ENVIRONMENTAL

E N G I N E E R

Volume 48, Number 3 | Summer 2012 The 42nd Annual AAEE Awourds Luncheon & Technical Conference al Conference



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President's Page

Michael W. Selna, P.E., BCEE

Collaboration is a Necessity

recent headline from the Los Angeles Times (June 8, 2012):

"Scientists warn that Earth may be approaching a tipping point"

The *Times* article summarizes a study published in the June 7, 2012, edition of Nature1, the international weekly journal of science. The study's authors predict that "the global ecosystem as a whole ... is approaching a planetary-scale critical transition as a result of human influence." The impact of human activity is likened to previous global events that caused permanent alteration of the Earth's biological resources, such as the asteroid strike believed to have caused the extinction of dinosaurs. Global population explosion, climate change, and mass clearance of Earth's surface to support agriculture and urban development are cited as the reasons for these dire predictions. The study's 22 authors base this "tipping point" prediction on the possible rapid downward spiral in biodiversity because many species are incapable of adapting to the rapid changes caused by human impacts. We are already seeing effects in the world's fisheries (although perhaps more due to overfishing than climate change). Our future holds more Finding sustain-Tilapia than Swordfish.

What I found more remarkable about this study than its predictions was that there were today's global problems 22 international authors and that their backwill require environmental grounds spanned biology, zoology, ecology, environmental sciences, geosciences, energy, engineers to participate in paleontology, economics, biophysics, and diverse teams. The Acadsustainability. While I wish there had been an environmental engineer or two on the team, this is a fine example of bringing together a variety of disciplines to address a critical issue. This team embraced the diversity of thinking only available when there is collaboration among experts from a variety of fields.

There are strong messages here for us as a profession. At one level, we should be more involved in the conversation about where Earth is headed. Our young environmental engineers already have that perspective; witness the unbounded popularity of Engineers Without Borders. Our scope as a profession has become significantly broader and much more complex. While solving the "mystery" of contaminated water supplies was perhaps the greatest positive historical impact on human health, the issues facing environmental engineers today are more multi-dimensional and global in scale. Finding the best solutions to these challenges requires collaboration with scientists and other experts in a variety of fields. The movement by the Academy to include scientists and to provide public recognition of their achievements through certification is reflective of the collaboration needed to meet these challenges.

Collaboration Is in AAEE's DNA: The Sponsoring Organization Model

The Academy has embraced collaboration since its inception. Beginning with five Sponsoring Organizations focused on Sanitary Engineering in 1955, the Academy now has twelve S.O.s. Each S.O.² brings its own perspective, and the diversity of thinking makes the Academy more viable and capable of meeting the grand challenges. To clear any misunderstanding, the Sponsoring Organizations do not directly contribute financially to the Academy. However, their contributions in the form of governance and in mutually beneficial programs are immense. Each S.O. provides a representative to the Academy's Board of Trustees. The Academy is working with nearly every S.O. to create professional training opportunities for environmental engineers, many of which provide PDH's. Examples include

joint workshops, technical sessions, and breakfasts/lunches at national and regional S.O. conferences. Topics such as climate change, hydraulic fracturing, and the future

> roles of environmental engineers are explored in these meetings. By the end of 2012, more than 15 joint events will have been held this year throughout the country, including a joint

national conference with AEESP in late July. In nearly all cases, Sponsoring Organizations provide the Academy exhibit floor space at their national conferences. AAEE and its S.O.s provide reciprocal opportunities for pub-

lication and website space. A near term concrete example of S.O. teamwork is a joint effort among several S.O.s to create a simple direct message to be

disseminated on a national level on the benefits of qualifications based selection (QBS) for engineering services.

Affiliates

able solutions to

emy is well positioned

to adapt to these

changes.

The Academy also has begun to create "Affiliate" organization relationships in which we share opportunities for training and website references. An example of this is the recent approval of NAEM (National Association of Environmental Managers) as an Affiliate.

¹ Nature 486, 52-58 (07 June 2012)

² Sponsoring Organizations include: A&WMA, AIChE, APHA, APWA, ASEE, ASCE, ASME, AWWA, AEESP, NSPE, SWANA, and WEF

In the near future, the Board of Trustees will be considering formation of additional affiliate relationships with organizations willing to work in partnership with AAEE to share ideas and resources to better serve the environmental engineering and science professions.

We have an essential role, but we cannot do it alone: Our pioneering sanitary engineers solved problems that were affecting populations on a global scale. Finding sustainable solutions to today's global problems will require environmental engineers to participate in diverse teams. The Academy is well positioned to adapt to these changes. As always, I would very much appreciate hearing your thoughts on how the Academy can better serve the profession. You can reach me at: michaelselna@socal.rr.com.

AA4 FRIDAY, JUNE 8, 2012

Los Angeles Times

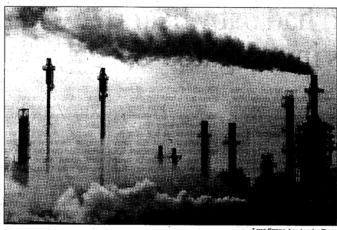
Scientists warn that Earth may be approaching a tipping point

They liken humans' effect to past global events that led to mass extinctions.

By Bettina Boxall

A group of international scientists is sounding a glob-al alarm, warning that population growth, climate change and environmental destruction are pushing Earth toward calamitous and irreversible — biological changes

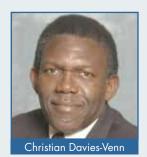
In a paper published in Thursday's edition of the journal Nature, 22 researchers in a variety of fields liken the human effect to global events eons ago that caused mass extinctions, permanently altering Earth's bio-



THE CONOCOPHILLIPS refinery in Wilmington. Incre sed carbon dioxide in the atmosphere is making the ocean more acidic and less hospitable to sea life

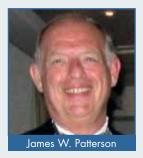
The ballots have been counted. The results will be official after the Teller's Report is confirmed by the Board of Trustees at the November 10 Annual Meeting. The following individuals have been elected for 2013: current President-Elect, Pasquale "Pat" Canzano, will succeed to the office of President; Christian Davies-Venn will be President-Elect; and James F. Stahl will be Vice President. Michael C. Kavanaugh and James W. Patterson have been elected to the two open Trustee-at-Large positions. AAEE thanks the 2013 Election Teller's Committee for taking the time to tabulate the votes: Mark H. Houck, Ph.D., P.E., BCEE, Michael F. Houlihan, P.E., BCEE, and Thomas G. Sprehe, P.E., BCEE. A











Executive Director's Page

Joseph S. Cavarretta, CAE

Those Who Do Is What Makes The Academy Tick

ast year's campaign to recruit new applicants took place from September 2011 to March 31, 2012. The Academy received 98 applications from those seeking to earn the Academy's "Badge of Excellence" (board certification in environmental engineering) - plus 16 applicants from 2010-2011 who missed last year's examination date or who requested to retake the exams. Three applicants dropped out by the time of publication. Therefore, this exam cycle from June to August comprises 114 individuals seeking certification. This number is generally consistent with past years.

The best proven strategy for recruiting qualified applicants is active encouragement from existing BCEEs and BCEEMs. This year, the names of 67 BCEEs/Ms were written on 68 applications. Some individuals below referred more than one applicant, and some applications included more than one name. They are:

Walter Bailey
Kashi Banerjee
William Barrack
R. Edwin Blair
Len-Fu Chang
John Ciccotelli
Richard Corneille
Modhamed Dahab
Marc Drainville
Ray Ehrhard
Elena Ellis
Mark Esvelt
Lee Ferrell
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Henry Stremlau

Chi-Chung Tang

Wendy Wert John Willis Susan Nolan

Randall Osburn

Fotios Papamichael

Harpreet Rai

Robert Schoenberger

Vernon Stack

Per Struck Tom Walker

Michael White

The Academy offered a chance to win a drawing for each applicant referred as a token expression of thanks. The name of one lucky winner was drawn: John Gerard Ciccotelli, P.E., BCEE, of MWH, Arcadia, California, who will receive a Canon EOS Rebel T3 Digital Camera.

I asked a few of the individuals above what it takes to motivate someone to apply for certification. I was hoping to hear that it only takes a short, friendly conversation or an email. That might work in some instances, but the answer I heard most often was that takes encouragement every year and friendly persistence. Dr. James Barnard concurs. "She had thought about it for years. It took a lot of persistence, but I thought she deserved it," he said of his applicant.

Dr. Jason Lynch successfully encouraged two individuals to apply. One was a former colleague who was well aware of Jason's involvement with the Academy. "We talked for several minutes," Jason said. "He had been interested in applying for a long time, but what finally motivated him was learning that having a BCEE opens doors of opportunity in the profession. The second person decided to apply after learning that no written exam is required for those with 16 years of experience (of which 12 is in responsible charge), but only a peer review by three BCEEs," Jason says. "What's rewarding to me is my work, my certification, and being involved in the profession. Encouraging professionalism through certification is one way I can give back."

Dr. Jeffrey Greenfield takes recruiting one step further. "Of course, I call and email people," he says, "Anytime I am asked to speak, if I have a little extra time to promote certification, I do that. Look at all the leaders and those who are becoming leaders in consulting firms, universities, and agencies. The one thing they have in common is they are dedicated to the profession. They're involved in everything - the Academy, ASCE, WEF, NSPE, AWWA... . They share their success by helping others, and they

continue to grow personally and professionally," Jeff adds. "Two things make me feel complete: my job and promoting the profession to peers, to the public, and to children. I always say 'those who do - do, and those who don't - don't,' and I like to be on the 'do' side." Jeff focused on eight individuals this year, and three applied for certification.

Most Academy certificants were encouraged by a colleague or supervisor and can easily recall that person. AAEE California State Representative Richard Corneille, recently retired from CDM Smith, is no exception. "I remember when I started working at CDM (now CDM Smith) and Bob Marini was a BCEE," Richard says. "One day, Bob said he was looking at the roster of BCEEs and didn't see my name. That's all the encouragement I needed. Every year, I send an email to people at CDM Smith who are qualified to apply. CDM Smith is one of the consulting firms that encourages BCEE certification as a part of career advancement, so it's a matter of asking people to do it. More CEOs should be as proactive as CDM Smith in encouraging their environmental engineers to become Academy certified. The Academy is a great organization, and its certification is very valuable to people and firms and the public. I also recruit on the outside, and I encourage other BCEEs to encourage people at their organizations to apply. Word of mouth is a very effective tool."

