



2nd Global Scholarship for Sustainable Built Environment Research Conference - SURE-Built

School of Tourism and Hospitality, University of Johannesburg
(Hybrid free-to-attend conference)

3rd & 4th of September 2026



SHSCRC
SUSTAINABLE HUMAN
SETTLEMENTS AND
CONSTRUCTION
RESEARCH CENTRE

PROGRAMME OF EVENTS DAY 1 - Thursday 3rd September, 2026

Programme Director - Dr Mpumi Mkhize

Time (SA time)	Event	Venue
From 08:00	Registration, welcome tea and coffee and social interaction in preparation for the opening session	Refreshment corner
8:50-9:00	Health and Safety notice	Main Auditorium
09:00-09:20	Opening ceremony: DVC Research & Innovation - Prof Refilwe Phaswana-Mafuya , University of Johannesburg, South Africa	Main Auditorium
09:20-09:30	Welcome address: Dean of FEBE - Prof Daniel Mashao , University of Johannesburg, South Africa	Main Auditorium
09:30- 10:00	About the conference/scientific process: Prof Clinton Aigbavboa , University of Johannesburg, South Africa	Main Auditorium
10:00-10:30	Tea break, Photo with the DVC/Keynote Speakers and Delegates	Refreshment corner/STH foyer

Chair: Prof WD Thwala - WSU, South Africa

Time (SA time)	Event	Venue
10:30-11:00	Keynote address 1 - Mr Bongani Dladla , CEO, Construction Industry Development Board, South Africa	Main Auditorium
11:20-11:50	Keynote address 2 - Prof Che Khairil Izam Che Ibrahim , Dean, Faculty of Civil Engineering, Universiti Teknologi, MARA, Malaysia	Main Auditorium
12:10-12:30	Refreshment break	Refreshment corner

Breakaway session One: 12:30-13:30 (15 minutes per paper) - (SA time)

1A - Room A (Physical - Main auditorium)	1B - Room B (Physical)	1C - Room C (Physical)	1D - Room D (Virtual)	1E - Room E Virtual)	1F - Room F (Virtual)	1G - Room G(Virtual)	1H - Room H (Virtual)
Digital built environment Chair: Prof. G. Fanourakis, UJ 12:30 - 13:30	Built environment methodologies/ Construction and Project Management Chair: Dr Matthew Ikuabe, WITS, SA 12:30 - 13:30	Construction and Project Management Chair: Prof E. Bamfo-Agyei, Cape Coast Tech. Uni., Ghana 12:30 - 13:30	Digital built environment Chair: Dr Mpho Ndou, UJ, South Africa 12:30 - 13:30	Infrastructure and industry development Chair: Prof. Christopher Amoah, UFS, South Africa 12:30 - 13:30	Sustainable development and agenda 2063 Chair: Dr Kenneth Otasowie, UJ, South Africa 12:30 - 13:30	Built environment methodologies Chair: Dr Thandeka Makhatini, UJ, South Africa 12:30 - 13:30	Sustainable development and agenda 2063 Chair: Dr Andrew Ebekoze, Auchi, Poly, Nigeria 12:30 - 13:30
Success Factors of Wearable Technologies Adoption for Construction Health and Safety in Nigeria David Ojimaajo Ebiloma & Good Omah Onwuanaku	(S)place Theory: A Decolonial Approach to Built Environment Methodologies Sebola-Samanyanga Kgomotso Jackson Phillip	Improving Project Outcomes in Construction SMEs: Practical Drivers of Adaptive Success Mark Pim-Wusu	Internet Of Things (IoT)-Enabled Smart Facilities Management: Assessing the Role of Digital Technologies in Reducing University Campus Emissions Mohammed Abubakar Sadiq, Christoper Amoah, Kahilu Kajimo- Shakantu, Issah Bala Abdulai	Prioritizing Urban Infrastructure for Industrial and Regional Development through a Random Forest Analysis of Waste Management vs Connectivity Md. Wira Putra Dananjaya, Ni Luh Putu Ika Candrawengi, Made Ari Riska Dayanti, Caren Angellina Mimaki, I Made Dedy Wanditya, I Made Bagus Wiraguna	Competitive Strategy and Organisational Performance in Quantity Surveying Firms: A Sustainability-Oriented Assessment in Nigeria's Built Environment. Diekolola Abiola- Ogedengbe, Molusiwa Stephan Ramabodu, Imoleayo A. Awodele	Feature Importance of Human Visual Comfort in Naturally Ventilated Mosques Using a Machine Learning Approach Md.Hasibul Islam, Md. Hasan, Mohammad Nyme Uddin, Mst. Umma Nourin Sawon, Alip Kumar Paul, Mim Huda	A Non-Invasive Assessment of Thermal Comfort in a University Library Using Infrared Thermography Ibrahim Isah, Ziyadul Hassan Ishaq, Oyine Mary Enefu, Solihu Adewale Ibrahim
Artificial Intelligence in Smart Urban Planning: Bibliometric Insights for Ghana's Urban Future. Mike Nyarko and Nana Akua Gyadu- Asiedu	The Role of Personality Traits in Quantity Surveyors' Professional Success in South Africa Rolien Terblanche, Thaakiyah Jacobs, Olwethu Shabangu	Assessing the Impact of Industry 4.0 Technologies on Female Construction Professionals in Ghana Bawa Christiana, Justice Williams, Emmanuel Appiah- Kubi and Ernest Ativui	A Fuzzy-Set Qualitative Comparative- Correlation Analysis of the Critical Success Factors to Smart Contract Adoption in PPP Projects under the TOE Framework Emmanuel Chidiebere Eze; Ernest Effah Ameyaw	Sustainability to Regeneration: Designing Net-Positive Built Environments in African Hospitality Akintade Elizabeth Abidemi and Ayodeji Emmanuel Oke	Developing an Integrated Sustainability Framework for Granite Quarrying in Edo North, Nigeria: Aligning Extraction Practices with Agenda 2063 Daniel Elamah, Bella- Omunagbe Cyprian	Evaluating the Reliability of Satellite and Reanalysis Climate Datasets for Local- Scale Applications in Bangladesh Shuvo Kumar Chowdhury, Hasibul Ahmed Pulok, Zia Mohammad Nazim Uddin, Monirul Islam, Subrata Debnath, Khandakar Hasan Mahmud, Mohammad Nyme Uddin	Sustainability-Driven Digital Twin Adoption in the Malaysian Construction Industry Muhammad Ahsan Soomro, Shalini Sanmargaraja, Adil Rahujo
Smart cities start with smart access: A small area estimation of	Cost Management Criteria in Biomimicry Sustainability	From Talk to Action: Assessing the Role of Industry Events in	Cultivating Student Wellbeing Through Sustainable Building	The Uneven Geographies of Cooperative Societies	Mapping Inequalities in Indoor Environmental Quality: A	Urban Heat Island Trends Across Southwestern	Housing quality research methodologies in Nigeria:

digital infrastructure indicators across the 52 districts of South Africa Yegnanew A. Shiferaw	Assessment Tool: Relative Importance Analysis using Analytic Hierarchy Process Olusegun Oguntona	Delivering Sustainable Innovation Outcomes in Africa Annitta Musendo, Karen Le Jeune	and Facilities Management: Evidence-Driven Insights for the GenAI-Enabled Built Environment Nurul Elma Kordi, Nur Ilya Umaira Abdullah Zawawi	in Sub-Sahara African Megacities: Evidence from Lagos, Nigeria Adewumi, B.J., Asaju, O.A., Onamade, A.O., Oluwamodupe Grace, and Adegbile, M.B.O.	Crosstabulation-Based Assessment of Residents Demographics Opeyemi A. Asaju, Akintunde O. Onamade, Bamidele J. Adewumi, Olutoyin Ajayi, Oluwale A. Alagbe, Olatunde Arayela	Nigeria Using Modis (2013-2020) Daniel Olaleye, Oluwaseun Ipede	A systematic scoping review Sunday Adeluyi Bobadoye; Funmilayo Mokunfayo Adedire, Abiodun Abiola Okunlola, Olasunkanmi S. Fagbemi
Towards Carbon- and Resource-Aware Federated Computing: Harmonising Sustainability Metrics and Governance for AI-Enabled Built Environment Systems Alireza Moghayedi, Tariq Umar, Amalka Nawarathna, Alireza Bolhari	Assessing Change Management Competencies of Boatbuilding Project Managers in the Western Cape Euclid Nkuna, Rolien Terblanche	Driving Sustainable Civil Engineering Projects: The Role of Digitalisation and Circular Economy Hlengiwe Vilakazi, Douglas Aghimien	An Interpretable Machine Learning Framework for Structural Material Intensity Assessment of Academic Buildings Based on IFC-Derived BIM Data Iftakher Ahamed, Abrar M. Shahriar, Md. Shahriar Hossain	Determinants of Inclusive Urban Water Supply: A Data-Driven Analysis of Maiduguri Abdullahi Babagana, Reuben Jobien Jacob, Yakubu Mohammed	Rethinking Urban Development in Africa Through Sufficiency: Carbon Budgets, Justice and Planetary Limits Adewumi Oluwafemi A, David Ness	Determinants, Constraints, and Strategic Implications of Professional Practice Performance in the Built Environment: Evidence from Quantity Surveying Practice Victoria Adekola, Sunday Odediran	Performance Evaluation of Crumb Rubber Modified Bituminous Concrete Using Marshall Mix Design: A Sustainable Pavement Engineering Approach Adil Rahujo, Muhammad Ahsan Soomro, Masood Hassan Chandio

13:30-14:30	Lunch and networking break	Refreshment corner
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Chair: Professor Douglas Aghimien, UJ, South Africa

Time (SA time)	Event	Venue
14:30- 15:00	Keynote address 3 - Prof Timothy Adekunle , Chair, School of Architecture, University of Utah, USA	Main Auditorium

Breakaway session Two: 15:15-16:30 (15 minutes per paper) - (SA time)

