Special Focus Symposium on Systems Research in the Architecture, Engineering & Construction (AEC) of Built Environments

Chair: Prof. Yew-Thong Leong, Ryerson University, Toronto, Canada
Co-Chair: Prof. John Cirka, Ryerson University, Toronto, Canada
Co-Chair: Dr. Constantine Katsanis, Ryerson University, Toronto, Canada

Morning Session / 08:30 – 12:30

Introduction to Symposium
by Prof. Yew-Thong Leong, Ryerson University, Toronto, Canada

Key Note Speaker:
How to Win Architectural Competitions
by Dr. Greg Andonian, Carleton University, Ottawa, Canada

Paper Presentations - I.
Session Chair: Prof. John Cirka, Ryerson University, Toronto, Canada

Creative Design Control + Emergent Phenomena
by Prof. John Cirka, Ryerson University, Toronto, Canada

Digital | Material: Digital Fabrication and Design Studio
by Prof. Frederick Norman, Auburn University, Auburn, Alabama, USA

Not just Special Effects. Pushing the Frame: A Study of the Processes of Construction in Glass and Digital Video
by Prof. Catherine Ann Somerville Venart, Dalhousie University, Halifax, Canada

Digital Tools: Ways of Conceiving and Communicating Architectural Ideas
by Prof. Arthur Wrigglesworth, Ryerson University, Toronto, Canada

Trojan Horse: Design Media and its Implications to Architecture
by Dr. Osman Ataman, University of Illinois at Urbana Champaign, Champaign, USA

Assisted Listening: Computers, Sound, and Architecture
by Prof. Colin Ripley, Ryerson University, Toronto, Canada

Graph-Based Models of Space in Architecture and Cognitive Science: A Comparative Analysis
by Dr. Gerald Franz; Dr. Hanspeter A Mallot; Dr. Jan M. Wiener, University of Tübingen, Germany

Complex and Subtle Systems in Architectural Design Teaching: The Case of the Chinese Scholar Garden
by Dr. Greg Missingham, The University Of Melbourne, Melbourne, Australia

Workplace ‘Deconstructed’?
by Mirja Lievonen, Royal Holloway University of London, London, UK

LUNCH BREAK 12:30 – 13:30
Special Focus Symposium  
on Systems Research in the  
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Afternoon Session / 13:30 – 17:30  

**Paper Presentations - II.**  
Session Chair: Dr. Constantine Katsanis, Ryerson University, Toronto, Canada:  

**The Dynamics of Structure and Strategy in AEC Firms: Towards an Amplification of Performance**  
by Dr. Constantine Katsanis, Ryerson University, Toronto, Canada  

**Knowledge Sharing in the Inter-Disciplinary Construction Team**  
by Dr. Barry Jones, Cal Poly State University, USA  

**Validation of BEP-SMART: Built Environment Programs-Skills Monitoring and Assessment Rating Tool Using the Structural Equation Modelling (SEM) Approach**  
by Dr. Nicholas Chileshe, Sheffield Hallam University, Sheffield, UK; and  
by Dr. Theo Haupt, Cape Peninsula University of Technology, Cape Town, South Africa  

**Shifting from a Product Modeling Approach towards a Semantic Web Approach for the Integration of Construction Management Computer Applications**  
by Dr. Edwin Dado, Dr. R. Beheshti, Dr. H. de Ridder,  
Technical University of Delft, Delft, The Netherlands  

**Coffee Break 15:30 – 15:45**  

**Future Encounters: Developing Smart Architectural Material for The Future**  
by Dr. Osman Ataman, Dr. John Rogers,  
University of Illinois at Urbana Champaign, Champaign, USA  

**Round Timber Building Systems in New Zealand**  
by Prof. John Chapman, University of Auckland, Auckland, New Zealand  

**A Systems Language: Architecture, Engineering and Construction**  
by Prof. Yew-Thong Leong, Ryerson University, Toronto, Canada