

**JUNE 17, 2021**

# RAIC-CCUSA ACADEMIC SUMMIT ON ARCHITECTURE



The Royal Architectural Institute of Canada (RAIC) and the Canadian Council of University Schools of Architecture (CCUSA) present the Academic Summit on Architecture. This summit presents papers and projects from schools of architecture featuring the latest in research from academics and practitioners in the fields of architecture and design.

## PROGRAM

### OPENING

**11:00 a.m. - 11:30 a.m. EDT**

Introductions by:

**John Brown**, Ph.D., Architect, MAAA, FRAIC, RAIC President, Dean and Professor, School of Architecture, Planning and Landscape, University of Calgary

**Jill Stoner**, MA, BA, MRAIC, Director Representing the Canadian Council of University Schools of Architecture on the RAIC Board of Directors, Director and Professor, Azrieli School of Architecture and Urbanism, Carleton University

**Shannon Bassett**, M.Arch. UD, B.Arch, MRAIC, Assistant Professor, Laurentian University

### SESSIONS

## 1 HYBRID APPROACHES TO CLIMATE CHANGE FUTURES

**11:30 a.m. – 12:30 p.m. EDT**

**MODERATED BY: Shannon Bassett**, M.Arch. UD, B.Arch, MRAIC, Assistant Professor, Laurentian University

**Architects Going Virtual: New Concepts of the Architects' Workplace & Methodologies in a Post-COVID-19 World**

**PRESENTED BY: Henry Tsang**, Architect, OAA, B.Sc.Arch., M.Arch, Ph.D., MRAIC, LEED GA, WELL AP, Assistant Professor, Athabasca University and **Veronica Madonna**, OAA, MRAIC, M.Arch., B.E.D.S., B.Arch. Sc. Assistant Professor, Athabasca University

**Hybrid Infrastructures: Between the Social and the Ecological**

**PRESENTED BY: Susan Fitzgerald**, Ph.D., NSAA, AAA, FRAIC, Assistant Professor, Dalhousie University

**Before the Flood: A geospatial analysis of confounding relationships between sociopolitical and biophysical factors, real property valuation and predicted sea-level rise in Richmond, BC**

**PRESENTED BY: Zach Colbert**, M.Arch., OAA, MRAIC, Assistant Professor, Carleton University and **Monika Imeri**, B.Sc., M.Sc., Ph.D. Candidate, Research Assistant, Carleton University



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## BREAK

12:30 p.m. - 1:00 p.m. EDT

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## SESSIONS

### 2 MATERIALS AND MACHINES

1:00 p.m. – 2:00 p.m. EDT

**MODERATED BY:** Terri Peters, BA, BEDS, DipArch, Ph.D., Assistant Professor, Ryerson University

**A Church, a Silo, and a Warehouse: Eladio Dieste's Gaussian Vaults and the Workers of the Encofrados**

**PRESENTED BY:** Federico Garcia Lammers, AIA, M.Arch., Associate Professor, South Dakota State University

**Origami Inspired, Self-assembling Clinic for Combating Coronavirus**

**PRESENTED BY:** Ming Hu, AIA, NCARB, LEED AP, Assistant Professor, University of Maryland

**Soft Rock Studio: Teaching Material-Driven Design-Build with Natural Materials in a Remote Learning Context**

**PRESENTED BY:** James Forren, M.Arch., NCARB, Associate Professor, Dalhousie University

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## BREAK

2:00 p.m. - 2:30 p.m. EDT

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## SESSIONS

### 3 LANGUAGES OF REPRESENTATION AND INCLUSION

2:30 pm – 3:30 pm ET

**MODERATED BY:** Alberto de Salvatierra, B.Arch., MLA, M.Des. ULE, Assistant Professor, University of Calgary

**The Mixing Space: Exploring Inclusive Space through the Symbolic Boundaries of the Jewish Eruv**

**PRESENTED BY:** Piper Bernbaum, B.A.S., M.Arch., OAA Intern Architect, Assistant Professor, Carleton University

**Beyond Design Savors: New Narratives for Climate Change Challenges**

**PRESENTED BY:** Carey Clouse, AIA, Associate Professor of Architecture and Landscape Architecture, University of Massachusetts