2A – Room A (Physical – Main auditorium)	2B – Room B (Physical)	2C – Room C (Physical)	2D – Room D (Virtual)	2E – Room E (Virtual)	2F – Room F (Virtual)	2G – Room G (Virtual)	2H – Room H (Virtual)
Infrastructure and industry development Chair: Prof. Mark Pim-Wusu , ATU, Ghana 15:15 – 16:30	Education in the Built Environment Chair: Dr Jackson Sebola-Samanyanga , UP, South Africa 15:15 – 16:30	Housing science Chair: Dr Amalka Nawarathna , UWE, UK 15:15 – 16:30	Digital built environment Chair: Dr Innocent Osuizugbo , UJ, South Africa 15:15 – 16:30	Infrastructure and industry development Chair: Dr Peter Adekunle , UJ, South Africa 15:15 – 16:30	Sustainable development and agenda 2063 Chair: Dr Ganiu Aregbesola , UJ, South 15:15 – 16:30	Construction project management Chair: Prof Samuel Adekunle , WVS Tubman, Uni., Liberia 15:15 – 16:30	Digital Built environment Chair: Prof S. Dosumu , Uni. of Rwanada 15:15 – 16:30
Value Creation through Nature-Based Solutions (NbS) in Commercial Buildings: A Case Study of Johannesburg Office Market Prisca Simbanegavi, Courtney Calla Pretorius, Aghama Mini, Landelihle Ngema, Pride Ndlovu, Faranani Gethe, Malcolm Weaich, Yewande Adewunmi, Partson Paradza	Nigerian Architectural Education Training and Adoption of Gen-AI Epoch to Achieve Agenda 2063 in Nigeria Solomon Oisasoje Ayo-Odifiri & Andrew Ebekozien	Non-Conventional Building Technologies: Long-Term Structural Performance Modelling of the Structural Insulated Panels (SIPs) in Abaqus Bruno Tayo, Jeffrey Mahachi, Masengo Francois Ilunga	Digital Urban Land Governance and AI-Enabled Real Estate Systems for Sustainable Futures in Africa Ige Victor Olutope	From Roads to Rigs: Assessing Transport Management Conditions and Their Operational Implications for Heavy-Duty Equipment Operators in Ghanaian Mining Supply Chains Hannah Kemevor, Alexander Preprah, Mustapha Osman Opoku, Dominic Otoo	Organic Waste Valorisation to Vermicompost as a Technology Supporting Sustainable Development Valerie Pemberai Baya; Musaida Mercy Manyuchi; Walter Stinner; Charles Mbohwa	Adaptive Climate Governance Capability for Resilient Road Infrastructure under Climate Stress Theophilus Kofi Anyanful, Derrick Gyamfi, Charles Mensah	Blockchain Technology as a Cost Management Tool in the Nigerian Construction Industry: An Empirical Assessment and Adoption Framework Oluwaseun Adelabi, Oluwamayowa Abimbola, David Umoren
AI-Driven BIM, Earth Observation, and Digital Twin Integration for Municipal Built Environment Decision Support Karabo Katlego Ramasilo	Students' Awareness and Use of Digital Tools: Accelerating Progress in Digital Preparedness among Future Construction Practitioners in Nigeria Patience F. Tunji-Olayeni, Folasade O. Adejola, Damiete Gabriel-Whyte	Human Dynamics Influencing Indoor Air Quality Management in South African Public Universities Mpho Ndou	Real-Time Feedback and Sustainable Energy Use among Commercial Buildings in Ghana Iruka Chijindu Anugwo, Williams Miller Appau, Elvis Attakora-Amaniampong	Effect of Plantain Pseudo-stem Fibre on the Water Absorption of Concrete Exposed to Sulphate Environment Abdullahi Adeyemi Lawal, Michael Opeyemi Babasola and Olugbenga Ata	Biogas Generation from Organic Waste as a Strategy for Promoting Clean Energy Access C. Mudyazhezha., M. M. Manyuchi, W. Stinner., C. Mbohwa	An Appraisal of Relational Risk Factors in Public Infrastructure Projects in Selected South-South States of Nigeria Sunday Benedict Oso, Uchenna Obiekwe Ajator	Factors Inhibiting and Promoting the Adoption of Artificial Intelligence in Quantity Surveying Practice in Lagos State, Nigeria Mayowa Damilare Adeyeni, Sunday Julius Odediran, Emmanuel Oyeniran
Integration of Artificial Intelligence into Project Cost Control Practices in the Construction Industry: A Bibliometric Analysis Kofi Owusu Adjei & Murendeni Liphadzi	Assessment of Selected Academia-Industry collaboration on students readiness to Quantity surveying profession Adegbembo Taiwo Fadeke, Olowo Israel	The effect of pulverised natural pozzolana as a partial replacement for Portland Cement (CEM I) on concrete compressive strength and workability	Enablers of Artificial Intelligence for Sustainable and Disaster-Resilient Building Design in the Built Environment Innocent Chigozie Osuizugbo	Barriers to the Implementation of the Nigerian Disability Act (2019) in Selected Public Buildings: Evidence from Nigeria's Post-Independence Capital Territories	Degree of Integration of Sustainable Features in Retail Properties in a Sub-Saharan Property Market Matthew Oluwole Oyewole, Feranmi Barnabas Oguntolu, Funmilayo	An Empirical Study of Musculoskeletal Disorder Risks among Construction Labourers Idowu Albert, Omolola Praise Ojo, Williams Dunu, Reuben Aremu, Johnson Omanayi David	Development of a Real-Time IoT-Based Air Quality Monitoring System for Crowded University Lecture Halls Ayobami Adedokun, Stephen Owolabi

	Oluwaseun, Famakin Ibukun	Tshepo Canny Motau and George C Fanourakis		Ugah Uzodinma Kelechi, Aduwo Egidario Bridget, Sholanke Anthony Babatunde	Moyinoluwa Araloyin, Abiodun Odunlade Adejumo		
South African Water Infrastructure Learning After Delivery: Benchmarking Post Project Evaluation in Gauteng Heinrich Ungerer, Ngwanamokgopodi Maphanga, Mancha Maraka, Zamageda Zungu	Impact of GenAI- Powered Adaptive Learning Environments on Student-Centred Learning Outcomes in Built Environment Education Philip Ugonna Ebirim, Nwamara Chidiebere Isilebo	Climate-Adapted Green Design Strategies for Coastal High-Rise Housing in Lagos: Evidence from Eko Atlantic City Bukola Adewale and Angile Ezeani	Critical Barriers to the Adoption of Big Data Analytics for Pro-Sustainability Decision-Making in the Built Environment Innocent Chigozie Osuizugbo, Bankole Osita Awuzie, and Temitope Omotayo	Fatalities Among Heavy-Duty Equipment Operators in Ghana’s Mining Sector: An Analysis of Magnitude and Underlying Causes Hannah Kemevor, Alexander Preprah, Mustapha Osman Opoku, Dominic Otoo	Using Artificial Intelligence to Predict Dissolved Oxygen for Sustainable River Water Quality Management in Bangladesh Hasibul Hasan Shawon, Md. Safwan Kabir Bhuiya, Mohammad Tanvir Ahmad	Exploring the Impact of Foreign Labour Management on Labour Welfare and Productivity in Malaysian Construction Shalini Sanmargaraja, Abdullateef Olanrewaju, Hui Chen Chu, Soo Cheen Khor, Vignes Ponniah, Gunavathy Kanniyapan	Strategies for artificial intelligence (AI) adoption in sustainable construction projects: Evidence from consultancy and contracting firms Japhet Tinyimana and Oluwaseun Sunday Dosumu
Institutional Drivers of Delays in Road Infrastructure Delivery: Governance, Procurement, and Political Influence Ramantswana Thabelo, Mmoni Malehu Valtina, Ramohlokoane Mpho Mosa	Generative AI Readiness and Workforce Competencies in Agribusiness Infrastructure Delivery and Farm Operations. Ayodele Olorunfemi, Lawrence Obokoh	What project managers need to know about problem soils in the case of housing developments George C Fanourakis	Enhancing Local Geoid Modelling for Urban-Built Environment Applications Using Integrated GNSS and Levelling Techniques in Lagos Island. Tata Herbert, Nnamani Onyemaechi John, Omodejo Babatunde Olamilekan	Influence of Plantain Pseudostem Fibre on the Tensile Strength of Concrete Michael Opeyemi Babasola, Abdullahi Adeyemi Lawal and Olugbenga Ata	Subsidy Allocation for Emission Reduction from Non-Road Construction Equipment: A Static Game-Theoretic Analysis Vaigunthan Pakeerathan, Charinee Limsawasd, Nathee Athigakunagorn	Assessment of Stakeholder Satisfaction in Mega Construction Projects: A Case Study of the Lesotho Highlands Water Project Phase II Phathekile Lale and Matthew Ikuabe	Enhancing As-built BIM Model Handover: A Challenge-Strategy Framework Siti Rahimah Rosseli, Ahmad Tarmizi Haron, Che Khairil Izam Che Ibrahim, Rahimi A. Rahman

