WELCOME!

The Arid Lands Institute at Woodbury University (ALI), in partnership with the California Architectural Foundation (CAF), is proud to welcome you to the 2012 Drylands Design Conference. ALI and CAF share a vision for a future in which the landscapes and communities of the West are environmentally, culturally, and economically resilient in the face of climate change. Design of the built environment has an unrecognized potential to provide vision and leadership within the constraints of water, energy, and climate change in the American West.

Retrofitting the West: Adaptation by Design brings together architects, landscape architects, artists and engineers with leading policy analysts, scientists, and environmental leaders to debate a range of design strategies for the future.

The conference kicks off with an opening reception at the A+D Architecture + Design Museum in Los Angeles on World Water Day, Thursday, March 22. On view through April 26, the exhibition, DRYLANDS DESIGN IN AN AGE OF CHANGE: Visionary Proposals for a Water-Scarce Future, showcases selected work from CAF’s William Turnbull Drylands Design Competition. The exhibition presents a portfolio of adaptive strategies large and small, rural and urban, high tech and low-carbon. The exhibition is scheduled to travel in the US and abroad.

In an innovative cross-disciplinary collaboration, ALI and UCLA’s Institute of the Environment and Sustainability provided technical and policy advising to five ALI research award winners chosen from the CAF William Turnbull Drylands Design Competition. On Friday, March 23, the five award-winning teams will present their design proposals and discuss the policy implications they suggest. These design case studies and the panel discussions they inform raise important questions about decoupling energy and water, localizing resources, restructuring watershed governance, the scalability of small systems, the relationship between water infrastructure and public architectures, and the role of the arts and design in shaping a working public landscape.

On Saturday March 24th, design educators are invited to an informal breakfast and roundtable discussion on interdisciplinary methods for advancing Drylands Design regionally and globally.

ALI and CAF thank Woodbury University and Woodbury School of Architecture, led by CAF Regent and Dean Norman Millar, for their support.

Thank you for joining us.

Hadley + Peter Arnold
ALI Co-Directors
CONFERENCE OVERVIEW

Nowhere are the opportunities for global leadership in water-smart design greater than in the US West. Shifts in the economy, demographics, and climate are requiring westerners to rethink the centralized, energy-intensive water systems of the 20th century.

What do design professions have to contribute, and how can they be more effective?

This conference will re-examine the built environment of the arid and semi-arid west as a vast field of opportunities for water-smart design innovation at a range of scales, from building systems to infrastructure and landscape spaces.

The conference will present and debate a portfolio of design strategies generated in response to the challenges set forth in the Drylands Design Competition, and explore the shifts in policy, practice, and pedagogy they suggest.
THURSDAY 3/22

12:00P - 5:00P  
PRECONFERENCE REGISTRATION  
WOODBURY UNIVERSITY  
AHMANSON MAIN SPACE  
Woodbury University  
7500 North Glenoaks Blvd  
Burbank, CA 91510  
818.767 0888  
drylandsconference.com  
aridlands.woodbury.edu

6:00P - 9:00PM  
EXHIBITION OPENING + RECEPTION  
DRYLANDS DESIGN  
IN AN AGE OF CHANGE:  
VISIONARY PROPOSALS FOR A WATER-SCARCE FUTURE  
Exhibition located at  
A+D ARCHITECTURE + DESIGN MUSEUM  
4032 Wilshire Blvd  
Los Angeles CA 90036  
323.932 9393  
drylandsexhibition.com

FRIDAY 3/23

7:30A – 8:30A  
REGISTRATION + BREAKFAST  
WOODBURY UNIVERSITY  
TAMKIN BUSINESS PLAZA  
Woodbury University  
7500 North Glenoaks Blvd,  
Burbank, CA 91510  
818.767 0888  
drylandsconference.com  
aridlands.woodbury.edu

8:30A – 9:00A  
WELCOME + OPENING REMARKS  
Norman Millar AIA  
Dean, School of Architecture, Woodbury University  
CAF Regent  
Hadley + Peter Arnold  
Co-Directors, Arid Lands Institute  
Woodbury University  
WOODBURY UNIVERSITY  
FLETCHER JONES AUDITORIUM  

SCHEDULE OF EVENTS  
THURSDAY, MARCH 22, 2012  
FRIDAY, MARCH 23, 2012  
SATURDAY, MARCH 24, 2012
POWELL’S LEGACY
William deBuys PhD
Writer + Conservationist
Author, The Great Aridness

A reallocated hydrologic cycle suggests a reassertion of watersheds as a basic unit of planning and governance in the US West. What boundaries—disciplinary, jurisdictional, social, economic, topographic—might be redrawn for a resilient and equitable hydrologic future?

ALI RESEARCH GRANT AWARD WINNER
DRYLANDS DESIGN: A COMMONWEALTH APPROACH
Laurel McSherry FAAR ASLA
Associate Professor
Director, Graduate Landscape Architecture
Virginia Polytechnic Institute and State University

Rob Holmes ASLA
m.ammoth.us/blog/
Virginia Polytechnic Institute and State University

ALI RESEARCH GRANT AWARD WINNER
OFF THE RESERVATION: SEEDS OF CHANGE
Meghan Storm
Candidate, Master of Landscape Architecture
University of Pennsylvania
Advisor: Ellen Neises ASLA
Associate Partner, Field Operations, New York, NY

WATER, POWER, AND CULTURAL IDENTITY
When is water management not merely an issue of ‘improved hydrology’ or ‘reliable supply’ but an issue of cultural identity? social justice? economic power? What is hydrologic commonwealth, and what is the role of design in shaping it?

