March 2-5, 2022 | Miami, FL | Florida International University | PCA School of Architecture: 1025 SW 112th Ave, Miami

## **ARCC-EAAE 2022\_Conference Schedule**

March 2-5, 2022

> Wednesday, March 2, 2022

*Time (EST)* Location **2:30pm-4:00pm** PCA 167

Event/Session

PHD DOCTORAL WORKSHOP

Moderator: Saif Haq, Texas Tech University

**Computational Knitting for Performance and Transformation** 

Virginia Melnyk, University of Michigan

Can Increasing Hand Hygiene Compliance Save Lives in Nursing Homes? Environmental

Design's Impact on Compliance Hao Huang, Texas A&M University

The Role of Architecture in The Therapeutic Environment. The Case of The Maggie's

**Cancer Care Centre** 

Caterina Frisone, Oxford Brookes University

4:00pm-4:30pm PCA 135 Conference Welcome

Brian Schriner, Dean, CARTA, Florida International University

Henry Rueda Coronel, Architecture

Roberto Rovira, Landscape Architecture + Environmental and Urban Design

Newton D'souza, Interior Architecture

Oya Atalay, EAAE President, Zurich University of Applied Sciences Chris Jarrett, ARCC President, University of North Carolina at Charlotte

Marilys Nepomechie and Shahin Vassigh, Conference Co-Chairs, Florida International University

4:30pm-5:00pm PCA 135 Opening Plenary > RESILIENT CITY

Conference Co-Chairs, Marilys Nepomechie and Shahin Vassigh, Florida International University

**5:00pm-6:00pm** PCA 135 Panelists

**BUILDING RESILIENCE FOR ALL COMMUNITIES** 

Shelby Busó, Chief Resilence Officer, City of Miami Amy Knowles, Chief Resilience Officer, City of Miami Beach James F. Murley, Chief Resilience Officer, Miami-Dade County

6:00pm-7:00pm Courtyard Reception / Hors d'oeuvres

(dinner on own)

> Thursday, March 3, 2022

Time (EST) Location Event/Session
8:30am-9:00am Courtyard Continental Breakfast

**9:00am-9:30am** PCA 135 **Plenary I > CLIMATE** 

Topic Chairs, Jason Chandler and Roberto Rovira, Florida International University

9:30am-10:30am PCA 135 Keynote Address

ARCHITECTURE AFTER ARCHITECTURE: SPATIAL PRACTICE IN THE FACE OF

THE CLIMATE EMERGENCY

Jeremy Till, Head, Central Saint Martins, Pro-Vice Chancellor, University of the Arts

10:30am-11:00am Courtyard Coffee break

11:00am-12:30pm PCA 165

CLIMATE

Mitigation + Adaptation

HOUSING, LIVE/WORK AND THERMAL COMFORT PREDICTION

Moderator: Teresa Fotini Moroseos, University of Washington

Existing Multifamily Building Stock Energy Use and Building Code Comparison Between the

**United States and Finland**Ming Hu, *University of Maryland* 

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## > Thursday, March 3, 2022

Towards Alternative Live-Work Development: An Integrated Design Approach

Christina Payenhofer, Southern Illinois University Mehdi Ashayeri, Southern Illinois University

Machine Learning-Based Automated Thermal Comfort Prediction: Integration of Low-Cost

Thermal and Visual Cameras for Higher Accuracy

Roshanak Ashrafi, *University of North Carolina at Charlotte* Mona Azarbayjani, *University of North Carolina at Charlotte* Hamed Tabkhi, *University of North Carolina at Charlotte* 

**11:00am-12:30pm** PCA 167

EQUITY\_

**Inclusive Urban Landscapes** 

REIMAGINED GROWTH AND INFORMAL URBANISMS

Moderator: Lyndsey Deaton, University of Oregon

Reimagining Growth: Cross Analysis of Environmental and Social Data Between

**Shifting Populations** 

Nicole Hall, School of the Art Institute of Chicago Milad Hosseini-Mozari, University of Utah

The Unreachable Rivers and the Informalities of Medellín and Beirut

Taraneh Meshkani, Kent State University

Viral Resiliency: Reconstructing Extra-Legal Settlements Through Dialogical Practices

