

ACSA/ASPPH Fall Conference

09/22-24/2016

University of Hawaii at Manoa

Building

Structures

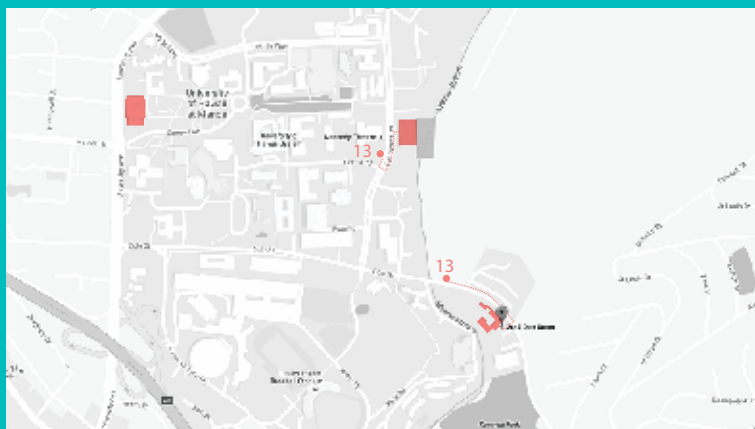
for Health &

Cities

Well-Being

Systems

# MAPS



## UNIVERSITY OF HAWAII AT MANOA



## SHERATON PRINCESS KAIULANI HOTEL CONFERENCE HOTEL

# WELCOME TO HAWAII!

# ALOHA!

## Host School

University of Hawaii at Manoa

## Conference Co-chairs

Sara Jensen Carr, University of Hawaii at Manoa

Billie Faircloth, Kieran Timberlake

Howard Frumkin, University of Washington

## ABOUT THE CONFERENCE

The Alma-Ata Declaration of 1978 redefined health as not simply the absence of disease, but as a total state of physical, mental, and social well-being and as a fundamental human right. This not only ushered in a new era of disease prevention, health promotion, and medical care, but it set the stage for a closer examination of the built environment as a determinant of health and disease. Simultaneously, as the dominant ailments of the era have shifted from infectious to chronic, the role of the built environment has become more expansive and arguably more complex.

The interest in connecting the built environment and human health is not new, nor is viewing the environment as an indicator of population wellness. Hippocrates hypothesized the connection of “bad” airs and waters to illness, and Aldo Leopold used the internal systems of the human body as a model for ecosystem “land health.” While these holistic models of intertwined health and environment are more poetic hypotheses than empirical, they play a large part in framing contemporary discourse. Now armed with new technologies and methods, how can designers, planners, and public health professionals advance those theories? As public health moves toward a place-based practice, how will we design and construct those places? As we expand beyond thinking of health as a typology to a quality of space or metric of performance, how do we confront its integration into teaching and practice?

The 2016 ACSA/ASPPH Fall Conference is the first-ever joint conference between the Association of Collegiate Schools of Architecture (ACSA) and Association of Schools and Programs of Public Health (ASPPH). We will connect academics, practitioners, and policy makers who are exploring issues at the intersection of design, the built environment and public health at all scales – from materials to buildings to landscapes to urban and social systems. Through small group workshops, rapid fire presentations, and focused plenary debates, this conference will confront the constraints on and potentials for design, research, and collaboration.

For updates, changes to the schedule and conversation about the conference.