When Einstein said "If you can't explain it simply, you don't understand it well enough," he may have been referring to the Academy's qualifications for certification. Familiarity with the qualifications and the process is very helpful when recruiting new

applicants. They include a degree in environmental engineering or other engineering degree (e.g., chemical, civil, mechanical) acceptable to the Board; P.E. license (for BCEE certification); and a minimum of eight years of experience of which four constitute responsible charge. Those individuals will sit for a 100-question multiple choice written exam in their choice of spe-

cialty area (water supply/wastewater, environmental "The Academy is a great organization, and its certification is very valuable to people and firms and the public."

Richard Corneille

the Academy. Those with 16 years of experience may request a waiver of the written exam and simply sit for the peer review. A masters and a Ph.D. each count as 1.5 years toward years of experience. The peer review is one-hour and covers professional practice, conceptual issues, and ethics. The Academy's new certification, Board Certified Environmental Scientist, utilizes the same structure but different criteria. For details on the science specialty areas, visit the Academy's

sustainability, solid waste, general environmental

engineering, hazardous waste, radiation protec-

tion, air pollution control, industrial hygiene)

and a peer review by three BCEEs/ BCEEMs of

The Academy is asking all members to consider recruiting at least one new qualified applicant for next year's examination cycle. If you have been encouraging individuals over the years, now is the time to kick it up a notch. While we would like all members to participate, realistically, it would be a great achievement if 200 BCEEs/BCEEMS made this commitment. The end result will benefit all members of the Academy and the profession through increased service to, and recognition of, those who wear the "Badge of Excellence." A

Web site or call headquarters at 410.266.3311.

Member News

Awards & Honors



Pasquale "Pat" Canzano, P.E., BCEE, is the 2012 recipient of the Roy. F. Weston Award from the Journal of Solid Waste Technology and Management. The award is for recognition of an individual's com-

mitment to landfill research and involvement in solid waste organizations and was given to Mr. Canzano during the Twenty-Seventh International Conference on Solid Waste Technology and Management held March 2012. Mr. Canzano, AAEE's current President-Elect, is Chief Executive Officer of the Delaware Solid Waste Authority. He has been board certified in Solid Waste Management since 1990.

Howard B. LaFever, P.E., BCEE, has been named Board Chairman of the Institute for Sustainable Infrastructure. ISI was cofounded in 2011, by ASCE, APWA, and ACEC for the purpose of improving the performance and viability of infrastructure through the application of more sustainable technology and methodologies. Mr. LaFever is Principal with GHD, Inc. (Cazenovia, NY) and Treasurer of AAEE. He is a Life Member and is board certified in two specialties, Water Supply and Wastewater (since 1982) and Environmental Sustainability (since 2010).

In Memoriam

Mr. Joseph A. Kestner, Jr., P.E., BCEE, of Troy, NY, passed away on July 3, 2011. Mr. Kestner was a Life Member and had been board certified in Sanitary Engineering since 1958.

Mr. Robert W. Lashlee, P.E., BCEE, of Nashville, TN, passed away on March 31, 2012. Mr. Lashlee was a Life Member and had been board certified in Sanitary Engineering since 1966. 🖎

Introducing...

The Inaugural Class of **Board Certified Environmental Scientists**

Introduction by Brian P. Flynn, P.E., BCEE, Immediate Past President, Compiled by J. Sammi Olmo

and scientists working together to protect the environment today and our legacy tomorrow.

Jay L. Banner, Ph.D., **BCES Geology**

University of Texas at Austin Environmental Science Institute Mail Code C1100 Austin, TX 78712

Dr. Banner received his B.A. degree in Geology from the University of Pennsylvania and M.S. and Ph.D. degrees in Earth Sciences from State University of New York. He has more than 34 years experience.



Eldon C. Blancher, II, Ph.D., BCES Biology

t is my pleasure to introduce to you the first class of Board Certified Environmental Scientists to be certified by the Academy. These highly qualified individuals were accepted into the Academy by unanimous vote during our Spring Board of Trustee's meeting. Their admission signals the beginning of our process to recognize the distinct and vital talents of environmental professionals: engineers

> CEO & Chief Scientist Sustainable Ecosystem Restoration,

775 North University Boulevard #200

Mobile, AL 36608

Dr. Blancher received his B.A. in Biology and M.S. degree in Zoology & Physiology from Louisiana State University and Ph.D. in Environmental Engineering Science from the University of Florida. He has more than 40 years experience.



Simon Bluestone, BCES Geology

California and Nevada Business Unit Leader MWH

618 Michillinda Avenue #200 Arcadia, CA 91007

Mr. Bluestone received his B.A. degree in Aquatic Biology from the University of California-Santa Barbara and M.S. degree in Environmental Management from the University of San Francisco. He has more than 26 years experience.



Patrick L. Brezonik, Ph.D., **BCES Chemistry**

Retired, Professor Emeritus University of Minnesota Department of Civil Engineering 500 Pillsbury Drive, SE Minneapolis, MN 55455

Dr. Brezonik received his B.S. degree in Chemistry and Math from Marquette University and M.S. and Ph.D. degrees in Water Chemistry from the University of Wisconsin-Madison. He has more than 49 years experience.



James H. Clarke, Ph.D., **BCES Chemistry**

Professor, Department of CEE Vanderbilt University 2301 Vanderbilt Place, Suite B #351831

Nashville, TN 37235

Dr. Clarke received his B.A. degree in Chemistry from Rockford College and Ph.D. degree in Theoretical Physical Chemistry from The Johns Hopkins University. He has more than 45 years experience.



William J. Cooper, Ph.D., **BCES Water Supply/** Wastewater

Professor, CEE and Director, **UWRC**

University of California, Irvine Department of CEE Irvine, CA 92697

Dr. Cooper received his B.S. degree in Chemistry from Alleghany College, M.S. degree in Organic Geochemistry from Pennsylvania State University and Ph.D. in Marine Chemistry from the University of Miami. He has more than 44 years experience.



Masahiro Dojiri, Ph.D., **BCES Biology**

Division Manager City of Los Angeles 12000 Vista Del Mar Playa Del Rey, CA 90293

Dr. Dojiri received his B.A. degree in Biology from the University of California-Santa Barbara, M.A. degree in Biology from California State University-Long Beach and Ph.D. in Biology from Boston University. He has more than 38 years experience.



John H. Dorsey, Ph.D., **BCES Biology**

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Dr. Dorsey received his B.S. in Marine Biology and M.A. degree in Biology from California State University and Ph.D. degree in Zoology from the University of Melbourne. He has more than 40 years experience.



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Dr. Eaton received his B.A. degree in Earth Sciences from Antioch and Ph.D. degree in Geochemistry from Harvard University. He has more than 42 years experience.



Charles P. Gerba, Ph.D., BCES Microbiology

Professor University of Arizona Department of Soil Water & Environmental Science Tucson, AZ 85721

Dr. Gerba received his B.S. degree in Microbiology from Arizona State University and Ph.D. degree in Microbiology from the University of Miami. He has more than 43 years experience.



Robert P. Ghirelli, D.Env., BCES Water Supply/ Wastewater

Assistant General Manager Orange County Sanitation District 10844 Ellis Avenue Fountain Valley, CA 92708

Dr. Ghirelli received his B.A. degree in Bacteriology and D.Env. in Environmental Science and Engineering from the University of California-Los Angeles and M.S. degree in Health Science from California State University-Northridge. He has more than 42 years experience.



Vladimir A. Kogan, Ph.D., BCES Air Pollution Control

Senior Scientist Orange County Sanitation District 10844 Ellis Avenue Fountain Valley, CA 92708

Dr. Kogan received his B.S. degree in Physics from Georgia State University USSR and M.S. in Applied Physics and Ph.D. in Technical Sciences from the Institute of Applied Physics, USSR. He has more than 53 years experience.



Richard C. Lorenz, BCES Water Supply/ Wastewater City of Westerville 21 South State Street

Mr. Lorenz received his B.A. degree in Botany from Miami University and M.S. degree in Environmental Biology from The Ohio State University. He has more than 36 years experience.

Westerville, OH 43081



Bruce A. Macler, Ph.D.,
BCES Toxicology

US EPA 75 Hawthorne Street, WTR 6 San Francisco, CA 94105 Dr. Macler received his A.B.

and Ph.D. degrees in Biochemistry from the University of California-Berkeley. He has more than 38 years experience.



Gerald E. McGowen, Ph.D., BCES Biology

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Dr. McGowen received his A.S. in Biology from Southwestern College, B.S. and M.S. degrees in Biology from San Diego State and Ph.D. in Biology from the University of Southern California. He has more than 45 years experience.



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Dr. Mohamed received her MBA in Management from the University of California-Los Angeles and Ph.D. degree in Chemistry from the University of Southern California. She has more than 31 years experience.



Roger L. Olsen, Ph.D., BCES Chemistry Senior Vice President

CDM Smith 555 17th Street Denver, CO 80202

Dr. Olsen received his B.Sc. in Chemistry and Ph.D. in Geochemistry from Colorado School of Mines. He has more than 40 years experience.



Joan A. Oppenheimer, BCES Chemistry

MWH 618 Michillinda Avenue #200 Arcadia, CA 91007

Ms. Oppenheimer received her B.A. degree in Chemistry from Brandeis University and MSPH degree in Environmental Sciences and Engineering from the University of North Carolina. She has more than 35 years experience.



William S. Stokes, D.V.M., BCES Toxicology

Assistant Surgeon General U.S. Public Health Service Division of National Toxicology Program National Institute of Environmental Health Sciences PO Box 12233, Mail Drop K2-16 Research Triangle Park, NC 27709-2233

Dr. Stokes received his B.S. in Biomedical Engineering from the University of Louisville and D.V.M. in Veterinary Medicine from Ohio State University. He has more than 37 years experience.



Ed Wilson, BCES Chemistry

Vice President, Managing Director, Lab MWH

750 Royal Oaks Drive Monrovia, CA 91016

Mr. Wilson received his B.A. in Chemistry from Southern Connecticut State University. He has more than 40 years experience.



Daniel M. Woltering, Ph.D., BCES Environmental Toxicology

Director of Research Water Environment Research Foundation 635 Slaters Lane Alexandria, VA 22314

Dr. Woltering received his B.S. in Biology from Bowling Green State University and M.S. degree in Fisheries Science and Ph.D. in Aquatic Toxicology from the Oregon State University. He has more than 39 years experience.



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David, Dzombak	. Pittsburgh, PA
Ledbetter, J. Leonard	. Kennesaw, GA
Vasuki, Nuggehalli	Dover, DE

General Fund

General Fund
Abron, Lilia
Barnard, James
Cleasby, John
Curtis, Lamont
Donovan, Richard
Flanagan, Matthew
Graber, Ralph
Haug, R. Tim

Thank you for your continued support.

