March 2-5, 2022 I Miami, FL I Florida International University

## ARCC-EAAE 2022\_Conference Schedule

March 2-5, 2022

> Wednesday, M	larch 2, 2022	
Time (EST) <b>2:30pm-4:00pm</b>	<i>Location</i> PCA 175	Event/Session PHD DOCTORAL WORKSHOP 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	<b>Conference Welcome</b> Brian Schriner, <i>Dean, CARTA, Florida International University</i> Oya Atalay, <i>EAAE President, Zurich University of Applied</i> Sciences (remote) Chris Jarrett, <i>ARCC President, University of North Carolina at Charlotte</i> Marilys Nepomechie and Shahin Vassigh, <i>Conference Co-Chairs, Florida International University</i>
4:30pm-5:00pm	PCA 135	<b>Opening Plenary &gt; RESILIENT CITY</b> Conference Co-Chairs, Marilys Nepomechie and Shahin Vassigh, <i>Florida International University</i>
5:00pm-6:00pm	PCA 135	Keynote Address BUILDING RESILIENCE FOR ALL COMMUNITIES Daniella Levine Cava, Mayor of Miami-Dade County
6:00pm-7:00pm	Courtyard	Reception / Hors d'oeuvres (dinner on own)
> Thursday, Mar	ch 3 2022	
<i>Time (EST)</i> 8:30am-9:00am	Location Courtyard	Event/Session 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 CLIMATE IMPACT ON ARCHITECTURAL EDUCATION + PRACTICE Jeremy Till, Head, Central Saint Martins, Pro-Vice Chancellor, University of the Arts
11:00am-12:30pm CLIMATE_	PCA 175	HOUSING, LIVE/WORK AND THERMAL COMFORT PREDICTION Moderator:
Mitigation + Adaptation		Existing Multifamily Building Stock Energy Use and Building Code Comparison Between the United States and Finland Ming Hu, University of Maryland
		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

<b>11:00am-12:30pm</b> PCA 171 TECHNOLOGY_ Materials + Digital Fabrication	<ul> <li>WEARABLE DEVICES, MACHINE LEARNING AND CLIMATE RESILIENCE Moderator:</li> <li>Evaluating the Circadian-Effectiveness of Light through Personal Light Exposure Measurement: An Initial Test Using a Low-Cost and Wearable Spectrometer in Home-Office Armin Amirazar, University of North Carolina at Charlotte Mona Azarbayjani, University of North Carolina at Charlotte Maziyar Molavi, Raja University Mona Azarbayjani, University of North Carolina at Charlotte Maziyar Molavi, Raja University</li> <li>Approaches to Affordable Housing Design Using VAE and Space Syntax: Case Studies from Los Angeles Junyoung Myung, University of Illinois at Urbana-Champaign Taegyu Lee, Seoul National University Jungyum Choi, Seoul National University</li> <li>Evaluation of Net Zero Energy Buildings for Climate Resilience in Southeast U.S. Manan Singh, University of Florida Ryan Sharston, University of Florida</li> </ul>
<b>11:00am-12:30pm</b> PCA 167 EQUITY_ Inclusive Urban Landscapes	REIMAGINED GROWTH AND INFORMAL URBANISMS         Moderator:         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
<b>11:00am-12:30pm</b> PCA 168 CLIMATE_ Coastal Cities + Interconnectivity	RESILIENT DESIGN AND CLIMATE CENTERED PEDAGOGYModerator:Integrating Biophilic, Net-Positive, and Resilient Design: A Framework for Architectural Education Mary Margaret Guzowski, University of MinnesotaDesign for Change: Climate Centered Pedagogy in the Architecture Studio Gabriel Kaprielian, Temple University (remote) Alex Hirsig, California Polytechnic State UniversityCreating a Building for the Purpose of Helping Youths: An Instrumental Qualitative Case Study Mima Meghdari, University of Minnesota
<b>11:00am-12:30pm</b> PCA 180 PUBLIC HEALTH_ Public Space	<ul> <li>HEALTH FACTORS, WALKABILITY ASSESSMENT AND ACCESSIBILITY Moderator:</li> <li>Trends and Correlates of Neighborhood Park Access in Philadelphia Tiara Halstead, Thomas Jefferson University Russell McIntire, Thomas Jefferson University</li> <li>Built Environment and Walking Behavior: A Systematic Review on Campus Walkability Assessments Gisou Salkhi Khasraghi, Texas Tech University</li> <li>The Neighborhood Accessibility Framework: A Methodological Instrument to Assess Neighborhood-Level Determinants That Affect the Health of Urban Residents Hitakshi Sehgal, University of Minnesota</li> </ul>