Moderator
Jamie Workman PhD
Author, Heart of Dryness
Co-founder, SmartMarkets LLC
Visiting Professor, Wesleyan University, College of the Environment

Participants
William deBuys PhD
Writer + Conservationist

Rob Holmes ASLA
Virginia Polytechnic Institute and State University

Miguel Luna
Executive Director: Urban Semillas

Laurel McSherry FAAR ASLA
Associate Professor
Director of the Graduate Landscape Architecture
Virginia Polytechnic Institute and State University

Michael Pinto AIA
Design Principal, Osborn Architects

Meghan Storm
University of Pennsylvania
### PROJECTED CLIMATE IMPACTS ON WESTERN WATER SUPPLY

**JT Reager**  
Senior Research Assistant  
UC Center for Hydrologic Modeling, UC Irvine

What do current climate models suggest for the future of Western water? An assessment from 30,000 feet of western surface and groundwater resources relative to population growth; agricultural production; power generation; ecosystems; and urban development.

### ALI RESEARCH GRANT AWARD WINNER

**RETROFITTING SILVERLAKE RESERVOIR**  

**Robert Lamb AIA AICP**

### DEINDUSTRIALIZING WESTERN WATER?

**Moderator**  
Stephanie Pincetl PhD  
Director, Center for Sustainable Urban Systems  
UCLA Institute of the Environment and Sustainability

**Participants**
- **Shivaji Deshmukh PE**  
  Assistant General Manager,  
  West Basin Water Control District
- **Terri Hogue PhD PE**  
  Director, NSF Science and Engineering of the Environment of LA  
  Department of Civil and Environmental Engineering  
  UCLA Institute of the Environment and Sustainability
- **Rob Lamb AIA AICP**
- **Mia Lehrer FASLA**  
  President, Mia Lehrer + Associates Landscape Architecture
- **Madelyn Glickfeld**  
  Assistant Director, Institute of the Environment and Sustainability, UCLA  
  Member, Los Angeles Regional Water Quality Control Board
- **Stuart Magruder AIA**  
  Principal, Studio Nova  
  President, AIA Los Angeles

To what extent can the capture of storm, grey, and wastewater offset dependence on diminished groundwater and snowmelt? Can small-scale systems meet large-scale demands? What with plausible results, quantitative and qualitative? And at what cost and timeframe?

Distributed power generation is enjoying a robust exploration at a variety of scales across the West, in urban and rural settings. What are the principles that can or cannot be applied to distributed water? What is the role of design in shaping a distributed water future?

### WATER UTILITIES

**Barry Taylor PhD**  
Fuller Theological Seminary  
Art Center College of Design

Water Utilities: sacred waters, mystic rivers and primordial seas—water as reflection of the human soul.
**SESSION 3**

**FLETCHER JONES AUDITORIUM**

**2:00P – 3:45P**

**INTEGRATED FRAMEWORKS FOR PLANNING + DESIGN**

**WATER, ENERGY, AND CLIMATE: PROSPECTS FOR INTEGRATING POLICY**

Paul Bunje PhD  
Executive Director,  
Center for Climate Change Solutions  
UCLA Institute of the Environment and Sustainability

Water, energy, and climate are deeply entwined but rarely integrated into the policies that govern design of the built environment. Where are the opportunities for integration? What are the legislative barriers and policy blockades?

**2:30P – 2:45P**

**DESIGN CASE STUDY**

**HYDROLOGIC URBANISM: A CASE STUDY**

Peter Arnold  
CoDirector, Arid Lands Institute  
Woodbury University

**2:45P – 3:45P**

**PANEL DISCUSSION**

**BEYOND LID: HYDROLOGIC URBANISM**

Using recent design research on a case study site—City of Burbank, CA—panelists will discuss competing methods for how cities might account for water, energy, and greenhouse gas inventories, paradigms of “compliance,” and opportunities that may shape the future of hydrologically-intelligent urban design for drylands.

How cities account for water, energy, and greenhouse gas inventories helps shape (or delay) water-smart urban design for drylands. Does recent design research in Burbank, CA offer a model for aligning economic development, climate mitigation, and water supply objectives? If so, how do you incentivize this approach? What are the costs? Risks? Potential benefits?

**Moderator**

Paul Bunje PhD  
Executive Director, Center for Climate Change Solutions  
UCLA Institute of the Environment and Sustainability

**Participants**

Peter Arnold  
CoDirector, Arid Lands Institute, Woodbury University

Mark Gangi AIA  
NCRAB  
Principal, Gangi Architects

Monica Gilchrist  
Interim California Director and Regional Officer  
International Council for Local Environment Initiatives (ICLEI)

Ken Lewis AIA  
President, AC Martin  
Chair, Sustainability Commission, City of Burbank

Emily Gabel Luddy FASLA  
Council Member, City of Burbank

Deborah Weintraub AIA  
Chief Deputy City Engineer, Bureau of Engineering  
Department of Public Works, City of Los Angeles

Walker Wells MRCP AICP  
Director, Green Urbanism  
Global Green USA
### SESSION 4
**FLETCHER JONES AUDITORIUM**

**3:45P – 5:30P**

**WATER SYSTEMS + PUBLIC ARCHITECTURES**

**GRAVITY FED CITY**

Katherine Rinne  
Architect + Historian  
California College of the Arts  

Water and its absence have driven the technologies and poetics of public architectures in drylands for thousands of years—except in our own era. How might the logics and poetics of water re-combine to shape not only the architectural object but public experience?

