



# WORLD ENVIRONMENTAL & WATER RESOURCES CONGRESS

Austin, Texas | May 17-21, 2015

## AWARDS PROGRAM



### WELCOME CEREMONY, PETERSEN AWARD & VIF LUNCHEON

MONDAY, MAY 18 / 12:15 – 1:45 P.M. (Lone Star D-E) *pg. 2*

### PLANNING & MANAGEMENT COUNCIL / HINDS AWARD LECTURE LUNCHEON

TUESDAY, MAY 19 / 12:15 – 1:45 P.M. (Lone Star D) *pg. 5*

### WATERSHED COUNCIL AWARD LECTURE LUNCHEON

TUESDAY, MAY 19 / 12:15 – 1:45 P.M. (Lone Star E) *pg. 7*

### HYDRAULIC & WATERWAYS COUNCIL / ROUSE AWARD LECTURE LUNCHEON

WEDNESDAY, MAY 20 / 12:15 – 1:45 P.M. (Lone Star D) *pg. 9*

### IRRIGATION & DRAINAGE COUNCIL / TIPTON AWARD LECTURE LUNCHEON

WEDNESDAY, MAY 20 / 12:15 – 1:45 P.M. (Lone Star E) *pg. 11*

### STUDENT AWARD LUNCHEON

WEDNESDAY, MAY 20 / 12:15 – 1:45 P.M. (206) *pg. 12*

### ENVIRONMENTAL AND WATER, WASTE & STORMWATER COUNCILS/FREESE AWARD LECTURE LUNCHEON

THURSDAY, MAY 21 / 12:15 – 1:45 P.M. (Lone Star D) *pg. 13*

## Margaret Petersen Award

The Margaret S. Petersen Award is sponsored by EWRI's Education Council and the Emerging and Innovative Technology Committee. It honors the lifelong professional accomplishments of Margaret S. Petersen, P.E., F.ASCE, Hon.D.WRE, a female pioneer in hydraulics and water resources engineering. The award is presented to a female member of ASCE and/or EWRI who has demonstrated exemplary service to the water resources and environmental community.

The 2015 Woman of the Year is **Jeanne VanBriesen** Ph.D., P.E., M.ASCE



**Jeanne VanBriesen** has been working in the field of environmental water resources for almost twenty years, starting with her MS and PhD work at Northwestern University focused on fate and transport of organic chelating agents in groundwater. As a faculty member at Carnegie Mellon, her work expanded

to include significant contributions in the field of drinking water, in the design and optimization of sensor networks for intrusion detection, in the evaluation of Raman spectroscopy for pathogen detection, and in the assessment of the role of source water bromide in finished water disinfection by-product formation. Jeanne's greatest contribution to the field has been through the training of students and mentorship of junior colleagues (a great majority of them being women), with a focus on increasing the diversity of our profession.

## Lifetime Achievement Award

Established in 2001, the Environmental & Water Resources Institute Lifetime Achievement Award is presented to members who are judged to have advanced the profession, exhibited technical competence, and significantly contributed to public service, research, or practice in the environmental and water resources profession.

The 2015 LIFETIME ACHIEVEMENT AWARDS are presented to **Miguel Mariño**, Ph.D., Dist.M.ASCE, **Christine Shoemaker**, Ph.D., NAE, Dist.M.ASCE, & **Rao Y. Surampalli**, Ph.D., P.E., BCEE, D.WRE, F.EWRI, Dist.M.ASCE

### **Miguel Mariño** is

Professor Emeritus of Hydrologic Sciences, Civil & Environmental Engineering, and Biological & Agricultural Engineering at UC Davis. He received both undergraduate and graduate degrees at the New Mexico Institute of Mining & Technology before earning his Ph.D. in Civil Engineering Systems from



UCLA. Mariño has been the recipient of many awards throughout his career, including Distinguished Member from the ASCE in 1999. He currently serves on the Environmental and Water Resources Systems Committee, part of the Environmental & Water Resources Institute.



**Christine Shoemaker**, Ripley Professor in CEE at Cornell University, was one of the first women in the United States to be a department chair in any engineering field. Professor Shoemaker has produced many women Ph.D. students in EWRI and has worked to recruit and retain women in engineering for decades. Her research involves

the development of optimization and uncertainty algorithms for use with complex, realistic nonlinear hydrologic simulation models for management optimization or for the purpose of picking model parameters that generate good model forecasts (e.g. calibration). She has done applications for groundwater remediation, carbon sequestration (involving multi-phase, multi-constituent models), and phosphorus and sediment transport in watersheds. She has open source code available for her algorithms. She is a Distinguished Member of ASCE and is a Fellow in AGU, SIAM, and INFORMS. She has received a number of other awards including the EWRI Julian Hinds Award and membership in the National Academy of Engineering.