## ARCC-EAAE 2022 International Conference

**Resilient City: Physical, Social, and Economic Perspectives** 

March 2-5, 2022 I Miami, FL I Florida International University

11:00am-12:30pm	PCA 341	WORKSHOP_Publishing with Routledge Press
12:30pm-2:00pm	Courtyard	Lunch / ARCC Annual Business Meeting
2:00pm-2:30pm	Arcade / Coffee	POSTER/PROJECT SESSION A Carbon-Positive, and Synthetic Biological Architecture Imaginations for Miami Greater Islands 2021-2100 Thomas Spiegelhalter, Florida International University
		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
		The Future of Food Production: Urban Farming Towards Food Self-Sufficiency Camilo Cerro, American University of Sharjah
		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 Vance, Temple University
		<b>Design for Youth: Research in the Design Studio</b> Julia W. Robinson, <i>University of Minnesota</i>
<b>2:30pm-4:00pm</b> CLIMATE_	PCA 175	HEAT ISLANDS AND LAND-BASED INFRASTRUCTURES Moderator:
Mitigation + Adaptat	on	Understanding Efficient Mitigation Strategies for Los Angeles' Heat Islands using OLS Regression Analysis Olivia Vander Poel Lewis, <i>CallisonRTKL</i> Pablo La Roche, <i>CallisonRTKL</i> Joey-Michelle Hutchison, <i>CallisonRTKL</i> Arianne Ponce, <i>CallisonRTKL</i>
		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
<b>2:30pm-4:00pm</b> TECHNOLOGY_ Materials + Digital Fa	PCA 171	SPATIAL PERFORMANCE, VISUAL ANALYSIS AND INDETERMINANCY Moderator:
materiais + Digitai Fa	unacation	Evaluation of Spatial Performance in Vertically Integrated Developments Using a Network Science-Based Approach Srilalitha Gopalakrishnan, Singapore University of Technology and Design Chirag Hablani, Singapore University of Technology and Design Daniel Kin Heng Wong, Singapore University of Technology and Design Benny Chin, Singapore University of Technology and Design Srikanth Anjanaa Devi, Singapore University of Technology and Design Ajaykumar Manivannan, University of Ottawa Roland Bouffanais, University of Ottawa

Thomas Schroepfer, University of Ottawa

		Viewal Data Based Cratial Analysis of Built Environments
		Visual Data-Based Spatial Analysis of Built Environments
		Daniel Kin Heng Wong, Singapore University of Technology and Design
		Chirag Hablani, Singapore University of Technology and Design
		Thomas Schroepfer, Singapore University of Technology and Design
		Indeterminate Space
		Peter Wong, University of North Carolina at Charlotte
		recer wong, onwersity of North Carolina at Charlotte
2:30pm-4:00pm	PCA 167	BICYCLING, WALKING AND COMMUNITY ENGAGEMENT PRACTICES
EQUITY	10/10/	Moderator:
Inclusive Urban Lan	Idscanes	
	lascapes	Adaptive Streets: Increasing Social and Ecological Resilience Along a Cross-City
		Bicycle Boulevard
		Courtney Crosson, University of Arizona
		Walking as Engagement
		Sarah Gamble, University of Florida
		Neighborhood Design with Community Engagement
		Julia Robinson, University of Minnesota
		Timothy Griffin, University of Minnesota
		Jamil, Ford, Moblilize Design & Architecture
		Cathy Spann, Jordan Area Community Council
		Brandon Champeau, United Properties Developers
2:30pm-4:00pm	PCA 168	INFRASTRUCTURE, ROBOTICS AND THE SMART CITY
TECHNOLOGY_		Moderator:
Digital Design + Pra	ctices	
		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
		Rebellion, Robotics, and a Radical Reboot: Emergent Processes in Turbulent Times
		Couzens, Dustin, Modern Office of Design + Architecture (MODA)
		Sinclair, Brian Robert, University of Calgary + sinclairstudio inc.
		Klumper, Ben, Modern Office of Design + Architecture (MODA)
		The Public and the Technocratic Smart City
		Taraneh Meshkani, Kent State University
2:30pm-4:00pm	PCA 180	NATURAL VENTILATION, EXTERNAL SHADING AND HUMAN HEALTH
PUBLIC HEALTH_		Moderator:
Human-Centered D	esign	
		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 Burnee, Integrated Design Lab, University of Washington