**4:25P - 4:45P**

**DESIGN CASE STUDIES**

**ALI RESEARCH GRANT AWARD WINNER:**

**A COLORFUL WALK: SALT POOL EXPLORATION**  
Ye Hua  
Janet Yang Kiyoi  
Jessica Kostosky  
Candidates, Master of Landscape Architecture  
USC Landscape Architecture  
Advisor: Alex Robinson  
Office of Outdoor Research

**ALI RESEARCH GRANT AWARD WINNER:**

**RE-INVESTING THE LINE: SMALL INFRASTRUCTURES, MICRO COMMUNITIES, AND COMMUNICATION ECOLOGIES FOR THE AMERICAN WEST**  
Gini Lee PhD  
Professor and Chair, Landscape Architecture  
University of Melbourne  
Adjunct Professor of Landscape Architecture  
School of Design Queensland University of Technology  

Brooke Madill  
Research Assistant + PhD Candidate  
University of Melbourne

**4:45P – 5:30P**

**PANEL DISCUSSION**

**RECOVERING A GRAMMAR OF DRYLANDS DESIGN**

In contemporary design, internal technologies (water-conserving fixtures and appliances) and external systems (policy and engineering) have caused the design of water systems to evaporate from the architectural lexicon. What are the architectural potentials of water systems as shapers of place? How are performative rooftapes, distributive wall packages, permeable foundation systems opportunities for rethinking architectural form in drylands?

**Moderator**  
Michael Lehrer FAIA  
Principal, Lehrer Architects

**Participants**  
Frank Escher AIA  
Escher GuneWardena Architecture  
Ye Hua, Janet Yang Kiyoi, and Jessica Kostosky  
USC Landscape Architecture  
Gini Lee PhD  
University of Melbourne  
Brooke Madill  
University of Melbourne  
Mary-Ann Ray  
Studio Works Architects  
Deborah Richmond AIA  
Touraine Richmond Architects  
Katherine Rinne  
California College of the Arts  
Alex Robinson  
Office of Outdoor Research
FRIDAY 3/23

5:30P
CONCLUDING
REMARKS

Ila Berman PhD
Director of Architecture
California College of the Arts
CAF Regent

6PM
RECEPCIÓN
SIN AGUA

AHMANSON MAIN SPACE
WOODBURY UNIVERSITY

SATURDAY 3/24

10:00A
BREAKFAST

EDUCATORS
DISCUSSIONS

WOODBURY UNIVERSITY
AHMANSON MAIN SPACE
Woodbury University
7500 North Glencoeaks Blvd
Burbank, CA 91510
818.767.0888

10:00A - 12:00P
EDUCATORS
DISCUSSION

HOW ARE DESIGN SCHOOLS RESPONDING TO THE
CHALLENGES OF WATER SCARCITY AND
CLIMATE CHANGE?

Educators are invited to gather informally for a breakfast roundtable. What’s working and what’s not in design studio? What is the role of technology? History and theory? Fieldwork? Regionalism? What are the obstacles to building literacy in drylands design? Where are the opportunities?
NORMAN MILLAR AIA  
Dean, School of Architecture, Woodbury University  
CAF Regent  

Norman Millar, AIA, established his Los Angeles-based practice Norman Millar Architects in 1985. His work has been widely published and awarded. He has led the growth in the architecture programs at Woodbury University since 1999, during which time enrollment has nearly tripled and several new graduate programs have been established. Prior to joining Woodbury, he taught at Southern California Institute of Architecture (SCI-Arc), USC, Pasadena’s Art Center, and UCLA. Millar holds a Master of Architecture, University of Pennsylvania School of Design and earned a certificate from the Ross Minority Program in Real Estate at the Lusk Center for Real Estate in the Marshall School of Business at the University of Southern California. He serves on the Hollywood Design Review Advisory Board, the advisory board for the Los Angeles Forum for Architecture and Urban Design, and the board of the Los Angeles Chapter of the AIA. A regent of the California Architectural Foundation, Norman was elected president of the Association of Collegiate Schools of Architecture (ACSA) in 2012.

HADLEY + PETER ARNOLD  
Co-Directors, Arid Lands Institute  
Woodbury University  

Peter + Hadley Arnold are the founding co-directors of the Arid Lands Institute (ALI), an education, outreach, and applied research center of Woodbury University in Burbank, California. Peter, a native Coloradan, studied environmental design and physics at CU Boulder and architecture at SCI-Arc. He has taught design and geospatial research studios at Woodbury and UCLA, and has photographed the infrastructural landscapes of the west extensively. Current work includes analytic modeling and visualization of ephemeral stream systems in arid rural environments, and the analysis of embedded energy within imported water supplies in the urbanized west. Hadley was trained in art history at Harvard, served as Associate Editor at the Getty Center for the History of Art and the Humanities, received her M.Arch. from SCI-Arc, and has taught urban history, theory, and design studios at SCI-Arc, UCLA, and Woodbury. With support from the Graham, LEF, Bogliasco, and Frankel Foundations, and a major grant from the US Department of Housing and Urban Development/Office of University Partnerships, the Arnolds have focussed their teaching, research, and practice on drylands design since 1998.

WILLIAM DEBUYS PHD  
Writer + Conservationist  
Author, *The Great Aridness*  

William deBuys’s seven books include *A Great Aridness: Climate Change and the Future of the American West* (2011), *The Walk* (2008), *Salt Dreams* (1999), and *River of Traps* (a 1991 Pulitzer finalist). He was a 2008-2009 Guggenheim Fellow. As a conservationist, he has helped protect more than 150,000 acres in New Mexico, Arizona, and North Carolina. From 2001 to 2005, he chaired the Valles Caldera Trust, which administers the 89,000-acre Valles Caldera National Preserve in New Mexico. Recent writing projects have taken him to Borneo and Lao PDR. He lives and writes on a small farm in northern New Mexico.

