT OPPORTUNITIES, CIVIL AND ENVIRONMENTAL ENGINEERING PROGRAM. Temple University, Philadelphia, PA. Multiple full

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The Department of Civil and Environmental Engineering has faculty members with international expertise in various areas of environmental engineering and hydrology, and offers B.S., M.S., and Ph.D. degrees in basic and multidisciplinary areas. Temple University, a Carnegie Research I Institution, located in Philadelphia, Pennsylvania, is part of the Pennsylvania Commonwealth System of Higher Education and serves more than 34,000 students. More information about the Department and the research centers associated with it can be found at <http://www.temple.edu/engineering/civil>.

Applicants should follow the general admission instructions described in detail at <http://www.temple.edu/grad/admissions/howtoapply.htm>. In addition, applicants should inform the graduate director, Dr. Qiang He, qianghe@temple.edu.



New introductory textbook Controlling Environmental Pollution

DEStech Publications, Inc. announces its publication of *Controlling Environmental Pollution: An Introduction to the Technologies, History and Ethics*, by Aarne Vesilind (retired) and Thomas D. DiStefano, Bucknell University. *Controlling Environmental Pollution* is an introductory textbook designed for a one-semester course on pollution problems and environmental technologies. Created to appeal to students of various majors and backgrounds, the new text combines presentations of environmental science with stories and biographies illustrating milestones in the field. Technologies dis-

cussed in the book are laid out in step-by-step detail. Where necessary, simple calculations are presented to help students see how environmental experts conceptualize levels of water, air, and even noise pollution. The book contains end-of-chapter discussion points and problems to help students and professors engage problems identical in principle to those faced by environmental specialists throughout the world. At the same time, the work analyzes current issues. It provides the economic and ethical concepts to understand the costs of using present capacity to save future resources. This unique text is especially well suited for science distribution requirement courses offered by professors of environmental studies to non-science majors.

For an in-depth description of the book, a table of contents, and ordering go to: <http://destechpub.com/pageview.asp?pageid=29833> or call (866) 401-4337. Publishing details: ISBN 1-932078-39-8; 432 pages, 6x9, soft cover, price: \$49.50.

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The UC Berkeley Conference Center is self contained so that conference attendees can live, eat and relax literally next door to the conference meeting rooms.

The conference structure will be similar to that of the highly successful Singapore meeting in May 2006. There will be platform presentations with ample time for discussion, poster presentations, and career development sessions. The technical areas of interest include all aspects of water and wastewater treatment, water pollution control, and water quality management. Adequate time will be provided for delegates to talk informally and to develop networking connections. Personal relationships like this, made early in ones' career are of lasting and increasing importance. Conference social events will include a welcoming reception and a banquet at which attendees will have the opportunity to meet renowned experts in the water/wastewater field. Prizes will be awarded for the best platform papers and posters. Consideration will be given to publishing the conference proceedings through IWA.

The following schedule has been established:

Call for papers opens: May 2007

Extended abstracts due: September 28, 2007

Notification of selection for platform paper or poster:
December 2007

Full papers due: March 15, 2008

Early registration opens: January 2008

Early registration ends: May 15, 2008

Last day to register and receive copies of papers and posters:
May 15, 2008

Conference: July 16-18, 2008

Please contact the following for further information:

Paper submission information: www.iwa-ywpc.org

Registration information: ywp@iwahq.org.uk

Conference site information: David Jenkins, flocdoc@pacbell.net

Short Course and Student Scholarships: "Anaerobic Treatment of High-Strength Industrial Waste" Marquette University, Milwaukee, Wisconsin September 20-21, 2007

Drs. Adalberto Noyola (National Autonomous University of Mexico) and R. E. Speece (Vanderbilt University) will be distinguished keynote speakers at a short course titled "Anaerobic Treatment of High-Strength Industrial Waste" to be held September 20-21, 2007 at Marquette University in Milwaukee, Wisconsin. Dr. Noyola is president of the Inter-American Association of Sanitary and Environmental Engineering, a non-profit organization with headquarters in Sao Paulo, Brazil that is dedicated to the environment, sanitation, and public health. The course will present research regarding anaerobic processes, sustainability and sanitation, anaerobic treatment fundamentals, operating strategies, design/construction/start-up guidelines, and case studies of operating systems. Other speakers include Michael Switzenbaum and Daniel Zitomer (Marquette University) as well as Dennis Totzke (Applied Technologies, Inc.).

A limited number of "Speece Scholars" awards will be offered to cover the registration cost for graduate students studying anaerobic biotechnology. Standard registration is \$675. Attendees receive a course notebook and lunches. For more information, or to be considered for a "Speece Scholarship," please contact Dan Zitomer, (414) 288-5733 (Daniel.Zitomer@mu.edu). See <http://www.mu.edu/wqc> under "short courses" for more information.

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Association of Environmental Engineering and Science Professors Newsletter

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