Heather Burpee, Integrated Design Lab, University of Washington Christopher Meek, Integrated Design Lab, University of Washington

		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 341	WORKSHOP_Writing for Architectural Journals
4:00pm-4:30pm	Arcade /	POSTER/PROJECT SESSION B
	Coffee	RIVERGAN: Fluvial Landforms Generation Based on Physical Simulations and
		<b>Generative Adversarial Network</b> Xun Liu <i>, University of Virginia</i> and Runjia Tian, <i>Harvard University</i>
		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
		Considering Health + Wellness Beyond Convention: Spirituality, Space and the
		Critical Case of Sufism
		Nooshin Esmaeili and Brian R. Sinclair, University of Calgary + sinclairstudio inc.
		Indigeneity, Imagination, Equity + Design: Ethical Space and Complementary Ways of
		Knowing Drive D. Siechie University of Colonary a single instantia inc
		Brian R. Sinclair, University of Calgary + sinclairstudio inc.
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
		SOCIAL JUSTICE URBAN FRAMEWORKS
		Toni Griffin, Harvard University, Founder, urbanAC
6:00pm-7:00pm	Terrace	Reception + Exhibition Opening: Climates of Inequality, Green Library
		(dinner on own)
> Friday, March	4, 2022	
Time	Location	Event/Session
8:30am-9:00am	Courtyard	Continental Breakfast
9:00am-9:30am	PCA 135	Plenary III > TECHNOLOGY
		Topic Chairs: Biayna Bogosian and Eric Peterson, Florida International University
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 /	POSTER/PROJECT SESSION C
	Coffee	Building in the Digital Transformation: Translations from Design to Technological-enabled
		Demountable Building Sore Coderin, Karl Daubreann, Emily Kutil, Kristen Dean, Jawreann Technologiad University
		Sara Codarin, Karl Daubmann, Emily Kutil, Kristen Dean, Lawrence Technological University
		Rights, Sagacity + The Devil's Crop: Provocations in an Ethos of Design, Dissolution + Disarray

Brian R. Sinclair, University of Calgary + sinclairstudio inc.

	Revisiting Modernist Mass-Housing: Residents as Active Agents of Change Nadia Shah, Illinois Institute of Technology
	<b>Towards a Zero Waste University Campus</b> Júlia Pokol, <i>Budapest University of Technology and Economics</i>
	VR Gestural Modeling to Recapture the Human Body in Design Sara Codarin and Karl Daubmann, Lawrence Technological University
	Personalizing Climate Change: Measuring and Adapting Sea Level Rise Perceptions Leonard Yui, Roger Williams University
11:00am-12:30pm PCA 175 CLIMATE_ Mitigation - Adaptation	CIRCULAR ECONOMY AND LIFE CYCLE CONSIDERATIONS Moderator:
Mitigation + Adaptation	Mapping of Research Lines on Circular Economy Practices in Cities: From Waste to Infrastructure Patricia Njideka Kio, <i>Texas A&amp;M University</i>
	Ahmed Kamal Ali, Texas A&M University
	Nature-based Solutions and Circular Economy: Structuring a Long-Term Project for a Climate Resilient Design Kevin Santus, Politecnico of Milan
	Beyond Operational Energy Efficiency: A Balanced Sustainability Index from a Life Cycle Consideration Ming Hu, University of Maryland
<b>11:00am-12:30pm</b> PCA 171 TECHNOLOGY_ Materials + Digital Fabrication	CNC TECHNOLOGIES, KARAMABA3D AND IOT PEDAGOGICAL TOOLS Moderator:
	<b>Building Surface Thermal Modulation: Applying Biomimicry and CNC Technologies for</b> <b>Creating Textured Building Façades</b> Eiman Mohammad Graiz, <i>University of Kansas</i> Keith Van De Riet, <i>University of Kansas</i>
	Enabling Structural Resolution in Architectural Design Studio Using Karamba3D
	Chengde Wu, <i>Iowa State University</i> David Thaddeus, <i>University of North Carolina at Charlotte</i>
	Danielle Scaccia, University of North Carolina at Charlotte
	Building with Air: The Internet of Things (IoT) as a Pedagogical Tool for Design-Build Education Nate Shigeo Imai, <i>Texas Tech University</i>
<b>11:00am-12:30pm</b> PCA 167 EQUITY	MAPPING, MEMORY, PRECEDENT AND TEACHING METHODOLOGIES Moderator:
Inclusive Urban Landscapes	Domestic Spaces in the COVID-2019 Pandemic Times: Perspective of Six Female Architecture Students from the Midwest USA Mania Tahsina Taher, University of Wisconsin-MIlwaukee
	Drawing Memories: Mapping as Part of Oral History Gray Read, Florida International University
	Precedent and Influence: An Urban Design Studio Project Dwaine Carver, University of Idaho

