

ri2023 Engineering Project Organization Conference Schedule

June 20-23, 2023, Das Schmöckwitz, Berlin

<https://epojournal.net/2023-conference>

Tuesday, June 20th

3:00 – 5:30 pm Registration

5:15 – 5:30 pm Welcome from Organizing and Technical Committee

5:30 – 6:30 pm *VR, Robotics and Digital Technologies*

Designing Interactive Virtual Environment for Focus Groups in the Field of Fire Safety
Authors: Isabelle Fitkau and Timo Hartmann (TU Berlin)*

Embodied Virtual Reality's Impact on the Conceptual Design Process for Stormwater Infrastructure
Authors: Joshua Trump and Tripp Shealy (Virginia Tech)*

Impact of Venture Capital on Entrepreneurship for Robotics in Construction
Authors: Alexander N. Walzer (ETH Zurich), Konrad Graser (XHAW), and Daniel M. Hall (TU Delft)*

Understanding Digital Transformations of Construction Firms: A Case from India
Authors: Sreelakshmi S and Ashwin Mahalingam (IIT Madras)*

6:30 – 9:00 pm Welcome Party and Barbeque

Wednesday, June 21st

7:30 – 8:30 am Breakfast

8:30 – 9:30 am *Infrastructure Projects and Owners*

“Strong Owner” Capabilities for Successful Delivery of Railway Construction and Renewal Projects for Danish Railway Infrastructure Owner
Authors: Daniel Woodier and Christian Thuesen (Technical University of Denmark)*

Moving From Single to Multi-Functional Infrastructure: Insights from European Cases
Authors: Johan Ninan (TU Delft), Marcel Hertogh (TU Delft), Yirang Lim (TU Delft), Hans de Boer (TU Delft), Ossi Pesamaa (Lulea Univ. of Technology), Maarten Van Acker (Univ. of Antwerp), and Eva Schwab (TU Graz)*

Assessment of Owner Organization's Impact on Project Success
Authors: Daniel S. Dimitrov and Carrie S. Dossick (Univ. of Washington Seattle)*

Interwoven Tensions Between Project Owner and Manager in Construction Projects: A Paradox Perspective
Authors: Ning Sun (UCL), Jing Xu (UCL), Yadi Li (East China University of Science and Technology), Yan Ning (Nanjing Univ.)*

9:30 – 10:30 am *Project Collaboration and Performance*

A New Measure for Team Performance: Measuring Inter-Brain Synchrony of Engineering Students when Designing and Building

Authors: Avinash Aruon (Virginia Tech), Tripp Shealy (Virginia Tech) and John Gero (Univ. of North Carolina)*

Factors of Inclusion for Trade Contractors in IPD Contracts

Authors: Sarah Grossman, Stephanie Bunt and Robert Leicht (Penn State)*

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| | <p>Risk versus Reward for AEC Project Team Interventions <i>Authors: Meltem Duva, Sinem Mollaoglu* and Kenneth A. Frank (Michigan State)</i></p> <p>How to Adopt Collaborative Project Delivery Models in a Mature Industry - The Case of Cruise Ship Building <i>Authors: Magnus Hellström* (Åbo Akademi Univ.), Jonas Spohr (Åbo Akademi Univ.), Kim Wikström (Åbo Akademi Univ.), Marjo Keiramo (Aalto Univ.) and Jani Romanoff (Aalto Univ.)</i></p> |
| 10:30 –11:00 am | Coffee Break |
| 11:00 –12:00 pm | <p><i>Equity in Engineering Systems</i></p> <p>Conformist Motivation Towards Social Justice in White Humanitarian Engineering Graduate Students <i>Authors: Emma S. Stine*, Amy Javernick-Will, and Tiera Tanksley (CU Boulder)</i></p> <p>Redlining and Infrastructure: Examining the Legacy of Historical Zoning and its Influence on Current Water Infrastructure Maintenance <i>Authors: Nathalie Thelemaque* and Jessica Kaminsky (Univ. of Washington Seattle)</i></p> <p>The Double Burden of Foreign Nations: A Countrywide Evaluation of Energy and Rent Burden in the US <i>Authors: Farah Mneimneh*, Cristina Poleacovschi and Amanda Y.N. Quarshie (Iowa State)</i></p> <p>Cultural Dimensions of Environmental Indoor Quality in Alaska Native Households <i>Authors: Amanda Y.N. Quarshie*, Cristina Poleacovschi, Kristen Cetin, and Marcus Nartey (Iowa State)</i></p> |
| 12:00 –12:30 pm | <p><i>People and Wellbeing</i></p> <p>Safety in the Construction Industry: Why is The Business Model Broken? <i>Authors: Steve M. Rowlinson* (Bond University)</i></p> <p>Managing Employee Wellbeing in Implementing Modern Methods of Construction: The Ethics of Care Perspective <i>Authors: Jing Xu*, Simon Addyman and Qiuchen Lu (UCL)</i></p> |
| 12:30 –12:45 pm | Break |
| 12:45 – 1:30 pm | <p><i>Disaster Resilience</i></p> <p>Uncertainties in Design Standards Create a Barrier for Long-Term Disaster Recovery: A Case Study of the West Virginia Bridge Home Program <i>Authors: Kase Poling and Tripp Shealy* (Virginia Tech)</i></p> <p>Building Capacity for Disaster-Resilient Housing: Investigating Less Frequent Hazards in Multi-Hazard Environments <i>Authors: Briar H. Goldwyn*, Amy Javernick-Will, and Abbie B. Liel (CU Boulder)</i></p> <p>Thinking Fast and Slow in Disaster Decision-making with Smart City Digital Twins <i>Authors: Neda Mohammadi* and John E. Taylor (Georgia Tech)</i></p> |
| 1:30 – 2:30 pm | Lunch |
| 2:30 – 6:00 pm | Free Afternoon |
| 6:00 – 7:00 pm | Keynote (Jennifer Whyte) |
| 7:00 – 9:00 pm | Dinner |

