

Resilient City: Physical, Social, and Economic Perspectives

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

| <i>Time (EST)</i> | <i>Location</i> | <i>Event/Session</i> |
|-------------------------------------|-----------------|---|
| 2:30pm-4:00pm | PCA 167 | PHD DOCTORAL WORKSHOP Moderator: Saif Haq, <i>Texas Tech University</i> |
| | | Computational Knitting for Performance and Transformation Virginia Melnyk, <i>University of Michigan</i> |
| | | Can Increasing Hand Hygiene Compliance Save Lives in Nursing Homes? Environmental Design's Impact on Compliance Hao Huang, <i>Texas A&M University</i> |
| | | The Role of Architecture in The Therapeutic Environment. The Case of The Maggie's Cancer Care Centre Caterina Frisone, <i>Oxford Brookes University</i> |
| 4:00pm-4:30pm | PCA 135 | Conference Welcome Brian Schriener, <i>Dean, CARTA, Florida International University</i> Henry Rueda Coronel, <i>Architecture</i> Roberto Rovira, <i>Landscape Architecture + Environmental and Urban Design</i> Newton D'souza, <i>Interior Architecture</i> Oya Atalay, <i>EAAE President, Zurich University of Applied Sciences</i> Chris Jarrett, <i>ARCC President, University of North Carolina at Charlotte</i> Marilyn Nepomechie and Shahin Vassigh, <i>Conference Co-Chairs, Florida International University</i> |
| 4:30pm-5:00pm | PCA 135 | Opening Plenary > RESILIENT CITY Conference Co-Chairs, Marilyn Nepomechie and Shahin Vassigh, <i>Florida International University</i> |
| 5:00pm-6:00pm | PCA 135 | Keynote Address MIAMI-DADE COUNTY: THE ROAD TO RESILIENCE James F. Murley, <i>Chief Resilience Officer, Miami-Dade County</i> |
| 6:00pm-7:00pm | Courtyard | Reception / Hors d'oeuvres (dinner on own) |
| > Thursday, March 3, 2022 | | |
| <i>Time (EST)</i> | <i>Location</i> | <i>Event/Session</i> |
| 8:30am-9:00am | Courtyard | Continental Breakfast |
| 9:00am-9:30am | PCA 135 | Plenary I > CLIMATE Topic Chairs, Jason Chandler and Roberto Rovira, <i>Florida International University</i> |
| 9:30am-10:30am | PCA 135 | Keynote Address ARCHITECTURE AFTER ARCHITECTURE: SPATIAL PRACTICE IN THE FACE OF THE CLIMATE EMERGENCY Jeremy Till, <i>Head, Central Saint Martins, Pro-Vice Chancellor, University of the Arts</i> |
| 10:30am-11:00am | Courtyard | Coffee break |
| 11:00am-12:30pm | PCA 165 | HOUSING, LIVE/WORK AND THERMAL COMFORT PREDICTION Moderator: Teresa Fotini Moroseos, <i>University of Washington</i> |
| CLIMATE_ Mitigation + Adaptation | | Existing Multifamily Building Stock Energy Use and Building Code Comparison Between the United States and Finland Ming Hu, <i>University of Maryland</i> |

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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 /

Coffee

POSTER/PROJECT SESSION A**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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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**Dwayne 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*Marc Uihlein, *Executive Editor, Technology | 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-4:30pmArcade /
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 > EQUITYTopic 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 PRACTICEToni Griffin, *Harvard University, Founder, urbanAC***6:00pm-7:00pm**

Terrace

Walk to Green Library, Reception + Exhibition Opening: *Climates of Inequality* (dinner on own)**> Friday, March 4, 2022***Time (EST)**Location**Event/Session*

8:30am-9:00am

Courtyard

Continental Breakfast

9:00am-9:30am

PCA 135

Plenary III > TECHNOLOGYTopic Chairs: Biayna Bogosian and Eric Peterson, *Florida International University***9:30am-10:30am**

PCA 135

Keynote Address

DISRUPTING CONCRETE CONSTRUCTIONPhilippe Block, *Co-Director, Block Research Group, ETH Zurich***10:30am-11:00am**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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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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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 /
Coffee

POSTER/PROJECT SESSION D**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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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, *University of Arkansas*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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| | | |
|----------------------|----------|---|
| 4:30pm-5:00pm | PCA 135 | Plenary IV: Public Health Topic Chairs: Magda Mostafa and Newton D'souza, <i>Florida International University</i> |
| 5:00pm-6:00pm | PCA 135 | Keynote Address COASTAL URBANISM Susannah Drake, <i>Founder, DLANDstudio</i> |
| 6:00pm-9:00pm | Off-Site | Reception + Dinner (bus transport) |

> Saturday, March 5, 2022

| <i>Time (EST)</i> | <i>Location</i> | <i>Event/Session</i> |
|-----------------------|-----------------|---|
| 8:30am-9:00am | Courtyard | Continental Breakfast |
| 9:00am-10:30am | PCA 165 | COMMUNITY KNOWLEDGE, EQUITABLE DESIGN AND BIRTH SPACES Moderator: Ana Tricarico Orosco, <i>Florida A&M University</i> |
| | | Data Dissonance: An Exploration of Community Knowledge of Extreme Temperature Vulnerabilities Nina Spellman, <i>Northeastern University</i> Michelle Laboy, <i>Northeastern University</i> |
| | | Impact of Climate Change in Houston TX: Resilient Residential Buildings and Equitable Design Raffaella Montelli, <i>University of Houston</i> Mili Kyropoulou, <i>University of Houston</i> |
| | | The Multi-level impacts of the Physical Environment on Childbirth Experience: A Critical Literature Review Rafah Altaweli, <i>University of Cincinnati</i> Pravin Bhiwapurkar, <i>University of Cincinnati</i> |
| 9:00am-10:30am | PCA 167 | IMMIGRANT LANDSCAPES, SHIFTING IDENTITIES AND HEALTH EQUITY Moderator: Peter Wong, <i>University of North Carolina at Charlotte</i> |
| | | Intercultural Suburbs: The Urban Design Alternatives of International Immigrants in Toronto's Modern Landscapes Giacomo Valzania, <i>McGill University</i> |
| | | Creating the "Foreign" Place through "Windows": Shifting Urban Forms in Seattle's Chinatown Xiao Hu, <i>University of Idaho</i> |
| | | Exploring Health Equity and the Built Environment through the Social Determinants of Health Traci Rose Rider, <i>North Carolina State University</i> Victoria A. Lanteigne, <i>North Carolina State University</i> Aaron Hipp, <i>North Carolina State University</i> Rosa McDonald, <i>Baker Ingenuity Group</i> Kia Baker, <i>North Carolina State University</i> |
| 9:00am-10:30am | PCA 171 | WATERFRONT RESILIENCE, CARBON POSITIVE SCENARIOS AND THIRD SPACES Moderator: Jessica Rossi-Mastracci, <i>University of Minnesota</i> |
| | | Resilience at the Water's Edge Vera Parlac, <i>New Jersey Institute of Technology</i> |
| | | Climate Resilient Urban Nexus Choices for Carbon Positive and SynBio City Scenarios from 2018 to 2100 Thomas Spiegelhalter, <i>Florida International University</i> |

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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 Dahlgren, *Hafen City Universität Hamburg*Laurent Lescop, *Ecole Nationale Supérieure 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*