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

Time (EST)          Location     Event/Session
2:30pm-4:00pm      PCA 167     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     Keynote Address
                       MIAMI-DADE COUNTY: THE ROAD TO RESILIENCE
                       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     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
> Thursday, March 3, 2022

11:00am-12:30pm   PCA 167
EQUITY_ REIMAGINED GROWTH AND INFORMAL URBANISMS
Inclusive Urban Landscapes

Moderator: Lyndsey Deaton, University of Oregon

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 171
PUBLIC HEALTH_ YOUTH, WALKABILITY, AND CLIMATE RESILIENCE
Public Space

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
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

**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

**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

**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
**Thursday, March 3, 2022**

**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 + Architecture (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.

**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*

**Friday, March 4, 2022**

**Plenary III > TECHNOLOGY**

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

**Keynote Address**

- **DISRUPTING CONCRETE CONSTRUCTION**
  Philippe Block, Co-Director, *Block Research Group, ETH Zurich*

**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*
> Friday, March 4, 2022

11:00am-12:30pm  PCA 165  CIRCULAR ECONOMY AND LIFE CYCLE CONSIDERATIONS
CLIMATE_  Mitigation + Adaptation
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  SURFACE, STRUCTURE AND LIGHT: CNC TECHNOLOGIES AND KARAMBA3D
TECHNOLOGY_  Materials + Digital Fabrication
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  MAPPING, MEMORY, AND SPACE OF THE BODY
EQUITY_  Inclusive Urban Landscapes
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  RESILIEN POST-DISASTER HOUSING AND HEALTH OUTCOMES
CLIMATE_  Coastal Cities + Interconnectivity
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
> 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 / 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  
PRESEERVATION, 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)
### Friday, March 4, 2022

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<th>Session</th>
<th>Moderator/Presenter</th>
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<tbody>
<tr>
<td>2:30pm-4:00pm</td>
<td>PCA 171</td>
<td><strong>VOC REDUCTION, INSULATION REFRESHED AND WALLBOARD MODULARITY</strong></td>
<td><strong>Moderator:</strong> Adil Sharag-Eldin, <em>Kent State University</em></td>
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<td><strong>An Air-Depolluting System for Indoor VOC Reduction</strong></td>
<td>Ketki Bapat, <em>University of North Carolina at Charlotte</em></td>
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<td><strong>Ok-Kyun Im, University of North Carolina at Charlotte</strong></td>
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<td><strong>Chengde Wu, Iowa State University</strong></td>
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<td><strong>Kyoung-Hee Kim, University of North Carolina at Charlotte</strong></td>
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<td><strong>Modular Makeup: Reconsidering Modularity of Gypsum Wallboard</strong></td>
<td><strong>Alyssa Kuhns, University of Arkansas</strong></td>
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<td><strong>Jeff Kim, Auburn University</strong></td>
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<tr>
<td>2:30pm-4:00pm</td>
<td>PCA 180</td>
<td><strong>BIOPHILIC PERFORMANCE, HEALTHCARE AND HEALTH RESORTS</strong></td>
<td><strong>Moderator:</strong> Adele Houghton, <em>Harvard University</em></td>
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<td><strong>Resilient Sites: Mapping K-12 Schools’ Context Biophilic and Energy Performance</strong></td>
<td>Ihab Elzeayadi, <em>University of Oregon</em></td>
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<td><strong>‘Configurational’ Accessibility of Healthcare Facilities in Dammam, Saudi Arabia: A Space Syntax Study</strong></td>
<td>Ahmed Abdulaziz Alrashed, <em>Imam Abdulrahman Bin Faisal University</em></td>
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<td><strong>Saif Haq, Texas Tech University</strong></td>
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<td><strong>Miami Solarium (1928) to the Sun Ray Health Resort: From a Hotel-Sanatorium to Hotel-Health-Resort-Spa</strong></td>
<td><strong>Vandana Baweja, University of Florida</strong></td>
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<td><strong>Sonny Russano, University of Florida</strong></td>
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<td>2:30pm-4:00pm</td>
<td>PCA 150</td>
<td><strong>WORKSHOP: NSF Grant Success Information</strong></td>
<td><strong>Moderator:</strong> Chris Jarrett, <em>University of North Carolina at Charlotte</em></td>
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<td><strong>Giovanna Biscontin and Daan Liang, Program Director, Division of Civil, Mechanical &amp; Manufacturing Innovation Division, National Science Foundation (NSF)</strong></td>
<td>Shahin Vassigh, <em>NSF Awardee, Florida International University</em></td>
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<td><strong>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&amp;A session to follow.</strong></td>
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<td>4:00pm-4:30pm</td>
<td>Arcade</td>
<td><strong>POSTER/PROJECT SESSION E</strong></td>
<td><strong>Striving for a Common Goal: Coastal Resilience through Interdisciplinary Design</strong></td>
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<td>/ Coffee</td>
<td><strong>Jori Ann Erdman, James Madison University</strong></td>
<td><strong>Tiffany Troxler, Florida International University</strong></td>
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<td><strong>Deploy 2.0</strong></td>
<td><strong>Ana Morcillo Pallares and Jonathan Rule, University of Michigan</strong></td>
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<td><strong>Tensegrity Knit Helix Tower Light Weight Deployable Structure</strong></td>
<td><strong>Virginia Melnyk, University of Michigan, Tongji University</strong></td>
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<td><strong>Experiencing the Vortex</strong></td>
<td><strong>Pari Riahi, Fey Thurber, Erica DeWitt, Cami Quinteros, Pieter Boersma, Adrian Carleton, Ali Sarvghad, Yahya Modarres-Sadeghi, University of Massachusetts Amherst</strong></td>
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### Friday, March 4, 2022

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<tr>
<td>4:30pm-5:00pm</td>
<td>PCA 135</td>
<td>Plenary IV: Public Health&lt;br&gt;Topic Chairs: Magda Mostafa and Newton D’souza, Florida International University</td>
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<tr>
<td>5:00pm-6:00pm</td>
<td>PCA 135</td>
<td>Keynote Address&lt;br&gt;COASTAL URBANISM&lt;br&gt;Susannah Drake, Founder, DLANDstudio</td>
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<td>6:00pm-9:00pm</td>
<td>Off-Site</td>
<td>Reception + Dinner (bus transport)</td>
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### Saturday, March 5, 2022

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