**Dr. Rao Y. Surampalli** received M.S and Ph.D. degrees in Environmental Engineering from Oklahoma State and Iowa State Universities, respectively. He is a Registered Professional Engineer in the branches of Civil and Environmental Engineering, and also a Board Certified Environmental Engineer (BCEE) of the American Academy of Environmental Engineers (AAEE).

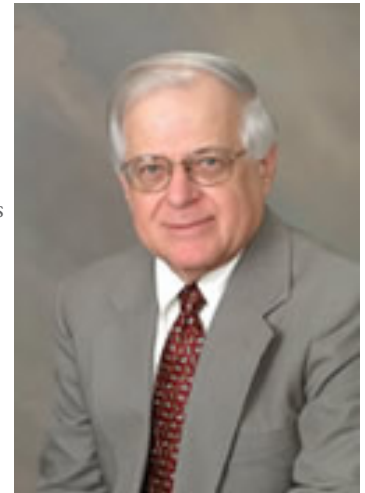
He has worked for the U.S. Environmental Protection Agency for 29 years and retired as an Engineer Director. Currently, he is President and CEO of Global Institute for Energy, Environment and Sustainability. Dr. Surampalli is an Adjunct Professor in 8 universities and Distinguished/Honorary Professor in 5 universities. He has authored more than 600 technical publications, including 15 patents, 16 books, 109 book chapters, 252 refereed (peer-reviewed) journal articles, over 109 gene bank submissions, presented at more than 220 national and international conferences, and given over 110 plenary, keynote or invited presentations worldwide.

## Service to the Institute Award

The EWRI Service-to-the-Institute Award is given in recognition of extensive and outstanding service to the Institute and/or its predecessor divisions.

The 2015 EWRI Service-to-the Institute Award is presented to **Kyle Schilling, P.E., D.WRE, Dist.M.ASCE**

**Kyle Schilling**, served as Director of the Corps of Engineers' Institute for Water Resources (IWR) from 1990-1999, providing leadership for improving the Corps' civil works water efforts during a period of rapidly evolving changes in the US. Under his leadership, IWR produced a steady stream of innovative policies, procedures and methods that rapidly and effectively addressed the changing needs of the Nation in



water resources and environmental management. He encouraged staff to seek out opportunities and partnerships with other agencies for joint problem-solving; he advocated collaboration with Corps districts in order to stay current with ongoing needs of field planners; and he brought the Institute closer to serving the policy and strategic planning needs of Headquarters and to have IWR serve as the antennae for the Corps with respect to emerging issues. While serving as IWR Director, Mr. Schilling also served as Director of the Water Resources Support Center (WRSC) from 1996-1997.

## Visiting International Fellowship Awards

The International Council (IC) established the Visiting International Fellowship (VIF) program to promote cultural and technical exchange between U.S. and Canadian EWRI members and international colleagues— water/environmental resource faculty, professionals, and student researchers – from developing countries. This marks the VIF program’s 13th year



From Ghana, **Festus Anane Mensah** is a research scientist with Ghana’s Council for Scientific and Industrial Research Building and Road Research Institute (CSIR-BRRI). His cultural background and focus on humanitarian, environmental, and water quality issues have led him to a number of volunteer opportunities

and community leadership roles. Mr. Mensah received his Bachelor of Science in Geological Engineering at the Western University College of Kwame Nkrumah University of Science and Technology, Tarkwa, Ghana (now the University of Mines and Technology, Tarkwa) and his Master of Science in Petroleum Geoscience at the University of Ghana, Legon-Accra, Ghana.