Scott Gerald Shall, Lawrence Technological University

**11:00am-12:30pm** PCA 171

PUBLIC HEALTH\_ Public Space YOUTH, WALKABILITY, AND CLIMATE RESILIENCE

Moderator: Traci Rider, North Carolina State University

Creating a Building for the Purpose of Helping Youths: An Instrumental Qualitative

**Case Study** 

Nima Meghdari, University of Minnesota

**Evaluation of Net Zero Energy Buildings for Climate Resilience in Southeast U.S.** 

Manan Singh, *University of Florida* Ryan Sharston, *University of Florida* 

**11:00am-12:30pm** PCA 150

**WORKSHOP\_Publishing with Routledge Press** 

Moderator: Alexandra Staub, Pennsylvania State University

Francesca Ford, Senior Publisher, Routledge Press Lydia Kessell, Editor, Taylor & Francis Group

This workshop will offer a presentation by Taylor & Francis describing the process for publishing a book with Routledge Press, from proposal submission to editorial assessment, peer review, contracts, timelines and manuscript delivery. Q&A session to follow.

12:30pm-1:00pm PCA 135 ARCC Annual Business Meeting

1:00pm-2:00pm Courtyard **Lunch** 

2:00pm-2:30pm Arcade / POSTER/PROJECT SESSION A

Coffee The Postwar Economy House in 1940s Florida

Vandana Baweja and Sarah Gurevitch, University of Florida

The ACP Project: Focus Groups, Interviews + Ethnographic Research

Andrew Chin, Florida A&M University

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## > Thursday, March 3, 2022

## Sensitivity Analysis and Multi-Objective Optimization of Skylight Design in the Early Design Stage

Yuan Fang, Western Kentucky University Le Fan, China Academy of Building Research Institute

#### **Modeling Healthfulness**

Ulysses Sean Vance, Temple University

## **2:30pm-4:00pm** PCA 165 CLIMATE\_ Mitigation + Adaptation

## HEAT ISLANDS, LAND-BASED INFRASTRUCTURES + EPIDEMIOLOGY

Moderator: Ahmed Ali, Texas A&M University

#### Urban Heat Island Phenomena in Dhaka, Bangladesh

Tasneem Tariq, *Pennsylvania State University*Ute Poerschke, *Pennsylvania State University*Lisa Domenica Iulo, *Pennsylvania State University* 

#### Water, Fire, Land, Air: Investigating Land-based Infrastructures

Jessica Rossi-Mastracci, University of Minnesota

# Architectural Epidemiology: A Multidisciplinary Method for Turning Small Scale Design Decisions into Large Scale Action on Climate & Chronic Disease

Adele Houghton, Harvard University

## **2:30pm-4:00pm** PCA 167 TECHNOLOGY\_ Digital Design + Practices

#### INFRASTRUCTURE, SMART CITY AND CROSSBRED URBANISM

Moderator: Ihab Elzeyadi, University of Oregon

# Strategies for Redesigning High Performance FRP Wind Blades as Future Electrical Infrastructure

Tristan Farris Al-Haddad, Georgia Institute of Technology
Ammar Alshannaq, Georgia Institute of Technology
Lawrence Bank, Georgia Institute of Technology
Mehmet Bermek, Georgia Institute of Technology
Russell Gentry, Georgia Institute of Technology
Yulizza Henao-Barragan, Georgia Institute of Technology
Sean Li, Georgia Institute of Technology
Alex Poff, Georgia Institute of Technology
John Respert, Georgia Institute of Technology
Colin Woodham, Georgia Institute of Technology

#### The Public and the Technocratic Smart City

Taraneh Meshkani, Kent State University

## Precedent and Influence: An Urban Design Studio Project

Dwaine Carver, University of Idaho

## **2:30pm-4:00pm** PCA 171 PUBLIC HEALTH\_ Human-Centered Design

## NATURAL VENTILATION, EXTERNAL SHADING AND HUMAN HEALTH

Moderator: Adil Sharag-Eldin, Kent State University

# The Impact of Efficient Natural Ventilation on the Indoor Environmental Air Quality: The Case of a Social Housing in Turkey