JAMIE WORKMAN PHD  
Author, *Heart of Dryness*  
Co-founder, SmartMarkets LLC  
Visiting Professor, Wesleyan University, College of the Environment  

Jamie Workman is co-founder of SmartMarkets, which partners with utilities to unlock the scarcity value of ‘priceless’ water by letting families and firms trade what they save. The venture grew out of his seven year study of durable coping mechanisms in Africa, the non-fiction narrative *Heart of Dryness: How the Last Bushmen Can Help Us Endure the Coming Age of Permanent Drought*, which won the SEJ’s Rachel Carson award for best book of the year. A prize-winning investigative journalist, he joined U.S. Interior Secretary Bruce Babbitt to help advance national forest, fishery, endangered species and river restoration policies, and is currently a visiting professor at Wesleyan University, teaching courses on “The Real Worth of Water.”
Laurel McSherry is Associate Professor and Director of the Graduate Landscape Architecture Program. She received her master of architecture and bachelor of fine art in historic preservation from the Savannah College of Art and Design in Savannah, GA where she worked as a preservation specialist at the Coastal Heritage Society. After graduating, she worked as an architectural designer at Levitt and Moss Architects in Santa Monica. Her interests lie in discovering the potential in how the three disciplines of landscape, architecture, and historic preservation intersect and can support one another. Even though her studies took her to the East and South, she has a passion for the West and hopes to return to work on important landscape and architecture issues in California after graduating from Penn this spring.
**SPEAKERS**

**SESSION 2**

**DESIGNING ADAPTATION**

---

**JT REAGER**  
Senior Research Assistant  
UC Center for Hydrologic Modeling  
UC Irvine  

JT Reager is a NASA Earth and Space Science Fellow at UC Irvine’s Earth System Science Department. He works with Professor Jay Famiglietti at the UC Center for Hydrologic Modeling, where current research focuses on using data from NASA’s groundbreaking GRACE Satellite Mission to understand natural and anthropogenic changes in Earth’s global water cycle through the remote sensing of gravity. JT has bachelor’s degrees in Aerospace Engineering and Ocean Engineering from Virginia Tech and a Masters degree in Physical Oceanography from the University of Delaware. His work is currently supported by grants from the ARCS Foundation and the Newkirk Center for Science and Society. He is committed to developing creative solutions to global problems, and to awakening public interest in science and the natural world.

---

**MADELYN GLICKFELD**  
Assistant Director, Institute of the Environment and Sustainability  
Member, Los Angeles Regional Water Quality Control Board  

Madelyn Glickfeld has worked at the UCLA Institute of the Environment and Sustainability (IoE) since 2004 and was named Assistant Director for Outreach and Strategic Initiatives in 2009. Ms. Glickfeld advises IoE faculty and researchers about framing multidisciplinary research projects to be useful to decisionmakers and in reporting the research needs of policymakers to the over 60 faculty and researchers associated with the IoE. She participates in research projects where her expertise is needed on watersheds, water quality and land use conservation projects and financing/implementation strategies. She is on the Faculty Advisory Committee for the UCLA La Kretz Center for California Conservation Science and helps to oversee the research, education programs and the partnership initiatives between the Center and park agencies in the Santa Monica Mountains National Recreation Area. Ms. Glickfeld served as Assistant Secretary of the California Resources Agency from 2001 – 2003 where she was charged with developing a conservation investment strategy for California. Other posts held previously held include: Policy Advisor to the Director of the California State Department of Parks and Recreation, and Executive Director, Streisand Center for Conservancy Studies.

---

**STEPHANIE PINCETL PHD**  
Director, Center for Sustainable Urban Systems  
UCLA Institute of the Environment and Sustainability  

Stephanie Pincetl is an adjunct professor and Director of the Center for Sustainable Urban Systems at the UCLA Institute of the Environment and Sustainability. Dr. Pincetl conducts research on environmental policies and governance and analyzes how institutional rules construct how natural resources are enrolled to support human activities. Dr. Pincetl has written extensively about land use in California, habitat conservation efforts and water policy. She has received funding to conduct collaborative research with biophysical scientists on urban ecology and water management in Los Angeles, as well as to develop a methodology to understand energy use in communities in California using urban metabolism methods. Dr. Pincetl has a PhD in Urban Planning and teaches at UCLA and in the International Masters of Public Affairs at the Institut de Sciences Politiques in Paris.

---

**SHIVAJI DESHMUKH PE**  
Assistant General Manager, West Basin Water Control District  

Shivaji Deshmukh is the Assistant General Manager for the West Basin Municipal Water District. He is responsible for Engineering, Operations, and the recycled water program. Shivaji has been in this position for almost 2 years. Prior to this, he served at the Orange County Water District for 11 years managing the implementation, design, and construction of the Groundwater Replenishment System, a 100 million gallon per day potable reuse project.

---

**TERRI S. HOEGE PHD PE**  
Director, NSF Science and Engineering of the Environment of LA  
Associate Professor Department of Civil and Environmental Engineering  
UCLA Institute of the Environment and Sustainability  

Terri Hogue received her B.S. from the University of Wisconsin-Eau Claire, and M.S. and Ph.D. from the Department of Hydrology and Water Resources at the University of Arizona. She joined UCLA in July of 2003 in the Department of Civil and Environmental Engineering. Professor Hogue’s research centers on understanding hydrologic and land surface processes, with much of her work focused in semi-arid regions. Projects include investigating catchment response to wildfire, as well as the impact of urbanization and climate variability on land-atmosphere interactions. Professor Hogue uses field and experimental methods, modeling and optimization techniques, as well as remote sensing data in her investigations. The overarching goal of her research program is to improve the prediction of hydrologic fluxes for better management of water resources, to assess human impacts on the environment, and to mitigate the effects of natural hazards. Professor Hogue teaches a range of graduate and undergraduate courses, from theoretical modeling to intensive field and laboratory-based curriculum. She has been awarded Professor of the Year by the UCLA American Society of Civil Engineers student chapter twice since her arrival at UCLA, was awarded the UCLA Northrup Grumman Excellence in Teaching award by the School of Engineering in 2008 and was awarded Professor of the Year by the HSSEAS Engineering Society in 2010. Professor Hogue also received the National Science Foundation Early Faculty CAREER award in 2009.
BARRY TAYLOR  PHD
Fuller Theological Seminary
Art Center College of Design
Barry Taylor is an Episcopal priest, a theology professor and an instructor at Art Center College of Design in the School of Advertising—he sometimes makes music for films, drinks a lot of English tea and spends a lot of time exploring the intersections of life and culture.