**Dr. Mahendra S Kadu**, is presently working as Professor and Head, Department of Civil Engineering, Ramdeobaba College of Engineering and Management (RCOEM) Nagpur (India). He has worked as Dean (Academics), RCOEM, Nagpur, as well. He is working as Chairman, Board of Studies (Civil Engineering), Rashtrasant Tukdoji Maharaj Nagpur University (RTMNU), Nagpur and a member of Academic council, RTMNU. He is graduated in Civil Engineering from Govt. College of Engineering, Amravati; did his M.Tech., Hydraulics, from Visvesvaraiya Regional Engineering College (VRCE), Nagpur; and obtained Ph.D. from Visvesvaraiya National Institute of Technology (VNIT). He has 27 years of teaching experience; and has published 50 + research papers, in International and National Journals and Conferences including ASCE. He has guided many students for their PhD and M. Tech research works in the area of Water Resources. He is involved in creating awareness about Environment and water conservation through expert lectures, organization of seminars, workshops and radio talk through his active association with professional organizations like IWWA, IE(I), ISH, ISTE.



### Dr. Sayyed-Hassan

**Tabatabaei** has been a faculty member of Shahrekord University since 2004, and he collaborates with water engineering consultancies in the area of water resources, irrigation, and drainage. Prior to joining the faculty (1995-2004), he was a consultant/designer member of several engineering companies. He has supervised the Irrigation and Drainage section



of Behabsad Engineering Consultants since 2009. Dr. Tabatabaei received a Ph.D. in Irrigation and Drainage Engineering in 2004 from the University of Tehran. His Ph.D. research included (1) Removal of heavy metal from wastewater; (2) Preferential flow of water and solute transport; and (3) Seasonal variation of infiltration parameters in furrow irrigation affected by soil texture and field management. He wrote his MS thesis on “Mathematical and Management Model of Groundwater with Emphasis on Artificial Recharge Using MODFLOW Software (Case Study)” in the Department of Irrigation, College of Agriculture, Isfahan University of Technology, Isfahan, Iran in 1998, and received a BSc Degree in Irrigation in 1995 from the University of Tehran.

His research interests in water science are in the areas of soil infiltration, surface and subsurface irrigation, flow in porous media, groundwater modeling, water and solute transport in soil, wastewater reuse, evapotranspiration, Fertigation in surface irrigation, and new challenges in soil physics. Use of unconventional water (such as saline water and wastewater reuse) is a topic that he has focused on in recent years. Generally speaking, he is interested in soil and water contamination and modeling.

At Shahrekord University, Dr. Tabatabaei teaches undergraduate and postgraduate courses in water engineering and soil sciences. He supervises theses of graduate students both at Ph.D. and MSc levels, and is the author of some 65 journal papers, 85 conference papers, and 6 books. He serves on the Editorial Board of the Journal of IWRJ, IJROWA (Springer). He is a member of IRNCID, IAID, IAHS, IHA, and ASCE.

## Julian Hinds Award

The Julian Hinds Award recognizes the author or authors of a paper that is judged to make the most meritorious contribution to the field of water resources development. The award may also be made to an individual for notable performance, long years of distinguished service, or specific actions that advanced engineering in the field of planning, development, and management of water resources.

The 2015 EWRI Julian Hinds Award is presented to **David Ford, Ph.D., P.E., D.WRE, M.ASCE**



**David Ford** is owner and president of David Ford Consulting Engineers, a water resources engineering firm in Sacramento, CA. His 35 years of experience also includes working as a senior engineer at the US Army Corps of Engineers Hydrologic Engineering Center (HEC), an adjunct professor at the University of California, Davis, and a lecturer at California

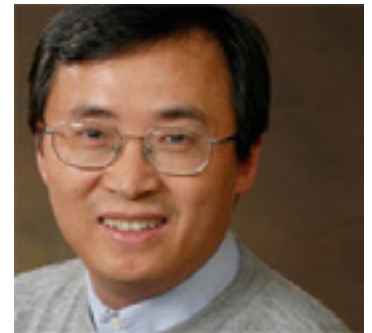
State University, Sacramento. Ford is an internationally recognized expert in water resources engineering, planning, and management.

## Service-to-the-Profession Award

The Planning and Management Council Service-to-the Profession Award is given to recognize and honor a person or persons for outstanding leadership, activities, and achievement in service to the profession in the field of water resources planning through the institute, councils, local sections, or other organizational units of the Society.