Ezgi Bay, University of Utah

Antonio Martinez-Molina, University of Texas at San Antonio

# Efficacy of External Shading Devices and Natural Ventilation during Extreme Heat for a Seattle Multi-family Apartment Unit

Teresa Fotini Moroseos, Integrated Design Lab, University of Washington Heather Burpee, Integrated Design Lab, University of Washington Christopher Meek, Integrated Design Lab, University of Washington

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## > Thursday, March 3, 2022

Modernity and Human Health: The Connection to Outdoor Air Elizabeth L. McCormick, *University of North Carolina at Charlotte* Traci Rider, *North Carolina State University* 

**2:30pm-4:00pm** PCA 150

#### **WORKSHOP** Writing for Architectural Journals

Moderator: Rahman Azari, Pennsylvania State University

Simi Hoque, Co-Editor in Chief, Journal of Green Building, Drexel University

Marci Uihlein, Executive Editor, Technology I Architecture + Design (TAD), University of Illinois

This workshop will provide guidance on writing for academic journals including structuring articles, evolving an argument, providing adequate literature support, and developing conclusions. Examples will be discussed and attendees will have the opportunity to solicit feedback on their work.

4:00pm-4:30pm Arcade /

Coffee

#### POSTER/PROJECT SESSION B

**Accessory Carbon Units** 

Robert Williams, University of Massachusetts Amherst

The Alternating Dock

Ana Tricarico Orosco, Louisiana State University

**Bio-Cities: Synthetic Biology and Architecture in Coastal Communities** 

Alfredo Andia, Florida International University

**Deployable Pod: A Case Study of Applied Transformable Design Research**Rachel Dickey and Noushin Radnia, *University of North Carolina at Charlotte* 

4:30pm-5:00pm

PCA 135 Plenary II > EQUITY

Topic Chairs: Elisa Silva and Gray Read, Florida International University

**5:00pm-6:00pm** PCA 135

**Keynote Address** 

JUSTICE AS SPACE AND PLACE: TOWARDS A NEW DESIGN VOCABULARY

**AND PRACTICE** 

Toni Griffin, Harvard University, Founder, urbanAC

6:00pm-7:00pm Terrace

(dinner on own)

> Friday, March 4, 2022

Time (EST) Location 8:30am-9:00am Courtyard Event/Session
Continental Breakfast

**9:00am-9:30am** PCA 135

Plenary III > TECHNOLOGY

Topic Chairs: Biayna Bogosian and Eric Peterson, Florida International University

Walk to Green Library, Reception + Exhibition Opening: Climates of Inequality

**9:30am-10:30am** PCA 135

Keynote Address

DISRUPTING CONCRETE CONSTRUCTION

Philippe Block, Co-Director, Block Research Group, ETH Zurich

**10:30am-11:00am** Arcade

Arcade / Coffee

#### POSTER/PROJECT SESSION C

Revisiting Modernist Mass-Housing: Residents as Active Agents of Change

Nadia Shah, Illinois Institute of Technology

**Towards a Zero Waste University Campus** 

Júlia Pokol, Budapest University of Technology and Economics

Personalizing Climate Change: Measuring and Adapting Sea Level Rise Perceptions Leonard Yui, Roger Williams University

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## > Friday, March 4, 2022

**11:00am-12:30pm** PCA 165

CLIMATE

Mitigation + Adaptation

#### CIRCULAR ECONOMY AND LIFE CYCLE CONSIDERATIONS

Moderator: Jori Erdman, James Madison University

Mapping of Research Lines on Circular Economy Practices in Cities: From Waste to

Infrastructure

Patricia Njideka Kio, Texas A&M University Ahmed Kamal Ali, Texas A&M University

Beyond Operational Energy Efficiency: A Balanced Sustainability Index from a Life Cycle Consideration

Ming Hu, University of Maryland

**11:00am-12:30pm** PCA 167 TECHNOLOGY

Materials + Digital Fabrication

SURFACE, STRUCTURE AND LIGHT: CNC TECHNOLOGIES AND KARAMBA3D

Moderator: Tristan Al-Haddad, Formations Studio, Georgia Institute of Technology

Building Surface Thermal Modulation: Applying Biomimicry and CNC Technologies for **Creating Textured Building Façades** 

