Resilient Design
State of the Art and Emerging Issues for the Built Environment

Symposium
Feb. 22 and 23, 2018
Berg Gallery, 05-105

Program 8
Speakers 10
Moderators 34
California Polytechnic State University - Cal Poly
College of Architecture and Environmental Design - CAED

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Christine Thedoropoulos, PhD

Architectural Engineering Department
Allen Estes, PhD, PE; professor and head

Architecture Department
Margot McDonald, AIA, NCARB; professor and head

City and Regional Planning Department
Michael Boswell, PhD, AICP; professor and head

Construction Management Department
Al Hauck, PhD, PE; professor and head

Landscape Architecture Department
Omar Faruque, ASLA; professor and chair

Symposium Coordinators
Margot McDonald, AIA, NCARB (Architecture)
William Siembieda, PhD, AICP (City and Regional Planning)

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Student Assistant
Natalia M. Robles (Biomedical Engineering)
Resilient Design:
State of the Art and Emerging Issues for the Built Environment

We welcome you to this symposium, which is focused on learning about resiliency practice. Through this event, we are trying to understand the ways in which resiliency operates in the built environment, and how it serves the professions, and more importantly: society. This year, the large storms in the U.S. Southeast, and the fires and mudslides in California are a microcosm of the urgency for further understanding about designing for safety and for respect of the environment.

Resilient design and resiliency-directed design are becoming part of local, regional and global professional practice. Only by seeing the work being done can we establish what is the state of the art. With this work in front of us, we will be able to use systems thinking as a way of seeing patterns amid the realities of practice and establish the pathways needed to guide future work over the next 20 years.

Resiliency has its roots in a branch of ecology that emphasizes non-linear dynamics, thresholds, uncertainty and surprise. In this view, the focus is on managing change, not simply reacting to it. While definitions are still emerging, a working statement by the Resilient Design Institute provides a starting point by stating that “it is the intentional design of buildings, landscapes, communities, and regions in order to respond to natural and manmade disasters and disturbances — as well as long-term changes resulting from climate change…” Using the work presented in this symposium we intend to challenge, reform and update this statement. We ask, are there principles of resilient cities that we can identify and use in the design process?

New terms such as “thresholds” or the point at which the system component changes form and function will come up, and we will be challenged on how to integrate these terms into the design process. The term “adaptation” plays an important role in challenging control approaches that are narrow versus broad based. We are now, more than ever before, interested in how to design “capacity” into our system to absorb disturbances of all types.

Both days, morning and afternoons start with a work examples session. Invited presenters from professional firms who are engaged in resiliency design and
practice will discuss their work and how resiliency is shaping their practice by sharing some of their latest projects. After Q&A and a coffee break, the same presenters discuss what they understand are the issues, challenges and opportunities for resilient design, resiliency thinking and implementation over the next 20 years. The panel themes by session are Day One: New Ways to Think About Resilient Design, and Emerging Ways to Use Resilience; and Day Two: New Thinking for Big Projects, and Building Regional Resiliency.

At the end of the second day, the moderators will present a synthesis of the most important issues discussed in all of the sessions, and the symposium coordinators will close the event trying to answer two questions: Does resilience practice differ from design practice? What knowledge base does a resilience professional need?

A proceedings volume will be compiled to share the presentations and the debate. It will serve as a point of reference of the state of the art and the needs for the future, and as an important learning tool for faculty and students. The proceedings will be widely shared in written and digital forms, thus contributing to the advancement of the profession and resilient design education as it pertains to the built environment.

We wish you a productive symposium.

William Siembieda, PhD, AICP
Professor, City and Regional Planning; Symposium Coordinator.