The 2015 Service-to-the Profession Award is presented to **Ximing Cai, Ph.D., P.E., M.ASCE**

Professor **Ximing Cai** is a research pioneer in integrated hydrologic-economic modeling for river basin management and water systems operations. His current research areas include coupled human-natural system analysis with an emphasis on human interferences in hydrological processes,



water-energy-food system modeling especially in dry areas, and sustainable water resources management particularly in developing countries. He holds a B.S. in Water Resources Engineering (1990) and an M.S. in Hydrology and Water Resources (1994) from Tsinghua University, Beijing, and a Ph.D. in Environmental and Water Resources Engineering (1999) from the University of Texas at Austin. He has authored or co-authored more than 110 peer-reviewed journal papers, three books and several monographs. He has received several awards, including the National Science Foundation CAREER award and best paper awards from Water International and the Journal of Water Resources Planning and Management. Professor Cai is also a Ven Te Chow Faculty Scholar in Water Resources.

## Journal of Water Resources Planning and Management

### 2015 Best Research-Oriented Paper

Adel M. Abdallah & David E. Rosenberg, Ph.D., A.M.ASCE  
*“Heterogeneous residential water and energy linkages and implications for conservation and management”*

### 2015 Quentin Martin Best Practice-Oriented Paper

Amaury Tilmant, Ph.D. , Diane Arjoon & Guilherme F. Marques, Ph.D.  
*“Economic value of storage in multireservoir systems”*

### 2015 Best Policy-Oriented Paper

Leon Basdekas, P.E., M.ASCE  
*“Is multiobjective optimization ready for water resources practitioners? Utility’s Drought Policy Investigation”*

### 2015 Best Reviewer Award

Yves Legat, Ph.D. & Helene A. Hilger, P.E., M.ASCE

### 2015 Best Associate Editor Award

George F. McMahon III, Ph.D., P.E., D.WRE, M.ASCE &



## Walter L. Huber Civil Engineering Research Prize

The Walter L. Huber Civil Engineering Research Prizes are awarded to members of the Society, in any grade, for notable achievements in research related to Civil Engineering. Preference is given to younger members (generally under 40 years of age) of early accomplishment who can be expected to continue fruitful careers in research.

The 2015 Walter L. Huber Civil Engineering Research Prize are awarded to **Ming Ye, Ph.D., A.M.ASCE & Faisal Hossain, Ph.D., A.M.ASCE**



**Dr. Ming Ye** is an Associate Professor in Computational Hydrology/Geology at Florida State University. He earned a Ph.D. in Hydrology from the University of Arizona and a Bachelor of Science degree in Geology from Nanjing University in China. In 2012 Dr. Ye received the Early Career Award from the Department of Energy and was named a Fellow by the Geological

Society of America. He is being awarded the Walter L. Huber Civil Engineering Research Prize for his body of research and early career accomplishments.

**Faisal Hossain** is an Associate Professor at the University of Washington. He received his Ph.D. from The University of Connecticut in 2004, his M.S (1999) and B.S (1996) from The National University of Singapore and Indian Institute of Technology, Varanasi, respectively. Currently he serves as an associate editor for Journal



of Hydrometeorology and the chair for an ASCE Task Committee on “Water Infrastructure, Weather and Climate”. Hossain is being awarded the Walter L. Huber Civil Engineering Research Prize for his body of research and early career accomplishments.

## Arid Lands Hydraulic Engineering Award

The Arid Lands Hydraulic Engineering Award is given in recognition of original contributions in hydraulics, hydrology (including climatology), planning, irrigation and drainage, hydroelectric power development, navigation specially applicable to arid or semi-arid climates, or contributions to the understanding and development of new technology in river basins.

The 2015 Arid Lands Hydraulic Engineering Award is presented to **Fred Ogden, Ph.D., P.E., HG, F.EWRI, M.ASCE**

**Fred Ogden** is a Professor and Cline Distinguished Chair of Engineering at the University of Wyoming. He completed his undergraduate through post-graduate education in Civil Engineering at Colorado State University. Among Ogden’s many accomplishments, he has been certified by the U.S. Department of Transportation as a licensed private pilot since 1981. In addition to the awards he has received, Ogden was named an ASCE-EWRI Fellow in May 2013 and received a Student Chapter Faculty Advisor Commendation from the ASCE in 2005.



The **2015 Ven Te Chow Award** will be presented at the Watershed Management Symposium in Reston, VA , August 6- 7, 2015.

