

Sensing LA Panelist and Speaker Bios

Panel I: Cost savings, efficiency improvements, and environmental reporting through rapidly deployable, cost-effective infrastructure-based monitoring

Magali Delmas

Associate Professor of Management
Director of the Center for Corporate Environmental Performance
UCLA Institute of the Environment

Standing at the crossroads of policy and management, Magali Delmas' research focuses on the various interactions between environmental policy and business strategy at the national and international level. She seeks to understand how environmental policies influences firms' strategies and performance and in turn how firms help shape environmental policy. Professor Delmas' current work includes the analysis of the effectiveness of firms' voluntary actions to mitigate climate change. She is involved in several projects related to firms' voluntary strategies to reduce greenhouse gases in the electric utility sector. She is also engaged in refining current methodologies to measure and communicate firm's and products' environmental performance. Previous to embarking on an academic career she worked at the European Commission as the economic advisor of the Director for Industry.

Ken Johnson

Senior Member of the Engineering Staff
Jet Propulsion Laboratory

One of Ken's roles at JPL is to help market organizational engineering expertise to address problems and issues associated with renewable energy (particularly solar PV), water conservation/ reclamation/reuse, smart grid implementation and other related topics. Ken came to JPL in 1989 to manage the Space Simulator facility operations. Since then, he has worked in a variety of capacities, including more recently as the Task Manager of the Segmented Thermoelectric Multicouple Converter (STMC) Development project and leader of the JPL involvement in NASA's In-Situ Resource Utilization (ISRU) Project. Ken's educational background is in Chemical Engineering. Earlier in his career, he was involved in helping to develop EPA's "Best Available Control Technology" guidelines for cleaning water effluents from polymer production plants and spent a couple of years associated with the design and start-up of parabolic trough solar collector arrays and with a company associated with generating power from geothermal wells.

Bill Kaiser

Professor of Electrical Engineering
UCLA

Professor William J. Kaiser received a PhD in Solid State Physics from Wayne State University in 1984. From 1977 through 1986, as a member of Ford Motor Co. Research Staff, his development of automotive sensor and embedded system technology resulted in large volume commercial sensor production. At Ford, he also developed the first spectroscopies directed to microelectronics systems based on scanning tunneling microscopy. From 1986 through 1994, at the Jet Propulsion Laboratory, he initiated the NASA Microinstrument program for distributed sensing. In 1994, Professor Kaiser joined the faculty of the UCLA Electrical Engineering Department. Along with Professor Pottier, he initiated the first wireless networked microsensor programs with a vision of linking the Internet to the physical world through distributed monitoring. This continued research includes the topics of low power embedded computing for wireless networked sensing, biomedical embedded computing, robotic sensor systems for environmental monitoring, and distributed sensing for energy and water resource management. Professor Kaiser served as Electrical Engineering Department Chairman from 1996 through 2000. Dr. Kaiser has over 180 publications and 30 patents. He has received the Peter Mark Award of the American Vacuum Society, the NASA Medal for Exceptional Scientific Achievement, the Arch Colwell Best Paper Award of the Society of Automotive Engineers, the Best Paper Award at BodyNets 2008, two R&D 100 Awards, the Allied Signal Faculty Research Award, the Brian P. Copenhaver Award for Innovation in Teaching with Technology, and the UCLA Gold Shield Faculty Award.

Jonathan Leung

Managing Water Utility Engineer
Los Angeles Department of Water and Power

Jonathan Leung is a Managing Water Utility Engineer at the Los Angeles DWP, where he has served for the past 17.5+ years. He is currently in charge of the Water System's Infrastructure Programs, including the maintenance/ replacement of pipelines, valves, meters, and other critical components of the distribution system. Mr. Leung also served as an interim manager of the LADWP's Water Conservation Program in Fall 2008. The LADWP, in conjunction with the Mayor's Office, recently prepared the Mayor's Long Term Water Supply Plan for the City of Los Angeles, "Securing LA's Water Supply". This plan highlights the Mayor's vision to meet long term water supply needs through the combination of increased water conservation, recycled water and alternative water supplies, groundwater clean-up and recharge, and enhanced stormwater capture. Mr. Leung looks forward to contributing to today's panel through his familiarity with the water resources challenges faced by the LADWP and other utilities, and his experience in planning and designing water distribution system facilities.

Presentation: Personal Mobile Sensing for Eco-Responsibility

Deborah Estrin

Professor of Computer Science and CENS Director
UCLA

Deborah Estrin holds the Jon Postel Chair in Computer Networks and is Founding Director of the National Science Foundation funded Center for Embedded Networked Sensing (CENS). CENS' mission is to explore and develop innovative, end-to-end, distributed sensing systems, across an array of applications, from ecosystems to human systems. Since the late 90's Estrin's work has focused on multi-disciplinary, experimental-systems research as applied to a variety of environmental monitoring challenges. Most recently this work includes mobile personal sensing systems, leveraging the location, acoustic, image, and attached-sensor data streams increasingly available globally from mobile phones. Estrin was selected as the first ACM-W Athena Lecturer in 2006, was awarded the Anita Borg Institute's Women of Vision Award for Innovation in 2007, and was inducted as a member of the American Academy of Arts and Sciences in 2007. She is a fellow of the IEEE, ACM, and AAAS and was granted Doctor Honoris Causa by EPFL in 2008.