## CONNECT WITH US ON SOCIAL MEDIA!

#BUILDINGFORHEALTH



@ACSAUPDATE



/ACSANATIONAL



@ACSANATIONAL



@ASPPHTWEETS



@ASPPH



# SCHEDULE-AT-A-GLANCE

## THURSDAY, SEPTEMBER 22

12:00pm *Registration*

4:00pm **Opening Mixer**

## FRIDAY, SEPTEMBER 23

9:00am **Plenary: Building Well-Being from Academy to Practice**

10:30am *Break*

11:00am Session I: Well-Being in the Studio I

Session II: Health, Place, and Equity

12:30pm *Lunch (on your own)*

2:30pm Session I: Well Futures

Session II: Models, Methods, Metrics

4:00pm *Break*

4:30pm Session I: Special Settings

Session II: Health and Vulnerable Populations I

6:00pm **Plenary Panel Keynote**

## SATURDAY, SEPTEMBER 24

9:00am **Plenary: Empiricism and Evidence**

10:30am *Break*

11:00am Session I: Healthy Infrastructures

Session II: Health and Vulnerable Populations II

12:30pm **Design & Health Panel + Lunch**

2:00pm Session I: Policy to Practice

Session II: Healthy Youth

3:30pm *Break*

4:00pm Session I: Well-Being in the Studio II

Session II: Health and the Human Scale

5:30pm **Closing Plenary and Wrap-up**

# THURSDAY, SEPT. 22, 2016

## CENTER FOR HAWAIIAN STUDIES

12:00

### REGISTRATION

University of Hawaii at Manoa, Center for Hawaiian Studies

4:00-5:30

CENTER FOR  
HAWAIIAN  
STUDIES

### OPENING MIXER

**Speaker:** Healoha Johnston, Honolulu Museum of Art

Sara Jensen Carr, University of Hawaii at Manoa

Billie Faircloth, KieranTimberlake

Howard Frumkin, University of Washington



Healoha Johnston is the Curator of the Arts of Hawai'i at the Honolulu Museum of Art. Johnston holds a MA degree in Art History, and is completing a second MA degree in Pacific Island Studies, both from the University of Hawai'i. Her areas of interest span Hawaiian Kingdom era (19th century) visual culture to contemporary art with a particular focus in the relationship between socio-political underpinnings and art in Hawai'i from the mid-19th century to present day.

Before joining the Honolulu Museum of Art's curatorial staff, she spent five years working at contemporary art galleries in Southern California. She worked as the gallery assistant at Luis De Jesus Los Angeles; as an art advisor at Susan Street Fine Art; and as an independent curator for the San Diego Natural History Museum. She has also applied her research skills and museum studies experience to other areas, most recently as a policy specialist for NOAA's National Monuments Program where she assisted with the writing of Monument plans for the Marianas Trench, the Rose Atoll, and the Pacific Remote Islands marine national monuments.



# FRIDAY, SEPT. 23, 2016

## EAST-WEST CENTER

9:00-10:30

KEONI  
AUDITORIUM

### PLENARY PAPER SESSION

#### **BUILDING WELL-BEING FROM ACADEMY TO PRACTICE**

**Moderators:** Billie Faircloth, Kieran Timberlake

##### **A Community-driven Urban Acupuncture to Address the “Micro-Food Desert” in a Relatively Affluent County**

Hui Cai, University of Kansas

Robin Liston, University of Kansas

Renee Bryant, Johnson County Department of Health and Environment

Kim Kimminau, University of Kansas

##### **Beyond Best Practices: How One Architecture Firm Is Exploring Engagement Strategies to Find New Solutions that Promote Healthy Communities**

Anne Schopf, Mahlum Architects

##### **Exploring Opportunities at the Intersection of Design and Public Health Pedagogies**

Traci Rider, North Carolina State University

Aaron Hipp, North Carolina State University

10:30-11:00

### COFFEE BREAK

11:00-12:30

ASIA ROOM

### PAPER SESSION

#### **HEALTH, PLACE, AND EQUITY**

**Moderator:** Howard Frumkin, University of Washington

##### **Application of the Ecologic Environmental Justice Framework in Charleston, South Carolina: An Environmental Justice Case Study**

Sacoby Wilson, University of Maryland

##### **Backyard Junk and Big Boxes: Inequality and Spatial Politics in the Rural South**

David Franco, Clemson University

##### **Development of Environmental Benefits Districts in Prince Georges County, MD: An Approach to Address Environmental Injustice and Revitalize Underserved Urban Neighborhoods**