[www.watershedmanagement.org](http://www.watershedmanagement.org)

## Journal of Hydrologic Engineering

### 2015 Best Paper

Jose D. Salas, Ph.D., M.ASCE &  
Jayantha T.B. Obeysekera, Ph.D., P.E., D.WRE, M.ASCE  
*“Revisiting the Concepts of Return Period and Risk for Nonstationary Hydrologic Extreme Events”*

### 2015 Best Case Study

Azadeh Ahmadi, Ph.D. &  
Mohammad Karamouz, Ph.D., P.E., D.WRE, F.ASCE  
Sara Nazif, Ph.D.  
*“Development of Integrated Drought Evaluation and Monitoring System: Case Study of Aharchay River Basin”*

### 2015 Best Technical Note

Alfonso I. Mejia, Ph.D., EIT, A.M.ASCE  
*“Scaling of the Network Instantaneous Response Function from Basin Geomorphology and Hydraulic Geometry”*

### 2015 Best Discussion

Halil Karahan, Ph.D. & Gurhan Gurarslan, Ph.D.  
*“Estimation of Nonlinear Muskingum Model Parameter Using Differential Evolution”*

### 2015 Best Forum Article

Vijay P. Singh, D.Sc, P.E., Hon.D.WRE, F.EWRI, F.ASCE,  
Khedun Chundun Prakash & Ashok K. Mishra, Ph.D., M.ASCE  
*“Water, Environment, Energy, and Population Growth: Implications for Water Sustainability under Climate Change”*

### 2015 Best Associate Editor

D. Nagesh Kumar, Ph.D., M.ASCE





## Hunter Rouse Hydraulic Engineering Award

The Hunter Rouse Hydraulic Engineering Award is presented, upon recommendation of the Executive Committee of the Environmental & Water Resources Institute Hydraulics & Waterways Council, to a distinguished person in the field of hydraulic engineering.

The 2015 Hunter Rouse Hydraulic Engineering Award is presented to **Pierre Julien, Ph.D., P.Eng., M.ASCE**



**Pierre Julien** is a professor of Civil and Environmental Engineering at CSU. As a professional engineer, he has completed projects for 50 different agencies including UNESCO and the World Bank. He completed his undergraduate through post-graduate education in Civil Engineering at Laval University.

Julien authored more than 500 scientific contributions including two textbooks, 25 book chapters and lecture manuals, 175 refereed journal articles including 95 full papers in scientific journals, 150 professional presentations, 150 conference papers and 125 technical reports.

## Hydraulic Structures Medal

The Hydraulic Structures Medal is awarded to an individual or individuals for significant contributions to the advancement of the art and science of hydraulic engineering as applied to hydraulic structures.

The 2015 Hydraulic Structures Medal is presented to **Anton Schleiss, Ph.D.**

Prof. **Anton Schleiss** is currently a full professor and Director of Laboratory of Hydraulic Constructions at the Ecole polytechnique fédérale de Lausanne (EPFL). He earned a Master of Science degree in Civil Engineering and a Ph.D. in Technical Science at ETH Zurich. Some of the most prominent awards of his career have been the ASCE Karl Emil Hilgard Hydraulic and ASCE J. C. Stevens Award Prizes in 2006, and the ASCE-EWRI 2014 Best



## Karl Emil Hilgard Prize

The Karl Emil Hilgard Hydraulic Prize is presented to the author or authors of the paper that is judged to be of superior merit in dealing with a problem of flowing water, either in theory or in practice.

The 2015 Karl Emil Hilgard Prize is presented to **A. Jacob Odgaard, Ph.D., P.E., F.ASCE, Troy Lyons, P.E., M.ASCE, & Andrew Craig**



### A. Jacob Odgaard

is a Professor of Civil and Environmental Engineering at the University of Iowa. He earned his master and doctorate degrees in Civil Engineering from Technical University of Denmark. Professor Odgaard has a wealth of knowledge in the fields of environmental fluid mechanics, hydraulic engineering, hydraulic structures,

hydraulic modeling, river engineering, and river mechanics. He is currently conducting research on the subjects of river meandering and channel stability, sediment management in rivers using Iowa Vanes and other structures, fish diversion structures, and hydroinformatics.

**Troy Lyons** is Director of Engineering Services at the University of Iowa. He is an alumnus of the university, having earned both his bachelor and master degrees in Civil and Environmental Engineering there as well. Troy is conducting research in the fields of hydraulic structures, hydropower, fish passage improvement, river hydraulics, and physical modeling. He also pursued a personal interest and became a licensed pilot.



