

## 2004 ASCE Award Recipients

### **Arid Lands Hydraulic Engineering Award**

**Walter Boughton, Ph.D., P.Eng.**

*“For major contribution in developing stream and frequency estimation models for arid and semi-arid regions and for research on losses in arid and semi-arid regions.”*

### **Harland Bartholomew Award**

**Robert D. Stevens, Ph.D., P.E., F.ASCE**

*“For over four decades of leadership on transportation and development projects and for contributions to the enhancement of the role of the civil engineer in urban planning and development.”*

### **Stephen D. Bechtel Pipeline Engineering Award**

**Arun K. Deb, Ph.D., P.E., F.ASCE**

*“In recognition of his demonstrated contribution to the advancement of science and engineering in the field of pipeline rehabilitation, operation and maintenance.”*

### **Stephen D. Bechtel, Jr. Energy Award**

*Not awarded in 2004*

### **John O. Bickel Award**

**Gerhard A. Girmscheid, Ph.D., M.ASCE**

**Clifford J. Schexnayder, Ph.D, P.E., F.ASCE**

*“For the paper, “Drill and Blast Tunneling Practices,” Practice Periodical on Structural Design and Construction, August 2002.”*

### **Maurice A. Biot Medal**

**Stephen Corteen Cowin, Ph.D., P.E.**

*“For his outstanding research contributions in the areas of mechanics of porous materials, continuum theory for granular material flows, elasticity of materials with voids, biological materials, solid-fluid interaction, structure and mechanics of bones, bone remodeling, and bioengineering.”*

### **CAN-AM Civil Engineering Amity Award**

**James C. McDougall, P.Eng., M.ASCE**

*“For significantly impacting the development of northern oil and gas resources in cold regions.”*

**Arthur Casagrande Professional Development Award**

**Scott M. Olson, Ph.D., A.M.ASCE**

*“For advancing understanding of the residual strength of liquefied soils based on new interpretations of flow slide case histories.”*

**Paul J. Sabatini, Ph.D., P.E., A.M.ASCE**

*“In recognition of contributions to the design of earth retention systems and ground anchors”*

**Jack E. Cermak Medal**

**Yukio Tamura, Ph.D., P.E., M.ASCE**

*“For his outstanding contributions to the analysis of dynamic effects of wind on tall and flexible structures, and his leadership in wind engineering education and research.”*

**Ven Te Chow Award**

**David A. Woolhiser, Ph.D., F.ASCE**

*“For groundbreaking work in the fields of physical hydrology, hydrometeorology, modeling of hydrologic systems; for providing guidance and inspiration to others; and for his continued research and service to the profession.”*

**Civil Government Award**

**José Abreu, P.E., F.ASCE**

*“For sustained meritorious performance in government, where his skills in promoting public transit and inter-modal transportation solutions to accommodate Florida’s rapid growth, have led to his 2003 appointment as Florida’s Secretary of Transportation.”*

**Collingwood Prize**

*Not awarded in 2004*

**Computing in Civil Engineering Award**

**Tomasz Arciszewski, Ph.D., A.M.ASCE**

*“For his efforts over the past five years to improve collaboration between groups around the world and culminating in his vision and creation of a Global Center of Excellence for Information Technology and Computing in Civil Engineering.”*

**Construction Management Award**

**Arnold I. Rosenberg, P.E., M.ASCE**

*“For his inspiring leadership and exceptional management of two highly complex major construction projects, the Austin-Bergstrom International Airport in Austin, Texas and the Great American Ball Park in Cincinnati, Ohio.”*

**J. James R. Croes Medal**

**Irene Man-Chi Lo, Ph.D., C.Eng.**

*“For the paper, “Innovative Waste Containment Barriers for Subsurface Pollution Control,” Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management, January 2003.”*

**Charles Martin Duke Lifeline Earthquake Engineering Award**

**James D. Cooper, P.E., F.ASCE**

*“For his leadership and contributions to the advancement of lifeline earthquake engineering, particularly in the area of seismic safety of highway bridges and other structures.”*

**Hans Albert Einstein Award**

**Pierre Y. Julien, Ph.D., P.Eng., M.ASCE**

*“For his national and international accomplishments in the development and application of numerical/empirical models to advance our knowledge of soil erosion, sediment transport, river mechanics and reservoir sedimentation.”*