**RESILIENCE, MODULARITY AND POST-DISASTER HOUSING 11:00am-12:30pm** PCA 168 Moderator: CLIMATE Coastal Cities + Interconnectivity Light Timber Construction for Affordable, Sustainable Disaster Resilience George Elvin, North Carolina State University 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) ANCHORS. PUBLIC SPACE AND RESILIENT SPATIAL NETWORKS 11:00am-12:30pm PCA 180 PUBLIC HEALTH Moderator: **Public Space** Exploring the Walkability in a Hospital-Anchored Neighborhood: A Case Study of **Emory University Hospital Midtown Campus** Xiaowei Li. Clemson University Dina Battisto, Clemson University Public Restrooms: A Site of Cultural Conflict Edward Steinfeld, University at Buffalo, SUNY Adam Thibodeaux, University at Buffalo, SUNY Shira Gabriel Klaiman, University at Buffalo, SUNY Connect or Adapt: Analytic Framework for the Planning and Design of Resilient Spatial Networks Daniel Kin Heng Wong, Singapore University of Technology and Design Wei Chien Benny Chin, Singapore University of Technology and Design Roland Bouffanais, University of Ottawa Thomas Schroepfer, University of Ottawa 11:00am-12:30pm PCA 341 WORKSHOP\_Spatial Equity and Inclusiveness in Research and Practice Lunch / ARCC Annual Awards Program 12:30pm-2:00pm Courtyard 2:00pm-2:30pm Arcade / **POSTER/PROJECT SESSION D** Coffee The Side-Yard House Model: Creating Green and Resilient Communities Craig S. Griffen, Thomas Jefferson University Complexity Science-based Analysis Of Sustainable Integrated Urban Districts Anjanaa Devi Srikanth, Chirag Hablani, Benny Chin, Thomas Schroepfer, Singapore University of Technology and Design **Biomaterials: Explorations around Bacterial Cellulose** Mercedes Garcia Holguera, University of Manitoba The Scalability of Urban Agriculture: Chicago Case Studies Kristin Jones, Illinois Institute of Technology Web Model Dot Space: Embody the Archive Aaron M. Jones, Lawrence Technological University The Renewal Design of Dong Timber Dwelling Based on Tas Software: The Case Study of Gaobu Xiaoyun Liu, Politecnico di Milano Postcards from the Future: Climate Fiction as Architecture Pedagogy Gabrie Ikaprielian, Temple University

<b>2:30pm-4:00pm</b> CLIMATE_	PCA 175	HUMAN PERCEPTION, THERMAL COMFORT AND HYBRID INFRASTRUCTURES Moderator:
Mitigation + Adapta	ition	Exploring the Role of Human Perception: A Comparative Analysis of Human Thermal Comfort and Urban Design Parameters Naveed Mazhar, Northern Alberta Institute of Technology (NAIT) Enrica Dall'Ara, University of Calgary Brian R. Sinclair, University of Calgary
		<b>Observations of Thermal Comfort Conditions in Two Schools in Southern</b> <b>California and Nairobi, Kenya</b> David Mwale Ogoli, <i>California Baptist University</i>
		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
2:30pm-4:00pm TECHNOLOGY_ Matorials + Digital F	PCA 171	PRESERVATION, PERFORMANCE AND PROTOTYPE Moderator:
Materials + Digital F	adrication	Configurable Resiliency: Generating Sustainable Designs in Historic Neighborhoods Mahyar Hadighi, Texas Tech University
		<b>Evaluation of the Bioclimatic Building Performance in Hot Climate</b> Abdou Idris, <i>Université de Djibouti, Faculté d'Ingénieurs, CEALT/LME</i> Abdoulkader Ibrahim, <i>Université de Djibouti, Faculté d'Ingénieurs, CEALT/LME</i> Assabo Mohamed, <i>Université de Djibouti, Faculté d'Ingénieurs, CEALT/LME</i>
		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)
<b>2:30pm-4:00pm</b> EQUITY_	PCA 167	SOCIAL HEALTH, EQUITY AND ACCESS Moderator:
Inclusive Urban Lan	dscapes	Social Scorecard: A Comprehensive Social Health Analysis Tool Edgar Stach, Institute for Smart and Healthy Cities, Jefferson University Summer Koch, Institute for Smart and Healthy Cities, Jefferson University
		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
		Disparities in Green Space Accessibility and Health Outcomes in Urban Areas for Different Racial and Income Groups: A Case Study of California Jiaying Dong, Clemson University Dina Battisto, Clemson University
<b>2:30pm-4:00pm</b> TECHNOLOGY_ Digital Design + Pra	PCA 168 ctices	VOC REDUCTION, INSULATION REFRESHED AND WALLBOARD MODULARITY Moderator: 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