Licht, Charles	Vestlake Village, CA Fresno, CA Stanford, CA
Malina, Joseph	Medina, MN Getzville, NY Sugar Land, TX
Michael, Jerrold Mohanka, Shyam Molongoski, Richard Morico, Kristin Musselman, Craig Nichol, George	Schenectady, NY Latham, NY Denville, NJ Portsmouth, NH
Nichols, George Nichols, Robert Nolen, C. Hunter	Webb City, MO

Norman, J. D. Jalisco, Chapala Nosanov, M. E. Oceanside, CA
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Peplin, Robert Minneapolis, MN Pickard, Barry Liverpool, NY Rezek, Joseph Lake Suzy, FL Rose, Timothy Kingston, NY Rotfeld, Dolph Tarrytown, NY
Rueck, Jon
Scarino, John
Shapiro, Elliot
Sorg, Thomas
Thibodeaux, Louis
Vasuki, Nuggehalli
Weaver, Steven

West, Maurice Lakewood, CO
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Wong, Joseph Ming-Lup Richmond, CA
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Zaslavsky, Yury Irvine, CA
Zegel, William Gainesville, FL
Zeyghami, Hooshang Weston, WI

K-12 Student Contest

Clinebell, Paul	Mahomet, IL
Howe, Richard	San Antonio, TX
Lue-Hing, Cecil	Burr Ridge, IL
Magee, Richard	Florham Park, NJ
Mohanka, Shyam	Schenectady, NY
Pope, Richard	White Plains, NY
Reinhart, Debra	Winter Park, FL
Tarr, James I	Rolling Hills Estates, CA

Kappe Lecture Fund

Rappe Lecione i una		
Abron, Lilia	Washington, DC	
Carns, Keith	Oakhurst, CA	
	Holyoke, MA	
Elwell, Frederick	Sanford, FL	
Gilbertsen, Robert	Libertyville, IL	
Hagan, James	Chadds Ford, PA	
Kane, Donald	San Antonio, TX	
Lindmark, Ulf	Westlake Village, CA	
Lue-Hing, Cecil	Burr Ridge, IL	
Monroe, Edward	Pittsburgh, PA	
Rosenkranz, William	Alexandria, VA	
Schneider, Robert	White Plains, NY	
Symons, James	Lakewood Ranch, FL	

Vasuki, Nuggehalli	Dover, DE
Wheeler, Robert	

Young, James Clinton.....Springdale, AR



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Cline, Gary	Phoenix, AZ
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Lue-Hing, Cecil	Burr Ridge, IL

W. Wes Eckenfelder Memorial Fund

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Carns, Keith Oakhurst, CA
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, , ,
Corn, Michael Brentwood, TN
Dee, WilliamWhite Plains, NY
Dewling, RichardUnion, NJ
Dzombak, David Pittsburgh, PA
Hendricks, David Arvada, CO
Hung, Yung-Tse Strongville, OH
Koon, John Atlanta, GA
Laughton, PeterOntario, Canada
Lue-Hing, AlbertMilwaukee, WI
Malina, JosephAustin, TX
-
Mohanka, ShymanSchenectady, NY
Mullen, Jason Adairville, KY
Munirathinam, Karunanidhi Schenectady, NY
Novotny, Vladimir Newton, MA
Reimers, Robert Metairie, LA
Stack, VernonThorndale, PA
Tchobanoglous, George Davis, CA
Thompson, Terrence Kathmandu, Nepal
1
Brown & Caldwell Walnut Creek, CA
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Dr. Davis Ford & AssociatesAustin, TX
Environmental Management
Services Hattiesburg, MS
Veolia Water Moon Township, PA
Δ

Academy News

Specialty Certification Renewal

The 2013 Specialty Certification Renewal cycle will be underway beginning in September. Notices will be emailed to all Board Certified members. Log in to the AAEE Center to update your contact information or to ensure that we have your most up-to-date email and address.

Shining the Spotlight

AAEE has special features on its website and in electronic and print publications in recognition of you, **the Academy's honored professionals**. If you want to toot your own horn, or someone else's, here are two ways to do it:

Volunteer of the Month. Part of the Academy's success lies with the selfless work of its members. Do you know of a member that always goes above and beyond? Then send a nomination for Volunteer of the Month. Email the 350-word nomination to YMoulden@aaee.net.

Side Tracks. Interested in knowing about the extracurricular activities of your fellow Academy members? Or do you have fun (or possibly funny) stories you'd like to share? Side Tracks is intended to provide a vehicle for learning about the outside interests of your colleagues. Email your submissions to YMoulden@aaee.net for a chance to be featured in a future issue of *Environmental Engineer*.

American Academy of Environmental Engineers and Scientists (AAEES)

Reminder: The Board voted to modify the name of the Academy to the American Academy of Environmental Engineers and Scientists in order to better reflect the collaboration between engineering and science. The official transition to AAEES will occur January 1, 2013. In addition to the new name, AAEE (AAEES) will also have a new website and logo. Publications and programs will sport new titles to incorporate the new name. Details will follow in the upcoming (Fall) issue of *Environmental Engineer*.

In Memoriam

Charles Robert Baillod, Ph.D., P.E., BCEE

1941 - 2012

harles Robert "Bob" Baillod passed away peacefully at his home on Thursday, April 12, surrounded by his family. He was born in Milwaukee on March 21, 1941, son of Charles Edward and Sylvia Catherine Baillod. He attended Catholic schools (Saint Gerard and Don Bosco High School) in Milwaukee, where he was salutatorian of the 1959 Don Bosco Class. He earned his baccalaureate degree in civil engineering (cum laude) from Marquette University, where he was recognized as the top student in his civil engineering class. He worked his way through school as a plasterer in the family business. After graduation, he served as an engineer with the Wisconsin Department of Transportation, and subsequently studied at the University of Wisconsin-Madison, where he earned master's and doctoral degrees in civil and environmental engineering.

Bob served on the Michigan Technological University Civil and Environmental Engineering faculty from 1968 until his retirement to emeritus status in 2007. His teaching and research focused on water and wastewater engineering, with an emphasis on biological wastewater treatment. During his tenure at Michigan Tech, he served in a variety of academic and research positions, including chairperson of civil and environmental engineering from 1991 to 2005. He guided more than 50 students to graduate degrees and authored over 50 peer-reviewed publications related to wastewater treatment, oxygen transfer, residuals reuse, and environmental engineering education. He was a licensed professional engineer in Michigan, and was a Board Certified Environmental Engineer by the American Academy of Environmental Engineers (AAEE). He held sabbatical appointments as a guest professor at the University of Wisconsin–Madison; Rogaland University in Stavanger, Norway; and the University of Sonora in Hermosillo, Mexico. He was a Fellow and Life Member of the American Society of Civil Engineers (ASCE), and a Life Member of the Water Environment Federation (WEF).

His honors include: Election as president of the Association of Environmental Engineering and Science Professors (AEESP) in 1991 and nomination for the AEESP Founders Award in 2012; election to the Board of Trustees of the American Academy of Environmental Engineers in 2006; appointment to the Michigan Transportation Commission by Governor John Engler in 2002; induction to the Michigan Tech Academy of Teaching Excellence; co-recipient of the American Foundrymen's Society Best Paper Award and the Michigan Society of Professional Engineers Outstanding Achievement in Education Award. In addition, he provided leadership for a number of engineering professional society efforts, including service as a Board of Directors alternate to ABET Inc., and service

as a program evaluator for civil and environmental engineering programs. He co-chaired the AAEE Environmental

> Engineering Body of Knowledge Task Force, chaired the AAEE Publications Committee, and was the founding editor of Environmental Engineer: Applied Research and Practice.

Bob was active in community service, serving for 34 years on the Portage Lake Water and Sewage Authority Board, including 18 years as its chairperson. In honor of his service, the Board named its new facility the Charles R. Baillod Administration Building in 2009. Bob also served on the Torch Lake Public Advisory Council and as an advisory trustee of the Michigan Tech Fund. He was a longtime organizer and participant in local novice hockey. In recognition of this, he

Bob is survived by his wife, Jeanine (Godfried) Baillod; sons Brian (Pam) Baillod and Brendon (Melissa) Baillod of Madison, Wisconsin, and Bradley Baillod of Brooklyn, New York; granddaughter, Alayna Baillod; and grandson, Justin Baillod. He is further survived by sisters Christine (John) Yelich, Margaret Baillod Yeager, and Mary Ann (Peter) Luther; brothers-in-law James, Joseph, and Jon Godfried; and sisters-in-law Debra Godfried and Julie (Will) Slough, as well as nieces and nephews Susan (Waldemar) Biniecki, Joel (Valerie Nye) Yelich, Jimmy Godfried, Victoria and Angela Luther, Philip (Christine) and Cecily Yeager, and Megan Plis. Bob is also survived by numerous cousins, including Louise (Frank) Barnett, Henry (Shirlee) Baillod, Madeline (James) Callahan, and Joann (David) Seibel. Bob was preceded in death by his brother, Daniel, and his parents, Charles and Sylvia.

received the 2006 Michigan Tech Faculty Athlete of the Year Award.

Bob was an avid Lake Superior boater and proud captain of his 1968 Chris Craft Commander, Seaventure, on which he spent many happy summers with his family, including many voyages to Isle Royale. He was a past admiral of the Onigaming Yacht Club and an active outdoorsman. He had a lifelong love of hockey: He coached his sons' teams in the CCJHA, held season tickets to Michigan Tech Hockey since 1970, played intramural hockey well into his 60s, and rarely missed a Red Wings game.

Bob had boundless energy and loved to design and build things. Of his many engineering projects, he was particularly proud of his home on Portage Lake, which he designed. Most of all, Bob was a devoted husband, father, and grandfather who cherished his time with his family. He was a generous and patient mentor who guided his family and his students to successful professional lives. He will be greatly missed, but his legacy will continue to enrich his family and community for many years to come.

Obituary and picture provided by Brendon Baillod.

ironmental Engineering **Science Education:**

We are not quite like the rest.