Margot McDonald, AIA, NCARB
Professor and Department Head, Architecture; Symposium Coordinator.
1. CAED / Architecture / Berg Gallery (Symposium)
2. Landscape Architecture
3. City and Regional Planning
4. Architectural Engineering
5. Construction Management
6. KTGY Gallery (Symposium)
7. Kennedy Library (Julian’s Cafe; 2nd floor)
8. Campus Market (salads, sandwiches)
9. UU Plaza (food court, several options)
| Session 1.1 | Morning | 9 to 10:30 | Work examples | David Waggonner (Waggonner & Ball)  
Conserv & Preserve, Adapt & Create  
Doug Pierce (Perkins + Will)  
Socially Responsible Design: The need for a greater purpose in resilience  
Gerdo Aquino (The SWA Group)  
Infrastructural Futures |
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<td>8:45 to 9</td>
<td>The Challenge Ahead: How Best to Use Resiliency</td>
<td>William Siembieda &amp; Margot McDonald (Symposium Coordinators)</td>
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| Session 1.2 | Morning | 10:45 to 12:15 | The Future Ahead | Issues, challenges and opportunities | David Waggonner (Waggonner & Ball)  
Doug Pierce (Perkins + Will)  
Gerdo Aquino (The SWA Group) |
|             |         |            |                | Debates 10 to 10:30 - Moderator: Stacy White (Cal Poly) |
|             |         |            |                | Coffee break - 10:30 to 10:45 |
|             |         |            |                | Session 1.3 | Afternoon | 1:30 to 3 | Work examples | Josh Sawislak (AECOM)  
Resilience is the New Black: But that doesn’t mean it’s not important or enduring  
Gunnar Hand (SOM)  
Regenerative Cities: Moving beyond sustainability  
Yana Waldman (ARUP)  
A Business Case for Resilience: The hidden cost of not properly estimating total risk |
|             |         |            |                | Debates 11:30 to 12:15 - Moderator: Stacy White (Cal Poly) |
|             |         |            |                | Lunch Break – 12:15 to 1:30 |
|             |         |            |                | Session 1.4 | Afternoon | 3:15 to 4:45 | The Future Ahead | Issues, challenges and opportunities | Josh Sawislak (AECOM)  
Gunnar Hand (SOM)  
Yana Waldman (ARUP) |
<p>|             |         |            |                | Debates 2:30 to 3 - Moderator: Bryan Seamer (LPA) |
|             |         |            |                | Coffee break – 3 to 3:15 |
|             |         |            |                | Summary of the Day: Moderators – 4:45 to 5:30 |
|             |         |            |                | Dinner (on your own; suggestion: SLO’s Farmer’s Market) |</p>
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<th>Time</th>
<th>Session 2.1 Morning 9 to 10:30</th>
<th>Work examples</th>
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<td>Planning a Resilient Future at San Francisco International Airport</td>
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<td>Using Resilient Design Performance Standard to Accelerate Recovery Based</td>
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<td>5:15 to 5:30 - Conclusions and Next Steps</td>
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Thursday, Feb. 22 - Morning

Session 1.1
9 to 10:45

Session 1.2
11 to 12:15

Speaker:

David Waggonner III
FAIA; Founding Principal, Waggonner & Ball.

Conserve and Preserve, Adapt and Create

David Waggonner is the founding principal of Waggonner & Ball. He is a graduate of Yale School of Architecture, a Fellow in the American Institute of Architects, and a recipient of the AIA Louisiana Medal of Honor.

In the aftermath of Hurricane Katrina, Waggonner saw an opportunity for New Orleans to reinvent itself as a sustainable city that embraces its lifeblood: water. He championed a process that examines history, soils, biodiversity, infrastructure networks, urban space and habitation, along with the forces of water. This combination serves as a holistic foundation for design, initiated during the Dutch Dialogues, developed through the Greater New Orleans Urban Water Plan, and now being implemented in multiple projects including the city’s winning National Disaster Resilience Competition (NDRC) entry. Related processes and efforts have produced Rebuild by Design and other NDRC awards for Bridgeport and the states of Louisiana, Connecticut and Virginia.
Waggonner & Ball Architects is a broad-based architectural and planning firm with over 30 years of experience on a wide range of architectural and planning projects. Located in the historic Garden District of New Orleans, the firm has created award-winning educational, retail, office, religious, government and residential architecture, as well as planning and urban design projects.