**Andrew Craig** is a Hydraulic Engineer at the University of Iowa. He earned a Bachelor of Science degree in Civil and Environmental Engineering and a Master of Science degree in Civil Engineering, both from the University of Iowa. Andrew is currently conducting research in the fields of hydraulic modeling, hydraulic structures, fish passage improvement, hydropower, drop shaft modeling, and hydrographic survey.



## J.C. Stevens Award

The J.C. Stevens Award is given to the best discussion of a paper, the discussion having been published by the Society in a journal overseen by EWRI during the twelve-month period ending with June of the year preceding the year of award.

The 2015 J.C. Stevens Award is presented to **Ahmad Malekpour, Ph.D., A.M.ASCE & Bryan Karney, P.E., M.ASCE**

## Hans Albert Einstein Award

The Hans Albert Einstein Award is given to a member who has made a significant contribution to the engineering profession in the area of erosion control, sedimentation, and/or waterway development either in teaching, research, planning, design, or management.

The 2015 Hans Albert Einstein Award is presented to **Robert Ettema, Ph.D., P.E., M.ASCE**



**Robert Ettema** is a visiting engineering professor at Colorado State University. He completed his undergraduate through post-graduate education at the University of Auckland. Among his many accomplishments, he was awarded the Karl Emil Hilgard Hydraulic Prize in 2011 and in

2012 was named a Fellow of the Institute of Professional Engineers New Zealand.

**Ahmad Malekpour** is a professor in the Department of Civil and Mineral Engineering at the University of Toronto. He is receiving this award for his and Bryan Karney's discussion of "Pressure surges following sudden air pocket entrapment in storm-water tunnels," which was published in the April 2014 issue of ASCE's *Journal of Hydraulic Engineering*.



**Brian Karney** is a professor in the Department of Civil and Mineral Engineering at the University of Toronto. Since 2006, he has served as Chair, Division of Environmental Engineering and Energy Systems. In 2009, Professor Karney became Associate Dean, Cross-Disciplinary Programs, providing leadership to the Cross-

Disciplinary Programs Office. He is receiving this award for his and Ahmad Malekpour's discussion of "Pressure surges following sudden air pocket entrapment in storm-water tunnels," which was published in the April 2014 issue of ASCE's *Journal of Hydraulic Engineering*.



## Journal of Hydraulic Engineering 2015 Best Technical No

C.J. Oliver, M.J. Davidson & R.I. Nokes  
*"Behavior of Dense Discharges beyond the Return Point"*

## Royce J. Tipton Award

The Royce J. Tipton Award recognizes outstanding contributions to the advancement of water and soil aspects of irrigation by software development, promoting application or new technologies, and through public and professional service.

The 2015 Royce J. Tipton Award is presented to **Daniel Thomas, Ph.D., P.E., D.WRE, F.ASCE**



**Daniel L. Thomas** is currently Professor and Head of the Biosystems and Agricultural Engineering Department at Oklahoma State University. He assumed that role in June, 2011. He served as Professor and Head of the Biological and Agricultural Engineering Department at Louisiana State University and the LSU Agricultural Center in Baton Rouge from March 2003 to June, 2011. His career started with B.S.

(1978) and M.E. (1980) degrees in Agricultural Engineering from Louisiana State University and a Ph.D. from Purdue University (1984). He has been involved in research and extension activities associated with drainage, water quality, irrigation, and precision systems.

## Journal of Irrigation and Drainage Engineering



### 2015 Best Paper

Ayman H. Alzraiee, Ph.D., Luis A. Garcia, Ph.D., M.ASCE & Timothy K. Gates, Ph.D., M.ASCE

*“Modeling Subsurface Heterogeneity of Irrigated and Drained Fields, I: Model Development and Testing” and “Modeling Subsurface Heterogeneity of Irrigated and Drained Fields, I: Multivariate Stochastic Analysis of Root-Zone Hydrosalinity and Crop Yield”*

John D. Valiantzas, Ph.D.

*“Simple ETo Forms of Penman’s Equation Without Wind and/or Humidity Data. I: Theoretical Development” and “Simple ETo Forms of Penman’s Equation Without Wind and/or Humidity Data. II. Comparisons with Reduced Set-FAO and Other Methodologies”*

### Honorable Mention Paper

Jon Altenhofen, M.ASCE, Aymn Elhaddad,

Luis A. Garcia, Ph.D., M.ASCE & Mary J. Hattendorf

*“Developing Corn Regional Crop Coefficients Using a Satellite-Based Energy Balance Model (ReSET-Raster) in the South Platte River Basin of Colorado”*

John W. Longworth, Zohrab Samani, P.E., M.ASCE &

Rhonda Skaggs, Ph.D.