ROB LAMB  AIA AICP
Robert Lamb is a practicing architect and city planner living in Silver Lake. Place-making, urban design, and downtown redevelopment form the core of his professional work. Robert has played a leading role in complex, mixed-use projects in diverse cultural contexts, from Shanghai to Silicon Valley. His independent work tackles varied topics including lightweight structures, complex geometries and landscape urbanism. Robert’s passion for water issues extends beyond the studio setting. Hiking upon the vanishing glaciers of the Sierra Nevada and deep into the San Gabriel Mountains has shaped his attitude toward hydrology in the American West. Prior to his arrival in Los Angeles, Robert practiced planning and architecture in Beijing, China. He holds joint Master’s Degrees in Architecture and City Planning from the University of Pennsylvania and a Bachelor’s Degree in Art History from Oberlin College. Robert works at Cunningham Group in Los Angeles. www.lambstyle.com

MIA LEHRER  FASLA
President, Mia Lehrer + Associates Landscape Architecture
Mia Lehrer is the founder of Mia Lehrer + Associates, a landscape architecture practice known for ambitious public and private commissions, urban revitalization developments, large urban parks, and complex commercial projects. Born in San Salvador, El Salvador, Ms. Lehrer earned her Masters of Landscape Architecture from Harvard’s Graduate School of Design. In 2007, she was inducted as a Fellow of the American Society of Landscape Architects. Ms. Lehrer serves on the City of Los Angeles’ Mayor’s Design Advisory Panel, as well as the Board of Directors at the Landscape Architecture Foundation, the Latino Urban Forum, the National Gardening Association, the Hollywood Design Review Committee and the Harvard Magazine Design Review Board. Additionally, she has served on the City of Los Angeles’ Cultural Heritage Commission, the Harvard Graduate School of Design Alumni Council, board of directors of TreePeople and Collage Dance Theater.

STUART MAGRUDER  AIA
Principal, Studio Nova
President, AIA Los Angeles
Stuart Magruder, AIA, LEED, runs Studio Nova Architects, Inc. The firm is focused on integrating sustainability with design to create works of lasting beauty and durability. Prior to starting the Studio, Stuart worked for Richard Meier & Partners and Eric Owen Moss Architects. He received his masters degree from SCI-Arc, with a thesis on the nature of Los Angeles. Undergraduate work was completed with honors at Princeton University. Stuart is a licensed architect in California and New York and currently serves as president of the AIA/Los Angeles.

LUNCH SESSION
WATER UTILITIES

BARRY TAYLOR  PHD
Fuller Theological Seminary
Art Center College of Design
Barry Taylor is an Episcopal priest, a theology professor and an instructor at Art Center College of Design in the School of Advertising—he sometimes makes music for films, drinks a lot of English tea and spends a lot of time exploring the intersections of life and culture.
PAUL BUNJE  PHD
Executive Director, Center for Climate Change Solutions
UCLA Institute of the Environment and Sustainability

Paul Bunje, Ph.D., works to bridge the gap between scientists and decision makers to help society respond and adapt to the challenges of climate change. He is the Executive Director of the UCLA Center for Climate Change Solutions, where he facilitates innovative research and communicates between scientists, decision makers, educators, and the public. Dr. Bunje is also the Managing Director of the Los Angeles Regional Collaborative for Climate Action and Sustainability, whose mission is to encourage greater coordination and cooperation at the local and regional levels by bringing together leadership from government, business, universities, and non-profits.

MARK GANGI  AIA  NCRAB
Principal, Gangi Architects

Mark Gangi AIA LEED AP heads Gangi Architects, the design division of Gangi Development, a design + build + develop 3 generation family run corporation. Mark Designs and constructs buildings for the late 21st century from net zero houses to LEED Platinum museums. The Studio operates as an open network celebrating collaborations in all areas of the design, construction, and the development industry. Mark designed the LEED Platinum Museums of Water and Life in collaboration with Michael Lehrer FAIA. Mark was the 2009 President of the AIA Pasadena & Foothill Chapter, and Found and Chairs the Citizen Architect Committee. He serves as a board member of the Architectural Evaluation Board of LA County, and is the AIACC liaison to the California Department of Water Resources. Mark teaches part time at the USC School of Architecture as a studio instructor and also teaches a graduate course on sustainable architecture and Infrastructure.

MONICA GILCHRIST
Interim California Director and Regional Officer
International Council for Local Environment Initiatives (ICLEI)

Monica Gilchrist’s work as interim California Director of ICLEI focuses on tracking policy, funding and sustainability initiatives, with a focus on climate mitigation and adaptation. Prior to joining ICLEI, Monica was Executive Director at the Green Hive Foundation, a non-profit dedicated to the advancement of education, programs and services related to clean technologies, climate change, green job development and sustainable economic development. She also was co-founder and co-owner of green building consulting firm Eco Creative Solutions, and was the National Resource Center Coordinator for environmental non-profit Global Green USA, where she assisted in the creation and opening of Global Green’s second resource center in New Orleans, as part of Global Green’s response to hurricane Katrina.

KEN LEWIS  AIA
President, AC Martin
Chair, Sustainability Commission, City of Burbank

Ken Lewis joined AC Martin Partners in 1981, bringing a distinctively hands-on approach to design. Promoted to president in 2000, he now focuses exclusively on facility programming, major projects and sustainable design leadership. A longtime advocate of sustainable design principles, Ken is recognized in Southern California as an expert in Green Building Design, participating in the 2008 effort for the City of Los Angeles’ first green building legislation for the private sector/new construction. He was recently appointed chair of the Sustainable Burbank Commission.