The company team provides complete architectural services including facility assessment, programming, site planning, schematic design, design development, construction documents, bidding and contract negotiation, construction administration, and post-occupancy evaluation. The firm also provides services for planning and urban design, as well as interior design, and collaborates with an established professional team of consultants in civil, structural, mechanical and electrical engineering disciplines, along with cost estimators and landscape architects, and other technical specialists.
Doug Pierce is a pioneering architect, speaker, and writer with a passion for integrating art and science through poetic innovation. He has over 30 years of experience in sustainable design beginning with the 1,700-acre Meadow Creek Project in 1984 and including Minnesota’s first LEED Platinum Certified project, Great River Energy Headquarters, an AIA National COTE Top 10 Green Project.

Working closely with an original founder of the U.S. Green Building Council and LEED, Pierce is now defining a new integrative framework for sustainable design through the development of the RELi Resiliency Action List and National Consensus Standard. RELi was launched in 2015 with support by the Minnesota Pollution Control Agency, Minnesota Green Step Cities, AREA Research, AIA Minnesota, USGBC Minnesota, the Capital Markets Partnership and MTS. It is available online at C3LivingDesign.org.
Perkins+Will is an interdisciplinary, research-based architecture and design firm established in 1935. Founded on the belief that design has the power to transform lives and enhance communities, it collaborates with clients all over the world to create healthy, sustainable places in which to live, learn, work, play and heal.

More than 2,000 professionals across over 20 Perkins+Will offices include some of the brightest minds in architecture, interior design, branded environments, urban design and landscape architecture. Clients consistently turn to this company for its leadership and expertise in areas like sustainability, resilience, health and wellness, and mobility. Additionally, the company’s Research Labs catalyze innovative design technologies and solutions that result in better, smarter, more competitive built environments. The recipient of hundreds of design awards each year, and a progressive leader in corporate social responsibility, Perkins+Will is consistently ranked among the world’s top design firms.

www.perkinswill.com
Thursday, Feb. 22 - Morning

Session 1.1
9 to 10:45

Session 1.2
11 to 12:15

Speaker:

Gerdo Aquino
RLA, FASLA, Associate AIA; CEO, SWA.

Infrastructural Futures

Gerdo Aquino is CEO of the SWA Group, a design firm recognized for its creative ideas in landscape architecture, urban design and planning. SWA has worked in over 60 countries nurturing a critical dialogue of urbanism that integrates principles of design, ecology and technology into a robust public infrastructure for people. Based in Los Angeles, Aquino is an accomplished professional whose focus on the public realm heightens his position on the importance of collaborative decision-making between communities, city agencies, and consultants. He is an adjunct associate professor at the University of Southern California and co-author of “Landscape Infrastructure: Case Studies by SWA.”
SWA Group is a landscape architecture, urban design and planning firm, with seven studios worldwide. Its main purpose is to partner with clients in order to create vibrant places that are ecologically resilient, aesthetically compelling and socially beneficial. The design the company works reflects a sensibility both pragmatic and imaginative, uniting beauty with a purpose in the natural and built environments.

SWA Group services include the integration of high-level landscape architecture into planning work, and design at a variety of scales — from large, multifunctional sites to small, intimate spaces. The company was started by its parent firm Sasaki, Walker, and Associates, established in 1957 in Watertown, Massachusetts, by Hideo Sasaki and Peter Walker. In 1959, Walker opened a regional office in San Francisco. In 1973 SWA became SWA Group. It expanded to a fully national and international firm by the 1980s and 1990s, with offices located across the United States. With over 800 awards received from projects, in 2005, SWA received the Landscape Architecture Firm Award, as designed by the American Society of Landscape Architects.

www.swagroup.com
Thursday, Feb. 22 - Afternoon

Session 1.3
1 to 3

Session 1.4
3 to 4:15

Speaker:

Josh Sawislak
AICP; global director of resilience, AECOM.