*“Alfalfa Water use and Crop Coefficients Across the Watershed: From Theory to Practice”*

### 2015 Best Reviewer

Francisco Ramirez, Ph.D. & Thomas Woehling, Ph.D.

Wednesday, May 20 -Student Luncheon 12:15 – 1:45pm

## PARSONS BRINKERHOFF DESIGN COMPETITION

The student teams selected will present their project during one of the conference sessions at the EWRI World Water and Environmental Congress. The teams will compete before a panel of university and industry judges.

Selected Teams:

Designing a Photovoltaic Electro-Dialysis Unit  
Civil Engineering, California State Polytechnic University, Pomona

North Fork Snoqualmie Hazard Mitigation:  
Feasibility and Design, Seattle University

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## TECHNICAL PAPER COMPETITION

Submissions to this category are to be solely the work of one student, without faculty assistance. Up to three student submissions will be selected based on the content of their technical papers.

Winners will present their papers during Student Day at the Congress.

Technical Paper Recipients:

1st place - "Investigating the Role of DEM Resolution and Accuracy on Flood Inundation Mapping" Siddarth Saksena

2nd place (tied) - "Comprehensive Benefits of Green Roofs" Madison Gibler

2nd place (tied) "Spatial Analysis of Actual Evapotranspiration Estimates from the iUTAH Climate Station Network" Kshitij Parajuli

3rd place- "Towards Sustainable Urban Stormwater Infrastructure: Improving the Estimation of Effective Impervious Area" Ali Ebrahimian

## YOUNGER MEMBERS & STUDENT PHOTO COMPETITION

"In Rivers We Trust, Others May Follow" Rajan Jha

James River in Virginia, flows through the central heart of Richmond and divides the city into two alluring halves. Since ages, this river has served as a habitat for some splendid wildlife and fisheries and has also been used for several industrial and entertainment purposes. To say the least, the river has the history of city engraved in it and for everyone living here; it stands synonymous to Richmond itself.



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### Expression of Appreciation (SANPAC)

Jamal S. Nagamia, P.E., M.ASCE

Kathleen M. Leonard, Ph.D., P.E., F.ASCE

Thursday, May 21 - Environmental and Water, Waste & Storm water Councils/ Freese Award Lecture Luncheon 12:15 – 1:45PM

## Simon W. Freese Environmental Engineering Award

The Simon W. Freese Environmental Engineering Award and Lecture is awarded to a distinguished person in the field of environmental engineering.

The 2015 Simon W. Freese Environmental Engineering Award is presented to **Lisa Alvarez-Cohen, Ph.D., A.M.ASCE**



**Lisa Alvarez-Cohen** is a professor of environmental engineering at the University of California, Berkeley. She has specialized knowledge in the areas of environmental microbiology and ecology, biotransformation and fate of environmental and wastewater contaminants, and innovative molecular and isotopic techniques for studying

microbial ecology of communities involved in wastewater treatment and bioremediation communities. Professor Alvarez-Cohen is receiving this award for her outstanding achievements in environmental microbiology and biotechnology, in supporting environmental engineering education, and in advancing the civil and environmental engineering profession.

## Rudolph Hering Medal

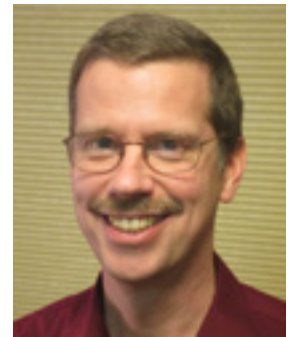
The Rudolph Hering Medal recognizes outstanding papers that contribute to the advancement of the environmental branch of the engineering profession.

The 2015 Rudolph Hering Medal is presented to **Michael Adelman, Monroe Weber-Shirk, Ph.D., Aff.M.ASCE, Jeffrey Will, Anderson Cordero, William Maher, & Leonard Lion, Ph.D.**



**Michael Adelman** is an associate engineer at MWH Global. He is receiving this award for co-authoring a paper entitled “Novel Fluidic Control System for Stacked Rapid Sand Filters,” published in the July 2013 issue of ASCE’s Journal of Environmental Engineering.