Sacoby Wilson, University of Maryland

Jake Bueno de Mesquita, University of Maryland

Katrina Bibb, University of Maryland

Hillary Craddock, University of Maryland

Melissa Desantiago, University of Maryland

Winnie Mutunga, University of Maryland

Rhodel Bradshaw, University of Maryland

##### **Street Urbanism in a Global Context: Research Methods in Understanding Health and Place**

Mary Anne Alabanza Akers, Morgan State University



11:00-12:30

PACIFIC ROOM

## PAPER SESSION

### WELL-BEING IN THE STUDIO I

**Moderator:** Andy Dannenberg, University of Washington

#### **Designing for Health: At the Center of the Perfect Storm that Is Redefining How We Teach**

Ray Pentecost, Texas Tech University

Saif Haq, Texas Tech University

Theresa Byrd, Texas Tech University

#### **Converging Pedagogies: Human Health and Sustainable Design**

Kimberly Rollings, University of Notre Dame

#### **The Well-Tempered City: Health and the Built Environment in Interdisciplinary Design Education**

Zaneta H. Hong, Harvard University

12:30-2:30

## LUNCH (on your own)

2:30-4:00

ASIA ROOM

## PAPER SESSION

### MODELS, METHODS, METRICS

**Moderator:** Billie Faircloth, KieranTimberlake

#### **Connected Healthy Living for Smart Cities**

Paola Sanguinetti, University of Kansas

Hui Cai, University of Kansas

Joseph Colistra, University of Colorado

Hugo Sheward, University of Kansas

Ferdous Farhana, University of Kansas

#### **Predictive Modeling Network for Performative Health Design, Agents and POE's**

Thomas Spiegelhalter, Florida International University

#### **Using Social Innovation, Design Thinking and Co-Creation Research Methods to Solve Real World Challenges Facing a Top Ranked Children's Hospital**

Ann Black, University of Cincinnati



# FRIDAY, SEPT. 23, 2016

## EAST-WEST CENTER

2:30-4:00

PACIFIC ROOM

### PAPER SESSION

#### WELL FUTURES

**Moderator:** Sara Carr, University of Hawaii at Manoa

##### **Natural Building in the City: Salutogenic Construction Techniques in Urban Environments**

Joseph Kennedy, NewSchool of Architecture and Design

##### **Post-Petroleum Design**

George Elvin, Ball State University

##### **Reclaiming Recreation**

Bradford Watson, Montana State University

##### **Urban Vertical Farming**

Jefferson Ellinger, University of North Carolina at Charlotte

4:00-4:30

### COFFEE BREAK

4:30-6:00

ASIA ROOM

### PAPER SESSION

#### HEALTH AND VULNERABLE POPULATIONS I

**Moderator:** Jenny Roe, University of Virginia

##### **Augmenting Against Inequality: Improving Social-Technological Access for the Senior Community via Design**

Ziad Qureshi, University of Houston

##### **Improving Human Health and Well-Being through Sustainable Coastal Restoration and Community Advocacy**

Phoebe Crisman, University of Virginia

##### **Housing the Chronically Homeless: Opportunities and Challenges of a Community-based Design Studio**

Kimberly Rollings, University of Notre Dame

##### **Is Green Housing Healthy Housing? An Examination of Green Building and Healthy Building Guidelines for Residential Structures**

Sherry Ahrentzen, University of Florida

Elif Tural, Virginia Tech

James Erickson, Arizona State University



4:30-6:00

PACIFIC ROOM

## PAPER SESSION

### SPECIAL SETTINGS

**Moderator:** Anne Schopf, Mahlum Architects

#### **A Case for Innovative Design: Post-Occupancy Evaluation on the Impacts of School and Furniture Design on User Satisfaction and Student Engagement**

Xuemei Zhu, Texas A&M University

Raechel French, Diego Barrera, Gwen Morgan, Shivani Langer,

Taryn Kinney, and Terry Hoyle, Stantec

#### **Considering Health Impacts in Public School Design: Indoor Environment Quality, High Performance School Design and Operational Considerations**

Geoffrey Thün, University of Michigan

Stuart Batterman, University of Michigan

Andrew Wald, University of Michigan

Cheryl Somers, Wayne State University

Feng-Chiao Su, University of Michigan

Jean Wineman, University of Michigan

#### **Mapping the Hospital Environment: Linking Occupant Behavior and Environmental Conditions in an Acute Care Setting**