Resilience is the New Black:
But that doesn’t mean it’s not important or enduring

Josh Sawislak is the global director of resilience for the infrastructure services firm AECOM. In this role, he works across the entire enterprise of AECOM’s offerings in planning, design, construction, finance, operations and development to help develop and leverage resilient strategies projects and clients to address issues such as sustainability, climate change, disaster preparedness and enterprise risk management. He provides thought leadership and strategic advice to corporations, national governments, municipalities, NGOs and international organizations across the globe on issues related to the UN’s Sustainable Development Goals (SDGs), Sendai Framework on Disaster Risk Reduction, and the implementation of the UNFCCC Paris Agreement.

Prior to rejoining AECOM, he served in the Obama Administration, most recently as associate director for Climate Preparedness at the White House Council on Environmental Quality, where he developed U.S. federal policy on climate adaptation and resilience and worked with foreign governments and international organization on multilateral and bilateral efforts. He also served as a senior advisor to the Secretary of Housing and Urban Development (HUD) focused on infrastructure and resilience at HUD and across government.
AECOM became an independent company formed by the merger of five Ashland entities on April 6, 1990. More than 50 companies have been joined AECOM and, in 2007, it became a publicly traded company on the New York Stock Exchange. In 2014, it received recognition as the world's No. 1-ranked engineering design firm by revenue, according to Engineering News-Record magazine, thanks to its merger with URS Corporation that contributed to double its revenue and workforce.

The company is a premier, fully integrated professional and technical services firm positioned to design, build, finance and operate infrastructure assets around the world for public and private sector clients. AECOM is a leader on the markets it serves, including transportation, facilities, environmental, energy, oil and gas, water, high rise buildings and government; and provides a blend of global reach, local knowledge, innovation, and technical excellence in delivering customized and creative solutions that meet clients’ needs.

www.aecom.com
Thursday, Feb. 22 - Afternoon
Session 1.3
1 to 3
Session 1.4
3 to 4:15
Speaker:

Gunnar Hand
AICP; SOM.

Regenerative Cities:
Moving Beyond Sustainability

Gunnar Hand is a city and regional planner, and passionate all-around community organizer. He has cultivated his interest in the built environment from a young age and transformed it into action and positive change.

From starting his own property reinvestment business and launching several rail-based transit advocacy nonprofits, to promoting clean energy alternatives and neighborhood improvements on various boards, Hand is a problem solver. He is deeply engaged with his clients and his community, building partnerships and identifying strategic initiatives for innovative and effective implementation. Hand is always expanding his knowledge and understanding of the built environment and civic systems in order to find new ways to make them better. As an urban planner, he understands that functional, integrated and equitable communities can foster a higher quality of life for all people. Hand seeks to facilitate, create and design places that have a positive and sustainable impact on society and the world.
Skidmore, Owings, & Merrill LLP is one of the largest and most influential architecture, interior design, engineering and urban planning firms in the world.

Since 1936 SOM has completed more than 10,000 projects in over 50 countries. The company is renowned for its iconic buildings and commitment to design excellence, innovation and sustainability.

SOM believes that the best results stem from an ongoing dialogue with all stakeholders. Collaboration is a guiding force at SOM and its clients are partners. The firm approaches each project as a unique challenge and its portfolio includes some of the most important design achievements of the 20th and 21st centuries, from cutting-edge research facilities and inspiring learning centers to soaring towers and vibrant urban districts. SOM has earned nearly 2,000 awards and remain the only practice to have twice won the Architecture Firm Award from the American Institute of Architects.
Thursday, Feb. 22 - Afternoon

Session 1.3
1 to 3

Session 1.4
3 to 4:15

Speaker:
Yana Waldman
*PE*; Senior project manager, ARUP.

**A Business Case for Resilience:**
The hidden cost of not properly estimating total risk

Yana Waldman is currently a senior project manager in Arup’s Transaction Advice team. She specializes in resilience strategies and financing for large-scale infrastructure projects, government organizations and corporations.

Her expertise spans multi-hazard threat and vulnerability assessment, resilience planning, risk mitigation engineering, business continuity management and portfolio analysis. She is currently working to develop more interactive evaluation tooling in the resilience space:

- REDI – Resilient Engineering Design Initiative, a guideline for more robust development strategies to mitigate the impact of floods and earthquakes on the built environment.