Breakaway session Three: 16:30-17:45 (15 minutes per paper) - (SA time)

3A - Room A (Physical - Main auditorium)	3B - Room B (Physical)	3C - Room C (Physical)	3D - Room D (Virtual)	3E - Room E (Virtual)	3F - Room F (Virtual)	3G - Room G (Virtual)	3H - Room H (Virtual)
Infrastructure and industry development / Digital built environment Chair: Dr Prisca Simbanegavi, WITS, SA 16:30 - 17:30	Education in the Built Environment/Construction project Chair: Prof Olusegun Oguntona, iWU, SA 16:30 - 17:30	Housing science Chair: Dr Rolien Terblanche, UCT, SA 16:30 - 17:30	Digital built environment Chair: Dr Oluseye Olugboyega, OAU, Nigeria 16:30 - 17:45	Infrastructure and industry development Chair: Dr David Ojimaajo Ebiloma, UJ, South Africa 16:30 - 17:45	Sustainable development and agenda 2063 Chair: Dr Taiwo Adegbembo, FUTA, Nigeria 16:30 - 17:45	Construction project management Chair: Prof Babatunde Ogunbayo, WVS Tubman, Uni., Liberia 16:30 - 17:45	Digital Built environment Chair: Dr Patience F. Tunji-Olayeni, Covenant Uni., Nigeria 16:30 - 17:45
From Conventional to Green Offices: Indoor Environmental Quality (IEQ) and Employee Satisfaction in South Africa Thabelo Ramantswana, Tsepiso Mote and Koech Kenneth Cheruiyot	The University-Workplace Continuum: Navigating Competence and Identity in Construction Education Zainu Mohamed, Clinton Aigbavboa	Sense of Community in Nigerian Urban Slums: A case in Core Area Housing, Ibadan Bukola Adewale, Vincent Ene	Managing the Construction Workforce in the Age of AI: Legal and HR Challenges in Nigeria. Omoseni O. Adepoju and Tobi T. Nwulu	Evaluating Therapeutic Architecture Principles in Wellness Resort Design: A Case Study of Lakowe Lakes Epe, Nigeria Olufunmilayo Adetoro, Jesunifemi Akingbade	Plywood Usage and Wastage in Slab and Beam Formwork: Evidence from SME Construction Projects in Sri Lanka W.M.P.M. Bandara, K.G.A.S.Waidyasekara, P.H.G.M.A.Ranasinghe	Relevance and Impact of Safety Induction on Construction Projects Ibrahim Yakubu Ebenehi, Muhammad Nda, Abdulmageed Osunkunle, Ibrahim Hamza	AI-Enabled BIM Decision Intelligence for Sustainable Construction: A Knowledge-Centric Digital Twin for Multi-Objective Time-Cost-Carbon Scheduling Under Uncertainty Saleem Ahmed Al-Azazi, Abdullah O. Baarimah, Eman Ali Al-Awag and Musmuliadi Kamaruding
GenAI-Assisted Quality Assurance and Quality Control for Safety and Performance in Nigerian Food System Infrastructure. Oluwadamilola Esan, Omoseni .O. Adepoju	Academic Perspectives on Generative Artificial Intelligence and Blockchain-Enabled Credentialing in Built Environment Education Oluwadamilola Esan, Opeyemi A. Olatunde	Beyond the Façade: drivers of dissatisfaction among residents of public housing in a Nigerian metropolis Buki Adisa, Bayo Amole	Assessment Of the Adoption of Building Management System in Commercial Buildings in Lagos State, Nigeria. Adebisi Oluwakemi Deborah, Wahab Akeem Bolaji, Ngwoke Valentine.	Validation of self-healing concrete and critical role review of recycled plastics in road design and construction Philani Dlamini & Bonke Mncwango	Residents' Perceived Knowledge of Urban Sustainability Challenges in Selected Lagos-Ogun Peripheral Settlements Funmilayo M. Adedire, Daniel T. Ogungbemi, Abiodun A. Okunlola, Sunday A. Bobadoye	Factors Causing Cost and Time Performance Variations in Construction Projects: Evidence from the South African Construction Industry Babatunde Ogunbayo, Samuel Adekunle, Temitope Olajide, Oluwatosin Olajide	BIM, GenAI, and Design Knowledge: Rethinking the Design Process through AI-Assisted Façade Visualization Stephanus Wirawan Dharmatanna, Bramasta Putra Redyantanu, Elvina Shanggrama Wijaya
Barriers to the Adoption of a Blockchain-Based Information Management System in the South African Construction Industry Opeoluwa Akinradewo	Uptake of Recycled Materials for Construction Projects: Decision Factors in Emerging Economies Nontokozi Nkosi, Osamudiamen Otasowie	A Comprehensive Framework for Affordable Net-Zero Housing: Identifying and Validating Critical Sustainability Criteria Amalka Nawarathna, Alireza Moghayedi, Chethana Illankoon, Maxine Chan	Perceived Complexity or Real Barriers? Lessons Learned on BIM Adoption in the GenAI Era: The Case of Côte d'Ivoire Soualihou Bamba and Aaron Kalonji Kapata	Strategic Framework for the Sustainable Management of Urban Road Transport Terminals in Zaria, Nigeria Joseph S. Oladimeji and Tobenna N. Nzelibe	Assessing Land Use and Land Cover Dynamics in Kitwe, Zambia (2004-2024): Geospatial Evidence for Sustainable Urban Development Michael Mutale, Maureen Mukunto, Mwape Malama	Identification and ranking of key factors influencing construction material procurement process using Random Forest-Shapley Additive Explanations (SHAP) Uduwage Don Nuwantha Lasitha Sampath, H.H.A.P Hemantha, K.G.A.S. Waidyasekara,	From HBIM to Environmental Intelligence: AI-Supported Environmental Simulation Using Autodesk Forma for Conservation-Restricted Buildings Stephanus Wirawan Dharmatanna, Elvina Shanggrama Wijaya