Stephanie Carlisle, KieranTimberlake

Bon Ku, Thomas Jefferson University

6:00-7:30

KEONI

AUDITORIUM

## PLENARY SESSION

### KEYNOTE PANEL

**John Bela, Gehl Architects**

**Bon Ku, Jefferson University**

**Stephen Luoni, University of Arkansas**



**NOTE:** SPEAKER BIOGRAPHIES ARE LOCATED ON PAGE 14.

# SATURDAY, SEPT. 24, 2016

## EAST-WEST CENTER

9:00-10:30

KEONI  
AUDITORIUM

### PLENARY PAPER SESSION EMPIRICISM AND EVIDENCE

**Moderators:** Howard Frumkin, University of Washington

#### **Retro-'fitbit'ting the Built Environment: Evaluating the Pace of Urban, Suburban, Rural Conditions**

Jason Austin, Drexel University

#### **Spatial Structure as an Architectural Performance Metric**

Julie Zook, Texas Tech University

#### **The Ageing Urban Brain: Changes in Brain Activity in Older People from Walking in the City**

Jennifer Jane Roe, University of Virginia

Chris Neale, University of York

Peter A Aspinall, Heriot Watt University

Sara Tilley, University of Edinburgh

Richard Coyne, University of Edinburgh

Mavros Panagiotis, The Bartlett, University College London

Cinderby Steve, Stockholm Environment Institute, University of York

Catharine Ward Thompson, University of Edinburgh

Neil Thin, University of Edinburgh

10:30-11:00

### COFFEE BREAK

11:00-12:30

ASIA ROOM

### PAPER SESSION HEALTH AND VULNERABLE POPULATIONS II

**Moderator:** Sara Jensen Carr, University of Hawaii at Manoa

#### **Deep Monitoring / Common Health+: Prototypes for Chronic Healthcare Delivery for Underserved and Remote Populations**

Geoffrey Thün, University of Michigan

Kathy Velikov, University of Michigan

Dr. Joe Myers, University of Michigan Health Service / Eye Health Institute

Dr. David Burke, Wayne State University

Kallie Sternburgh, University of Michigan

#### **A Fusion of Horizons: The When of Environmental Interventions for the Benefit of Health**

Andrew Tripp, Mississippi State University





11:00-12:30

PACIFIC ROOM

## PAPER SESSION

### HEALTHY INFRASTRUCTURES

**Moderator:** Mark Fenton, Tufts University

#### **Mobilizing for Better Health Through Prototyping Park Infrastructure**

Shannon Criss, University of Kansas

Nils Gore, University of Kansas

#### **Transdisciplinary Collaboration Through Memphis Walks**

Anthony Kitsinger, University of Memphis

#### **Who Benefits the Most from Walkable Communities? Results from a Quasi-natural Experimental Study**

Xuemei Zhu, Texas A&M University

Zhipeng Lu, Texas A&M University

Chia-Yuan Yu, University of Central Florida

Chanam Lee, Texas A&M University

12:30-2:00

WAILANA  
GARDEN ROOM

## DESIGN AND HEALTH PANEL (AIA) & LUNCH (PROVIDED)

**Moderator:** Suzanna Kelley, American Institute of Architects

**Panelists:** Anne Schopf, Mahlum

Chris Hong, Group 70 International

Janine Clifford, Clifford Planning

2:00-3:30

ASIA ROOM

## PAPER SESSION

### HEALTHY YOUTH

**Moderator:** Lehua Choy, University of Hawaii at Manoa

#### **Learn & Grow: An Educational Garden for the Boys & Girls Club**

Alexis Gregory, Mississippi State University

Suzanne Powney, Mississippi State University

Joseph Witt, Mississippi State University

#### **Methodologies for Health-driven Materials Research: Addressing Sensory Challenges for Children with Autism Through the Design of Textile-based Playscapes**