ARCC-EAAE 2022 International Confe Resilient City: Physical, Soc March 2-5, 2022   Miami, FL   Flori	ial, and Economic Perspectives
	<b>Exploring Low-cost Acoustic Panels with Origami Patterns for Classrooms</b> Julio C. Diarte, <i>Pennsylvania State University</i> Elena M. Vazquez, Universidad Nacional de Asuncion
	Modular Makeup: Reconsidering Modularity of Gypsum Wallboard Alyssa Kuhns, Auburn University Jeff Kim, Auburn University
<b>2:30pm-4:00pm</b> PCA 180 PUBLIC HEALTH_ Public Space	BIOPHILIC PERFORMANCE, HEALTHCARE AND HEALTH RESORTS Moderator:
	Resilient Sites: Mapping K-12 Schools' Context Biophilic and Energy Performance Ihab Elzeyadi, University of Oregon
	<b>'Configurational' Accessibility of Healthcare Facilities in Dammam, Saudi Arabia: A Space Syntax Study</b> Ahmed Abdulaziz Alrashed, <i>Imam Abdulrahman Bin Faisal University</i> Saif Haq, <i>Texas Tech University</i>
	<b>Miami Solarium (1928) to the Sun Ray Health Resort: From a Hotel-Sanatorium to Hotel- Health-Resort-Spa</b> Vandana Baweja, <i>University of Florida</i> Sonny Russano, <i>University of Florida</i>
2:30pm-4:00pm PCA 341 PUBLIC HEALTH_	WELL-BEING, NEIGHBORHOOD ANCHORS AND GLOBAL CITIZENSHIP Moderator:
Human-Centered Design	Designing for Wellbeing: The Role of Architecture in Addressing Social Equity in Response to COVID-19 Ebtehal Bahnasy, University of Minnesota
	Exploring the Walkability in a Hospital-Anchored Neighborhood: A Case Study of Emory University Hospital Midtown Campus Xiaowei Li, Clemson University Dina Battisto, Clemson University
	Jiayang Dong, Clemson University Critical Explorations of Architecture Education in a Rapidly Changing World:
	Cross-Cultural Considerations of the Double-Edged Sword of Professional Competency and Global Citizenship Brian R. Sinclair, University of Calgary and + sinclairstudio inc. Raffaello Furlan, Qatar University
4:00pm-4:30pm Arcade /	POSTER/PROJECT SESSION E
Coffee	Striving for a Common Goal: Coastal Resilience through Interdisciplinary Design Jori Ann Erdman, James Madison University Tiffany Troxler, Florida International University
	Amphibian Typologies and The Urban Imaginary Mona El Khafif and Darcy Engle, University of Virginia
	<b>Deploy 2.0</b> Ana Morcillo Pallares and Jonathan Rule, <i>University of Michigan</i>
	Shine A Light: People + Plant Conservatory Aaron M Jones, Lawrence Technological University
	Assessing Architectural Design Factors of Maternity Ward that Influence Quality of Health Care and Patient Outcomes at Queen Elizabeth Central Hospital in Blantyre, Malawi Chris Harnish, Meghan Gannon, Kayla Holston, Stephanie Catrambone, Thomas Jefferson University Luis Gadama and Zayithwa Fabiano, Kamuzu University of Health Sciences