						D.N.L.S. Uduwage, R.K. Shiwakoti	
AI-Driven BIM, Earth Observation, and Digital Twin Integration for Municipal Built Environment Decision Support Karabo Katlego Ramasilo	From Waste to Resource: Investigating the Constraints to Construction and Demolition Waste (C&DW) Reuse in the Global South Nontokozo Nkosi, Osamudiamen Otasowie	Beyond Role Clarity: Perceived Value Conflict, Leadership and Collaboration among Built Environment Professionals in Gauteng's Sustainable Construction Industry Tarien Laubscher, Bankole Osita Awuzie, Tholang David Nena	A BIM-Integrated Artificial Intelligence Framework for Automated Design Specification Compliance and Monitoring in Construction Oluseye Olugboyega, Ayodeji Olatunji Aiyetan, Nmerichukwu Kelly-Chukwudi, Isreal Ifechukwude Ohai	Seismic Vulnerability Assessment of Existing Buildings in Makerere University Charles Gavamukulya	Assessment of Energy-Efficient Features for Building Designs in the Nigerian Construction Industry Famakin, Ibukun Oluwadara; Gbadebo, Henry Adetayo; Adegbembo, Taiwo Fadeke	Mapping XR Applications in Cultural Heritage Projects: A PMBOK-Based Meta-Classification Review Alp Kaan Erkul, Akın Tolga İlter	Building information modeling-enabled smart contracts for the construction sector: A systematic review Mazen M. Omer, Kherun Nita Ali, Benviolent Chigara, Ahmad Faiz Azizi Ahmad Fauzi, Aawag Mohsen Alawag, Farrah Azwanee Aminuddin, and Hamizah Liyana Tajul Ariffin
			From object-centred conservation to urban heritage digital twins: a scalable socio-technical framework for smart heritage governance Otuonuyo, A. George and Ededho T. Eloho	Assessment of Compliance and Performance of Universal Design Strategy in Public Buildings: A Case of Selected Buildings in Southwest Nigeria Aseyan Babajide Sunday, Adebowale Oluwademilade Daniel	Assessment of the Adoption of Circular Economy Design Strategies in Selected High-Rise Mixed-Use Buildings in Lagos, Nigeria Foluke Oladunni Jegede, Ugochinyere Precious Ezeocha	Exploring The Use of Generative AI in Project Management in the Built Environment in Ghana Juanita Seyram Gasu, Gilbert Selase Decker, Kezia Nana Yaa Serwaa Sackey, Kofi Agyekum	Assessing the Uptake of Embodied Carbon Management Strategies in the Nigerian Construction Industry Habeeb Mustapha, Olusegun Akinsiku

Day Ends: 17:45

DAY 2 - Friday 4 September 2026

Chair: Professor Bankole Awuzie, UJ, South Africa

Time (SA time)	Event	Venue
08:00-9:00	Welcome tea and coffee and social interaction in preparation for the opening session	Refreshment corner
09:00-09:15	Welcome address	Main Auditorium
09:15-09:30	Chartered Institute of Building (CIOB) address, Mr Ntando Khuzwayo , Membership and Education Lead for the CIOB in Sub-Saharan Africa	Main Auditorium
09:30-10:00	Keynote address 4 - Prof Celestine Iwendi , Head of Centre of Intelligence of Things, School of Creative Technologies, University of Greater Manchester, Bolton, UK	Main Auditorium
10:15-10:45	Keynote address 5 - Prof Alireza Moghayed , Digital Sustainable Construction, University of West of England, UK	Main Auditorium
11:00-11:30	Refreshment break	Refreshment corner
11:30-12:00	Keynote address 6 - Dr Simon Ofori Ametepey , Director of the Centre for Sustainable Development, Koforidua Technical University, Ghana	Main Auditorium

Breakaway session Four: 12:15-13:30 (15 minutes per paper) - (SA time)

4A - Main Auditorium (Physical)	4B - Room B (Virtual)	4C - Room C (Virtual)	4D - Room D (Virtual)	4E - Room E (Virtual)	4F - Room F (Virtual)	4F - Room G (Virtual)	4H - Room H (Virtual)
Sustainable development and Agenda 2063 Chair: Dr Lesiba G. Mollo , CUT, South Africa 12:15 - 13:30	Housing science Chair: Dr Murendeni Liphadzi , UJ, South Africa 12:15 - 13:30	Construction and Project Management Chair: Prof. Sheila Belayutham , Universiti Teknologi. Mara, Malaysia 12:15 - 13:30	Education in the Built Environment Chair: Dr Temidayo Osunsanmi , Edinburgh Napier Uni., UK 12:15 - 13:30	Digital built environment Chair: Dr Peter Adekunle , UJ, South Africa 12:15 - 13:30	Sustainable development and agenda 2063 Chair: Dr Ganiu Aregbesola , UJ, South 12:15 - 13:30	Infrastructure and industry development Chair: Dr Ranju Kumari Shiwakoti , Tribhuvan Uni., Nepal 12:15 - 13:30	Housing science Chair: Prof Matthew Kwaw Somiah , Takoradi Tech. Uni., Ghana 12:15 - 13:30
Sustainable Water Infrastructure Provision: Can Users Demographics Indicate Willingness to Pay for Benefits of Private Sector Participation Timothy O Ayodele; Abel Olaleye	Phytoremediation of Volatile Organic Compounds and Formaldehyde in Naturally Ventilated University Stu-dents' Hostels in Northeastern Nigeria: A Pilot Study Ibrahim Emmanuel Chongcicimmi, Lekan Amusan, Andrew Mhya Stanley	Workplace Stress and Mental Well-being among Malaysian Construction Consultants: Assessment, Impacts and Mitigation Strategies Emylia Natasha Ahmad Tajudin, Sheila Belayutham	Quantity Surveying Students as future industry leaders: Competencies requirements in the era of Artificial Intelligence in an emerging economy Emmanuel Eze, Onyinye Sofolahan, Olayinka Omoboye, Rex Ugulu	AI-Enabled Evolution of Material Intelligence: From Passive Properties to Autonomous Behaviour in Adaptive Built Environments. Obianuju Chukwuka, Kayode Jason, Anthony Obaribirin, Zaccheaus Alabor	Occupants' Energy-Efficient (EE) Habit and Environmental Concerns: A Correlation Across Countries Blessing Ibukun Mafimisebi, Olaleye Yetunde, Miu Yee Rose Wong	Assessing The Use of Digital Tools for Predictive Facilities Management In Private Universities tn the Greater Accra Region Mohammed Abubakar Sadiq, Christoper Amoah, Kahilu Kajimo-Shakantu, Joseph Ansah	Residents Acceptance of Incremental and Modular Housing Lagos State, Nigeria Olatunde Babalola, Ayodeji Aremu