- CaRI – Campus Resilience Index, a framework for assessment of resilience planning and preparation processes on academic and corporate campuses.
Arup is an independent firm of designers, planners, engineers, consultants and technical specialists, working on every aspect of today's built environment. Together, the firm's professionals help their clients solve their most complex challenges – turning exciting ideas into tangible reality as they strive to find a better way and shape a better world.

Arup was founded in 1946 by Ove Arup, a gifted engineer-philosopher with an original and restless mind. Arup is an independent firm, owned in trust for its members, still guided by its founder's spirit and principles. The firm chooses to work where they can make a real difference in the world, stretch the boundaries of what is possible, delight its clients, and achieve socially valuable outcomes.

Arup made its name in the 20th century as the designer and engineer behind some of the world's most ambitious structures. That creative strength and independence of mind continue to guide it. Today, Arup employs more than 13,000 people, in more than 35 countries – in a culture underpinned by Sir Ove Arup's aims and values.

www.arup.com
Friday, Feb. 23 - Morning

Session 2.1
9 to 10:45

Session 2.2
11 to 12:15

Speaker:

Laurie Johnson
PhD; AICP; principal Laurie Johnson Consulting | Research, San Rafael, CA.

Working at the Confluence of Natural Hazards and Land Use Planning

Laurie Johnson is an internationally recognized urban planner specializing in disaster recovery and catastrophe risk management. She began her planning career working with San Francisco Bay Area communities that would soon be struck by the 1989 Loma Prieta earthquake. For nearly 30 years, she has combined her expertise in urban planning, earth science, and risk management into a unique blend of professional practice and research to help planners and communities address the complex urban challenges posed by natural hazards, including earthquakes, landslides, floods and hurricanes. She has been at the forefront of disaster recovery and resilience planning, and policy development, in the U.S. and the world, assisting numerous local and state governments, federal agencies, emergency management agencies, utility operators, insurers, and philanthropic organizations.

Johnson is a visiting project scientist at the Pacific Earthquake Engineering Research Center (PEER) at the University of California-Berkeley and chairs the federal advisory committee (ACEHR) for National Earthquake Hazards Reduction Program. She is also on the Science Board of the Global Earthquake Model (GEM) and the Steering Committee for the Geotechnical Extreme Event Reconnaissance association (GEER) and the Earthquake Engineering Research Institute (EERI) Learning from Earthquakes program. She is a long-standing member of the American Institute of Certified Planners, the APA, and EERI. She holds a Doctor of Informatics degree from Kyoto University and a Master of Urban Planning and Bachelor of Science in Geophysics, both from Texas A&M University.
Laurie Johnson Consulting | Research, San Rafael, CA.

Laurie Johnson Consulting | Research prides itself upon its many successful collaborations, building and leading and also participating on specially-designed, multidisciplinary teams for both public and private sector consulting projects and research. Team members have included both leading practitioners and academic experts in civil, structural and earthquake engineering, geoscience and geotechnical engineering, meteorology, land use and urban redevelopment, geographic information systems (GIS) and remote sensing, public administration and policy, emergency management, and social science. Located in San Rafael, California, Laurie Johnson Consulting | Research maintains an active research agenda that complements and advances its consulting practice.

Laurie Johnson Consulting | Research has conducted numerous post-disaster reconnaissance and long-term rebuilding studies of many of the world’s major urban disasters, most recently the earthquakes in Tohoku, Japan; Christchurch, New Zealand; Maule, Chile; and Sichuan, China; as well as Hurricane Katrina. Laurie Johnson has also been involved in several disaster scenario studies, including potential major earthquakes in northern and southern California, a tsunami striking the California coast, and a major winter storm series impacting all of California. Johnson has authored numerous peer-reviewed journal articles, conference papers and reports documenting her work.

www.lauriejohnsonconsulting.com
Friday, Feb. 23 - Morning

Session 2.1
9 to 10:45

Session 2.2
11 to 12:15

Speaker:

Geoffrey Neumayr
*SE; Chief Development Officer, San Francisco International Airport.*

**Planning a Resilient Future at San Francisco International Airport**

Geoffrey Neumayr is the chief development officer for the San Francisco International Airport Planning, Design and Construction Division. In his role, he is responsible for overseeing the planning, design and construction of all the airport’s maintenance and capital projects. He received his Bachelor’s degree in Architectural Engineering from California Polytechnic State University, San Luis Obispo in 1984. He is both a licensed civil and structural engineer.