**Dismantling Symbolic Violence: The Critical Conservation of Plantation Architecture**

**PRESENTED BY:** Natalia Escobar Castrillon, Ph.D., M. Des Conservation, M.Arch., Assistant Professor of Architecture, Carleton University



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## BREAK

3:30 p.m. - 4:00 pm EDT

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## SESSIONS

### 4 PROJECTS

4:00 pm – 5:00 pm EDT

**MODERATED BY:** Jerry Hacker, B.Env.D., M.Arch., Assistant Professor, Carleton University


#### Reopening Retail: Architectural Strategies for Adapting Retail Environments to Physical Distancing Protocols

**PRESENTED BY:** Zach Colbert, M.Arch., OAA, RAIC, Assistant Professor, Carleton University and Josh Wallace, M.Arch. Intern Architect, Keck Architecture + Design

#### Prospect / Refuge

**PRESENTED BY:** Talbot Sweetapple, BA, BEDS, M.Arch., FRAIC, AIA NSAA, AAPEI, AANB, NLAA, NH, Assistant Professor of Practice, Dalhousie University

#### The 17th Street Canal Walk: Reimagining New Orleans' Infrastructural Corridors

**PRESENTED BY:** Carey Clouse, AIA, Associate Professor of Architecture and Landscape Architecture, University of Massachusetts, Rethinking Materials Through Remote Collaboration 



**PRESENTED BY:** Mary Hale, M.Arch., Assistant Teaching Professor, Northeastern University

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## CLOSING

5:00 p.m. - 6:00 p.m. EDT

Report and conclusions by moderators.

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## SOCIAL

6:00 p.m. - 6:30 p.m. EDT

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# MODERATORS

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**Shannon Bassett**, MArch, UD, B.Arch., MRAIC  
Assistant Professor, Laurentian University

Shannon Bassett is a Canadian-American architectural and urban designer and a professor of architecture at the McEwen School of Architecture in Sudbury, Ontario. She holds a Masters of Architecture in Urban Design from the Harvard Graduate School of Design, and a Bachelors of Architecture with Distinction from the Carleton University School of Architecture. Her research, teaching, writing and practice operate at the intersection of architecture, urban design and landscape ecology. Her writing on both China's explosive urbanization and its changing landscape, as well as shrinking cities and the post-industrial landscape in North America, has been published in *Topos*, *Urban Flux* and *Landscape Architecture Frontiers Magazine (LAF)* and *Canadian Architect*. Her design research and work has been exhibited both nationally, as well as internationally. She has practiced architecture at award-winning practices in Boston and Ottawa. With the National Capital Commission in Ottawa she was also a junior architect for the Official Residences Section and a junior urban planner for the Long-Range Planning Division for community outreach on several high-profile urban design projects, including the LeBreton Flats Redevelopment. She was appointed by the Mayor of Ottawa and Ottawa City Council to serve as an Advisor to the City of Ottawa Planning Advisory Committee. Shannon is specifically advocating for the implementation of green infrastructure and design excellence in the proposed future Masterplan 2031 for the City of Ottawa. She serves as an Elected Board Member of the Building Technology Educator's Society. She was awarded a National Endowment for the Arts grant for (Re)Stitch Tampa. Ensuing from this research platform was the publication, "(Re)Stitch Tampa: Designing the Post-War Coastal American City through Ecologies", published by ACTAR.

**Alberto de Salvatierra**, B.Arch., MLA, M.Des. ULE  
Assistant Professor, University of Calgary

Alberto de Salvatierra is an Assistant Professor of Urbanism and Data in Architecture at the University of Calgary SAPL and a Founding Principal of PROXIIIMA. An interdisciplinary polymath, architectural designer, and landscape urbanist, he has previously taught at the BAC, Cornell University, the Harvard University Graduate School of Design, Universidad Iberoamericana and the UNLV School of Architecture. He is the previous recipient of Cornell's Robert James Eidlitz Fellowship, Harvard's May Crane Fellowship, and Harvard GSD's Penny White Prize. De Salvatierra holds a B.Arch. from Cornell and both an MLA and an M.Des. in Urbanism, Landscape and Ecology from Harvard