Resilient Architectural Practices for Sustainable Urban Residences Futures to Achieve Agenda 2063 in Nigeria Solomon Oisasoje Ayo-Odifiri & Andrew Ebekozen	Classifying Floor Level Based on Human Comfort and Environmental Parameters Using Machine Learning Approaches for a Sustainable Indoor Analytics G. M. Rahad, Jobayer Hossain, Md. Hasan, Md. Iktekar Alam Imran, Md. Fardin Al Shafik, Md. Estiak Ahmed, Md. Hasibul Islam	A Systematic Review of Barriers and Enablers to Supply Chain Integration for Sustainability in Construction Projects: Multi-Stakeholder Insights Aawag Mohsen Alawag, Saleem Ahmed Al-Azazi, Abdullah O. Baarimah and Eman Ali Al-Awag	Pedagogical Integration of Artificial Intelligence and Digital Construction Technologies in Quantity Surveying and Construction Management Education in Nigeria Bamidele Arijeloye, Molusiwa Ramabodu, Samuel Chikafalimani	Digital Twin Technology in Engineering Practice: Insights from Academic and Industry Professionals in an African Developing Country Emmanuel Aremu, Jesuferanmi Adetayo, Ogagaoghene Odokuma, David Olukanni	Managing Campus Landscapes through Green Infrastructure for Rainwater Control and Groundwater Recharge Towards Sustainable Green Campus Development Joleha Joleha, Imam Suprayogi, Merley Misriani; Elianora Elianora, Randhi Saily, Muhammad Fakhriy	Hybrid Improved ACO-Reinforcement Learning Framework for Safe and Efficient Dynamic Fire Evacuation Path Planning in Residential Apartments Sujan Khyaju, Ranju Kumari Shiwakoti, Uduwage Don Nuwantha Lasitha Sampath	Rethinking The Barriers to The Development of Green Buildings in The Global South: A Study from Ghana Matthew Kwaw Somiah, Frederick Owusu Danso, Isaac Yaw Manu, Jeriscot Henry Quayson, Benjamin Kodjo Aidoo, Michael Kofi Biney
Spatial planning, tourism, and sustainable development in the Eastern Cape: the case of rural municipalities Ockert Pretorius	Exploring the Role of Peri-urban areas in Driving Self-help Housing: A Case Study of Tea Estate, Inanda Luyanda Innocentia Makhoba, Vincent Myeni	A Model for Evaluating Option to Abandon (OTA) in Public-Private-Partnership (PPP) Building Projects Yarima Sallau Lawal, Aliyu Makarfi Ibrahim, Ziyadul Hassan Ishaq	Developing Agentic AI for Higher Education: Challenges and Opportunities from a Developing Nation Temidayo, O., Osunsanmi, Lina Khaddou, Cletus Moobela, Timothy Olawumi, Dubem Ikediashi, Jan Sana Ullah, Ayodeji E, Oke, Oladunni O, Alabi, Oluwayinka S, Oke, Olatunde J, Fatoke	Simulation-Based Validation of Energy Performance in Ghanaian Office Buildings: Pathways to Sustainable Efficiency Gloria Osei-Poku; Kwabena Abrokwa Gyimah; Rosemary Cobbinah	Urban Green Spaces as Built-Environment Infrastructure: A Geospatial Perspective from Sunyani, Ghana Gifty Nyarko and Priscilla Coffie	Urban fire safety and firefighting preparedness: the case of shopping malls in Kumasi, Ghana Prince Abrokwa Ofori, Kwadwo Twumasi-Ampofo, Richard Oduro Asamoah, Safowaa Osei-Tutu and Francis Ohene-Coffie	A Theoretical Model of Architectural Design: Home and Well-being Dalia Al-Tarazi, Rachel Sara, Annabel Morkporkpor Ami Domphey, Colin Booth
Unpacking the Constraints to Sustainable Rural Community Development: Perspective from Indigenous Settlement in South Africa Olusegun Oguntona, Omokolade Akinsomi, Magnus Andersson, Chijioke Emere, Andreas Lundin	Predicting Residents Thermal Comfort in Rural Mud Houses Using Machine Learning Classifiers Al Rafayet Rahman, Md. Taffhimul Hasan, Md. Sojib Sheikh, Md. Estiak Ahmed, Bishwajit Chandra Mazumdar, and Md. Hasan	A Machine Learning-Driven Framework for Minimizing Construction Delays Using 4D BIM Scheduling Data: A Case Study of a C-shaped Residential Building Nahin Ahmed Chowdhury, Md. Habibur Rahman Sobuz, Md. Kawsarul Islam Kabbo	Metaverse as Technological Content Knowledge in Architectural History and Construction Pedagogy Imran Jebarah	A Human-Centric Governance Framework for Responsible Human-AI Collaboration in the Built Environment Systems: Integrating Human and Machine Epistemologies within Industry 5.0 Obianuju Chukwuka, Anthony Obaribirin, Kayode Jason, Zaccheaus Alabor, Afolabi Sodiya	The Role of Academia in Innovations in the Construction Industry A study on the emergence of ash-based concrete Heijboer Lars, Ninan Johan, Luković Mladena, Ye Guang, Blom Kees, Fennis Sonja	Sustainable Healthcare Delivery Through Digital Technology: focus on the Interior Design of Orthopaedic Wards in Public Hospital Buildings in Nigeria. Titilayo Elizabeth Adewumi, Aminat Olorunfunmilayo Ajenifujah-Abubakar&Tolulope Aduke Falusi	Effect of Varying Coconut Shell Ash and Eggshell Powder Blend Ratios on Oxide Compounds Matthew Kwaw Somiah, Mohammed Deen-Halis Zebilila, Frederick Owusu Danso, Isaac Yaw Manu, John Bentil, Wilberforce Adjei Sakyi
The Digital Adoption Blame Game: Construction Industry in	Comparative Evaluation of Housing Delivery Models in Gauteng	Impact of Individual Attributes on Construction Readiness	A Critical Literature Review of Generative AI's Impact on	Leveraging Generative AI for Carbon-Neutral	Utilization of Fly Ash and Silica Sand Waste for	Spatial characteristics of Pedestrian crashes on Urban Arterial Roads in	Enhancing construction business risk mitigation