He has over 33 years of design and construction and as a project manager has been responsible for the design and construction San Francisco International Airport’s BART Station and the Terminal 2/Boarding Area B Renovation projects. As the airport’s chief development officer, Neumayr is currently responsible for the airport’s $7.3 billion capital improvement program, which will include a new hotel modernization of two terminal buildings, a new long-term parking garage, new office building, the extension of the AirTrain system to Lot DD, and the implementation of the first Net Zero Energy Airport in the United States. Under Neumayr’s leadership, the Airport has completed the renovation of Boarding Area E and Terminal 3 West as well as the new Air Traffic Control tower.
The San Francisco International Airport is a department of the City and County of San Francisco, dedicated to serving the local community and the millions of travelers who pass through it each year. It is the largest airport in Northern California and the second busiest in California, after Los Angeles International Airport.

For the past 90 years, San Francisco International Airport has foreseen and kept pace with the development of commercial aviation to serve the public. It started with 150 acres of land in 1927 and grew to its current 1,112 acres in 1930. Currently, the airport has four terminals (1, 2, 3, and International) and seven concourses (Boarding Areas A through G). The oldest terminal building is Terminal 2, completed in 1954. The international terminal opened in 2000 and it should be redeveloped in the near future. Terminal 2 was rebuilt in 2011, followed by the all-new terminal 3 in 2015, and Terminal 1 redevelopment is scheduled to be complete by 2024. The airport plans to accommodate up to 71.7 million annual passengers and more than 500,000 annual aircraft operations, continue renovation of the terminal and improve connectivity between terminals. One of the biggest challenges that the airport is facing is to prepare for sea-level rise, since projections indicate it will rise by 3 feet by the end of this century, and as much as 12 feet in the next.

www.flysfo.com
Friday, Feb. 23 - Morning

Session 2.1
9 to 10:45

Session 2.2
11 to 12:15

Speaker:

Paul Hutton
FAIA, LEED BD+C; Cuningham Group.

Resiliency in the Design of Educational Environments

Paul C. Hutton is the chief sustainability officer for Cuningham Group Architecture, an architecture/interiors/planning/landscape design firm with nine offices in four countries, including two in California. As CSO, Hutton is responsible for training and education in sustainable design measures and monitors the firm’s progress toward net-zero energy building, the WELL building rating system, and resiliency.

Hutton has specialized in designing sustainable and resilient educational facilities since the early 1980s. His clients in Colorado have experienced droughts, floods, wildfires, explosions, and most unfortunately shootings. He brings a wealth of experience in the complex dynamics of decision making about school building design. He also served on the AIA’s Committee on Architecture for Education (CAE) board for many years and was the national chair in 2014.

Hutton received his Bachelor of Arts in Architecture from Princeton University and his Master of Architecture and Master of Planning from the University of Virginia. He was a faculty member of the University of Colorado, Graduate School of Architecture, from 1997-2013, where he developed new courses in Construction Documents and Daylighting.
Cunningham Group was founded in 1968 by John Cuningham, who developed a model of architecture that is highly inclusive and incorporates extensive client, consultant, engineer and contractor participation. The company has expanded locations, services and markets over the decades to meet a growing demand from respected local, regional, national and international clients.