**Simon W. Freese Environmental Engineering Award and Lecture**

**Don J. Wood, Ph.D., M.ASCE**

*“For his distinguished record of service to the environmental engineering community, particularly through the development and world-wide use of his KYPIPE and SURGE hydraulics programs.”*

**Alfred M. Freudenthal Medal**

**Ove Ditlevsen, Ph.D., M.ASCE**

*“For his outstanding contributions to both theory and engineering application of stochastic processes, reliability theory, and probabilistic modeling.”*

**Edmund Friedman Professional Recognition Award**

**James K. Michels, P.E., M.ASCE**

*“For promoting the civil engineering profession to young people, mentoring young engineers, promoting continuing professional education, and improving the civil engineers’ standing in the community, through active involvement in community and professional issues over the last 40 years.”*

**Edmund Friedman Young Engineer Award for Professional Achievement**

**Tiffany E. Adams, P.E., A.M.ASCE**

*“In recognition of her service to the advancement of the profession through education and outstanding contribution to public service outside her career.”*

**Carol A. Ellinger, P.E., M.ASCE**

*“In recognition of her service to the advancement of the profession through education and outstanding contribution to public service outside her career.”*

**Lorna K.F.L. Heller, P.E., M.ASCE**

*“In recognition of her service to the advancement of the profession and society and outstanding contribution to public service outside her career.”*

**Payam Khashaee, Ph.D., A.M.ASCE**

*“In recognition of his service to the advancement of the profession through education and demonstrated evidence of technical competence.”*

**Jennifer Tsien, P.E., M.ASCE**

*“In recognition of her service to the advancement of the profession and society and outstanding contribution to public service outside her career.”*

**Samuel Arnold Greeley Award**

*Not awarded in 2004*

**Shortridge Hardesty Award**

**Subhash C. Goel, Ph.D., P.E., M.ASCE**

*“In recognition of many substantial contributions and long lasting impact within the areas of stability research and seismic resistant design.”*

**Rudolph Hering Medal**

**Professor Simeon J. Komisar, Ph.D., A.M.ASCE**

**Jonghyuk Seok, Ph.D.**

*“For the paper, “Integrated Modeling of Anaerobic Fluidized Bed Bioreactor for Deicing Waste Treatment. II: Simulation and Experimental Studies,” Journal of Environmental Engineering, February 2003.”*

**Karl Emil Hilgard Hydraulic Prize**

**Samir Ali Ead, Ph.D., P.Eng., M.ASCE**

**N. Rajaratnam, Ph.D., P.Eng., F.ASCE**

*“For the paper, “Hydraulic Jumps on Corrugated Beds,” Journal of Hydraulic Engineering, July 2002.”*

**Julian Hinds Award**

**Gerald E. Galloway, Jr., Ph.D., P.E., F.ASCE**

*"For his leadership, vision, and long and distinguished service to the nation promoting wise use of lakes and rivers, and establishing a basis for effective floodplain management"*

**Civil Engineering History and Heritage Award**

**Robert A. Olmsted, P.E., F.ASCE**

*"For developing information on landmark nominations, the 1852 ASCE founding and early civil engineers, and pamphlets promoting civil engineering landmarks in the New York City region, including papers for the 2001 and 2002 National ASCE History Congresses."*

**Philip R. Hoffman Award**

*Not awarded in 2004*

**Wesley W. Horner Award**

**Chad M. Cristina, Ph.D., A.M.ASCE**

**John J. Sansalone, Ph.D., P.E., M.ASCE**

*"For the paper, "First Flush,' Power Law and Particle Separation Diagrams for Urban Storm-Water Suspended Particulates," Journal of Environmental Engineering, April 2003."*

**Ernest E. Howard Award**

**Neil M. Hawkins, Ph.D., M.ASCE**

*"For his contribution to the advancement of structural engineering through research, lecturing, and education of engineers in the United States, Australia, New Zealand, Japan, China, and other countries around the globe."*

**Walter L. Huber Civil Engineering Research Prize**

**Rao S. Govindaraju, Ph.D., A.M.ASCE**

*"For artificial neural networks and their applicability and use in hydrology, rainfall-runoff modeling, and stochastic subsurface hydrology"*