**Jerry Hacker**, B.Env.D., M.Arch.  
Assistant Professor, Carleton University

A registered architect, Jerry practiced for 13 years as a senior associate and design leader with the critically acclaimed firm MBAC (The Marc Boutin Architectural Collaborative). While practicing, Jerry developed a deep respect for the comprehensive and necessary interface between design, technology, construction and environmental stewardship: A fertile ground where theory informs practice and practice informs theory. In the classroom, this translates to fostering the capacity to craft highly poetic ideas that manifest as an integrated body of knowledge and expertise. Now at Carleton University, Jerry is the founder of hACT, an architectural firm employing research through design to investigate, situate and construct architecture as infrastructure.



**Terri Peters**, BA, BEDS, DipArch, Ph.D.  
Assistant Professor, Ryerson University

Dr. Terri Peters is an Assistant Professor at Ryerson University in the Department of Architectural Science. She is a registered architect in the UK and holds a Ph.D. in architecture focused on the sustainable renovation of modern housing. She has funded research projects in daylight simulation, urban housing morphology, and biophilic design. She is co-author of “MURB Design Guide v2” (with Ted Kesik and Liam O’Brien 2019), co-author of “Computing the Environment: Digital Design Tools for Simulation and Visualization of Sustainable Architecture” (with Brady Peters, Wiley 2018) and editor of “Design for Health: Sustainable Approaches to Therapeutic Architecture” (Wiley 2017).

## PRESENTERS

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**Piper Bernbaum**, B.A.S, M.Arch., OAA Intern Architect  
Assistant Professor, Carleton University

Piper Bernbaum is an assistant professor at the Azrieli School of Architecture and Urbanism at Carleton University in Canada. She is the recipient of the Prix de Rome for Emerging Practitioners, and the Governor Generals Academic Gold Medal for her work. Piper’s research is focused on the intersection of law and architecture, the considerations and constraints of social and spatial plurality, and the appropriation of space through design. Especially interested in legal-fictions and every-day architectures, Piper’s work looks at community building and the loop-holes found in both inclusive and exclusive environments. In recent years, Piper has worked on international exhibitions on law, evidence and architecture – being on teams with work exhibited at the Venice Biennale in 2016, the Royal Ontario Museum in Toronto in 2017, and the Smithsonian Hirshhorn Museum in Washington in 2019. Her methods of research include explorations into field work, photography, spatial narratives, cartography, casting, and drawing as a critical practice.

**Carey Clouse**, AIA

Associate Professor of Architecture and Landscape Architecture, University of Massachusetts

Carey Clouse is an Associate Professor in Architecture and Landscape Architecture at the University of Massachusetts, Amherst. She holds a post-professional degree (SMArchS) in Architecture and Urbanism from the Massachusetts Institute of Technology and a B.Arch. from the University of Oregon. Clouse is the recipient of a Fulbright-Nehru Senior Research Fellowship to India and the Enterprise Rose Architectural Fellowship in New Orleans, LA. Clouse teaches courses that address the overlap between social justice, environmental stewardship, and urbanism. In addition to teaching, she is co-partner of Crookedworks, an architecture-design-build firm.

**Zach Colbert**, M.Arch., OAA, MRAIC  
Assistant Professor, Carleton University

Zach Colbert is an award-winning architect from New York City and is a licensed practitioner in the Canadian province of Ontario and the U.S. states of New York and Arizona. He is an assistant professor and Associate Director of Graduate Programs at the Carleton University Azrieli School of Architecture and Urbanism. He was previously on faculty at the Columbia University Graduate School of Architecture, Planning and Preservation (GSAPP) and the Parsons New School for Design School of Constructed Environments. His research weaves together the technical, ethical and post-humanist challenges of our time at the scales of the building and the city to explore, anticipate and prototype climate futures.



