

Bridging the Water Gap Speaker Biographies



Ryan Case

Ryan Case, director and co-founder of the Water Stewards Network, has personally worked on behalf of sustainable development and human rights issues in various parts of the world. Case has designed and constructed ecological wastewater treatment systems with internationally recognized biologist, John Todd and continues to expand this work. He is dedicated to study and bring awareness to global water issues and policies. Case is also active in Peoples' World Water Movement an organization concerned with water privatization and every human beings inherent right to fresh water.

Masaru Emoto

Japanese researcher and author, Masaru Emoto, has been studying water since 1988. He was lead to his research by a series of remarkable discoveries pertaining to the nature of water. Emoto describes the phenomenon of HADO as "the intrinsic vibrational pattern at the atomic level in all matter" or "the smallest unit of energy" which is the basis for his work. His findings show the changes that occur in water's crystalline structure after exposure to various types of hado, including music, pictures, words and prayer. Emoto has come to some startling conclusions that show how water is receptive to various stimuli and water's crystalline structure can actually be transformed. He has found that crystals formed in frozen water reveal changes when specific, concentrated sounds or thoughts are directed toward them. For example, water from clear springs or water that has been exposed to classical music, loving words or prayer display brilliant, complex, and colorful snowflake patterns upon freezing. On the other hand, polluted water or water exposed to negative music, thoughts or words form incomplete, asymmetrical patterns with dull color.



Emoto's water crystal photographs are displayed in his *Messages from Water* book series and his 2004 book *The Hidden Messages in Water. The True Power of Water* will be the title of Emoto's upcoming book and U.S. tour. This new publication is due for release in April, 2005. Emoto's work has been featured in *The Journal of Complementary and Alternative Medicine*, March 2004 and in the independent film, *What the #\$BLEEP*! Do We Know?* His research is gaining national popularity and generating recognition from scientists, health advocates, and environmentalists.

Donna Goodman



Donna Goodman is the founder and developer of the Earth Child Institute. The Earth Child Institute is dedicated to the development and implementation of hands-on interdisciplinary and multicultural educational initiatives for young people. She is the author of *Every Body Counts, Every Drop Matters: United Nations Classroom Resource Guide on Water*. Goodman currently works as a consultant with UNICEF and is developing a learning module interactive computer game on Water, Environment and Sanitation. In her role as Chairperson of the UN CONGO Education Committee Task Force on Sustainable Development and Peace Education, she initiated the project *Pumped Up for Peace*. This student-led initiative to raise funds and awareness toward global freshwater issues is currently featured on the United Nations Cyberschoolbus Educational web portal. Goodman also co-founded Little Scientists Franchise Corporation and presently serves on the advisory board of The House of the Children, an indigenous community water project in the Manu Rainforest in Peru. Goodman is the co-author of five hands-on science books published by McGraw-Hill. She has expertise in “scripting” teacher’s manuals so that an untrained person could become an effective project manager, teacher and student guide.

In 1999, Goodman was named to the Top 100 Women in Franchising by the International Franchise Association and is a frequent speaker for the National Association for the Education of Young Children. Goodman holds a BS degree in Business Administration and Marketing from the University of Connecticut, 1981.



Tyrone Hayes, PhD

Tyrone Hayes, professor of integrative biology at UC Berkeley and internationally recognized scientist, conducts research on the metamorphosis of frogs. Research on the sex differentiation in reptiles and amphibians forms the core of his work. Hayes conducts fieldwork in the U.S., Uganda, Kenya, Tanzania, and southern Africa. He studies male and female growth patterns to determine how anomalies in the usual patterns are disrupted.

Hayes has teamed with the United States Geological Society (USGS) and has retained 10,000 gallons of water from 3 sources including the upper Mississippi River. This water, presently frozen in his Berkeley lab, is used in his ongoing research. This research has highlighted the means by which pesticides interfere with the thyroid hormone that regulates frog development. Environmental disturbances

in frog hormones may forewarn developmental changes in other species, including humans.

Hayes' ability to train students, to develop skills far beyond those normally expected of undergraduates, has earned him recognition as one of five recipients of the new College of Letters and Science Award for Distinguished Research Mentoring of Undergraduates. Urging students to become fully functioning scientists, Hayes assists them with laboratory set up, grant-writing, publication, and presentation skills. Hayes received his B.A from Harvard and PhD from UC Berkeley. He is willing to discuss his research with anyone willing to listen.

Daniel Kammen, PhD

Daniel Kammen is the *Class of 1935 Distinguished Professor of Energy* at UC, Berkeley where he is a professor in the Energy and Resources Group, professor in the Goldman School of Public Policy, and professor of Nuclear Engineering. Kammen is also the founding director of Renewable and Appropriate Energy Laboratory RAEL (<http://socrates.berkeley.edu/~rael>) where he works with faculty colleagues, postdoctoral fellows, and students on a wide range of science, engineering, economics and policy projects related to energy systems and the environment.



The focus of Kammen's work is on the science and policy of clean, renewable energy systems, energy efficiency, the role of energy in national energy policy, international climate debates, and the use and impacts of energy sources and technologies on development, particularly in Africa and Latin America. He serves on the board of The Utility Reform Network, the National Advisory Board of the Union of Concerned Scientists, on the Technical Review Board of the Global Environment Facility, and is a Permanent Fellow of the African Academy of Sciences. Prior to coming to Berkeley, he was an Assistant Professor of Public and International Affairs in the Woodrow Wilson School of Public and International Affairs at Princeton University where he helped to develop and then chair the interdisciplinary Science, Technology, and Environmental Policy (STEP) Program.