Eiman Mohammad Graiz, University of Kansas Keith Van De Riet, University of Kansas

**Enabling Structural Resolution in Architectural Design Studio Using Karamba3D** 

Chengde Wu, Iowa State University

David Thaddeus, University of North Carolina at Charlotte Danielle Scaccia, University of North Carolina at Charlotte

Design Principles for Museum Daylight Systems Based on Nine Built Examples from Renzo Piano Building Workshop

Edgar Stach, Thomas Jefferson University Michael Esposito, Elementa Engineering

**11:00am-12:30pm** PCA 171 EQUITY

**Inclusive Urban Landscapes** 

MAPPING, MEMORY, AND SPACE OF THE BODY

Moderator: Taraneh Meshkani, Kent State University

**Indeterminate Space** 

Peter Wong, University of North Carolina at Charlotte

Drawing Memories: Mapping as Part of Oral History

Gray Read, Florida International University

Spatializing the Body: Feminist Practice as Architectural Research

Elizabeth Marie Cronin, University of Florida

11:00am-12:30pm PCA 150 CLIMATE

Coastal Cities + Interconnectivity

RESILIENT POST-DISASTER HOUSING AND HEALTH OUTCOMES

Moderator: Ezgi Bay, University of Utah

Advanced Modular Housing Design for Highly Efficient, Affordable, and Resilient Post-Disaster Housing

Forough Foroutan Jahromi, University of Florida Jeffrey Andrew Carney, University of Florida

A Proposed Evaluation Tool for the Resiliency of Post-disaster Housing: A Case Study of a Post-Earthquake and Tsunami Social Housing Development in the Coast of Southern Chile

Daniela Scheuermann, Universidad de Concepción

Andrea Soledad Martinez Arias, Universidad de Concepción

María Isabel Rivera, Researcher, Centre for Sustainable Urban Development (CEDEUS)

Access To Green Space in Neighborhoods Influence Health Outcomes for Different Racial and Income Groups: A Case Study Of California

Jiaying Dong, Clemson University Dina Battisto, Clemson University

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## > Friday, March 4, 2022

**11:00am-12:30pm** PCA 180 PUBLIC HEALTH\_Public Space

WALKABILITY: ANCHORS, ASSESSMENT AND ENGAGEMENT

**Moderator:** Christina Bollo, *University of Illinois Urbana-Champaign* 

Built Environment and Walking Behavior: A Systematic Review on Campus Walkability

Assessments

Gisou Salkhi Khasraghi, Texas Tech University

**Walking as Engagement** 

Sarah Gamble, University of Florida

12:30pm-1:00pm PCA 135 ARCC Annual Awards Program

1:00pm-2:00pm Courtyard **Lunch** 

2:00pm-2:30pm Arcade / POSTER/PROJECT SESSION D

Coffee The Side-Yard House Model: Creating

The Side-Yard House Model: Creating Green and Resilient Communities

Craig S. Griffen, Thomas Jefferson University

**Biomaterials: Explorations around Bacterial Cellulose** Mercedes Garcia Holguera, *University of Manitoba* 

Carbon-Positive, and Synthetic Biological Architecture Imaginations for Miami Greater

Islands 2021-2100

Thomas Spiegelhalter, Florida International University

**2:30pm-4:00pm** PCA 165 CLIMATE\_

Mitigation + Adaptation

SCHOOLS, HYBRID INFRASTRUCTURES AND SOCIAL SCORECARDS

Moderator: Niloufar Emami, University of Illinois at Urbana-Champaign

Observations of Thermal Comfort Conditions in Two Schools in Southern California and Nairobi, Kenya

David Mwale Ogoli, California Baptist University

Nature-Based and Hybrid Infrastructures to Build Resilient Cities through the Rivers: Two Case Studies in Addis Ababa (Ethiopia)

Ruben Garcia-Rubio, *Tulane University* Ryan Green, *Tulane University* Sonsoles Vela, *Tulane University* 

Social Scorecard: A Comprehensive Social Health Analysis Tool

Edgar Stach, Institute for Smart and Healthy Cities, Thomas Jefferson University Summer Koch, Institute for Smart and Healthy Cities, Thomas Jefferson University