Sean Ahlquist, University of Michigan

#### **Take It Outside! Creating and Assessing a Nature-based Learning Environment**

Pamela Harwood, Ball State University

# SATURDAY, SEPT. 24, 2016

## EAST-WEST CENTER

2:00-3:30

PACIFIC ROOM

### PAPER SESSION

#### POLICY TO PRACTICE

**Moderator:** Nicola Szibbo, University of Hawaii at Manoa

##### **Collective Sensing for Urban Health Policies**

Biayna Bogosian, University of Southern California

Maider Llaguno, ETH Wohnforum

##### **Creating a Roadmap for Legislated Environmental Change: Design Thinking and Making California's Carbon Credit Work on the Ground**

Robert Todd Ferry, Portland State University

Sergio Palleroni, Portland State University

##### **Health Is Material to Design**

George Bradley Guy, Catholic University of America

Tanya Mejia, Perkins Eastman

Nancy Hulsey, HKS Architects

Lona Rerick, ZGF Architects

3:30 -4:00

### COFFEE BREAK

4:00-5:30

ASIA ROOM

### PAPER SESSION

#### HEALTH AND THE HUMAN SCALE

**Moderator:** Laura McGuire, University of Hawaii at Manoa

##### **Cyborgonomic Architecture, Chromosapien Space**

Mary-Ann Ray, University of Michigan

##### **Sanatorium Zonnestraal and a Case for a Nuanced Approach to Light Exposure**

Aki Ishida, Virginia Tech

##### **The Ergonomic Frame: Humans, Nonhumans, and Their Spatial Ontologies**

Michael L. Beaman, Rhode Island School of Design





4:00-5:30

PACIFIC ROOM

## PAPER SESSION

### WELL-BEING IN THE STUDIO II

**Moderator:** Shannon Criss, University of Kansas

#### **Health for Human, Animal, Environment and Economy: Implement the One Health Concept in an Interdisciplinary Design Studio**

Zhipeng Lu, Texas A&M University

George J. Mann, Texas A&M University

Chanam Lee, Texas A&M University

Macharia Waruingi

#### **Toward Healthy, Sustainable and Just Communities: Responses From the Academy**

Michaela Lea Pride, University of New Mexico

#### **Access to Healthy Food and Neighborhood Walkability: Insights Through Inter-professional Curricula**

Shannon Criss, University of Kansas

Nikki Nollen, University of Kansas

Megha Ramaswamy, University of Kansas

Matt Kleinmann, University of Kansas

5:30-6:30

KEONI  
AUDITORIUM

## PLENARY SESSION

### CLOSING PLENARY DISCUSSION

**Moderator:** Sara Jensen Carr, University of Hawaii at Manoa

FRIDAY

# KEYNOTE SPEAKERS BIOS



John Bela is an urban innovator and public space designer. As a Director of Gehl Studio San Francisco, he works with cities, developers, and communities to translate human scale, people-first strategy and policy into quality places and experiences. John comes to Gehl from leading the Rebar Art and Design Studio, is a distinguished lecturer at U.C. Berkeley, and holds degrees in landscape architecture and environmental design, biochemistry, and sculpture.

Gehl is a global leader in people centered urban design. With studios in Copenhagen, New York and San Francisco, we are making 'cities for people'. We offer expertise in the fields of architecture, urban design, landscape architecture and city planning. We address global trends with a people-focused approach, utilizing empirical analysis to understand how the built environment can promote wellbeing. We apply this analysis to strategic planning and human-centered design to empower citizens, decision makers, company leaders, and organizations. Our work is based on the human dimension – the built environment's effect on social interaction between people. We consider lively and widely used public spaces to be vital keys to quality of life in cities and to overall wellbeing.



Dr. Bon Ku is the founder and director of JeffDESIGN, a program that teaches medical students to solve healthcare challenges using design thinking. The first ever design program in a medical school empowers future doctors to redesign healthcare services, physical spaces and medical devices. Dr. Ku has conducted numerous workshops focused on designing novel solutions to healthcare problems and has spoken widely on how better design can improve both healthcare delivery and the health of communities.

Dr. Ku is a board-certified emergency medicine physician with greater than 10 years in clinical practice. He is an Associate Professor of Emergency Medicine at the Sidney Kimmel Medical College at Thomas Jefferson University. He has multiple publications in areas of point-of-care ultrasound, healthcare utilization, and urban homeless populations. Dr. Ku completed a fellowship at Penn and holds a public policy degree from Princeton University.