## **Resilient City: Physical, Social, and Economic Perspectives** March 2-5, 2022 | Miami, FL | Florida International University Equitable Access to Building Construction Through Advancements in Open and Global **Building Machine Technology** Elizabeth Andrzejewski, Marcus Shaffer, Esther Obonyo, Pennsylvania State University **Plenary IV: Public Health** 4:30pm-5:00pm PCA 135 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 Reception / Hors d'oeuvres + Group Dinner Courtyard > Saturday, March 5, 2022 Time Location Event/Session 8:30am-9:00am Courtyard **Continental Breakfast RETROFIT, COMMUNITY KNOWLEDGE AND EQUITABLE DESIGN** 9:00am-10:30am PCA 175 Moderator: CLIMATE Mitigation + Adaptation From Cold War to Global Warming: Dilemma's in Retrofitting the Modernist University Campus in Latin America. Case study: Escuela Politécnica Nacional (EPN) in Quito, Ecuador Victor Hugo Molina, Delft University of Technology and Universidad Técnica de Ambato 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 CARTOGRAPHY, BIOCLIMATICS AND URBAN GROWTH 9:00am-10:30am PCA 171 TECHNOLOGY Moderator: **Digital Design + Practices** Metropolitan Cartography: An Inventive Practice Tool for Caring Metropolitan Landscapes Antonella Contin, Politecnico di Milano Valentina Galiulo, Politecnico di Milano Domingo Sánchez Fuentes, Escuela Técnica Superior de Arquitectura de Sevilla MODE\_Bios: A Bioclimatic, Adaptive, Urban Design Tool Polyxeni Mantzou, Democritus University of Thrace Anastasios Floros, Democritus University of Thrace 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 9:00am-10:30am PCA 167 **IMMIGRANT LANDSCAPES AND MISSISSIPPI SMALL TOWNS** Moderator: EQUITY Cities + (Im)migration 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

(01/29/22)

**ARCC-EAAE 2022 International Conference** 

Xiao Hu, University of Idaho

Chinatown

		Housing Insecurity and Latinx Community Resilience in Small Towns in Mississippi Lopez Barrera, Silvina, <i>Mississippi State University</i> Thompson, Diego, <i>Mississippi State University</i>
9:00am-10:30am CLIMATE_	PCA 168	WATERFRONT RESILIENCE AND CARBON POSITIVE SCENARIOS Moderator:
Coastal Cities + Inter	connectivity	Water Resilience. Mapping and Active Borders as Instruments for Climate-Resilient Waterfront Design Strategies Elena Verzella, University of Ferrara
		<b>Resilience at the Water's Edge</b> 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, Florida International University
<b>9:00am-10:30am</b> PUBLIC HEALTH_	PCA 180	SPATIAL APPROPRIATION, POLLUTION ASSESSMENT AND EPIDEMIOLOGY Moderator:
Public Space		Spatial Appropriation During the Pandemic: Analysis of Two Parallel Cases Carey Clouse, University of Massachusetts Amherst Caryn Brause, University of Massachusetts Amherst
		Mapping Blindspots in Urban Atmospheric Pollution Assessment in the US-Mexico Borderland Stephen Mueller, <i>Texas Tech University</i>
		Architectural Epidemiology: Introducing a Transdisciplinary Field of Study and Practice Using Real Estate as a Mechanism for Epidemiological Interventions on Climate Change & Chronic Disease Adele Houghton, <i>Biositu and T.H. Chan School of Public Health, Harvard University</i>
		Carlos Castillo-Salgado, Bloomberg School of Public Health, Johns Hopkins University
9:00am-10:30am PCA 140 DOCTORAL EDUCATION_ Research + Design Doctorates		RESILIENCE, DAYLIGHT AND THE SPACE OF THE BODY Moderator:
		Through the Eyes of The Public: The Promotion of Social Rental Housing (SRH) as a Focal Point in Addressing Housing Resilience Chika Chioma Daniels-Akunekwe, University of Calgary Brian R. Sinclair, University of Calgary and + sinclairstudio inc.
		Design Principles for Museum Daylight Systems Based on Nine Built Examples from Renzo Piano Building Workshop Edgar Stach, Jefferson University Esposito, Michael, Elementa Engineering
		Spatializing the Body: Feminist Practice as Architectural Research Elizabeth Marie Cronin, University of Florida
9:00am-10:30am	PCA 341	WORKSHOP_Developing an Architectural Research Agenda
10:30am-11:00am	Arcade / Coffee	POSTER/PROECT SESSION F Tensegrity Knit Helix Tower Light Weight Deployable Structure Virginia Melnyk, University of Michigan, Tongji University
		Re-Commissioning Land. Spatial And Temporal Urban Strategies For Coastal Territories Mona El Khafif and Ali Fard, University of Virginia
		The strange sources of Brazil's modern architecture: The Neocolonial style in the Centennial Exposition (1922)