**2:30pm-4:00pm** PCA 167 TECHNOLOGY\_ Materials + Digital Fabrication PRESERVATION, PERFORMANCE AND PROTOTYPE

Moderator: Elizabeth McCormick, University of North Carolina at Charlotte

Configurable Resiliency: Generating Sustainable Designs in Historic Neighborhoods Mahyar Hadighi, *Texas Tech University* 

**Evaluation of the Bioclimatic Building Performance in Hot Climate** 

Abdou Idris, *Université de Djibouti, Faculté d'Ingénieurs, CEALT/LME*Abdoulkader Ibrahim, *Université de Djibouti, Faculté d'Ingénieurs, CEALT/LME*Assabo Mohamed, *Université de Djibouti, Faculté d'Ingénieurs, CEALT/LME* 

Informing Early-Stage Building Energy Retrofit for Prototypical Public Schools in Chile

Andrea Soledad Martinez, *Universidad de Concepción* María Isabel Rivera, *Universidad de Concepción* 

Pablo Arriagada, Researcher, Centre for Sustainable Urban Development (CEDEUS)

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## > Friday, March 4, 2022

# **2:30pm-4:00pm** PCA 171 TECHNOLOGY

Digital Design + Practices

#### **VOC REDUCTION, INSULATION REFRESHED AND WALLBOARD MODULARITY**

Moderator: Adil Sharag-Eldin, Kent State University

#### An Air-Depolluting System for Indoor VOC Reduction

Ketki Bapat, University of North Carolina at Charlotte
Ok-Kyun Im, University of North Carolina at Charlotte
Chengde Wu, Iowa State University
Kyoung-Hee Kim, University of North Carolina at Charlotte

#### Modular Makeup: Reconsidering Modularity of Gypsum Wallboard

Alyssa Kuhns, Auburn University Jeff Kim, Auburn University

# **2:30pm-4:00pm** PCA 180 PUBLIC HEALTH

**Human-Centered Design** 

## **BIOPHILIC PERFORMANCE, HEALTHCARE AND HEALTH RESORTS**

Moderator: Adele Houghton, Harvard University

## Resilient Sites: Mapping K-12 Schools' Context Biophilic and Energy Performance

Ihab Elzeyadi, *University of Oregon* 

# 'Configurational' Accessibility of Healthcare Facilities in Dammam, Saudi Arabia: A Space Syntax Study

Ahmed Abdulaziz Alrashed, *Imam Abdulrahman Bin Faisal University* Saif Haq, *Texas Tech University* 

# Miami Solarium (1928) to the Sun Ray Health Resort: From a Hotel-Sanatorium to Hotel-Health-Resort-Spa

Vandana Baweja, *University of Florida* Sonny Russano, *University of Florida* 

## 2:30pm-4:00pm PCA 150

## **WORKSHOP\_NSF Grant Success Information**

Moderator: Chris Jarrett, University of North Carolina at Charlotte

Giovanna Biscontin and Daan Liang, *Program Director, Division of Civil, Mechanical & Manufacturing Innovation Division, National Science Foundation (NSF)* 

Shahin Vassigh, NSF Awardee, Florida International University

This workshop will offer presentations and discussion by NSF program director's and successful NSF awardee describing the process for securing an NSF grant, from communications with NSF Officers to qualifications, impact and proposal submission. Q&A session to follow.

# 4:00pm-4:30pm Arcade / Coffee

## POSTER/PROJECT SESSION E

Striving for a Common Goal: Coastal Resilience through Interdisciplinary Design

Jori Ann Erdman, *James Madison University* Tiffany Troxler, *Florida International University* 

#### Deploy 2.0

Ana Morcillo Pallares and Jonathan Rule, University of Michigan

## Tensegrity Knit Helix Tower Light Weight Deployable Structure

Virginia Melnyk, University of Michigan, Tongji University

## **Experiencing the Vortex**

Pari Riahi, Fey Thurber, Erica DeWitt, Cami Quinteros, Pieter Boersma, Adrian Carleton, Ali Sarvghad, Yahya Modarres-Sadeghi, *University of Massachusetts Amherst* 