**Chandra R. Bhat, Ph.D., P.E., A.M.ASCE**

*"For innovative methods in transportation systems analysis and modeling"*

**Glaucio H. Paulino, Ph.D., A.M.ASCE**

*"For development of advanced analytical and computational methodologies for stress analysis to characterize the deformation and fracture behavior of emerging new materials"*

**Rodrigo Salgado, Ph.D., P.E., M.ASCE**

*"For foundation engineering, particularly the analysis of foundations and the applications of these analyses to the design of both shallow and deep foundations"*

**Bozidar Stojadinovic, Ph.D., A.M.ASCE**

*“For research to improve the earthquake resistance of steel structures”*

**Hydraulic Structures Medal**

**J. Sterling Jones, P.E., M.ASCE**

*“For his distinguished and significant contributions to the hydraulic engineering community in the areas of flow through highway culverts, local scour at bridge piers and abutments, bridge scour countermeasures, and storm sewer junction losses. “*

**Innovation in Civil Engineering Award**

*Not awarded in 2004*

**International Coastal Engineering Award**

**Philip Li-Fan Liu, Sc.D., F.ASCE**

*“In recognition of his outstanding achievements and contribution to the advancement of coastal engineering through research, education, engineering practice, and professional leadership.”*

**ASCE Excellence in Journalism Award**

**Stuart Leavenworth**

*“For coverage of the disastrous effect heavy flooding could have on the Sacramento Valley’s aging levees, and the necessity of engineering solutions and infrastructure investment to prevent massive damage and loss of life that could result.”*

**Martin S. Kapp Foundation Engineering Award**

*Not awarded in 2004*

**James Laurie Prize**

**James L. Lammie, P.E., Hon.M.ASCE**

*“For contributions to the advancement of transportation engineering through his national and international leadership on technically innovative highway, bridge, and tunnel design and construction projects.”*

**T.Y. Lin Award**

**Robert E. Englekirk, Ph.D., P.E., M.ASCE**

*“For the paper, “Design-Construction of the Paramount – A 39-Story Precast Prestressed Concrete Apartment Building,” PCI Journal, July/August 2002.”*

**Frank M. Masters Transportation Engineering Award**

**Hani S. Mahmassani, Ph.D., P.E., M.ASCE**

*“For his diverse transportation interests and abilities and for his outstanding contributions to advancing transportation engineering and planning through his internationally recognized research efforts and his commitment to teaching and mentoring the future transportation leaders.”*

**Daniel W. Mead Prize for Students**

**Keith H. Woffinden, S.M.ASCE**

*“For the paper, “The Ethical Political Engineer”*

**Daniel W. Mead Prize for Younger Members**

**Richard August Kaufmann, P.E., M.ASCE** (Zone III and National Winner)

*“For the paper, “Is It Ethical for Engineers to Hold Political Positions While Practicing Engineering?”*

**Rose A. Rodriguez, P.E., M.ASCE** (Zone II Winner)

**Brook Maples, P.E., A.M.ASCE** (Zone IV Winner)

**Thomas A. Middlebrooks Award**

**Lindsey Sebastian Bryson, Ph.D., P.E., M.ASCE**

**Michele Calvello, Ph.D., P.Eng.**

**Richard J. Finno, Ph.D., P.E., M.ASCE**

*“For the paper, “Performance of a Stiff Support System in Soft Clay,” Journal of Geotechnical and Geoenvironmental Engineering, August 2002.”*

**John G. Moffatt - Frank E. Nichol Harbor and Coastal Engineering Award**

**Richard A. Woodman, P.E., M.ASCE**

*“For his many contributions to the port industry, in particular for development of a flexible, innovative approach to maritime planning, and for his comprehensive understanding of port design and port operations, combining expertise in both Civil Engineering and industrial operations.”*

**Moisseiff Award**

**Cole C. McDaniel, Ph.D., P.E., M.ASCE**

**Frieder Seible, Ph.D., P.E., M.ASCE**

**Chia-Ming Uang, Ph.D., M.ASCE**

*“For the paper, “Cyclic Testing of Built-Up Steel Shear Links for the New Bay Bridge,” Journal of Structural Engineering, June 2003.”*