**Natalia Escobar Castrillon**, Ph.D., M. Des Conservation, M.Arch.  
Assistant Professor of Architecture, Carleton University

Natalia Escobar Castrillón is an architect and scholar interested in the sociopolitical dimension of architecture, historiography, and architectural conservation, in particular, the intersection of architecture, race, and gender. She seeks to elaborate design and conceptual tools to address structural oppression in architecture. She has taught courses and pursued research at the Harvard GSD, Boston University, Chile Catholic University, and São Paulo University. Her work has been funded by the Spanish Ministry of Education, the Lemann Foundation, and the Rockefeller Foundation among other institutions what allowed her to pursue research projects worldwide. She is the founder of the architectural journal *Oblique* that received the AIA NY Center for Architecture Publications Award.

**Susan Fitzgerald**, Ph.D., NSAA, AAA, FRAIC  
Assistant Professor, Dalhousie University

Susan Fitzgerald is Design Principal at FBM and an assistant professor of Architectural Design and Practice at Dalhousie University School of Architecture. She is both an architect and an interior designer involved in teaching, research, and practice. Her work, with FBM and with Susan Fitzgerald Architecture, has been the recipient of many accolades—including the Canada Council for the Arts Professional Prix de Rome, Governor General’s Medal in Architecture, the Wood Design Award, the EnRoute Air Canada Award, Maritime Design Awards, and multiple Lieutenant Governors’ Awards. In addition, the work has been nominated for multiple Mies’ Crown Hall Americas Prizes. At Dalhousie University she has been running an urban systems design studio in Havana, Cuba since 2014 in close collaboration with Universidad Tecnológica de La Habana José Antonio Echeverría. Susan was made a fellow of the RAIC in 2015. She received her Ph.D. from the Bartlett School of Architecture, UCL.

**James Forren**, M.Arch., NCARB  
Associate Professor, Dalhousie University

James Forren is an Associate Professor of Architecture in Design and Technology. He utilizes computational, fine arts, and anthropological methods in the study of new materials and material technologies in architectural contexts. His research focuses on the production of architectural components and assemblies, concrete and composite technologies, and people’s experiences with materials in industrial, design, and public contexts. His current research is supported by the 2019 SSHRC New Frontiers in Research Fund, Exploration program for the transdisciplinary project, “Gesture and Form: A Field-based Approach to New Methods of Architecture and Handcraft in Textiles Using Augmented Reality Technologies” and through industry collaboration with the Canadian Precast / Prestressed Concrete Institute (CPCI) for the directed research project, “Soft Rock: Artificial Rock Technologies”.

**Federico García Lammers**, AIA, M.Arch.  
Associate Professor, South Dakota State University

Federico García Lammers is an Associate Professor in the Department of Architecture (DoArch) at South Dakota State University, where he helped start the first professional architecture program in South Dakota. His scholarship on the Uruguayan engineer Eladio Dieste has been published and presented in a range of academic venues in South America, North America, and Europe. Federico is also a co-director of LAB-OR, a design practice in Brookings, South Dakota.



**Mary Hale, M.Arch.**

Assistant Teaching Professor, Northeastern University

Mary Hale is a designer and maker creating ephemeral spatial installations, animated and brought to life through sound, projection and movement. Mary collaborates with choreographers, video artists and sound artists to envision and shape performances within her designs. Given the ephemerality of her work, Mary's research explores biodegradable and reusable materials that have potential to replace the persistent materials in her practice and beyond. Mary's work has been recognized through books and international art, design and technology publications like Metropolis, Clam, and the MIT Technology Review. Mary received the AIA Associates Award in 2015 for exemplary design advocacy in the public sphere. Mary holds a Masters of Architecture from MIT and a Bachelor of Arts in Urban Studies from Brown University.

**Ming Hu, AIA, NCARB, LEED AP**

Assistant Professor, University of Maryland

Ming Hu is an Assistant Professor at the School of Architecture, Planning and Preservation, University of Maryland, USA. She teaches technology courses which focus on the integration of architectural design with structural, materials, and building performance assessment. She has an extensive background in high-performance building design and life cycle assessment and has engaged in applied building technology research for over 14 years. Her research activities centers on questions of how, and why, sustainable building design and construction affect energy/resource conservation, environmental and human health, and to understand how the (smart) technologies might be employed to reduce the impact from buildings.