EMILY GABEL-LUDDY  FASLA
Council Member, City of Burbank

Emily Gabel-Luddy, FASLA, received her BA from Occidental College and a Masters of Landscape Architecture from the University of Massachusetts, Amherst. She is a 1990-91 Loeb Fellow at the Harvard Graduate School of Design. She is a 1995 Fellow of the American Society of Landscape Architects. In December 2006, she established the Urban Design Studio -- for the Los Angeles City Planning Department -- which engaged in a range of urban design initiatives, focus on streets, walkability, land use-transit link, and city form. Among many other projects, the Studio was an active participant on the GreenStreets Committee – an interdepartmental collaboration among several City departments including Public Works, Community Redevelopment Agency, Transportation, Water & Power and Environmental Affairs to develop new guidelines and standards for green street infrastructure in the City of Los Angeles. In 2010, she left the City of Los Angeles and began lecturing at the School of Architecture, USC to bring visionary as well as practical perspectives to the Landscape Architecture Program. Committed to public service, in 2011, Emily was elected to a four year term to the Burbank City Council where she is currently one of the liaisons to the Burbank Sustainable Commission.

SESSION 3
INTEGRATED FRAMEWORKS FOR PLANNING + DESIGN

SPEAKERS
DEBORAH WEINTRAUB AIA
Chief Deputy City Engineer, Bureau of Engineering
Department of Public Works, City of Los Angeles

Deborah Weintraub is Chief Deputy City Engineer of Los Angeles in the Bureau of Engineering. She oversees multi-million dollar design and construction programs for facilities for client departments such as Animal Services, Fire, Library, Police, Recreation and Parks, the Zoo, and Sanitation, and for City bridges and the Los Angeles River. Previously Deborah worked for Edison providing sustainability consulting, and for the Los Angeles Canadian Consulate General, promoting Canadian expertise in sustainable design. Prior, she ran her own firm in New York. Deborah has a Masters of Architecture from Berkeley, and a Bachelors from Princeton. Married with two children, she is a long time member of the AIA and the US Green Building Council.

WALKER WELLS MRCP AICP
Director, Green Urbanism
Global Green USA

Walker Wells, AICP LEED AP, is Director of the Green Urbanism Program for Global Green USA, a national non-profit organization headquartered in Santa Monica. He works with affordable housing developers, municipalities, and school districts across the country to further green building and sustainable development practices by conducting charrettes, providing technical guidance, and developing programs and public policy. Mr. Wells is editor and a co-author of the 2007 book Blueprint for Greening Affordable Housing and the 2006 publication Creating Successful Green Building Programs. Mr. Wells holds Bachelor’s degrees in Sociology and Environmental Studies from the University of California Santa Barbara and a Master’s of City and Regional from the California Polytechnic University San Luis Obispo. Mr. Wells is a a member of the State of California Green Building Code Advisory Committee, an advisor to the AIA National Housing Committee, an invited contributor to the Planetizen web site, and a lecturer on Green Urbanism at the Claremont Colleges, UCLA, and Antioch University Los Angeles.
SPEAKERS
SESSION 4
WATER SYSTEMS + PUBLIC ARCHITECTURES

KATHERINE RINNE
Architect + Historian
California College of the Arts

Katherine Rinne, trained at UC Berkeley, teaches upper-level architecture and urban design studios and seminars at California College of the Arts. Working as an urban designer and as Director of Research at Johnson Fain Partners, Los Angeles from 1985-1990, her professional work focused on large-scale urban projects including the Master Plan for Kapolei, Hawaii; the Los Angeles Greenways Plan; Highway 111 Urban Design Plan for Indian Wells, CA; and the Paramount Studios Master Plan. She has received many research fellowships including a Guggenheim, a Fulbright to Italy, and funding from the NEH and the NSF. A specialist in urban water history, her book The Waters of Rome: Aqueducts, Fountains and the Birth of the Baroque City (Yale: 2011) won the 2011 J. B. Jackson Award for Landscape History. Currently she is writing a history of the urban development of Rome and this summer she will be a Landscape Studies Fellow at Dumbarton Oaks.

MICHAEL LEHRER FAIA
Principal, Lehrer Architects

Michael B. Lehrer, FAIA founded his practice, Lehrer Architects LA, in his native Silverlake District of Los Angeles. His work, from the intimate to the monumental, is grounded in the idea that beauty is a rudiment of human dignity. He designs for community with a reverence for light and space as the spiritual essence of architecture. Delight is a matter of extreme gravitas in the work. Regarding sustainability, the work aspires to embody the beauty of performance and the performance of beauty. Lehrer Architects LA is steeped in the nurturing of creativity culture in its own work—both process and product—and in finding that spark in all of its clients’ endeavors. Lehrer Architects LA has won over 70 (30 AIA) major national, state, and local design awards. Educated at Berkeley and Harvard, Michael has been on the adjunct faculty at the University of Southern California since 1986. Michael is President of Homeless Health Care of Los Angeles. He sits on the Harvard Design Magazine Professional Advisory Board and represents the Graduate School of Design on the Harvard Alumni Association Board and on the Harvard Alumni Association Board of Directors. He was President of the American Institute of Architects, Los Angeles in 1999 and founded their annual, ongoing Legislative Day that year which has changed the nature of the profession in LA.