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## > Friday, March 4, 2022

4:30pm-5:00pm PCA 135 Plenary IV: Public Health

Topic Chairs: Magda Mostafa and Newton D'souza, Florida International University

5:00pm-6:00pm PCA 135 Keynote Address

**COASTAL URBANISM** 

Susannah Drake, Founder, DLANDstudio

6:00pm-9:00pm Off-Site Reception + Dinner (bus transport)

> Saturday, March 5, 2022

Time (EST) Location Event/Session
8:30am-9:00am Courtyard Continental Breakfast

**9:00am-10:30am** PCA 165

PUBLIC HEALTH\_

**Human-Centered Design** 

COMMUNITY KNOWLEDGE, EQUITABLE DESIGN AND BIRTH SPACES

Moderator: Ana Tricarico Orosco, Florida A&M University

Data Dissonance: An Exploration of Community Knowledge of Extreme Temperature

Vulnerabilities

Nina Spellman, Northeastern University Michelle Laboy, Northeastern University

Impact of Climate Change in Houston TX: Resilient Residential Buildings and Equitable Design

Raffaella Montelli, *University of Houston* Mili Kyropoulou, *University of Houston* 

The Multi-level impacts of the Physical Environment on Childbirth Experience:

**A Critical Literature Review** 

Rafah Altaweli, *University of Cincinnati* Pravin Bhiwapurkar, *University of Cincinnati* 

**9:00am-10:30am** PCA 167

EQUITY\_

Cities + (Im)migration

**IMMIGRANT LANDSCAPES, SHIFTING IDENTITIES AND HEALTH EQUITY** 

Moderator: Peter Wong, University of North Carolina at Charlotte

Intercultural Suburbs: The Urban Design Alternatives of International Immigrants in

**Toronto's Modern Landscapes** 

Giacomo Valzania, McGill University

Creating the "Foreign" Place through "Windows": Shifting Urban Forms in Seattle's

Chinatown

Xiao Hu, University of Idaho

Exploring Health Equity and the Built Environment through the Social Determinants of

Health

Traci Rose Rider, North Carolina State University Victoria A. Lanteigne, North Carolina State University

Aaron Hipp, North Carolina State University Rosa McDonald, Baker Ingenuity Group

Kia Baker, North Carolina State University

**9:00am-10:30am** PCA 171

CLIMATE

Coastal Cities + Interconnectivity

WATERFRONT RESILIENCE, CARBON POSITIVE SCENARIOS AND THIRD SPACES

Moderator: Jessica Rossi-Mastracci, University of Minnesota

Resilience at the Water's Edge

Vera Parlac, New Jersey Institute of Technology

Climate Resilient Urban Nexus Choices for Carbon Positive and SynBio City Scenarios

from 2018 to 2100

Thomas Spiegelhalter, Florida International University

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## > Saturday, March 5, 2022

#### Spatial Appropriation During the Pandemic: Analysis of Two Parallel Cases

Carey Clouse, University of Massachusetts Amherst Caryn Brause, University of Massachusetts Amherst

#### **9:00am-10:30am** PCA 150

## WORKSHOP\_Developing an Architectural Research Agenda

Moderator: Hazem Rashed-Ali, Associate Dean for Research and Innovation, Texas Tech University

This workshop will discuss currently relevant areas of architectural research and address how to choose and develop an architectural research topic and frame research questions or hypotheses. Issues of funded research will also be covered including possible funding agencies and guidance on developing good research proposals.

10:30am-11:00am Courtyard

Coffee break

# **11:00am-12:30pm** PCA 165 CLIMATE

Mitigation + Adaptation

## GREEN SPACE, WALKABILITY AND AGILITY IN THE BUILT ENVIRONMENT

Moderator: Sarah Gamble, University of Florida

# Whose Heritage, Whose Investment, Whose Sustainability? Multi-actor Dynamics Around Green Space in Late-Modernist Residential Developments (Bordeaux, France)

J. Kent Fitzsimons, Laboratoire PAVE, École Nationale Supérieure d'Architecture et de Paysage de Bordeaux

Fanny Gerbeaud, Laboratoire PAVE, École Nationale Supérieure d'Architecture et de Paysage de Bordeaux