Camila Miranda Feltrin and Maria Teresa Dias da Fonseca, FAUP (Portugal)

March 2-5, 2022 | Miami, FL | Florida International University

	Austin, Texas: A Study in Gentrification and The Need for Affordable and Resource Efficient Housing Michael Garrison, The University of Texas at Austin
	<b>Experiencing the Vortex</b> Pari Riahi, Fey Thurber, Erica DeWitt, Cami Quinteors, Pieter Boersma, Adrian Carleton, Ali Sarvghad, Yahya Modarres-Sadeghi <i>, University of Massachusetts Amherst</i>
	Urban Design Mitigations: Considering COVID-19's Impact on Public Space Deirdre Hennebury, University of Michigan Fernando Cirino, Independent
<b>11:00am-12:30pm</b> PCA 175 CLIMATE_ Mitigation + Adaptation	GREEN SPACE, WALKABILITY AND AGILITY IN THE BUILT ENVIRONMENT Moderator:
	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
	Uncertainty, Complexity + Changing Conditions: A Cohesive Frame to Advance Agility in the Built Environment Salah Imam, University of Calgary + Entuitive Consulting Engineers Brian R. Sinclair, University of Calgary + sinclairstudio inc.
<b>11:00am-12:30pm</b> PCA 171 TECHNOLOGY_ Materials + Digital Fabrication	MATTER, TOPOLOGY AND FABRICATION Moderator:
- 6.44	<b>Topology + Timber</b> Tsz Yan Ng, <i>University of Michigan</i> Wes McGee, <i>University of Michigan</i>
	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
<b>11:00am-12:30pm</b> PCA 167 PUBLIC HEALTH_ Human-Centered Design	HUMAN-CENTRIC EXPERIENCE, HELPING YOUTH AND THE ELDERLY Moderator:
Human-Centered Design	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
	<b>Co-Design Strategies to Achieve Trust in Urban Living Lab: A Systematic Literature Review</b> Carla Brisotto, <i>Florida Institute for Built Environment Resilience</i> Jeffrey Andrew Carney, <i>Florida Institute for Built Environment Resilience</i>
	Exploring the Impacts of Human-Centric Lighting Spatial Patterns on Elderly Residents Mood and Preference – An Architectural Content Analysis Nasrin Golshany, University of Oregon

Nasrin Golshany, University of Oregon Ihab Elzeyadi, University of Oregon

(01/29/22)

<b>11:00am-12:30pm</b> PCA 168	PEDAGOGY, EQUITY AND SOCIAL JUSTICE
EQUITY_	Moderator:
Cities + (Im)migration	Inclusive Dedegesies in Theory Converse Courses
	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
<b>11:00am-12:30pm</b> PCA 180	MODELING METHODS OF FACADES AND ROOFS
•	
CLIMATE_	Moderator:
Mitigation + Adaptation	Thermonological provides Medaling Durandum and Comparative Analysis of Frances
	Thermoelectric Facades: Modeling Procedure and Comparative Analysis of Energy
	Performance in Various Climate Conditions
	Aksamija Ajla, University of Utah (remote)
	Mahsa Farid Mohajer, University of Massachusetts
	Building a Workflow to Model a Green Façade in a Graphical User Interface for EnergyPlus
	Collin Sydney, 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 Ghias, Iowa State University
	Ulrike Passe, <i>Iowa State University</i>
	Yuyu Zhou, <i>Iowa State University</i>
<b>11:00am-12:30pm</b> PCA 140	DOCTORAL RESIDENCY, EDUCATION AND DESIGN DISSERTATION
DOCTORAL EDUCATION_	Moderator:
Research + Design Doctorates	
	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
12:20nm 2:00nm Courtword	Lunch + Closing Plenary > RESILIENT CITY
12:30pm-2:00pm Courtyard	•
	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
	Ming Hu, ARCC Awards Committee Chair, University of Maryland
	Best Paper Award Announcement
	Best Poster Award Announcement

Best Poster Award Announcement