The company is dedicated to providing its clients with teams of professionals focused on meeting the specific needs of each project and the marketplace. It delivers well-crafted lifestyle experiences that meet developer demands. The Cunningham Group’s work focuses on providing designs that will deliver a unique living, learning, working, healing, worshipping and playing experiences. Creativity and innovation are central to its mission and are best served through a collaborative, inclusive process that engages each and every key stakeholder. The places the company designs tell their client’s story and celebrate experience, both environmentally and architecturally.

www.cunningham.com
Friday, Feb. 23 - Afternoon

Session 2.3
9 to 10:45

Session 2.4
11 to 12:15

Speaker:

David Tickle
Hassell Studio, Australia.

Waterfront Places That People Love

David Tickle is a principle and urban design sector lead at HASSELL, a leading international design practive. He has been involved in the design of significant precincts and infrastructure within a number of global cities over the last 20 years. Working with the global urban design team, Tickle is responsible for ensuring HASSELL designs and delivers exceptional urban places. His team is committed to unlocking the full design, economic and social potential of cities.

Tickle has lead a range of master planning and urban design projects including major urban renewal projects, transport and infrastructure projects, town center and area master planning, commercial, residential and retail master plans. His interest in global cities has led him to instigate a program of urban research projects at HASSELL. His latest research project saw HASSELL teams in London, Shanghai and Sydney investigate how each of these cities is grappling with issues of housing, including density, livability, affordability and delivery. He is captivated with Shanghai and the city is dealing with rapid population growth, having recently been working on a master plan competition for a 20-kilometre stretch of the Huangpu River, the Shanghai’s main waterway.
HASSELL

HASSELL is a leading international design practice with studios in Australia, China, South East Asia, the United Kingdom and the United States.

HASSELL Studios judge the success of the buildings and places it designs by the way people use and enjoy them—the clients who commission them, the people who inhabit them. Good design is about helping clients meet their needs and objectives. It is also about the way people feel when they experience it, a sense of meaning, connection and belonging.

The design values are shared globally across all the HASSELL studios, by the talented people who work in them: architects, interior designers, landscape architects, urban designers, planners and specialist consultants.

HASSELL is proud to have been recognized with more than 1,000 awards from leading industry bodies around the world. These awards are for HASSELL’s design leadership, innovation, and sustainability.

www.hassellstudio.com
Friday, Feb. 23 - Afternoon

Session 2.3
9 to 10:45

Session 2.4
11 to 12:15

Speaker:

Amanda Brown-Stevens
Director, Bay Area Resilient by Design Challenge.

Resilient to a Rising Bay

Amanda Brown-Stevens brings a wide range of experience to the role of managing director of the Bay Area Resilient by Design Challenge. Most recently, both at The Trust for Public Land and a private consulting firm, Brown-Stevens helped cities, counties, school and park districts throughout California develop and pass public finance measures raising hundreds of millions of dollars in new funding for conservation, parks and other essential infrastructure. Before that, as deputy director of Greenbelt Alliance, Brown-Stevens worked with communities throughout the nine-county Bay Area to protect the region’s iconic natural areas and encourage the right development in the right places.

Brown-Stevens holds a bachelor’s degree in Latin American Studies from Wesleyan University and an M.P.P. from the Goldman School of Public Policy at UC Berkeley. She lives with her family in Oakland, where she worked in the early 2000s as chief of staff to Oakland City Councilmember Nancy Nadel.
Resilient by Design | Bay Area Challenge is a collaborative research and design project that brings together local residents, public officials and local, national and international experts to develop innovative solutions to the issues that climate change brings to the region. Teams of engineers, architects, designers and other experts will work alongside community members to identify critical areas throughout the Bay Area and propose exciting, new, community-based solutions that will strengthen the region’s resilience to sea level rise, severe storms, flooding and earthquakes.

The result will be 10 implementable projects that will offer an imaginative and collaborative approach to resilience. By approaching the critical need to address climate change as an opportunity to bring about a stronger, safer Bay, the Challenge will protect shoreline communities and prepare them for the challenges brought on by sea level rise.

www.resilientbayarea.org
Friday, Feb. 23 - Afternoon

Session 2.3
9 to 10:45

Session 2.4
11 to 12:15

Speaker:

Steve Moddemeyer
Principal, CollinsWoerman.