#### Walking Towards a Sustainable Future for Urban Design

Summer Stevens, University of Florida Nawari Nawari, University of Florida Michael Volk, University of Florida

#### Co-Design Strategies to Achieve Trust in Urban Living Lab: A Systematic Literature Review

Carla Brisotto, Florida Institute for Built Environment Resilience Jeffrey Andrew Carney, Florida Institute for Built Environment Resilience

## **11:00am-12:30pm** PCA 167 TECHNOLOGY\_ Materials + Digital Fabrication

#### MATTER. TOPOLOGY AND FABRICATION

Moderator: Rachel Dickey, University of North Carolina at Charlotte

#### Topology + Timber

Tsz Yan Ng, *University of Michigan* Wes McGee, *University of Michigan* 

#### Fabric Formed Poured Earth: Using Urban Site Soils in Fabric to Eliminate Portland Cement

Charlie O'Geen, Kendall College of Art and Design Catherine Page Harris, University of New Mexico

## Employing Topology Optimization for Establishing Design Variability in Precast Façade Panels

Niloufar Emami, University of Illinois at Urbana-Champaign

# **11:00am-12:30pm** PCA 171 CLIMATE\_

Mitigation + Adaptation

#### MODELING METHODS OF FACADES AND ROOFTOPS

Moderator: Chengde Wu, Iowa State University

## Building a Workflow to Model a Green Façade in a Graphical User Interface for EnergyPlus

Sydney Collin, Center for Building Energy Research, Iowa State University Ulrike Passe, Department of Architecture, Iowa State University

## An Interactive GIS-based Method to Map Feasible Roof Areas for PV Panels

Sedigheh Ghiasi, *Iowa State University* Ulrike Passe, *Iowa State University* Yuyu Zhou, *Iowa State University* 

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## > Saturday, March 5, 2022

#### **Rooftop Additions: An Alternative Model of Urban Growth**

Oliver Chamel, Florida A&M University Bernd Dahlgruen, Hafen City Universität Hamburg

Laurent Lescop, Ecole Nationale Superieure d'Architecture Nantes

## **11:00am-12:30pm** PCA 150 EQUITY\_ Cities + (Im)migration

#### PEDAGOGY, EQUITY AND SOCIAL JUSTICE

Moderator: Elizabeth Marie Cronin, University of Florida

#### **Inclusive Pedagogies in Theory Sequence Courses**

Larisa Sherbakova, Florida Agriculture and Mechanical University Shalya Thomas, Florida Agriculture and Mechanical University Amanda Grace, Florida Agriculture and Mechanical University Basma Binmahfooz, Florida Agriculture and Mechanical University

#### Discrimination and Design: Equity, Justice, and Architectural Education

J. Philip Gruen, Washington State University

## Critical Pedagogy and Public Interest Design: Transforming Architecture Design Education for Social Justice

Erika Zekos, University of Massachusetts Amherst

## **11:00am-12:30pm** PCA 180 DOCTORAL EDUCATION\_ Research + Design Doctorates

## **DOCTORAL RESIDENCY, EDUCATION AND DESIGN DISSERTATION**

Moderator: Oya Atalay, Zurich University of Applied Sciences

#### **Minimal Residency Doctoral Education**

Neil Leach, Florida International University

# A New DDes Program in Architecture at Florida International University focusing on Technology and Sustainability

Gray Read, Florida International University Biayna Bogosian, Florida International University Shahin Vassigh, Florida International University

# A Systematic Literature Review of Ph.D. in Design Dissertations: A Case Study at North Carolina State University

Jinoh Park, *North Carolina State University* Yeobeom Yoon, *North Carolina State University* Byungsoo Kim, *North Carolina State University* 

## 12:30pm-1:30pm Courtyard

## Lunch + Closing Plenary > RESILIENT CITY

Conference Co-Chairs, Marilys Nepomechie and Shahin Vassigh, Florida International University

## **Conference Closing**

Oya Atalay, EAAE President, Zurich University of Applied Sciences Chris Jarrett, ARCC President, University of North Carolina at Charlotte