Environmen-

disciplines.

by Joel G. Burken, Associate Chair and Professor Missouri University of Science and Technology President, AEESP

As we look to current and future environmental engineering and science problems, we are faced with new ideas and concepts, many of which pose expansive challenges and draw considerable attention. Research into nanoparticles in the environment (impacts and prevention) and methods to treat hydrofracking water at dispersed sites are current hot topics that surfaced in rather rapid fashion. As a profession, we are counted on to provide answers NOW, and the answers are expected by many who view our profession as limiting economic progress and others who believe we are the protectors of human health. Environmental engineers and scientists have a unique position of being handed such challenges and being expected to serve both viewpoints. We have to balance protection of human health and our environment as our society rapidly progresses technologically. tal engineers and Environmental engineers and scientists have a scientists have a unique unique impact in that our findings can have an impact in that our findings effect up the technology chain to greatly affect other fields, rather than down the chain as in can have an effect up the many engineering disciplines. New challengtechnology chain to greatly es come from breakthroughs in understanding affect other fields, rather toxicology and public health that shed light than down the chain as on historical pollutants or problems (see flame in many engineering retardants like PBDEs), from catastrophic events (Deep Water Horizon), or from pending technological breakthroughs (like new industrial compounds or practices like hydrofracking methods). Each challenge is deeply engaged with natural sciences and solutions requiring

We need to have an open mind to the field where many in our profession are applying their skills and expertise, and, in education, we must be more forward thinking or even imaginative regarding where our graduates will be applying their education in decades to

advanced engineering approaches. How we handle each challenge

also has profound impacts on other industries, a rather unique role

to our field.

come. In almost all cases, the fundamentals remain: mass balance approaches and a solid understanding of reactivity and transport in environmental media or in engineering treatment processes. A strong base in physico-chemical and biological fundamentals is consistent across many challenges we face.

Another aspect that sets us apart is our role in developing and implementing public policy and, therefore, our place in the public and political arenas. The dual nature of our field noted above is well represented in recent House and Senate discussions and votes. A resolution from Senator James Inhofe was set to overturn regulations on mercury emissions and came to a Senate vote (defeated). Around the same time, reports on current levels of mercury in the great lakes raised concern of many people. Could one imagine a Senate resolution to claim a bridge is safe when the engineers and scientists tasked with the determination had established a weight threshold

or issued a public safety warning? Representative Harold

Rogers (House Appropriations Chair) noted that a 17 percent cut to EPA "prevents the EPA and other federal bureaucracies from stepping out of their

lane and stifling our economic recovery." The House also passed measures aimed at preventing EPA regulations on power plants, cement factories and paper mills from going into effect. As environmental engineers and scientists, we are the ones setting those regulations and then implementing the necessary technologies and practices to meet them. The inclusion of 'environmental' can certainly polarize a topic, and carrying that single word on one's diploma and

business card can automatically excite situations where public or political involvement is included. Opportunities are needed to raise awareness of and to provide education and experience for our students to become engineer-citizens and scientist-citizens and engage professionally in discussions and decision making related to their career expertise. I certainly hope as leaders in our field, AAEE and AEESP will continue to be forward looking and advance our field toward a horizon that will always include an element of unknown challenges that await. A





he 2012 AAEE Awards Luncheon and Technical Conference was held April 26 at the National Press Club in Washington, D.C.

The all-day event began with five morning sessions of the technical conference. Jonathan R. Holland, P.E., conducted the first presentation for Brown and Caldwell's Lake Oswego Interceptor Sewer. The second presentation, Innovative Energy Management Proves that It Pays to Be Green, was conducted by Charles E. Boehmke, P.E., BCEE, for the Sanitation Districts of Los Angeles County. Next was Sudhir N. Murthy, Ph.D., for DC Water & AECOM's DC Water Advances the Frontiers on the Road to Energy Neutrality at a Large Enhanced

Nutrient Removal Plant. The fourth presentation was for Housing and Development Board's My Waterway@Punggol - Singapore's Longest Man-Made Waterway by Wilfred Neo. The fifth presentation was conducted by Douglas Guy for PEER Africa (PTY) Ltd./PEER Consultants' Witsand iEEECOTM (integrated Energy environment empowered-cost optimization) Sustainable Human Settlement.

Following the morning sessions, AAEE held its champagne reception, allowing a productive networking opportunity for attendees. Stephen R. Maguin, P.E., BCEE, Chair of AAEE's Excellence in Environmental Engineering Awards Committee, served as the Luncheon Master of Ceremonies.

This year marked Mr. Maguin's final year as Chair and MC for the event.

Chief of the Army Reserve and 2010 Keynote speaker, Major General Jeffrey Talley, Ph.D., P.E., BCEE, D.WRE, introduced the 2012 Keynote Speaker, Lieutenant General Robert L. Van Antwerp, Jr., M.Sc., M.B.A., P.E., and former Chief of Engineers of the U.S. Army and Commanding General of the U.S. Army Corps of Engineers, now with the Flippen Group. Before giving his crowdpleasing speech, "Taking Environmental Leadership into the 21st Century", he was presented with the Honorary Member Award by Dr. Cecil Lue-Hing, P.E., BCEE.

AAEE leadership and other dignitaries from engineering, science, government,



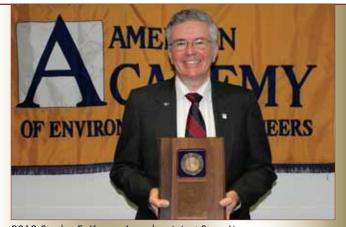
Keynote Speaker, Lieutenant General Robert L. Van Antwerp, Jr., capitivates the audience.



Veolia Water's Lisa Schilling presents the first-ever W. Wesley Eckenfelder Industrial Waste Management Medal to Malcolm Pirnie, the Water Division of ARCADIS. Accepting was Paul Bassette. Veolia Water is the award sponsor.



President Selna presents the Superior Achievement Award to PEER Africa (PTY) Ltd/PEER Consultants. (left to right) President Selna, Duke Gumede, Thato Hwili, Engineer-in-Charge Dr. Lilia Abron, South African Ambassador Ebrahim Rasool, Bruce Erlangsen, and Douglas Guy.



2012 Stanley E. Kappe Award recipient Steve Lippy.

and international communities were among the more than 150 in attendance. They included Dr. Kashinath Banerjee, P.E., BCEE, Senior Technical Director, Veolia Water Solutions & Technology; U.S. Army Major Jared T. Corsi; Dr. Richard Dixon, Global Environmental Facility; Dr. Ajit Kisanrao Ghorpade, BCEEM, Technical Director, Veolia Water; Duke Gumede, New Settlements Dictorate, City of Cape Town, South Africa; Herman Jacobs, Counsellor, Socio Economic and Development, Embassy of the Republic of South Africa; Peter King, Executive Director, American Public Works Association; Carol Lynn MacCurdy, Water Policy Advisor, Office of Environmental Policy, Bureau of Oceans, Environment,

and Science for the U.S. State Department; Dr. Debbie Reinhart, P.E., BCEE, Program Director, National Science Foundation and Past President of American Academy of Environmental Engineers; Joseph Mantua, Past President, American Water Works Association; Debra Martinez, Executive Director, International Ultra Violet Association; Mike Milligan, Executive Director, Accreditation Board for Engineering and Technology; Ivan Montalvo, Advisor, Inter-American Association of Sanitary and Environmental Engineering; and Ambassador Ebrahim Rasool, Embassy of the Republic South Africa.

Six awards were presented to recognize individuals for their excellence and leadership in the environmental engineering profession.

Dr. James Mihelcic, BCEEM, and AEESP Trustee, presented the William Brewster Snow Award to Sarah Ness. The Snow Award is awarded to an outstanding engineering student currently pursuing or recently completing a Masters degree in Environmental Engineering or closely related degree program.

HDR representative and AWWA Trustee, Steve Quail, P.E., BCEE, presented the inaugural W. Wesley Eckenfelder Graduate Research Award to Ms. Xia He. The Eckenfelder Graduate Research Award, sponsored by HDR, is given annually to recognize a student whose research contributes to the knowledge pool of industrial wastewater management.



Patrick Burke views the E3 panels on display.



Herman Jacobs, Steve Lippy, Wendy Wert, and Lilia Abron enjoy the champagne reception.



2012 W. Brewster Snow Award recipient Sarah Ness and Dr. James Mihelcic.



Brown and Caldwell's Perry Schafer, Phil Braswell, and John Holland display their Grand Prize awards.



Dr. Cecil Lue-Hing, Lieutenant General Robert L. Van Antwerp, Jr., and Major General Dr. Jeffrey Talley



Xia He is presented with the inaugural W. Wesley Eckenfelder Graduate Research Award by Steve Quail.



Pat Canzano, Bud Curtis, and Dr. Otis Sproul network at the champagne reception.



Inaugural Excellence in Environmental Engineering Education Award recipient, Dr. George Tchobanoglous



Hunter Nolen, John Beardslee, and Mitch Baumann accept the Honor Award for Industrial Waste Practice for CDM Smith's Marathon Oil Company Adam's Ranch Water Treatment Facility.



Richard Lanyon and Dr. Geeta Rijal are congratulated by Dr. Cecil Lue-Hing for MWRDC's Grand Prize University Research winning project, Chicago Health, Environmental Exposure, and Recreation Study (CHEERS).

President Michael W. Selna, P.E., BCEE, presented the inaugural Excellence in Environmental Engineering Education Award to Dr. George Tchobanoglous, P.E., BCEE. The E4 award was sponsored by GHD, Lee & Ro, MWH, and Parsons. Dr. Tchobanoglous, Professor Emeritus in the Department of Civil and Environmental Engineering at the University of California, Davis, is a Life Member of AAEE and has been board certified in Water Supply and Wastewater Engineering since 1987.

Past President Brian Flynn, P.E., BCEE, presented the Stanley E. Kappe Award to Stephen G. Lippy, P.E., BCEE. The Stanley E. Kappe Award is presented to an individual for performance of extraordinary and

outstanding services contributing to the advancement of the Academy objectives. Mr. Lippy, a strong advocate of AAEE and SWANA Trustee, retired from the Baltimore County Bureau of Solid Waste Management in March 2012 and has been board certified in Solid Waste Management since 1982.

President-Elect Pasquale "Pat" Canzano, P.E., BCEE, presented the Academy's most prestigious individual honor, the Gordon Maskew Fair Award. This award is presented to an individual for substantial contributions to the status of the engineering profession, the quality of the world's environment, and the Academy. Two individuals were recognized for 2012. The first award was presented to Dr. C.P. Huang,

BCEEM. Dr. Huang, Donald C. Phillips Professor, University of Delaware, has been board certified in Hazardous Waste Management since 2007. The second was awarded to Dr. Otis J. Sproul, P.E., BCEE. Dr. Sproul, Dean and Professor Emeritus, University of New Hampshire, has been board certified in General Environmental Engineering since 1979.