Kammen has published five books, over 160 journal articles and 30 research reports, many of which are available on the RAEL website. Kammen has worked with the media to bring awareness of energy issues to the public and to elected officials. Recently he has made appearances on PBS, along with TechTV, CNN, ABC, CBS, and in a number of foreign media. Kammen debated Bjorn Lomborg, author of *The Skeptical Environmentalist*, about which Kammen was more than a little skeptical. Kammen received his undergraduate and doctorate degrees in physics at Cornell and Harvard.

Marcia Macomber

Marcia Macomber is the Director of Program Development for the Universities Partnership for Transboundary Waters. This international consortium, of ten universities on five continents, is working to raise awareness for cooperative water resources governance through training programs, research, and outreach. Macomber has served as an International Development Associate with the University of Michigan's Population, Environmental Change, and Security (PECS) Initiative, and worked on international transboundary environmental issues with the U.S. Embassy's Regional Environmental Hub in Amman, Jordan and on the U.S. Mexican border. Macomber holds a B.S. in Biology from San Francisco State University, San Francisco, California and a MS in Resource Geography with a minor in Fisheries Science from Oregon State University.



William E. Marks

William E. Marks, researcher and long time advocate for the protection of water, will share his life's passion concerning water. His book *The Holy Order of Water*, endorsed by Walter Cronkite and Larry Dossey, is an amazing summary of water's significance throughout history and the important role water has played in all cultures.



Marks briefly served as the Senior Environmental Analyst for the City of Newark's water programs before undertaking a 7,000 mile horseback trek across the United States. During the trek, entitled *Ride For Nature*, Marks lived outside for two years while assessing America's waters from San Diego to Maine. He has since visited Europe, North Africa, Australia, Ireland and other countries to study historical water management practices.

Marks, longtime resident of Martha's Vineyard, founded both Vineyard Environmental Research Institute and the first state-certified water testing laboratory. He has also worked to clean up Edgartown Harbor. Marks has testified before Congress and has been featured on CNN and in other national media as a water resource expert. He is a contributor to the forthcoming *Encyclopedia of Water* and is founder of World Waterway Institute. Marks is founding publisher/editor of *Nantucket Magazine*, Martha's Vineyard Magazine and presently writes a water column for the national magazine *Wellness Bound*. Marks has received numerous awards including Groundwater Guardian Award from the National Geographic Society and Water Hero of the Month award from World Water Rescue Foundation. He continues international travel in his ongoing research of water.

Craig Peyton

Craig Peyton is founder of EarthFlight Media, a multi media production and music company that combines Peyton's passion for flying, music and photography. EarthFlight Media produces unique, inspiring films that reflect the beauty of nature. Peyton learned the craft of aerial cinematography, flying his Mooney 201 aircraft filming a full length music video to support his own #1 audio CD release: *Latitude, 40 Degrees North*. He has since filmed a multitude of 35MM aerials throughout North America, Central America, South America, Africa, and Europe.



Peyton's broad range of abilities include composition of underscore for the Smithsonian, PBS *Nature* series, and the hit TV show, *Friends*. He has also produced DVD's and CDR's for the aviation industry and the Bahamas Tourist industry. Peyton flew with legendary aerial photographer Robert Fulton, in a single engine Cessna aircraft from New York to Quito, Ecuador while filming for the *BBC*. Peyton's aerial photography has contributed to many films such as *Storm* with Luke Perry and *Island of Doctor Moreau* with Marlon Brando. Peyton's newly released DVD, *The Spirit of Water*, captures on film the natural forms of water in all its beauty as it exists in nature.

Fred Alan Wolf, PhD

Fred Alan Wolf is a physicist, writer, and lecturer who earned his Ph.D. in theoretical physics at UCLA in 1963. Wolf is well known for his simplification of the new physics and is perhaps best known as the author of *Taking the Quantum Leap* which, in 1982, was the recipient of the prestigious National Book Award for Science. Wolf is a member of the Martin Luther King, Jr. Collegium of Scholars.

Dr. Wolf has taught at the University of London, the University of Paris, the Hahn-Meitner Institute for Nuclear Physics in Berlin, The Hebrew University of Jerusalem, Birkbeck College, and 12 years at San Diego State University in the United States. He is the author of eleven books.



Upon graduation from UCLA, Wolf began researching the field of high atmospheric particle behavior following a nuclear explosion. His inquiring mind has delved into the relationship between human consciousness, psychology, physiology, the mystical, and the spiritual. Wolf's investigations have taken him from intimate discussions with physicist David Bohm to the magical and mysterious jungles of Peru, from master classes with Nobel Laureate Richard Feynman to the high deserts of Mexico, from a significant meeting with Werner Heisenberg to the hot coals of a fire walk.

Wolf has also appeared as the resident physicist on The Discovery Channel's "*The Know Zone*" and on many other television and radio programs across the United States and abroad. Dr. Wolf is currently featured in the recent independent film, "*What the #\$BLEEP*! Do We Know!*" He continues to write, lecture worldwide, and conduct research on the relationship of quantum physics to consciousness.