Thursday, June 22nd

7:30 – 8:30 am Breakfast

8:30 – 9:30 am *Infrastructure and Communities*

Community Stakeholder Engagement and Perspectives Towards a Megaproject: The Case of Western Sydney International Airport

Authors: Kon Shing Kenneth Chung and Atef Ahmed (Univ. of Sydney)*

Environmental Impact Assessments and Value Creation in PPP Projects

Authors: Gabriel Castelblanco (Politecnico di Torino) and Jose Guevara (Univ. of the Andes)*

Assessing the Role of Broadband Connectivity via Biomedical Devices in the Provision of Macro-Scale Health Care Throughout Rwanda

Authors: Nicola Ritsch (Carnegie Mellon Univ.), Chiedza Hwata (Univ. of Rwanda), Therese Bme Uwiragiye, (Univ. of Rwanda), Daniel Armanios (Oxford), Gerard Rushingabigwi (Univ. of Rwanda) and Celestin Twizere (Univ. of Rwanda)*

Community Engagement Through Social Media: A Comparative Case Study Between Two Large Infrastructure Projects in Finland and India

Authors: Johan Ninan (TU Delft) and Jere Lehtinen (Tampere Univ.)*

9:30 – 10:15 am *Climate Change and Engineering Management*

Disentangling the Antecedents of Decarbonisation Ambidexterity

Authors: Paulo Savaget (Univ. of Oxford) and Thayla Zomer (Fundação Dom Cabral)*

Supply Chain Management in Response to Climate Change: A Dynamic Systems Approach

Authors: Ryleen Balawanth (Univ. of Oxford), Thayla Zomer (Fundação Dom Cabral) and Paulo Savaget (Univ. of Oxford)*

Capabilities Needed for Enabling Climate Action in Construction

Authors: Lucy Burt (Univ. of Newcastle), Sittimont Kanjanabootra (Univ. of Newcastle), and Brian Corbitt (RMIT Univ.)*

10:15 –10:45 am Coffee Break

10:45 –12:15 pm *Sustainable Water System Management*

Empirical versus Perceived Water Quality in Vulnerable Puerto Rican Communities

Authors: Toby N T Nelson (Iowa State), Cristina Poleacovschi (Iowa State), Ivis Garcia (Texas A&M), Kaoru Ikuma (Iowa State), Carl F. Weems (Iowa State), and Chris R. Rehmman (Iowa State)*

What Drives the Use of Non-Traditional Water Sources in the Chemical Sector?