Panel II: Engaging citizenry to inform and contribute to public works projects

Carol Armstrong

Project Manager, Los Angeles River Revitalization Master Plan
Bureau of Engineering, City of Los Angeles

Carol Armstrong is the project manager for overseeing implementation of the Los Angeles River Revitalization Master Plan (LARRMP). She directed the LARRMP's planning and environmental clearance processes, and coordinated its approval, which was granted by the Los Angeles City Council on May 9, 2007. During the LARRMP process, she oversaw a team of experts in the public and private sectors and coordinated public outreach and involvement with various stakeholders. She is now co-directing the Los Angeles River Project Office in the City's Bureau of Engineering and is overseeing development of the LARRMP's recommended 3-tiered governance structure. Ms. Armstrong has participated in a variety of collaborative environmental research projects, including an analysis of the revitalization opportunities for the Melaka River in Malaysia (2002), an examination of the possibilities for sustainably reusing post-World War II high-rise housing developments in Delft, The Netherlands (2002), an evaluation of brownfield redevelopment in the Rhine-Ruhr region of Germany (2001), and an analysis of the environmental impacts of small businesses in Tijuana, Mexico (2000). She has presented her research at a variety of international meetings, including the Association of European Schools of Planning Congress, Vienna, Austria (2005); The Wessex Institute of Technology Conference on Brownfields, Cadiz, Spain

(2002); and the First World Planning Schools Congress, Shanghai, China, (2001). She earned a Ph.D. degree in urban planning from the University of Southern California (2007, Los Angeles, California), a master of public policy degree from Georgetown University (1997, Washington, DC), and a bachelor of arts degree in political communication, Phi Beta Kappa, from Purdue University (1992, West Lafayette, Indiana).

Jeff Brown

Senior Landscape Architect
California Department of Parks and Recreation

Jeff Brown manages the Landscape Architecture Section of California State Parks, Acquisition and Development Division's Southern Service Center in San Diego. He also manages a variety of development projects at State Parks throughout Southern California. Mr. Brown was the project manager for the design and construction of the interim park at Los Angeles State Historic Park which opened in September 2006, and currently manages the design contract for the permanent development being led Hargreaves Associates and their design team. The build out of permanent development, currently estimated at \$120-150 million, is scheduled to break ground on the first phase in late 2010 or early 2011. LASHP will be a new model for a California state historic park: deeply rooted in a sense of place and revealing many layers of history. The mandate to reflect Los Angeles history has guided the development of the interpretive vision while a resonant theme for the park is "connectivity." Visitors to the park will be connected to the outdoors and have opportunities for reflection, recreation, rejuvenation and relaxation. Experiences for learning, celebration, storytelling and discovery will permeate the site, restoring to the people of Los Angeles lost connections to their history and culture, the river, nature and each other.

Jeff Burke

Executive Director
UCLA REMAP

Jeff Burke's research explores how emerging technologies can be employed to serve expressive and social goals, and focuses on the rich opportunities for synthesis across disciplines within theater, media installation, architecture, and systems engineering. He has designed, managed or produced performances, new genre art installations and new facility construction in nine countries from 1999-2008. Burke is Executive Director of REMAP, the Center for Research in Engineering, Media and Performance at the University of California, Los Angeles (UCLA), a joint program of UCLA's School of Theater, Film and Television and Henry Samueli School of Engineering and Applied Science. REMAP's core projects investigate the interrelationships among community, culture and technology and how embedded and mobile computing can support community development and cultural expression. Burke is also area lead for urban sensing at the National Science Foundation Center for Embedded Networked Sensing at UCLA. He has acted as a design consultant and owner's representative for construction of media and performing arts facilities, including the Japanese American National Museum's National Center for the Preservation of Democracy, completed in 2006.

Christopher Espinosa

Director of Capital Projects
Office of the Mayor, City of Los Angeles

Christopher Espinosa currently serves as the Director of Capital Projects for Los Angeles Mayor Antonio Villaraigosa. His responsibility includes policy and budgetary matters as it relates to the Department of Public Works, which is the City's third largest Department and responsible for construction, renovation, and the operation of City facilities and infrastructure. In addition, he represents the Mayor's Office on various Construction Bond Oversight Committees, including Proposition Q (police stations); Proposition F (fire stations and animal shelters); and, the Zoo Capital Improvement Program. Other duties include the development of parks, athletic facilities, and joint use projects with the Department of Recreation & Parks and Los Angeles Unified School District. Prior to his position with the Mayor's Office, Christopher worked for the Los Angeles City Council in the Office of the Chief Legislative Analyst. His work included citywide budget formulation, ethics and campaign finance issues, and public safety related initiatives. He also worked for the Mayor's Office of Operations in New York City and for a congressional member in Washington, D.C.

Simon Pastucha

Urban Design Studio

Department of City Planning, Los Angeles

Simon Pastucha is an Urban Designer that lives without a car in the Los Angeles region. He began 20-year+ career after graduating from California State Polytechnic University Pomona with a degree in Landscape Architecture with an emphasis on ecosystematic design and sustainability. He served as Chief Planning Deputy for Councilman Michael Feuer working on major planning, transportation, public works projects and legislation. He was a key part of implementing the new Los Angeles City Charter. He has worked on amendments to the Los Angeles Municipal Code resulting in reducing impediments to new housing, adaptive reuse of existing structures, and code simplification. He has handled entitlements worth over \$20 billion. He is currently with the Urban Design Studio of the Los Angeles Department of City Planning. The mission is to integrate urban design into the basic building blocks of the City (www.UrbanDesignLA.com).