**Nathan M. Newmark Medal**

**Theodore V. Galambos, Ph.D., P.E., Hon.M.ASCE**

*“For his outstanding contributions in inelastic instability and plastic analysis of steel structures, and his seminal contributions and development of Load and Resistance Factor Design concepts in structural engineering.”*

**ASCE News Correspondent Award**

*Not awarded in 2004*

**Alfred Noble Prize**

*Not awarded in 2004*

**Norman Medal**

**Gholamreza Mesri, Ph.D., M.ASCE**

**Marawan M. Shahien, Ph.D., A.M.ASCE**

*“For the paper, “residual Shear Strength Mobilized in First-time Slope Failures “ Journal of Geotechnical and Geoenvironmental Engineering, January 2003.”*

**John I. Parcel - Leif J. Sverdrup Civil Engineering Management Award**

**RADM David J. Nash, CEC, USN (Ret.), P.E., M.ASCE**

*“For outstanding contributions in civil engineering management as Director, Iraq Program Management Office, where he has demonstrated character, integrity and leadership, managing the formidable task of rebuilding Iraq’s infrastructure, following successive senior leadership positions in the military and private sector.”*

**Ralph B. Peck Award**

**Demetrious C. Koutsoftas, P.E., M.ASCE**

*“For his insightful discussion of the complex behavior of soft soils, entitled “Post-Preload Settlements of a Soft Bay Mud Site,” and for his contributions to the engineering of constructed facilities on these soils.”*

**Peurifoy Construction Research Award**

**David B. Ashley, Ph.D., P.E., M.ASCE**

*“For his contributions in the application of quantitative methods to improve construction planning and analysis of project risk.”*

**Harold R. Peyton Award for Cold Regions Engineering**

**Daniel W. Smith, Ph.D., P.Eng., F.ASCE**

*“For his unstinting efforts in promoting and practicing the field of Cold Regions Engineering with particular emphasis on research, teaching, and design of water, wastewater, storm water, and solid waste facilities in cold regions”*

### **ASCE Presidents' Award**

**Stephen C. Mitchell, P.E., F.ASCE**

*"For dedicated service to his profession and country, as exemplified through numerous leadership positions with civic and professional organizations, including ASCE, CERF, Illinois Coalition, Chicago Mayor's Council of Technology Advisors, Teacher's Academy for Mathematics and Science, and University engineering programs."*

### **ASCE President's Medal**

**Maria C. Lehman, P.E., F.ASCE**

*"For her accomplishments and contributions to the Society and the profession through her service on the Board of Direction as Director and Vice President, and for her dedicated leadership on public policy and on the issues of women and diversity in civil engineering"*

**Captain Robert E. Leverington, Jr., USA, P.E., M.ASCE**

*"For his enthusiastic and dedicated service to ASCE while on active duty in Iraq, and for his accomplishments and contributions to capacity building through creation of a start-up ASCE International Group in Iraq"*

### **Raymond C. Reese Research Prize**

**Thierry Chicoine, Ph.D., P.E.**

**Bruno Massicotte, Ph.D., P.Eng., M.ASCE**

**Robert Tremblay, Ph.D, P.E.**

*"For the paper, "Long-Term Behavior and Strength of Partially Encased Composite Columns Made with Built-Up Steel Shapes," Journal of Structural Engineering, February 2003."*

### **Rickey Medal**

*Not awarded in 2004*

### **Robert Ridgway Student Chapter Award**

**South Dakota State University**

*"For excellence in the effective and meritorious conduct of its affairs as a student chapter of ASCE through the ability and professional diligence of the Chapter officers, members, and faculty advisors."*

### **Roebbling Award**

**John C. Shimmick, P.E.**

*"For his outstanding contributions to the heavy construction industry throughout his career of more than forty-five (45) years as exemplified by his involvement in the retrofit of the south end of the Golden Gate Bridge."*

**Hunter Rouse Hydraulic Engineering Award**

**John A. Replogle, Ph.D., P.E., F.ASCE**

*“For research that produced a series of pioneering handbooks, technical articles, inventions, and technologies that dramatically improve the management of the irrigated lands of the nation and the world.”*

**Thomas Fitch Rowland Prize**

**Eytan Goldschmidt, P.Eng.**

**Ronie Navon, Ph.D., P.Eng., M.ASCE**

*“For the paper, “Can Labor Inputs be Measured and Controlled Automatically?” Journal of Construction Engineering and Management, July/August 2003.”*