Authors: Lauryn A. Spearing (Univ. of Illinois Chicago), Miram Tariq (UT Austin), Lynn E. Katz (UT Austin), and Kasey M. Faust (UT Austin)*

Understanding Socio-technical Barriers to Operationalizing Responsible Management Entities of Decentralized Wastewater Systems in the Black Belt Region of Rural Alabama

Authors: Amal Bakchan and Kevin D. White (Univ. of South Alabama)*

Water Source and System Choice in Rural Alaskan Communities: Perspectives from State- and Regional Professionals

Authors: Rachel L Pearson (Univ. of Washington Seattle), Nathalie Thelemaque (Univ. of Washington Seattle), Laura Eichelberger (Alaska Native Tribal Health Consortium), Rebecca Neumann (Univ. of Washington Seattle), and Jessica Kaminsky (Univ. of Washington Seattle)*

Understanding Customer Attrition in Container-Based Sanitation Organizations: A Case Study Approach

Authors: Rebecca L Ventura (CU Boulder), Froggi VanRiper (Washington Univ. St. Louis) and Amy Javernick-Will (CU Boulder)*

Examining the Disparities in Public Water Systems: Spatial Distribution of Water Health Violations and Their Impact on Health Outcomes in Marginalized Communities

Authors: Marcus Nartey, Cristina Poleacovschi, Carl F. Weems, Ikuma, K., Feinstein, S. and Lu, L. (Iowa State)*

12:15 – 1:30 pm *BIM*

Institutional Pressures and Decoupling in Projects: The Case Of BIM Level 2 and Coercive Isomorphism in the UK's Construction Sector

Authors: Thayla Zomer (Fundação Dom Cabral), Paulo Savaget (Univ. of Oxford) and Andy Neely (Univ. of Cambridge)*

Business Models for Construction Organizations Enabled by Cloud-based BIM Innovations

Authors: Tawakalitu Odubiyi and Timo Hartmann (TU Berlin)*

Scan-to-BIM: An Interdisciplinary Workshop on the Present and the Potential Of Scan-To-BIM in Industry

Authors: Maria Antonia Zahlbruckner (TU Wien), Matthias Kriegler (TU Wien), Valentinas Petrinas (TU Wien), Iva Kovacic (TU Wien), Simon Floery (Rechenraum), Bert Azizoglu (Point of Measure), Markus Schuetz (TU Wien)*

Boundary Spanning in BIM-enabled Early Facilities Management Involvement: From A Sociomaterial Boundary Spanning Perspective

Authors: Pei Ma and Isabelle Chan (Univ. of Hong Kong)*

Effects of the Exogenous Shock of COVID-19 on BIM Subsidiaries in India

Authors: Shobhit Maheshwari and Ashwin Mahalingam (IIT Madras)*

1:30 – 2:30 pm Lunch

2:30 – 6:00 pm Free Afternoon

6:00 – 9:00 pm Dinner, Award Announcements, and Discussion of the Future of EPOC

Friday, June 23rd

7:30 – 8:30 am Breakfast

8:30 – 9:45 am *Megaproject Management and Project Collaboration*

A Management Challenge Beyond Scale and Cost: Is there a Case for Complex System Projects?
Authors: Andrew Edkins (UCL) and Vedran Zerjav (NTNU)*

Characteristics of the Infrastructure Megaproject Ecology
Authors: Lara Mottee, Kobra Gharouni Jafart and Jennifer Whyte (Univ. of Sydney)*

Project-Based Learning Principles: Insights from The Development of Large Infrastructure
Authors: Yan Liu (Nanjing Univ.), Erik-Jan Houwing (Delft Univ. of Technology), Marcel Hertogh (Delft Univ. of Technology) and Hans Bakker (Delft Univ. of Technology)*

Job Analysis of the Design-Phase Manager Role on Design-Build Projects
Authors: Allison Stevens and Bryan W. Franz (Univ. of Florida)*

Knowledge Management: Strategic Knowledge Expert Practitioners Use in Early Project Stages
Authors: Joan E. Ongodia and Timo Hartmann (TU Berlin)*

9:45 – 10:15 am Coffee Break

10:15 – 11:15 am *Digital Transformation Strategies*

Project Information Management Practices for Digital Asset Delivery
Authors: Amelia Celozza (CU Boulder)*

Demystifying Barriers to Digital Fabrication in Architecture
Authors: Tan Tan (TU Delft), Ming Shan (Kyoto Institute of Technology), and Daniel Hall (TU Delft)*

Towards Project Management 3.0
Authors: Daniel M. Hall (Delft Univ. of Technology), Hongyang Wang (ETH Zurich), Jens Hunhevicz (ETH Zurich), and Paul Chan (Delf Univ. of Technology)*

Energy, Information, and the New Work of Building Operations in the Digital Age
Authors: Daniel S. Dimitrov and Carrie S. Dossick (Univ. of Washington Seattle)*

11:15 – 1:00 pm Closing Lunch – Best Presentation Award
