

SEEDS 2025



Loughborough
University

INTERNATIONAL SUSTAINABLE
ECOLOGICAL ENGINEERING
DESIGN FOR SOCIETY



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BUILDING AND ENVIRONMENTAL DESIGN

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#652 – Taxonomy of Risks Militating Against Nigerian Construction Industry: Setting Research Agenda for Sustainable Construction Infrastructure Development Projects in Nigeria

Maryam Musa Bayawo

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#690 – Integrating Life Cycle Assessment into Prefabricated Building Design: A Review of Data Requirements and Implementation Challenges

Ana Karina Silverio, Patrick Manu and Ahmed Hagrass

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#646 – Minimising Construction Rework: The Influence of BIM Maturity Levels in Malaysian Projects

**Yee Kang Aw, Yu Hoe Tang, Jing Ying Wong,
Abdullahi Ali Mohamed and Zhi Xian Chew**

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#613 – Interdisciplinary Exploration of Sustainability Through BIM: Advancing Sustainable Environmental Design Through Collaborative and Data-Driven Approaches

**Sumudu Samarakoon, Kalaa weerasooriya,
Pavithra Rathnasiri, Zaid Alwan**

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WATER AND AIR QUALITY

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#643 - Cutting Carbon Emissions in Water Hygiene: The Environmental Benefits of Remote Legionella Monitoring in the Built Environment

**Christina Thompson-Mountford, Martin Pritchard,
David Love, Roz Wyatt-Millington, Paul Kenny,
Mark Russell**

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M. R. Mahendrini Fernando Ariyachandra

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#648 – Tailoring Minecraft sessions on the Sustainable Development Goals and engineering to the needs of educators

Sarah Behenna and Laura Hobbs

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#657 – Sustainable Validation of Water Consumption using Drones in Bahrain

David Love, Saud Buheji, Sami Alsisi

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REDUCING CONSUMPTION AND WASTE

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#683 – Communicating Sustainability: How Civic Actors, Digital Technology, and Awareness Campaigns Shape Waste Management Behaviours

Mikhail Ola Adisa, Shola Oyededeji, Sony Rosenthal, Ifeoma Adaji, Jari Porras

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SUSTAINABILITY, ETHICS AND RESPONSIBILITY

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#668 – Uncovering Systemic Barriers to BAME Leadership in UK Construction and Railway Sectors

Shaukat Munshi, Charlene Chatelier, Hadi Kazemi

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#597 – It's not that simple: a strategy as practice journey toward net zero

Graeme D. Larsen, Pippa Boyd, Ankit Singh

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Mohlomi T. Raliile and John J. Smallwood

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#674 – Implementing Behaviour Change in Accessing Mental Health Provisions in UK Construction

Greg Watts

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#609 – A Socially and Behaviourally Grounded Framework for Inclusive Engagement Towards Community Flood Resilience

Olutayo Ekundayo, David Proverbs, Subashini Suresh, Chaminda Pathirage, Ezekiel Olatunji, Phil Emonson

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BUILDING AND INFRASTRUCTURE IMPACT AND RESILIENCE

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#611 – Enhancing Irish Compliance Practices: An Examination into International Construction Compliance Policies with a specific focus on Ireland

Ankur Mitra and Mark Mulville

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#608 – Evaluating the Impact of Building Information Modelling on Sri Lankan Highway Construction Projects

Alireza Moghayedi, Vikum Kashyapa Silva, Amalka Nawarathna

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Alaa O. Shehata, Ali Saad, Chris Gorse, Peter Demian, Leo Hsu

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BUILDING PERFORMANCE, ANALYSIS AND EVALUATION

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#617 – Measuring the airtightness and heat loss of vehicles under controlled conditions

**Toby Le Hunte, Oliver Patterson, Grant Henshaw,
Luc Bodin, Richard Fitton**

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THERMAL COMFORT, AIR QUALITY AND OVERHEATING

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Ioannis Christopoulos and Dr Mark Mulville

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SUSTAINABLE CITIES

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#599 – Reviving the Forgotten Heart of Gqeberha, South Africa: Adaptive Reuse Challenges and Opportunities in Urban Regeneration

Avuyisiwe Kovu, Gerrit Crafford

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Bayan F. El Faouri

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#646 – Minimising Construction Rework: The Influence of BIM Maturity Levels in Malaysian Projects

**Yee Kang Aw, Yu Hoe Tang, Jing Ying Wong,
Abdullahi Ali Mohamed and Zhi Xian Chew**

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DR ALI SAAD

#594 – What is a sustainable construction project?

Dr Richard Davies

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#678 – Assessing the impact of air source heat pump retrofits on indoor environment and energy consumption in UK homes

Professor Rajat Gupta

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#657 – Sustainable Validation of Water Consumption using Drones in Bahrain

Dr David Love

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DR ALISON POOLEY

#703 – Enhancing Energy Efficiency in Office Buildings Through Façade Retrofit Strategies in the Tropical Regions

Dr Hong Wang Thing

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PROFESSOR DARRYL NEWPORT

#667 – Boldly Going Where No Sustainability
Assessment Tool Has Gone Before

Mrs Carolynne Williams-Twynam

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Congratulations and thank you to all of our speakers and attendees.

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