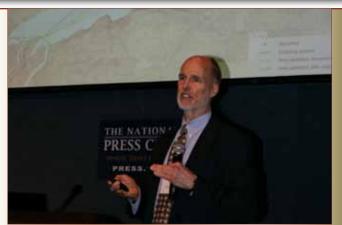
Following the individual award presentation, winners of the 2012 Excellence in Environmental Engineering Competition were recognized.

Two awards were given for the Research category. Lili Wang was on hand to accept

continued on page 26



Steve Maguin receives a special Certificate of Appreciation for having served as Chair of the Excellence in Environmental Engineering Committee from 2006 to 2012 from President Michael Selna.



Jon Holland presenting Brown and Caldwell's Grand Prize Design winning Lake Oswego Interceptor Sewer project during a morning session of the technical conference.



Sean Taylor accepts Kennedy/Jenks' Grand Prize award for Communicating Perspectives on Water Supply and Desalination Energy Use, one of three awards given for the inaugural Environmental Communcations Award.



Dr. Otis Sproul receives one of two 2012 Gordon Maskew Fair Awards from President-Elect Pat Canzano.

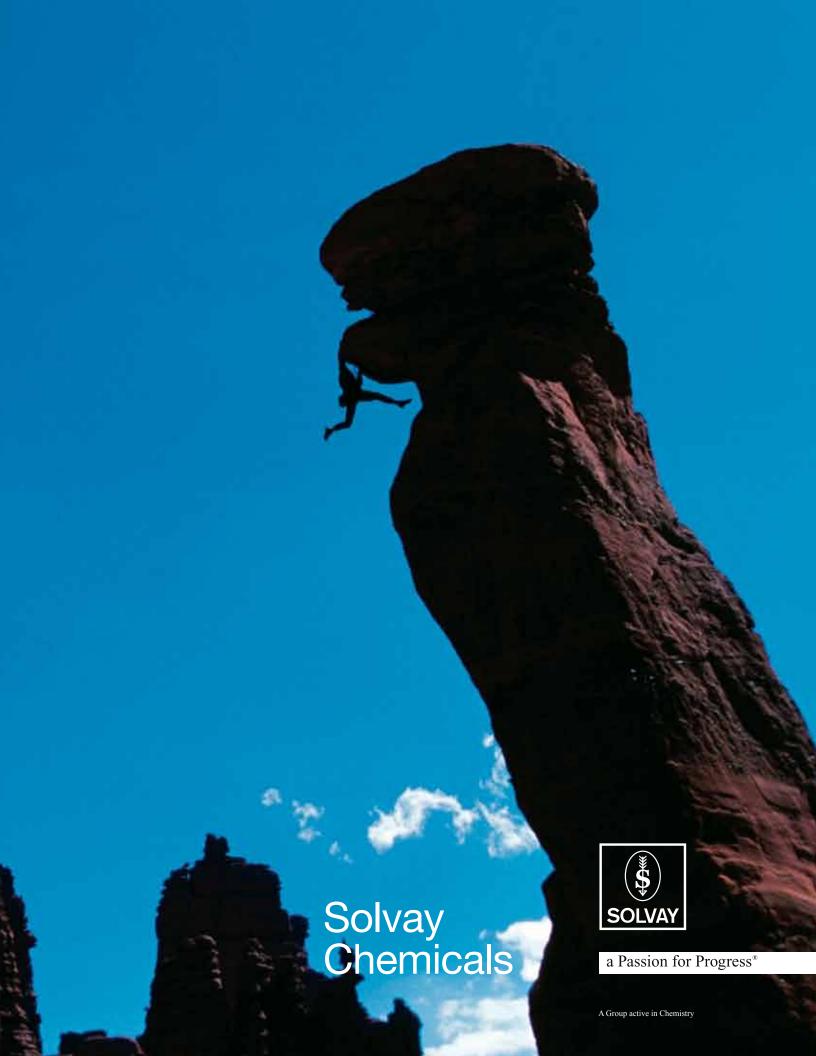
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Editor's Note

The following individuals renewed their specialty certification before the January 31 deadline, but were inadvertantly omitted from the 2012 Who's Who in Environmental Engineering. The Academy apologizes for this error. All current certified environmental engineers may be found in the online directory.

Board Certified Environmental Engineers

John N. Brogard

8 S. Hillside Ave. Elmsford, NY 10523

Phone: (H) (914) 592-6591, Fax: (O) (212) 637-4437

E-mail: (O) BROGARD.JOHN@EPA.GOV

Education: BS-Syracuse University 6/2/1962; MS-Polytechnic University of Brooklynn 1/27/1983 Licensed: NY/43815. Certification Date(s): 1/1/1979. Areas of Specific Expertise: (HW) Hazardous Materials Management-Thermal Treatment; (HW) Hazardous Materials Management-Exposure & Risk. **Awards and Honors:** Sustained Superior Performance-US Environmental Protection Agency; Sustained Superior Performance-US Environmental Protection Agency Outstanding Performance Rating-US Environmental Protection Agency; Special Act Award-US Environmental Protection Agency; US Env. Protection Agency-OPPTS Team Award; Deans Outstanding Alumni-Syracuse Univ. College of Eng. Sponsoring Organization Membership: ASCE-NSPE

Certification Status: Active

George Matthew Brown

ww

610 Cobblestone Lane Lancaster, PA 17601

Phone: (H) (717) 560-0984, Fax: (O) (717) 560-0577

E-mail: (O) MATT.brown@thearrogroup.com

Education: BS-Water Resources Eng. Tech-Pennsylvania State University 6/1/1976. Licensed: PA/031483-E and 4 other state(s). Certification Date(s): 7/29/1994. Areas of Specific Expertise: (WW) Chemical & Physical Treatment Process for Water & Wastewater-Filtration; (WW) Chemical & Physical Treatment Process for Water & Wastewater-Coagulation/Flocculation. Sponsoring Organization Membership: AWWA.

Certification Status: Active

Randall C. Osburn

ww

Vice President

HDR

3733 National Drive

Suite 207

Raleigh, NC 27612

Phone: (O) (919) 785-1118, Fax: (O) (919) 785-1187

E-mail: (O) randall.osburn@hdrinc.com

Education: BS, Civil Engineering, University of Kansas 5/1/1988; MS, Environmental Health Engineering, University of Kansas 5/1/1991. Licensed: KS/13152 and 10 other state(s). Certification Date(s): 11/7/2008. Sponsoring Organization Membership: AWWA, NSPE, WEF. Certification Status: Active

Jeffrey F. Payne

2525 Ainsdale Road Charlotte, NC 28226

Phone: (H) (704) 365-7853, Fax: (O) (704) 342-2296

E-mail: (O) paynejf@cdmsmith.com

Education: BS-Engineering-University of Florida 12/21/1985; MS-Engineering-University of Florida 8/8/1987. Licensed: NC/024686/1 and 1 other state(s). Certification Date(s): 11/8/2001. Areas of Specific Expertise: (WW) Wastewater Collection-Sewerage Systems; (WW) Hydromechanics-Pumping. Awards and Honors: Outstanding Chapter Serv. Award-NSPE. Sponsoring Organization Membership: AWWA-WEF.

Certification Status: Active

Terrence P. Thompson

ww

Sr. Environmental Health Adviser World Health Organization PO Box 108

Pulchowk Lalitour

Kathmandu, Nepal

Phone: (C) 9779801010038

E-mail: (H) thompson.terrence@gmail.com

Education: BS-Civil Engineering-Manhattan College 5/1/1977; MS-Environmental Engineering-Manhattan College 9/1/1979. Licensed: NY/59621 and 1 other state(s). Certification Date(s): 1/1/2/1986. Areas of Specific Expertise: (WW) Surface-Water Quality-Drinking-Water Supply; (WW) Drinking Water Quality-Chemicals, Inorganic. Awards and Honors: 10-year Service Awards Pan American Health Organization 1998; Fellow Grade-ASCE. 1999; India Life Fellow-Institution of Public Health Eng 2001; 15 Year Service Award-World Health Organization 2005: World Health Organization-20 Year Service Award 2009. Sponsoring Organization Membership: ASCE Certification Status: Active

Terry M. Zaudtke

ww

2065 Wiggley Farms Road

Deltona, FL 32725

Phone: (O) 386-532-7959, Fax: (O) (407) 648-1036

E-mail: (O) tzaudtke@cphengineers.com

Education: BS-Civil Engineering-University of Minnesota 1/1/1976; MS-Civil/Environmental Engri-University of Minnesota 1/1/1979. Licensed: MN/14420/4. Certification Date(s): 5/1/1990. Awards and Honors: Student of the Year-ASCE. Sponsoring Organization Membership: APWA-ASCF-WFF

Certification Status: Active

Board Certified Enviornmental Engineering Members

C.P. HuangDonald C. Phillips Professor

University of Delaware

352 Dupont Hall

Newark, DE 19716 United States

Phone: (O) (302) 831-8428, Fax: (O) (302) 831-3640

E-mail: (O) huang@udel.edu

Education: Ph.D.-Environmental Engineering, Harvard University 6/1/1971; MS-Environmental Engineering, Harvard University 6/15/1967; BS, Civil Engineering, National Taiwan University 5/15/1964. Licensed: DE/4851. Certification Date(s): 5/2/2007. Awards and Honors: Gordon Maskew Fair Medal--WEF; Gold Medal in Research--Chinese Institute Env. Eng.; Wesley W. Horner Award--ASCE

Certification Status: Active

Did You Know?

Dedication that Words Cannot Describe

Acting on the recommendation of the Academy's Membership Committee in 1985, the Executive Committee approved establishing AAEE State Membership Chair-

The two basic purposes of the State Membership Chairman were:

- to identify potential individuals and assist them with the application process and
- to coordinate the examination and interview process.

Today, the State Membership Chairmen are now called State Representatives. AAEE would like to recognize three individuals who have served in this capacity for 27 years. They are:

Kiran L. Bhayani, serving Utah Leroy C. Feusner, serving Wyoming. Lorenzo Iglesias-Velez serving Puerto Rico

Environmental Engineering Foundation



he Environmental Engineering Foundation was established by the American Academy of Environmental Engineers to provide a tax-exempt vehicle to raise funds in support of the Academy's programs. The Mission of EEF is "advancing the stature and practice of Environmental Engineering by promoting the profession, educating the public, assessing issues and recognizing professional achievements." Funds received by EEF are used to carry out this mission in cooperation with AAEE and its member organizations.