FRANK ESCHER AIA
Escher GuneWardena Architecture

Frank Escher has been in partnership with Ravi GuneWardena since 1995. Their work, which has been published and exhibited internationally, ranges from residential to commercial and institutional projects, and from collaborations with contemporary artists to work on historic structures. Among other projects, Escher GuneWardena is currently restoring the Charles and Ray Eames House. Trained as an architect at the ETH Zürich, Switzerland, Escher is the editor of the monograph “John Lautner, Architect,” served from 1995 to 2007 as the Administrator for the Lautner Archive (now at the Getty), and curated, together with Nicholas Olsberg, the exhibition Between Earth and Heaven: the Architecture of John Lautner (The Hammer Museum, Los Angeles). Mr. Escher currently teaches at the USC School of Architecture and has served as president of the Los Angeles Forum for Architecture and Urban Design. In the summer of 2009 Frank Escher and Ravi GuneWardena were invited by Los Angeles Mayor Antonio R. Villaraigosa to serve on the Mayor’s Design Advisory Panel to the Los Angeles Cultural Affairs Commission.

YE HUA
Candidate, Master of Landscape Architecture
USC Landscape Architecture

Ye Hua is a second-year master’s student in Landscape Architecture at the University of Southern California. Ye Hua majored in landscape gardening at Zhejiang University in China and worked for three years in real estate development, specifically in design management. She is interested in landscape sustainability and designing artistic spaces.

JANET YANG KIYOI
Candidate, Master of Landscape Architecture
USC Landscape Architecture

Janet Yang Kiyoi is a graduate student studying Landscape Architecture at the University of Southern California. She is from Bloomfield Hills, Michigan and studied as an undergraduate at the University of Michigan. She has a background in communications and marketing and lived in New York City prior to moving to Los Angeles in 2008. Her research interests include sustainable urban design and the aesthetics of landscape.

JESSICA KOSTOSKY
Candidate, Master of Landscape Architecture
USC Landscape Architecture

Jessica Kostosky is a landscape architecture graduate student at the University of Southern California. She holds a Master of Philosophy and Religion degree from the California Institute of Integral Studies (2007) and a Bachelor’s in Anthropology from the University of Michigan (2004). Her current research and design interests explore strategies that integrate ecology and built infrastructure to create sustainable and livable spaces in the urban realm. Certified in Urban Permaculture, she has also worked with communities and at the residential scale within the San Francisco Bay Area to create edible and regenerative landscapes.

GINI LEE PHD
Professor and Elisabeth Murdoch Chair of Landscape Architecture
Faculty of Architecture, Building and Planning
University of Melbourne
Adjunct Professor of Landscape Architecture
School of Design Queensland University of Technology

Gini Lee, PhD., is a landscape architect, interior designer, and Elisabeth Murdoch Chair of Landscape Architecture at the University of Melbourne where her work engages the curation and postproduction of complex landscapes. She served formerly as Professor of Landscape Architecture at Queensland University of Technology (2008-2011) and Head of School at the University of South Australia (1999-2004). Focusing on the arid environments of Australia, her multidisciplinary research into the water landscapes of remote territories integrates scientific and cultural understanding of management strategies for fragile, including indigenous, landscapes. Her recent curatorial practice experiments with Deep Mapping as a method for investigating the landscapes of remote and rural Australia. Gini’s work derives from aspects of country encountered while traveling over the stony ground of dissimilar landscapes. She is a registered landscape architect and Chair of art + place for Arts Queensland.
BROOKE MADILL
Research Assistant + PhD Candidate
Faculty of Architecture, Building and Planning
University of Melbourne

Brooke Madill is a landscape architect, artist and architect who is presently undertaking a PhD in Landscape Architecture at the University of Melbourne (2012 – 2014); a researcher in cultural landscapes of the Central Australian desert country (2011 – 2013); and design collaborator with Dr. Gini Lee, Elisabeth Murdoch Chair of Landscape Architecture at the University of Melbourne. Prior to commencing her PhD Brooke was General Manager of a Global Events and Exhibition Company (2000 – 2009) a self-employed architectural designer and architectural assistant in a variety of practices (1988 – 2000). Her doctoral research investigates the links between tourism infrastructure, critical landscape design practice, and arid landscapes with the aim of generating strategic plans for tourism management on remote trails and tracks in the Australian interior. Brooke is a graduate member of the Australian Institute of Landscape Architects and recipient of the Karl Langer Award for Landscape Architecture 2010.

MARY-ANN RAY
Principal, Studio Works Architects
Co-Founder and Director, BASE Beijing

Mary-Ann Ray is a Principal of Studio Works Architects in Los Angeles and a Co-Founder and Director of BASE Beijing. Mary-Ann Ray and her partner Robert Mangurian are architects, authors, and designers who were awarded the prestigious Chrysler Design Award for Excellence and Innovation in an ongoing body of work in a design field and the Stirling Prize for the Memorial Lecture on the City by the Canadian Centre for Architecture and the London School of Economics. Among her published books are Pamphlet Architecture No. 20 Partly Underground Rooms and Buildings for Water, Ice and Midgets, Wrapper, and the recent Caochangdi: Beijing Inside Out. Both Mangurian and Ray are Rome Prize recipients and Fellows of the American Academy in Rome.

DEBORAH RICHMOND AIA
Touraine Richmond Architects

Deborah Richmond, AIA (M.Arch, University of Minnesota, 1994; B.A. in art theory and practice, Northwestern University) is a practicing architect, installation artist, writer and researcher in the areas of natural and cultural infrastructures. This broad field of interest has resulted in the production of buildings, installations, essays, photography and education responding to the cultural and urban systems of Los Angeles. As a founding partner of Touraine Richmond Architects, Deborah worked to refine a vision of collaborative endeavors with partners, consultants and clients. Previous experience includes work for OMA/Rem Koolhaas for the Los Angeles County Museum of Art. She has taught critical theory at the Art Center College of Design in Pasadena, CA and design studio at the University of Southern California, SCI-Arc, UCLA and currently at Woodbury University.