Search of the Real Barriers to Technological Transformation. Kingsley Ofori, Simon Ofori Ametepey	Metropolitan Municipalities: Towards a Conceptual Governance Framework Tholwana Koaho, Matthew Ikuabe	Parameters for Resuming Abandoned Housing Projects: A Multivariate Regression Analysis N. Aishah Abdul-Rahman, Rahimi A. Rahman, Ahmad Rizal Alias, Syafizal Shahrudin, Md. Kamarul Hossain	Epistemology and Knowledge Validation in Architectural Design Egidario Aduwo, Chibuikem Obioha	Building Envelopes in the Digital Age Vincent Chubo, Deliverance Chiripanyanga, Panashe Mashonganyika	Sustainable Construction: An Experimental Study Muhammad Reyhan Alvanda, Casy Almia Putri, Monika Natalia, Ilham Ahmad Syauki	Developing Countries: A Case Study of J A KUFFOUR (N6) Avenue in Accra, Ghana Awolu Mohammed Abass, George Agyekum-Mensah, Abdul-Majeed Mahama-du	through technology-driven sustainable CSR practices: targeting external stakeholders Frank Amoah, Ernest Kissi, Michel Adesi, De-Graft Qwusu-Manu, Sam Aloysius, Jerry Junior Gyimah, Joseph Kent Boadi
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13:30-14:30	Lunch and networking break	Refreshment corner
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Breakaway session Five: 14:45-16:15 (15 minutes per paper) - (SA time)

5A - Room A (Virtual)	5B - Room B (Virtual)	5C - Room C (Virtual)	5D - Room D (Virtual)	5E - Room E (Virtual)	5F - Room F (Virtual)	5G - Room G (Virtual)	5H - Room H (Virtual)
Sustainable development and Agenda 2063 Chair: Dr Mart-Mari Els, UFS, South Africa 14:45-16:15	Housing science Chair: Dr Pelumi Akinbogun, WSU, South Africa 14:45-16:15	Construction and Project Management Chair: Dr Nana Gyadu-Asiedu, UJ, South Africa 14:45-16:15	Education in the Built Environment Chair: Dr Udochukwu Marcel-Okafor, FUTO, Nigeria 14:45-16:15	Digital built environment Chair: Prof Rahimi A. Rahman, Universiti Malaysia Pahang, Malaysia 14:45-16:15	Sustainable development and agenda 2063 Chair: Dr Andrew Ebekozie, Auch, Poly, Nigeria 14:45-16:15	Housing Science Chair: Dr Uzor Onyia, UNN, Nigeria 14:45-16:15	Sustainable development and agenda 2063 Chair: Dr Sibongile Zwane, WITS, South Africa 14:45-16:15
From Reactive to Predictive: Leveraging GenAI for Sustainable Property Maintenance in Namibia's Public Housing Sector Henok Filippus; Mart-Mari Els	Analysis of Post-Retrofit Changes in Window Operation Behavior in Retrofitted Student Dormitory Using Machine Learning Yaseen Jamal, Arshad Al Shaekery, Alexander Malkwitz	Conflict Management Styles in the Construction Industry: A Systematic Literature Review Suhair Mereish	From Answer-Getting to Sense-Making: A Semi-Systematic Review of Student Use of Large Language Models in Engineering and AEC Higher Education Aravinda Adhikari, Yetunde Olaleye, Miu Yee Wong	Integrating Geospatial Intelligence and GenAI for Sustainable Urban Planning Tobenna Nnaemeka Nzelibe, Nzelibe, Ifechukwu Ugochukwu	Integrating Water Sustainability Strategies to Enhance User Comfort in High-Rise Residential Buildings in Lagos, Nigeria Omoyeni Aderewa Fulani, Olaitan Titilopemi Wahab	Reliability-Based Design for High-Rise Structure Exposed to Seismic and Wind Loads Timothy Yeo Zhi Xu, Zafarullah Nizamani, Olanrewaju Abdullateef Ashola, Syed Muhammad Bilal Haider	Key Drivers of Frugal Innovation for Sustainable Development in the Nigerian Construction Industry Deborah Oluwadara Adewale, Ayodeji Emmanuel Oke
Ranking the Determinants of Adaptive Reuse Decision-Making in the Nigerian Construction Industry	Feature Importance Analysis of Thermal and Visual Comfort in Urban Slum Areas Using Artificial Neural Networks Md. Faisal Rahman	Stakeholder Management and Social Impact Mitigation in Controversial Linear Infrastructure Projects: An Empirical Case Study	Generative AI Literacy, Use and Institutional Readiness in Nigerian Architectural Education Afolabi Adedeji, Oluwatosin Babalola,	Mitigating Ineffective Building Information Modelling Execution Plans: An Investigation of the Critical Causes Mashanim Mahazir,	Diagnosing Environmental Drivers of Carbon Monoxide Concentration in Kaduna Metropolis Using	Optimizing Natural Ventilation through Courtyard Design for Climate-Resilient Built Environments in Tropical Regions.	Interior Green-Blue Spaces as Policy Instruments for Urban Resilience and Well-Being in Ghanaian Cities