Stephen Luoni is Director of the University of Arkansas Community Design Center (UACDC) where he is the Steven L. Anderson Chair in Architecture and Urban Studies and a Distinguished Professor of Architecture. Under his direction since 2003, UACDC's design and research have won more than 100 awards, including Progressive Architecture Awards, American Institute of Architects Honors Awards for Regional and Urban Design, Charter Awards from the Congress for the New Urbanism, American Society of Landscape Architecture Awards, Environmental Design Research Association Awards, American Architecture Awards, and a Holcim Award, all for urban design, research, and education. His work at UACDC specializes in interdisciplinary public works projects combining landscape, urban, and architectural design. Luoni directed production of the center's award-winning book: *Low Impact Development: A Design Manual for Urban Areas*. His work has been published in *Oz*, *Architectural Record*, *Landscape Architecture*, *Progressive Architecture*, *Architect*, *Places*, *L'Architecture d'Aujourd'hui*, *Progressive Planning*, *International New Architecture*, and *Public Art Review*. He was appointed a 2012 United States Artists Ford Fellow. Luoni has a BS in Architecture from Ohio State University and a Master of Architecture from Yale University.



## TRANSPORTATION

ALL ATTENDEES AT THE SHERATON PRINCESS KAIULANI HOTEL WILL RECEIVE COMPLIMENTARY 4-DAY BUS PASSES. THE HONOLULU CITY BUS SYSTEM, THE BUS # 13, RUNS EVERY 15-MINUTES AND IS A SHORT 20 MINUTE RIDE.

SHERATON BUS STOP: KUHIO AVE + KAIULANI AVE

UH BUS STOP: DOLE ST + EAST-WEST ROAD

## DOWNTOWN HONOLULU

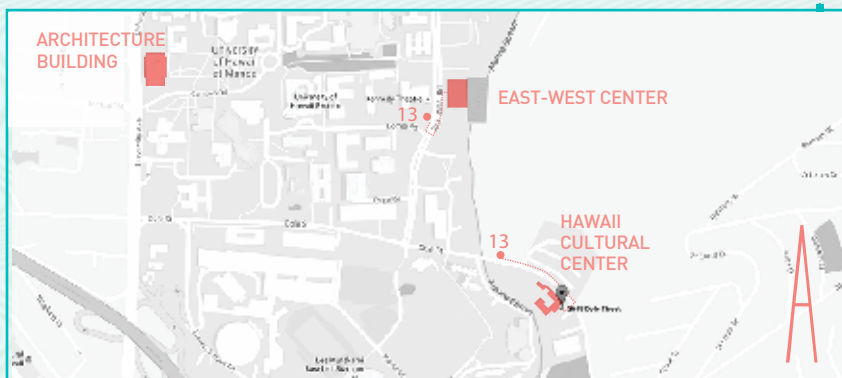
### UH, HAWAII CULTURAL CENTER THURSDAY KEYNOTE

2645 DOLE STREET  
HONOLULU, HI 96822

### UH, EAST-WEST CENTER FRIDAY & SATURDAY CONFERENCE

1777 EAST-WEST ROAD  
HONOLULU, HI 96848

## UNIVERSITY OF HAWAII AT MANOA







WAIKIKI

YOU CAN GO HIKING HERE...  
DIAMOND HEAD STATE MONUMENT

## SHERATON PRINCESS KAIULANI HOTEL CONFERENCE HOTEL

120 KAIULANI AVENUE  
HONOLULU, HI 96815



## NOTES FROM #BUILDINGFORHEALTH





# SAVE THE DATE

2016 ADMINISTRATORS CONFERENCE  
GAPS & OVERLAPS  
NOVEMBER 3-5, 2016  
CHICAGO, IL

[www.acsa-arch.org/Gaps-Overlaps](http://www.acsa-arch.org/Gaps-Overlaps)

105<sup>TH</sup> ANNUAL MEETING  
MARCH 23-25, 2017  
DETROIT, MI

[acsarch.org/105](http://acsarch.org/105)



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