The Foundation continued to make great strides in 2011. The Board has been working with committees of AAEE to broaden our support of its educational endeavors and to aid the Student and Young Professionals Committee. The Foundation, in cooperation with AAEE and AEESP, sponsored the inaugural Brewster Snow Award and the Frederick G. Pohland Medal. Additionally, the Foundation met it responsibilities as the repository for and caretaker of funds for various programs honoring the late W. Wesley Eckenfelder, P.E., DEE. These include a Distinguished Lectureship,

an Outstanding Graduate Award, an Industrial Waste Management Medal, and a University Lecture program. AAEE, AEESP, WEF, and others participate in organizing and implementing these programs.

In early, 2011 former AAEE President Cecil Lue-Hing was elected to the EEF Board. At year end, Nancy G. Love and AAEE Past President Brian Flynn joined the Board and Amy E. Childress and Charles A. Willis retired from the EEF Board. The 2012 Officers of EEF are President Alan Vicory, Vice President Cecil Lue-Hing and Secretary-Treasurer Glen Daigger.

We encourage members of the Academy to contribute to Environmental Engineering Foundation and to support the Foundation in fulfilling the role envisioned by its founders. Donations can be mailed to Environmental Engineering Foundation c/o AAEE by using the PayPal button on the web site of EEF or through the AAEE Center.

Respectfully submitted,

Charles A. Willis, P.E., BCEE EEF 2011 President

2012 Environmental Engineering Foundation Board

- Alan H. Vicory, Jr., P.E., BCEE, President
- Cecil Lue-Hing, D.Sc., P.E., DEE, Hon.M.ASCE, NAE, Vice President
- Glen T. Daigger, Ph.D., P.E., BCEE, NAE, Secretary-Treasurer
- Keith Carns, P.E., BCEE, Member
- Brian P. Flynn, P.E., BCEE, Member
- Nancy G. Love, Ph.D., P.E., BCEE, WEF Fellow, Member
- Debra R. Reinhart, Ph.D., P.E., BCEE, Member
- Joe Rozza, P.E., BCEE, Member

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ENVIRONMENTAL POUR AT 10 ENGINEERING ENGINEERING

Flashback

With AAEE transitioning to a new name, American Academy of Environmental Engineers and Scientists in 2013, we thought it would be interesting to revisit historic moments from AAEE's past published in past issues of *Environmental Engineer* (originally titled, *The Diplomate*).



Published: Summer 1985 (Volume 20, Number 3)
Original Caption: Stephen G. Lippy, P.E., Baltimore County Bureau
of Sanitation, explaining the Academy to interested persons during
HAZPRO '85 which was held in Baltimore.

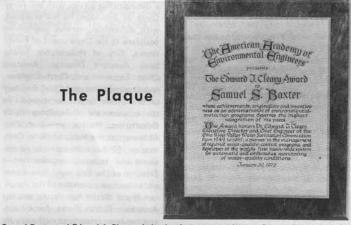


Published: May 1972 (Volume 10, Number 2)
Original Caption: Congressman Gude (R-Md.) visits AAEE
Rockville Headquarters. Left to right: Executive Director Kappe;
Congress Guide; Trustee Touhill; Dick Heil, Kappe Associates,
Inc., AAEE Staff; Vice President Green; and Congressman
Gude's Aide, O'Bryan.



Published: December 2005 (Volume 41, Number 4)
Original Caption: Al Stevenson, Past President from 1968, stood to address the audience. (AAEE's 50th Anniversary Banquet held November 2, 2005 at the Marriott Renaissance Hotel in Washington, DC.)

First Annual Edward J. Cleary Award Presented to Samuel S. Baxter



Samuel Baxter and Edward J. Cleary admire the plaque presented to Baxter at the Keynote Luncheon of the ASCE Annual Water Resources Conference.

Samuel Baxter and Edward J. Cleary talk with Frank Butrico, Secretary of the EEIB, who made the presentation to Baxter.









Published: May 1978 (Volume 13, Number 2)
Original Caption: Left to right: Recipients of Past President Award: Albert H. Stevenson (68);
Daniel A. Okun (70); Harry P. Kramer (71); Wesley E. Gilbertson (72); Richard S. Green (76);
John D. Parkhurst (77); James B. Coulter (current president)

AAEE Awards Luncheon & Technical Conference

continued from page 19

the Honor Award for US Environmental Protection Agency's Arsenic Demonstration Program (Cincinnati, OH). Thomas J. Sorg, P.E., BCEE was Engineer-in-Charge. The Grand Prize went to DC Water & AE-COM for their project, **DC Water Advances** the Frontiers on the Road to Energy Neutrality at a Large Enhanced Nutrient Removal Plant (Washington, DC). Accepting the award were Engineer-in-Charge Walter Bailey, Jr., P.E., BCEE, (DC Water), and Beverley Stinson (AECOM).

In the awards category of Planning, Patrick Burke, P.E., accepted the Honor Award for CH2M HILL's Regional Water Planning in Georgia (Atlanta, GA). Engineer-in-Charge was Brian Skeens, P.E. The Grand Prize went to Brown and Caldwell for DC Water Biosolids Program (Washington, DC). Accepting the award were Engineer-in-Charge Perry Schafer, P.E., BCEE, of Brown and Caldwell; and Leonard Benson and Walter Bailey, Jr., P.E., BCEE., of DC Water.

There were three awards for Design, including two Honor Awards. The first Honor Award was presented to Bioengineering ARCADIS, LLC for Gulf Intracoastal

Waterway, West Closure Complex Pump Station (New Orleans, LA). On hand to accept the award on behalf of Engineer-in-Charge Wayne Welch, P.E., were Dennis Kamber, P.E., BCEE, of ARCADIS; Lieutenant General (Ret) Robert B. Flowers, P.E., representing the U.S. Army Corps of Engineers; and Wendi Goldsmith, CEO and founder of Bioengineering Group. The second Honor Award went to the team of CH2M HILL/Brown and Caldwell for the Brightwater Treatment Plant (Seattle, WA). Accepting the award were Engineerin-Charge Patrick Burke, P.E., and Craig Goehring of Brown and Caldwell; Christie True and Pam Elardo of King County De-



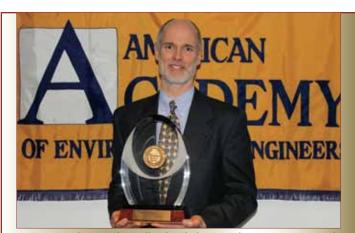
Kate Peabody proudly displays CH2M HILL's Honor Award for the inaugural Environmental Communications Award for their project, Access Water.



AAEE Trustee-at-Large Richard Pope, Dennis Kamber, and Paul Bassette.



Perry Schafer presenting Brown and Caldwell's project, DC Water Biosolids Program, at an afternoon session of the technical conference.



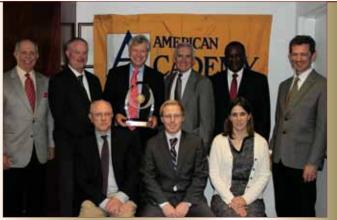
Engineer-in-Charge John Holland with the Grand Prize Design award for Brown and Caldwell's Lake Oswego Inteceptor Sewer project.



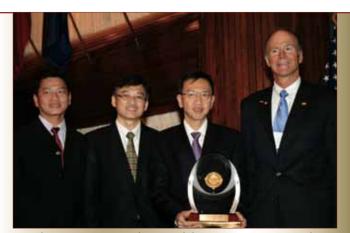
Executive Director Joseph Cavarretta and President Michael Selna with Lili Wang, who accepted US Environmental Protection Agency's Honor Award for its Arsenic Demonstration Program.



CH2M HILL/Brown and Caldwell won Honor Award Design for Brightwater Treatment Plant. On hand to accept were Pam Elardo, Christie True, Patrick Burke, Elizabeth Hill, and Craig Goehring.



Brown and Caldwell won Grand Prize in the Planning category for the project, DC Water Biosolids Program. Back (left to right) Thomas Decker, Jeff Garber, Phil Braswell, Larry Jaworski, Sam Roberts, Paul Guttridge. Front (left to right) Engineer-in-Charge Perry Schafer, Leon Collister, Lisa Reynolds.



Grand Prize, Environmental Sustainability winner, Housing Development Board Tan Hock Seng, Wilfred Neo, and Sng Cheng Keh with President Michael Selna.



Engineer-in-Charge Daniel String and Bruce Jones representing Green Stone Engineer's Grand Prize Small Firms award for Innovation, Safety, and Sustainability at the Kent County Regional Wastewater Treatment Facility.



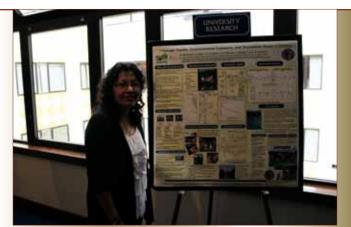
Dr. Cecil Lue-Hing presents Lieutenant General Robert Van Antwerp, Jr. with the AAEE Honorary Member award.



Housing Development Board's Wilfred Neo presents the Environmental Sustainability Grand Prize winning project, My Waterway@ Punggol - Singapore's Longest Man-Made Waterway at the morning session of the technical conference.



President Selna (center) presents the Operations/Management Grand Prize award to Andre Schmidt (left) and Charles Boehmke (right) for Sanitation Districts of Los Angeles County's project Innovative Energy Management Proves that It Pays to Be Green.



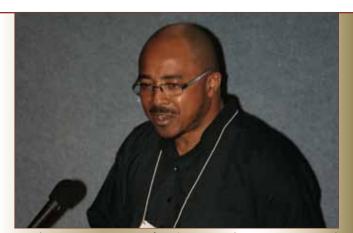
Technical conference presenter, Dr. Geeta Rijal, stands next to MWRDC's panel for University Research Grand Prize winner, Chicago Health, Environmental Exposure, and Recreation Study (CHEERS), during the champagne reception.



President Selna presents the Honor Award in Design to Robert B. Flowers, Wendi Goldsmith, and Dennis Kamber for Bioengineering ARCADIS' Gulf Intracoastal Waterway, West Closure Complex Pump Station.



2012 Gordon Maskew Fair Award recipient, Dr. C.P. Huang and President-Elect Pat Canzano.



Douglas Guy presents PEER Africa/PEER Consultants' Superior Award winning project, Witsand iEEECOTM (integrated energy environmental empowerment-cost optimization) Sustainable Human Settlement during a morning session of the technical conference.

partment of Natural Resources and Parks; and Elizabeth Hill of CH2M Hill.

The Grand Prize in Design went to Brown and Caldwell for **Lake Oswego Interceptor Sewer** (Lake Oswego, OR). Accepting the award were Engineer-in-Charge Jonathan Holland, P.E., and Craig Goehring.