**Monika Imeri, BSc, MSc., Ph.D. Candidate**

Research Assistant, Carleton University

Monika Imeri is an urban planner by profession and Ph.D. Candidate in the Department of Geography at Carleton University. Her Ph.D. research lies in the geography of socio-spatial inequality/precarity in Canadian cities with a focus on inner-suburbs ('in-between city' spaces), immigrant settlement, and the everyday geographies of gender. Beyond her dissertation research, Monika has also established herself as a major contributor to a number of research initiatives in Ottawa – She is Ottawa's research lead in a community-based action research project initiated by Women's Economic Council (WEC) and funded by IRCC. Monika has also taken on an editorial administrative assistant role with the peer-reviewed journal Studies in Political Economy (SPE). Monika earned both her BSc. and MSc. from Middle East Technical University (METU) where she graduated summa cum laude in the field of Urban Planning. Her MSc. research examined the factors behind the emergence of "retail urban voids" in Ankara.

**Veronica Madonna, OAA, MRAIC, M.Arch., B.E.D.S., B.Arch.Sc.**

Assistant Professor, Athabasca University

Veronica Madonna is an Assistant Professor at the RAIC Centre for Architecture at Athabasca University and a practicing Architect in Ontario. With Moriyama & Teshima Architect, Veronica has worked on several projects for leading post-secondary institutions in Canada. My research focuses on mass timber construction, passive design and the impact the built environment has on the climate and ecological sustainability.



**Talbot Sweetapple**, BA, BEDS, M.Arch., FRAIC, AIA NSAA, AAPEI, AANB, NLAA, NH  
Assistant Professor of Practice, Dalhousie University

Talbot is from St. John's, Newfoundland. In 1989, he attended Dalhousie University in Halifax, Nova Scotia and received a Bachelor of Arts with a major in Philosophy. In 1997, he graduated with a Master of Architecture as a Sexton Scholar in the Faculty of Architecture at the Technical University of Nova Scotia. He also received the American Institute of Architects Medal. After working in both Berlin and Toronto, Talbot joined Brian MacKay-Lyons Architecture Urban Design in 1999. He then partnered with Brian in 2005 to form MacKay-Lyons Sweetapple Architects Limited. In 2014, MacKay-Lyons Sweetapple Architects won the Royal Architectural Institute of Canada Firm Award. Talbot has held several visiting Professorships at leading universities and is currently a Professor of Practice at Dalhousie University's Faculty of Architecture. Talbot was named Fellow of the Royal Architectural Institute of Canada in 2018.

**Henry Tsang**, Architect, OAQ, B.Sc.Arch, M.Arch., Ph.D., MRAIC, LEED GA, WELL AP  
Assistant Professor, Athabasca University

Dr. Henry Tsang is an Assistant Professor at the RAIC Centre for Architecture at Athabasca University and a practicing Architect in Quebec. He teaches architectural design and theory at the undergraduate and graduate levels. His research interests include architectural sustainability, health, culture, professional practice and distance education in architecture. His current research focuses on new concepts for virtual/physical workplaces and design studios. He completed his B.Sc.Arch, M.Arch. at McGill University, and Ph.D. at the University of Tokyo as a Monbukagakusho Scholar. Prior to joining AU, he was a senior architect at Nihon Sekkei Inc. in Japan, and a visiting assistant professor at Keimyung University in South Korea. In 2020, he received a Canadian Architect Award of Excellence in collaboration with MoDA for the design of the Calgary Japanese Community Centre.

**Josh Wallace**, M. Arch.  
Intern Architect, Keck Architecture + Design

Josh received his Bachelor of Environmental Design from Dalhousie University (2014) and his Master of Architecture from Carleton University's Azrieli School of Architecture and Urbanism (2019). Before beginning grad school, he worked at Enorme Studio in Madrid, Vo Tong Nghia Architects in Ho Chi Minh City, and Borneo Adventure in Sarawak, where he aided the design of a new longhouse. His graduate thesis project "Listening to Climate Change: Integrating Awareness & Acceptance through a More-than-human Music" received the Royal Architectural Institute of Canada's Student Medal and the Canadian Architect Student Award of Excellence. He currently works as an Intern Architect at Keck Architecture + Design on British Columbia's Sunshine Coast.