CONCLUDING REMARKS

ILA BERMAN PHD
Director of Architecture
California College of the Arts
CAF Regent

Ila Berman, Professor and Director of the School of Architecture at the California College of the Arts (CCA) is an architect and theorist with a doctorate from Harvard University’s Graduate School of Design. Berman’s recent work and publications on fluid architectural and urban environments include the book URBANbuild local global (co-authored with Mona El Khafif) winner of an AIGA Award for the top 50 books of 2009, “Amphibious Territories” in the AD Territory: Architecture Beyond Environment, “Regenerative Returns” in the Cornell Journal of Architecture, “Fluid Machines” in GAM.07 Zero Landscape, Sustainable Skyscrapers: Vertical Ecologies and Urban Ecosystems and the book New Orleans: Strategies for a City in Soft Land by Harvard University (with Joan Busquets and Felipe Correa). In addition to her exhibitions at the Contemporary Art Center, Ogden Museum, Wattis Institute for Contemporary Art and many other public and private institutions, she also designed the Urban Operations for a Future City exhibition in After the Flood at the U.S. Pavilion in the 2006 International Architectural Biennale in Venice, Italy.
MARCH 22-24
2012
BURBANK, CA

@ Woodbury University
DESIGN INNOVATION AT THE NEXUS OF WATER,
ENERGY, AND CLIMATE CHANGE
THE 2011-2012 WILLIAM TURNBULL DRYLANDS DESIGN COMPETITION WAS HOSTED BY THE CALIFORNIA ARCHITECTURAL FOUNDATION IN PARTNERSHIP WITH ALI. WE ARE GRATEFUL TO CAF FOR ITS COMMITMENT TO EDUCATING DESIGN PROFESSIONALS ABOUT WATER SCARCITY AND DESIGN OF THE BUILT ENVIRONMENT.


THE ARID LANDS INSTITUTE WISHES TO THANK THE FOLLOWING ORGANIZATIONS AND INDIVIDUALS FOR THEIR SUPPORT:

**SPONSORS**
- AC MARTIN PARTNERS
- BURBANK WATER + POWER
- CONCRETE MASONRY ASSOCIATION OF CA AND NV
- BERNARD FRIEDMAN
- WOODBURY UNIVERSITY
- WOODBURY UNIVERSITY, SCHOOL OF ARCHITECTURE

**SUPPORTERS**
- A+D ARCHITECTURE AND DESIGN MUSEUM LOS ANGELES
- AIA/CALIFORNIA COUNCIL
- AIA/LOS ANGELES
- ARC RIOT CREATIVE IMAGING
- BURBANK GREEN ALLIANCE
- CALIFORNIA ARCHITECTURAL FOUNDATION
- CITY OF BURBANK, CA
- INSTITUTE OF TRANSDISCIPLINARY STUDIES, WOODBURY UNIVERSITY
- MAK CENTER FOR ART + ARCHITECTURE LOS ANGELES
- UCLA INSTITUTE OF THE ENVIRONMENT AND SUSTAINABILITY

**MEDIA/COMMUNICATIONS:**
- DESIGN AGENCY, CO.
- LAND8
- THE FRIENDLY OFFICE OF...
- PARTICIPANT MEDIA
- TAKEPART.COM
ACKNOWLEDGEMENTS

CALIFORNIA ARCHITECTURAL FOUNDATION
TOM ANGLEWICZ FAIA PRESIDENT CAF
ANNE LAIRD-BLANTON AIA, DIRECTOR

CAF WILLIAM TURNBULL DRYLANDS DESIGN
COMPETITION JURY
TOM ANGLEWICZ FAIA, PRESIDENT CAF
TEDDY CRUZ AIA
MARY GRIFFIN AIA
WILLIAM LISKAMM FAIA, COMPETITION ADVISOR
KEITH MCPETERS ASLA
ENRIQUE NORTEN FAIA
GREG OTTO PE
MICHAEL ROTONDI FAIA

CONFERENCE VOLUNTEER ADVISORS
BOB BERKOWITZ
ANN LAIRD BLANTON AIA
DAVID BRONTMAN, FAIA
MARK GANGI AIA
DEBRA GEROD AIA
MICHAEL LEHRER FAIA
MIA LEHRER FASLA
MIKE PRATT AIA
LINDA SOBUTA FAIA
HENRY SIEGEL FAIA
DEBORAH WEINTRAUB AIA
WILL WRIGHT HON. AIA

CONFERENCE PRODUCTION
JA&A DIGITAL MEDIA

PETER SCHLAMP
WEB DEVELOPMENT + PROGRAMMING
ANNE SWETT
SWETTSHOP
GRAPHIC DESIGN

YOUR GREAT EVENT, INC.

RESEARCH SUPPORT LEADING TO THE
DRYLANDS DESIGN INITIATIVE:
GRAHAM FOUNDATION
LEF FOUNDATION
BOGLIASCO FOUNDATION
ALI STUDENTS, PAST AND PRESENT, TEACHERS ALL.

WOODBURY LEADERSHIP
PRESIDENT KENNETH NIELSEN EdD
PHILLIS CREMER EdD
STEVE DYER
KEN JONES
RICHARD NORDIN
DAVID ROSEN PHD
DON ST.CLAIR EdD
DOUG CREMER PHD
NORMAN MILLAR AIA

SPONSORED BY THE
US DEPARTMENT OF HOUSING AND URBAN
DEVELOPMENT

The Arid Lands Institute @ Woodbury University is
supported by funding under Grant Number HSIAC-
09-CA-39 with the U.S. Department of Housing and
Urban Development, Office of University Partnerships.
The author and publisher are solely responsible for the
accuracy of the statements and interpretations con-
tained in this publication. Such interpretations do not
necessarily reflect the views of the Government.

Renewable resources were used to produce this
program. A donation will be made on behalf of the
Aridlands Institute for the planting of trees.