There were two awards in the Operations/Management category. The Honor Award went to Malcolm Pirnie, the Water Division of ARCADIS in association with Stantec and H.R. Gray for **Columbus Professional Program Management** (Columbus, OH). Cosmo Bertino, P.E., BCEE was Engineer-in-Charge. The Grand Prize went to the Sanitation Districts of Los Angeles County for **Innovative Energy Manage**-

ment Proves that It Pays to Be Green (Los Angeles County, CA). Accepting on behalf of Engineer-in-Charge Grace Chan, P.E., BCEE, were Charles Boehmke, P.E., BCEE, and Andre Schmidt.

For the University Research category, Engineer-in-Charge Stacey Lamer, P.E., BCEE and Dr. Belinda Sturm were on hand to accept the Honor Award for the University of Kansas' project, Coupling Algal Biomass Production with Wastewater Nutrient Removal (Lawrence, KS). The Grand Prize went to the Metropolitan Water Reclamation District of Greater Chicago for the Chicago Health, Environmental Exposure, and Recreation Study [CHEERS] (Chicago, IL). Engineers-in-Charge were Richard Lan-

yon, P.E., BCEE, Louis Kollias, P.E., BCEE, and Dr. Catherine O'Connor. Mr. Lanyon was on hand to accept the award.

The Small Projects category featured Grand Prize winner Leggette, Brashears & Graham, Inc., for Innovative Phytoremediation Process Utilizes Landfill Leachate as a Resource in Lieu of Traditional Disposal as a Waste (Biloxi, MS). Accepting the award was Person-in-Charge Brad Granley and Tim Torrez.

The Grand Prize in the Small Firms category went to Green Stone Engineering, LLC, for Innovation, Safety and Sustainability at the **Kent County Regional Wastewater Treatment Facility** (Milford, DE). Engineer-in-Charge Daniel String,



The Academy offered PDHs for those attending the technical conference.



Jeff Talley, Robert Van Antwerp, Jr., and Dr. Cecil Lue-Hing look on during the Awards Luncheon.



Belinda Sturm and Stacey Lamer accept the University Research Honor Award for the University of Kansas' project Coupling Algal Biomass Production with Wastewater Nutrient Removal.



Posing with the Superior Achievement Award are: (back left to right) Douglas Guy, Bruce Erlangsen, Harold Charles, Lilia Abron, Duke Gumede, and (front) Thato Hwili.

P.E., was on hand to accept the award.

The Environmental Sustainability category had two awards. Person-in-Charge Mark Roberts accepted the Honor Award for HDR's Hickory Ridge Landfill Solar Energy Cover (Conley, GA). The Grand Prize went to Housing and Development Board for My Waterway@Punggol, Singapore's Longest Man-Made Waterway (Singapore). Engineers-in-Charge were Er. Yap Tiem Yew and Er. Khoo Tou Khiang. Accepting the award on their behalf were Tan Hock Sing and Wilfred Neo.

New to the Excellence in Environmental Engineering Competition was the Industrial Waste Practice category. The Honor Award went to CDM Smith for its project, Marathon Oil Company Adam's Ranch Water Treatment Facility (Sheridan, WY). Robert Kimball, P.E., BCEE, was Engineerin-Charge. Accepting the award were Mitch Baumann and John Beardslee of the Marathon Oil Company, and Hunter Nolen, P.E., BCEE, of CDM Smith.

The Industrial Waste Practice Grand
Prize winner also received the W. Wesley
Eckenfelder Industrial Waste Management
Medal. This inaugural Eckenfelder Medal
was sponsored by Veolia Water Solutions &
Technology, North America. The Grand
Prize winner was Malcolm Pirnie, the Water
Division of ARCADIS for the project, CoDigestion and Combined Heat and Power
Improvements (Johnstown, NY). Accept-

ing on behalf of Engineer-in-Charge Daniel Loewenstein, P.E., BCEE, was Paul Bassette, P.E., BCEE. Lisa Schilling, Veolia Marketing Director, presented the W. Wesley Eckenfelder Industrial Waste Management Medal.

The Superior Achievement for Excellence in Environmental Engineer Award is presented to the best entry in the year's competition. The top prize went to PEER Consultants, PC/PEER Africa (pty) Ltd. for Witsand iEEECOTM (integrated energy environment empowerment-cost optimization) Sustainable Human Settlement (Atlantis, Cape Town South Africa). On hand to accept this most prestigious award were Engineer-in-Charge Dr. Lilia Abron, P.E., BCEE, PEER Consultants, PC; Mothusi "Douglas" Guy,



Attendees of the technical conference



Sammi Olmo receives a special Certification of Appreciation and a hug from Michael Selna for her many years of hard work and dedication in making the Annual AAEE Awards Luncheon a success.



Dr. Sudhir Murthy presented DC Water & AECOM's Research Grand Prize winning project during a morning session of the technical conference.



Phil Braswell, Walter F. Bailey, and Perry Schafer are presented the Planning Grand Prize award by Michael Selna.

PEER Africa (pty) Ltd.; South Africa Ambassador Ebrahim Rasool; Bruce Erlangsen, Nadesen Engineers; Thato Hwili, WEHBSO, South Africa; and Duke Gumede, Project Manager, Cape Town Housing Authority, South Africa.

A new award was introduced for 2012. As costs and scopes for environmental engineering projects have increased, effectively educating the public has become equally important. This was the basis for another Academy first, the Environmental Communications Award. Kate Peabody accepted the Honor Award for CH2M HILL's Access Water. Two projects tied for the Grand Prize. The first was DC Water for its Clean Rivers Project Communication Campaign.

Pamela Mooring was on hand to accept the award. Sean Taylor accepted the second Grand Prize presented to Kennedy/Jenks for its Communicating Perspectives on Water Supply and Desalination Energy Use.

The technical conference immediately resumed following the luncheon. Daniel R. String, P.E., BCEE, kicked off the afternoon session with the Green Stone Engineering, LLC's Innovation, Safety, and Sustainability at the Kent County Regional Wastewater Treatment Facility. Following was Perry Shafer, P.E., BCEE, for Brown and Caldwell's DC Water Biosolids Program. Malcolm Pirnie's Co-Digestion and Combined Heat and Power Improvements was presented by Paul Bassette, P.E.,

BCEE. Brad Granley presented Leggette, Brashears & Graham, Inc.'s Innovative Phytoremediation Process Utilizes Landfill Leachate as a Resource in Lieu of Traditional Disposal as a Waste. Geeta K. Rijal, Ph.D., R.M. (NRCM), completed the afternoon session with Metropolitan Water Reclamation District of Greater Chicago's Chicago Health, Environmental Exposure, and Recreation Study (CHEERS).

Many thanks to Richard Pope, P.E., BCEE, and AAEE's Financial Manager, Lisa Pike for doubling their duties and acting as AAEE's photographers for this successful event.



Sudhir Murthy, Walter Bailey, and Pamela Mooring display DC Water's awards.



Tim Torrez and Brad Granley accept Leggette, Brashears & Graham, Inc.'s Grand Prize Small Projects award for Innovative Phutoremediation Process Utilizes Landfill Leachate as a Resource in Lieu of Traditional Disposal as a Waste.



Duke Gumede, Ambassador Rasool, and Ivan Montalvo.



Mike Selna presents Mark Roberts with the Environmental Sustainability Honor Award for HDR's Hickory Ridge Landfill Solar Energy Cover project.

2011 FINANCIAL STATEMENT

Independent Auditors' Report

We have audited the accompanying statement of financial position of American Academy of Environmental Engineers, Inc. as of December 31, 2011, and the related statements of activities and changes in net assets and cash flows for the year then ended. These financial statements are the responsibility of the Organizations' management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of American Academy of Environmental Engineers, Inc. as of December 31, 2011, and the changes in its net assets and its cash flows for the year then ended in conformity with accounting principles generally accepted in the United States of America.

Other Matters

The 2010 financial statements were reviewed by us and our report thereon, dated August 5, 2011, stated we were not aware of any material modifications that should be made to those statements for them to be in conformity with accounting principles generally accepted in the United States of America. However, a review is substantially less in scope than an audit and does not provide a basis for the expression of an opinion on the financial statements.

Askey, Askey & Associates, CPA, LLC Leonardtown, Maryland February 24, 2012

American Academy of Environmental Engineers, Inc. Statements of Financial Position December 31, 2011 (Audited) and 2010 (Reviewed)

Assets

1250465			
	2011	2010	
Current Assets			
Cash and Cash Equivalents	\$148,583	\$118,572	
Accounts Receivable	6,562	7,951	
Pledges Receivable	2,484	6,118	
Prepaid Expenses	42,980	28,947	
Total Current Assets	200,609	161,588	
Property and Equipment, Net	1,871	3,599	
Other Assets			
Trademarks, Net	6,011	7,010	
Total Assets	\$208,491	\$172,197	
Liabilities and Net Assets (Deficit)			
Current Liabilities			
Accounts Payable and Accrued Expenses	\$3,154	3,680	
Due to the Foundation	1,895	4,817	
Deferred Revenue	211,488	203,650	
Total Current Liabilities	216,537	212,147	
Net Assets (Deficit)			
Unrestricted	(24,755)	(56,659)	
Unrestricted - Board Designated	16,709	16,709_	
Total Net Assets (Deficit)	(8,046)	(39,950)	
Total Liabilities and Net Assets (Deficit)	\$208,491	\$172,197	

The Accompanying Notes to Financial Statements Are an Integral Part of These Financial Statements

American Academy of Environmental Engineers, Inc. Statements of Activities and Changes in Net Assets For the Years Ended December 31, 2011 (Audited) and 2010 (Reviewed)

Assets

	2011	2010
Support and Revenue		
Certification Fees	\$399,975	\$369,091
Publications	58,096	60,499
Meetings	50,568	51,129
Contributions	33,050	33,852
Other Income	20,588	30,147
Kappe Lecture	5,950	6,800
Investment Income	486	97_
Total Support and Revenue	586,533	551,615
Expenses		
Program Expenses		
Memberships	39,078	39,114
Environmental Engineer	25,319	25,119
Publications	16,520	20,917
Certificate/Membership	15,799	14,967
Public Education	16,735	14,493
Meetings and Seminars	12,873	12,634
Kappe Lecture	4,900	7,055
Committee Expense	2,370	2,225
Total Program Service Expense	133,594	136,724
Management and General Expenses		
Staff Salaries, Fringe Benefits and Contract Employment	286,445	291,582
Office Expense	85,928	83,510
Legal, Accounting and Miscellaneous Fees	10,935	13,717
Officer and Trustee Expenses	11,708	12,696
Insurance	4,806	4,239
Depreciation and Amortization	2,726	3,014
Awards	487_	296
Total Management and General Expenses	403,035	409,054
Total Expenses	539,629	545,778_
Change in Net Assets	31,904	5,837
Net Assets (Deficit) - Beginning of Year	(39,950)	(45,787)
Net Assets (Deficit) - End of Year	\$(8,046)	(39,950)

The Accompanying Notes to Financial Statements Are an Integral Part of These Financial Statements

Notes to Financial Statements

December 31, 2011 and 2010

1. Summary of Significant Accounting Policies

Nature and Organization

American Academy of Environmental Engineers, Inc. (the Academy) was founded in 1955 to improve the practice of environmental engineering by certifying properly-qualified environmental engineering specialists, accrediting university environmental engineering curricula and by informing the public and environmental engineers through lectures, publications and other venues regarding proper environmental practices.