**Robert H. Scanlan Medal**

**Jack E. Cermak, Ph.D., P.E., Hon.M.ASCE**

*“For his pioneering work in wind engineering, wind tunnel simulations and advancement in the design of structures subjected to wind loading.”*

**H. Bolton Seed Medal**

**James K. Mitchell, Sc.D., P.E., Hon.M.ASCE**

*“In recognition of his numerous and broad contributions to the fundamental understanding and professional practice of geotechnical and geoenvironmental engineering.”*

**Wilbur S. Smith Award**

**Thomas W. Brahms, M.ASCE**

*“For contributions to the enhancement of the role of the civil engineer in highway engineering through his guidance and leadership of the Institute of Transportation Engineers.”*

**State-of-the-Art of Civil Engineering Award**

**ASCE Technical Committee on Optimal Structural Design**

*“For the report, “Recent Advances in Optimal Structural Design,” edited by Scott A. Burns and published by ASCE, 2002, ISBN No. 0-7844-0636-7.”*

**J.C. Stevens Award**

**Tommy Sai Wai Wong, Ph.D., P.E., F.ASCE**

*“For the paper, “Discussion of Predicting River Travel Time from Hydraulic Characteristics” by Harvey E. Jobson,” Journal of Hydraulic Engineering, May 2003.”*

**Surveying & Mapping Award**

**Jack Dangermond, P.E.**

*“For his unstinted devotion and contributions to the advancement of surveying and mapping, particularly in the development of international applications of GIS technology.”*

**Karl Terzaghi Award**

*Not awarded in 2004*

**Karl Terzaghi Lecture**

**Professor Harry G. Poulos, Ph.D., P.E., F.ASCE**

*“For his significant contribution to the development and practical applications of geotechnical analysis to deep and shallow foundations.”*

**Royce J. Tipton Award**

**William F. Ritter, Ph.D., P.E., F.ASCE**

*“For outstanding contributions to the advancement of water quality aspects of irrigation and drainage engineering and land application of wastewaters under humid conditions through research, teaching, extension, and public and professional service.”*

**Francis C. Turner Lecture**

**Thomas M. Downs**

*“For outstanding contributions to the advancement of knowledge and practice of transportation engineering, for vision and commitment to a balanced, multi-modal transportation system, and for national leadership in the areas of transit policy and land use planning.”*

**Theodore von Karman Medal**

**Theodore Yao-tsu Wu, Ph.D.**

*“For his pioneering leadership and inspiring creative studies on fluid dynamics, forced nonlinear and dispersive waves, biofluid and environmental mechanics, hydrodynamic stability theory, and for his generous mentorship.”*

**Arthur M. Wellington Prize**

**Rafael Manzanarez, P.E., M.ASCE**

**Marwan N. Nader, Ph.D., P.E., S.M.ASCE**

**John J. Sun, Ph.D., P.E.**

*“For the paper, “Design of Looping Cable Anchorage System for New San Francisco-Oakland Bay Bridge Main Suspension Span,” Journal of Bridge Engineering, November/December 2002.”*

George Winter Award

**Reidar Bjorhovde, Ph.D., P.E., F.ASCE**

*“In recognition of his many engineering achievements, and his contributions to the arts in the Pittsburgh and Tucson communities; he is uniquely qualified for this award which recognizes engineering success and a humanistic approach to the profession.”*

**William H. Wisely American Civil Engineer Award**

**Luther W. Graef, P.E., F.ASCE**

*“In recognition of his continued outstanding achievements on behalf of the Society.”*

**Sandra L. Houston, Ph.D., P.E., M.ASCE**

*“For her accomplishments and contributions to the Society and the profession through her service to the Geo-Institute and its Board of Governors, and for her dedicated leadership in civil engineering education.”*

**Younger Member Group Award for Large Groups -  
Hawaii Section Younger Member Forum**

**Younger Member Group Award Letters of Commendation**

*Phoenix Branch Younger Member Forum*

*Seattle Section Younger Member Forum*

*Colorado Section Younger Member Group*

*Houston Branch Younger Member Group*

**Younger Member Group Award for Small Groups  
West Virginia Section Younger Member Forum**