O moyeni Fulani, Adeonipekun Adekunmisi	Dhrubo, Jobayer Hossain, Md. Mashnur Hossain Pobon, Mohammad Mehedi Hasan, Md. Hasibul Islam	of the Lagos-Calabar Coastal Highway Olagunju O lasunkanmi Ezekiel, Funmilayo M. Adedire	Oladipupo Agbebiyi, Adebayo Ala	Rahimi A. Rahman, Nurhaizan Mohd Zainudin	Interpretable Machine Learning Reuben Jobien Jacob, Abdullahi Babagana, Kenneth Onyemauche Ezenwa	Hridoy Debnath, Sadia Afrin Tisa, Israt Jahan Aishe	Henrietta Brew Ntim-Addae, Victor K. Quagraine, Rexford Assasie Oppong, Alexander Boakye Marful, Aisha Ida Baffoe-Ashun, Isaac Egyir Kwofi.
Developing a Conceptual Framework for Net-Zero Energy Retrofitting of University Buildings in Tropical Climates Audrey Asante, Christian Koranteng, Daniel Y. A. Duah, Kwabena Abroakwa Gyimah, Barbara Simons	Evaluating Technical Performance and Resident Satisfaction in Lagoshoms Public Housing Estates Olasunmbo Ademakinwa, Edward Oladigbolu, Babatunde Adeyemi, Oluwole Alagbe & Oluwole Ajayi	Experimental Evaluation of Pan Shanu Aggregate and Its Performance in Normal-Weight Concrete, Bauchi State, Nigeria Ibrahim Yakubu Ebenehi, Muhammad Nda, Mukailu Zakari, Sani Hussaini Muhammad, Haruna Muhadang	From Classroom to Practice: Examining AI Adoption Attitudes Across the Nigerian Architecture Education-Profession Divide Dele Oye, Chukwuebuka Chizea	BIM-Driven Optimization for Construction Cost and Waste Using Machine Learning and NSGA-II Abrar M. Shahriar, Iftakher Ahamed, Ahmed Chowdhury, Md. Kawsarul Islam Kabbo	Integrating Energy and Water Efficiency in Hotel Buildings: A Nexus-Based Assessment from Ghana Rosemary Cobbinah, Daniel Yaw Addai Duah, Gloria Osei Poku, Veronica Sakyi Adjei, Nana Agyeman Cobbinah	Urban Housing Redevelopment and Gentrification of Lagos Metropolis: Balancing Development with Social Equity Temitope Joda, Nnezi Uduma-Olugu, David Adio-Moses	Assessment of the Pozzolanic Properties of Gliricidia Sepium (Jacq.) Wood-ash as a Potential Sustainable Supplementary Cementitious Materials Stephen Morakinyo Adeyinka, Gbenga Matthew Ayininuola
The Building Envelope as a Determinant of User Spatial Experience: A Quantitative Evaluation of Art Centers in Lagos, Nigeria. Adedapo Oluwatayo, Ololade Babafemi	Emerging Trend in Residential Housing Supply: Assessing Affordability for Local Needs in Lagos, Nigeria Asaju A.O, Akinbogun S.P.	Implementing Circular Economy Models in Nigeria's Facility Management Sector Timothy Tunde Oladokun	DOJO Grids: A Foundational Framework for Student-centered Design Education in the GenAI Era Dele Oye	Critical Barriers to Digital Leadership Competency Development in the Construction Industry Risath Athamlebbe, Rahimi A. Rahman, Ahmad Tarmizi Haron	Integrating Geospatial Analytics and Machine Learning for Sustainable Landfill Site Selection: A GIS-ML Framework for Urban Planning in Southwest Nigeria. Aroge Sunday, Titlade Samuel, Paul Elufisan	Evaluation of Circular Economy in Plastics Waste Management for Sustainable Housing Solution in Ogun State Nigeria. Foluke Jegede, Adedotun Akinola, Eseoghene Ekeh, Erebor Emekpae	Healing Interiors as Experiential Knowledge Systems: Interior Green-Blue Spaces and Well-Being in Ghanaian Urban Environments Ntim-Addae, Henrietta Brew; Oppong, Rexford Assasie, Quagraine, Victor K.
Life Cycle Cost Analysis of Green Construction Solar Panels and Low-E Glass Implementation Natalia, Monika, Zaki, Afdaluz. Agustin, Fatma N., Zulva, Aviza C., Mirani, Zulfira	The Drivers of New and Self-Constructed Housing Expenditure in Mexico, 2024 Rafael Perez, Emiliano Martin Gutierrez, Naim Manríquez García	An Empirical ESG Process Metrics Framework for Sustainable Project Management AbdulLateef Olanrewaju, Muhammad Adnan Ali, Choon Aun Ng, Soo Cheen Khor	Pedagogical Responses to Evolving Generative AI Trajectories in Architectural Technology Education in the Global South Udochukwu Marcel-Okafor	Key Drivers Influencing the Adoption of Artificial Intelligence Technologies in Supplier Selection and Performance Evaluation: Evidence from the Ghanaian Construction Industry John Sosu, George Lord Ephraim, Kezia Nana Yaa Serwaa Sackey, Juanita Seyram Gasu, Kofi Agyekum	Assessment of Embodied Carbon in The Design Stage: A Case Study of University Hostel Building in Nigeria Eghosa Aiyamenkhue, Olusegun Emmanuel Akinsiku	Housing Development Characteristics as Knowledge Systems Shaping Neighbourhood Growth in Peri-Urban Nigeria Awashima Orkpeh, Oludare Obaleye, Oluwatosin Babalola	Provision of Affordable Housing Through Tunnel Formwork as an Innovative Approach for Sustainable Development in Urban South Africa Mbali Hazel Thomo, Sibongile Zwane, Partson Paradza
Assessing Sustainability Criteria for Public Works					Effects of Using Modified Sewage Sludge Ash and Rice Husk Ash as Partial	Deployment of Digital Technology in the	GeoAI Framework for Assessing Climate

Procurement Evaluation - A Delphi Approach Jerry Junior Gyimah, Victor Karikari Acheamfour, Ernest Kissi, Theophilus Adjei- Kumi, Evans Kwesi Mireku, Frank Amoah, Deborah Ama Duker			Cementitious Materials in Concrete Anthony Ede, Sena-Ter Atsar, Oluwarotimi Olofinnade, Chidiebere Ezenkwa	Management of Material Aggregate Kelechukwu Onyekwere Samuel, Nzoputa Blessed Madueme, Uzor Onyia	Vulnerability in African Urban Transport Bello Hafisat Omodasola, Abdumajid Ibrahim, Abdulganiyu Ibrahim Elabor
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16:30 - 17:00

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