Using Resilient Design Performance Standard to Accelerate Recovery based on Community Priorities

Steve Moddemeyer is a Principal with CollinsWoerman. With nearly 25 years of experience, he specializes in creating tools and policies to develop resilient infrastructure and land use systems for neighborhoods, cities and new town developments. His experience includes master planning for large urban redevelopments; resilience planning for urban infrastructure systems including roads, water, and energy; developing urban policy for climate change adaptation; and advising cities, utilities, and Tribes on techniques and tools for advanced sustainability.

Moddemeyer is a member of the National Academy of Sciences Resilient America Roundtable and of the IUCN CEM Resilience Theme Group; and an advisor to the University of Washington, College of the Built Environment’s Masters in Infrastructure Planning and Management (MIPM), and to the Evergreen State College’s Center for Sustainable Infrastructure (CSI).
A collaborative architecture, planning and design firm founded on integration, innovation, and a commitment to create extraordinary value for their clients and communities, CollinsWoerman has been a market leader since 1988.


CollinsWoerman work strives to be timeless, expressive of its nature and kind to the environment, and the firm tailors its approach to leverage the unique opportunities inherent in each assignment. The firm is passionate about what it does and is driven to make a difference.

www.collinswoerman.com
Moderators

Thursday, Feb. 22 - Morning
Sessions 1.1 & 1.2

Stacey White, RA, MBA.

Stacey White teaches in Cal Poly’s Architecture program. She is an environmental and educational advocate with an experience that includes planning and designing schools, community centers, residential and commercial uses. She has been the owner/principal at Mode Associates in San Luis Obispo since 2009, and she was a project manager at RRM Design Group from 1998 to 2009. Her advocacy and policy work includes the local, state and congressional levels where she writes policy and fights the good fight.

Thursday, Feb. 22 - Afternoon
Sessions 1.3 & 1.4

Bryan Seamer, PE.

Bryan Seamer is a Structural Engineer and Managing Director of Engineering at LPA Inc., an integrated design firm that specializes in creating innovative, sustainable environments. Since joining LPA in 2013, he has focused on integrating structural, architectural and MEP building systems. He has received multiple regional and national “Excellence in Structural Engineering” awards. His extensive experience in resilient seismic design includes both preventative seismic rehabilitation projects throughout the U.S. and recovery and rebuilding projects in Haiti and New Zealand. He is a founding member and serves on the Technical Advisory Committee of the U.S. Resiliency Council.
Moderators

Friday, Feb. 23 - Morning
Sessions 2.1 & 2.2

João Pedro Costa, RA, PhD.

An architect with a PhD from the Universitat de Catalunia, João Pedro Costa holds a post-doctorate degree from the Universidade Tecnica de Lisboa, Portugal, where he is a full professor and sits on the directing board of the Center for Research on Architecture, Urbanism, and Design. He is a visiting professor at the MSc and PhD programs of the Polytechnic University of Catalonia and the Superior Institute of Agronomy. He has numerous architectural, urban, and research projects, and has published three books, one on the impact of climate change in European cities. Currently, he is a councillor on Lisboa’s city council.

Friday, Feb. 23 - Afternoon
Sessions 2.3 & 2.4

Alicia Daniels Uhlig, RA.

Alicia Daniels is a licensed architect with 20 years of sustainable design experience, and currently directs the Living Community Challenge and Policy for the International Living Future Institute in Seattle. She also practiced architecture in Seattle with GGLO, in California with Van der Ryn Architects, and in the U.S. Virgin Islands. Daniels is a LEED Fellow, serves on USGBC’s LEED Advisory Committee, is a founding steering committee member of the Capitol Hill EcoDistrict, an American Solar Energy Society lifetime member, an Urban Land Institute Northwest task force member, and served on Cascadia Green Building Council’s Seattle Branch steering committee for 10 years.
Symposium Coordinators

William Siembieda, PhD, AICP
Professor,
City and Regional Planning Department

Margot McDonald, AIA, NCARB
Professor, Department Head
Architecture Department

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