Basis of Accounting

The financial statements of the Academy have been prepared in accordance with accounting principles accepted in the United States of America on the accrual basis of accounting. Accordingly, revenue is recognized when earned and expenses are recognized when incurred.

Basis of Presentation

Financial statement presentation follows the requirements of the Financial Accounting Standards Board. As such, the Organization reports its financial position and activities according to three classes of net assets (unrestricted net assets, temporarily restricted net assets, and permanently restricted net assets) based on the existence or absence of donorimposed restrictions.

Revenue Recognition

Certification fees and certain other revenues are recorded as deferred revenue upon receipt and are recognized as revenue in the period to which the fees relate.

Contributions received are recorded as unrestricted, temporarily restricted, or permanently restricted support, depending on the existence and/or nature of any donor-imposed restriction. Support that is restricted by the donor is reported as an increase in unrestricted net assets if the restriction expires in the reporting period in which the support is recognized. All other donor-restricted support is reported as an increase in temporarily or permanently restricted net assets, depending on the nature of the restriction. When a restriction expires (that is, when a stipulated

2011 FINANCIAL STATEMENT

time restriction ends or a purpose restriction is accomplished), temporarily restricted net assets are reclassified as unrestricted net assets and reported in the statement of activities as net assets released from restrictions. Unexpended grant awards are classified as refundable advances until expended for the purpose of the grants since they are considered conditional promises to give.

Cash and Cash Equivalents

For the purposes of the statement of cash flows, cash and cash equivalents consist of interesting bearing and non-interest bearing demand deposits.

Accounts Receivable

Accounts receivable consists of amounts due for certification fees and reimbursements at the end of the year. Management considers all accounts receivable to be fully collectible; accordingly, an allowance for doubtful accounts has not been established.

Pledges Receivable

Pledges receivable consist of pledges to give funds to the Academy in future periods. Revenue is recognized for pledges when the donor makes a pledge to give to the Academy that is, in substance, unconditional. Management considers all pledges receivable to be fully collectible; accordingly, an allowance for doubtful pledges has not been established. Pledges receivable are generally due within one to five years. In additional, substantially all pledges receivable are due within one year; accordingly, no discount on pledges receivable has been recorded in the accompanying financial statements.

Property and Equipment

Property and equipment acquisitions in excess of \$500 are capitalized and recorded at cost as of the date of acquisition of fair value as of the date of contribution. Depreciation is calculated using the straight-line method based on the estimated useful lives of the assets. See also Note 2.

Use of Estimates

The preparation of financial statements in conformity with United States generally accepted accounting principles requires management to make estimates and assumptions that affect certain reported amounts

American Academy of Environmental Engineers, Inc.
Statements of Cash Flows
For the Years Ended December 31, 2011 (Audited) and 2010 (Reviewed)

Assets

	2011	2010
Cash Flows From Operating Activities		
Change in Net Assets	\$31,904	\$5,837
Adjustments to Reconcile Change in Net Assets to Net Cash Proved by Operating Activities:		
Depreciation and Amortization	2,726	3,014
(Increase) Decrease in Operating Assets:		
Accounts Receivable	1,389	(530)
Pledges Receivable	3,634	(218)
Prepaid Expenses	(14,032)	24,585
Increase (Decrease) in Operating Liabilities		
Accounts Payable and Accrued Expenses	(526)	(7,160)
Due to the Foundation	(2,922)	3,928
Deferred Revenue	7,838	(24,455)
Net Cash Provided by Operating Activities	30,011	5,001
Cash and Cash Equivalents - Beginning of Year	118,572_	113,571
Cash and Cash Equivalents - End of Year	\$148,583	\$118,572

The Accompanying Notes to Financial Statements Are an Integral Part of These Financial Statements

and disclosures. Accordingly, actual results may differ from those estimates.

Fair Value of Financial Instruments

Unless otherwise indicated, the fair value of all reported assets and liabilities which represent financial instruments (none of which are held for trading purposes) approximate the carrying values of such amounts.

Program Service Expenses

Program service expenses represent the direct cost of performing programs. Direct costs do not include salaries and related expenses. Management and general costs have not been allocated to such programs.

Income Taxes

The Academy is exempt under Section 501(c)(6) of the Internal Revenue Code from paying federal income tax on any income except unrelated business income. No provisions has been made for income taxes as the Academy has no net unrelated business income. The Academy's federal information returns are generally subject to examination by the Internal Revenue Service for three years after the date they are filed.

2. Property and Equipment

Property and equipment consists of the following at December 31.

	Estimated Lives (in years)		
		2011	2010
Furniture and Equipment	3-7	\$33,141	\$33,141
Leasehold	3 /	Ψ33,111	Ψ33,111
Improvements	10	6,951	6,951
		\$40,092	\$40,092
Less accumulated depreciation		(38,221)	(36,493)
		\$1,871	\$3,599

Depreciation expense for the years ended December 31, 2011 and 2010 was \$1,728 and \$1,939, respectively.

3. Trademarks

Trademark costs incurred by the Academy are amortized over fifteen years. Trademarks costs at December 31, 2011 and 2010 totaled \$24,760 and consist of the Academy's trade name and publications. Accumulated amortization at December 31, 2011 and 2010 totaled \$18,749 and \$17,750, respectively. Amortization expense for the years ended December 31, 2011 and 2010 was \$998 and \$1,075, respectively.

4. Commitments

The Academy leases office space under a noncancellable operating lease which expires in July 2013. Current monthly payments are approximately \$3,398 and the lease includes a 3% annual escalation clause. Rent expense under this operating lease was \$40,784 and \$38,362 for the years ended December 31, 2011 and 2010, respectively, and is included in office expense in the statement of activities. Future minimum lease payments required under the lease for the years ending December are as follows:

2012	\$39,929
2013	23,695
	\$63,624

The Academy leases a copy machine under a noncancellable operating lease which expires on August 1, 2014. Current monthly payments are \$438. Rent expense under this operating lease was \$5,930 and \$5,297 for the years December 31, 2011 and 2010, respectively, and is included in office expense in the statement of activities. Future minimum lease payments required under the lease for the years ended December 31 are as follows:

2012	\$5,253
2013	5,253
2013	3,064
	\$13,570

In March 2009, the Academy entered into an agreement to use a web-based membership management service to track and manage its membership. This two year agreement expired in February 2011 and was automatically renewed for one year under the terms of the original agreement. Monthly subscription fees under this agreement \$525. Future minimum subscription payments required under the agreement for the years ending December 31 are as follows:

2012 \$1,050

5. Related Party Transactions

The Environmental Engineering Foundation, Inc. (the Foundation), a 501(c)(3) nonprofit organization, was formed to support the operations of the Academy. The Academy manages the finances of the Foundation, including the collection of donations made to the Foundation. Periodically, funds collected on behalf of the Foundation are transferred from the Academy to the Foundation. At December 31, 2011 and 2010 the balance of funds held on behalf of the Environmental Engineering Foundation, Inc. was \$1,895 and \$4,817, respectively.

6. Employee Benefit Plan

The Academy established a 401(k) Retirement Plan in 1997 for all employees meeting certain eligibility requirements. Employees may contributed up to 15% of their eligible compensation to the plan, subject to the limits of Section 401(k) of the Internal Revenue Code. The Academy does not match employee contributions.

7. Unrestricted Net Assets - Board Designated

It is the policy of the Board of Trustees to the Academy to review its plans for future projects from time to time and to designate appropriate sums to assure adequate financing of such projects.

Kappe Fund - Represents a \$10,000 bequest received for the Estate of Stanley E. Kappe during 1985. The unrestricted bequest is used for the purpose of recognizing the contributions of Stanley E. Kappe to the environmental engineering profession. The Board has designated the fund as a Quasi-Endowment. Hence, the principal portion of this fund is to remain intact and the interest can be spent on funding the Kappe Lecture Series. The Board has also designated additional funds and any annual contributions to the Kappe Lecture to be used to fund the Kappe Lecture Series. Total designated funds as of December 31, 2011 and 2010 amounted to \$16,709. The Academy does not currently maintain a separate bank account for these funds.

8. Subsequent Events

Management has considered and evaluated subsequent events through February 24, 2012, the date the financial statements were available to be issued.











Regional Winners of the 2012 IWA Project Innovation Awards honoured at Awards Ceremony and Dinner during SIWW 2012

With the breath-taking picturesque view of the Singapore night skyline as the backdrop, the 2012 IWA Project Innovation Awards East Asia & Asia-Pacific Regional Awards Ceremony and Dinner came to a successful conclusion at the Swissotel the Stamford on 3 July 2012.

A total of 29 winners were honoured for outstanding engineering excellence and innovation in water projects in the East Asia and Asia-Pacific region. Many high-level delegates who were in attendance at the Awards Ceremony included the Vice-Mayors of Busan City and Taipei City, utility CEOs and senior managers from Japan, Korea, Taiwan, Hong Kong, Singapore, China, Australia and the Philippines, leaders in the water industry and top water researchers in Asia.

For the profiles of the winners and their projects, and for more photos of the award ceremony, visit www.lwa-pia.org

All winners will now advance to the global competition where they will vie for the PIA Global Grand Awards which will be presented at the IWA World Water Congress and Exhibition in Busan, Korea on 19 September 2012.

Congratulations to all the winners!!

The 2012 IWA Project Innovation Awards is a prestigious global awards programme which aims to recognise and honour engineering excellence and innovation in water engineering projects throughout the world. The Awards is sponsored by global sponsors - ARCADIS Malcolm Pirnie, GHD, KWR, Nagaoka International Corporation, SKM - and regional sponsor -Veolia Water Solutions and Technologies.

Clobal Sponsors













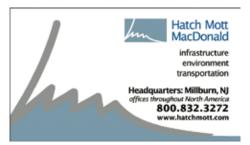








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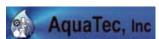
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