**Monroe Weber-Shirk** is a Senior Lecturer / Research Associate at Cornell University. He is receiving this award for co-authoring a paper entitled “Novel Fluidic Control System for Stacked Rapid Sand Filters,” published in the July 2013 issue of ASCE’s Journal of Environmental Engineering.



**Jeffrey Will** is a Fulbright Fellow. He is receiving this award for co-authoring a paper entitled “Novel Fluidic Control System for Stacked Rapid Sand Filters,” published in the July 2013 issue of ASCE’s Journal of Environmental Engineering.

**Anderson Cordero** is a Systems Consultant at Accenture. He is receiving this award for co-authoring a paper entitled “Novel Fluidic Control System for Stacked Rapid Sand Filters,” published in the July 2013 issue of ASCE’s Journal of Environmental Engineering.



**William Maher** is an Assistant Project Manager at Cauldwell Wingate. He is receiving this award for co-authoring a paper entitled “Novel Fluidic Control System for Stacked Rapid Sand Filters,” published in the July 2013 issue of ASCE’s Journal of Environmental Engineering.

**Leonard Lion** is a professor at the School of Civil and Environmental Engineering at Cornell University. After receiving his master’s degree from Stanford University, Professor Lion worked for two years with the U.S. Public Health Service on assignment to the Environmental Protection Agency, Office of Solid Waste Management Programs. He returned to Stanford to obtain his doctorate, continued there as a postdoctoral scholar, and then joined the Cornell faculty in 1981. He was a resident research fellow with the U.S. Air Force Engineering Services Center in 1988. Professor Lion is receiving this award for co-authoring a paper entitled “Novel Fluidic Control System for Stacked Rapid Sand Filters,” published in the July 2013 issue of ASCE’s Journal of Environmental Engineering.



## Wesley W. Horner Award

The Wesley W. Horner Award recognizes papers that have contributed to the areas of hydrology, urban drainage, or sewerage.

The 2015 Wesley W. Horner Award is presented to **Steven Chapra, Ph.D., F.ASCE, Kyle Flynn, Aff.M.ASCE, & J. Christopher Rutherford**

**Steven Chapra** is an engineering professor at Tufts University. He completed his undergraduate through post-graduate education at Manhattan College and University of Michigan, respectively. Aside from Tufts, Chapra worked for the U.S. EPA, NOAA and Texas A&M University and the University of Colorado. He is receiving this award for being a co-author on the paper “Parsimonious Model for Assessing Nutrient Impacts on Periphyton-Dominated Streams,” published in the June 2014 issue of ASCE’s Journal of Environmental Engineering.



**Kyle Flynn** is an environmental engineer, working as a hydrologist in the Water Quality Planning Bureau for the state of Montana. He is receiving this award for being a co-author on the paper “Parsimonious Model for Assessing Nutrient Impacts on Periphyton-Dominated Streams,” published in the June 2014 issue of ASCE’s Journal of Environmental Engineering.

**J. Christopher Rutherford** is an environmental engineer at the National Institute for Water and Atmospheric Research. He is receiving this award for being a co-author on the paper “Parsimonious Model for Assessing Nutrient Impacts on Periphyton-Dominated Streams,” published in the June 2014 issue of ASCE’s Journal of Environmental Engineering.



## Journal of Hazardous, Toxic, and Radioactive Waste

### 2015 Best Theoretical-Oriented Paper

G.L. Sivakumar Babu, Ph.D., F.ASCE

Krishna R. Reddy, Ph.D., P.E., D.GE, F.ASCE

Amit Srivastava, M.ASCE

*"Influence of Spatially Variable Geotechnical Properties of MSW on Stability of Landfill Slopes"*

### 2015 Best Practice-Oriented Paper

Y.C. Kuo

S.H. Liang

S.Y. Wang

S.H. Chen

C.M. Kao, F.EWRI, F.ASCE

*"Application of Emulsified Substrate Biobarrier to Remediate TCE-Contaminated Groundwater: Pilot-Scale Study"*

## Water, Wastewater & Stormwater Council Awards

### 2015 Outstanding Achievement Award

Latif Kalin, A.M.ASCE

### Task Committee Excellence

Urban Stormwater Outreach Task Committee (Chair: Rob Traver)

### Expression of Appreciation

Bridget Wadzuk, A.M.ASCE

Srinivasa Lingireddy, Ph.D., P.E., M.ASCE

Rafid M. Alkhaddar, Ph.D.





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