

# 15<sup>th</sup> BUILT ENVIRONMENT VIRTUAL CONFERENCE SOUTH AFRICA

## 27 – 28 SEPTEMBER 2021

Theme: CONSTRUCTION IN 5D: DECONSTRUCTION, DIGITALIZATION, DISRUPTION, DISASTER, DEVELOPMENT



### DAY 1: MONDAY, 27 SEPTEMBER 2021

08h30-09h00	Virtual Registration
	PLENARY 1: Room A Chair: Prof Theo C. Haupt
09h00 - 09h15	<b>Presidential Welcome and Address</b> <b>Prof Kahilu Kajimo-Shakantu</b> ASOCSA President
09h15 - 09h45	<b>Welcome Address: Adapting in the face of the COVID-19 Pandemic: Impact on the Construction Sector and Lesson Learned</b> <b>Prof Babatunde Bakare</b> Dean, Faculty of Engineering, Mangosuthu University of Technology, Durban
09h45 - 10h25	<b>Keynote Address: Opportunities or challenges in these changing times</b> <b>Graham Teede, OAM FAIB</b> Past Senior National Vice President, Australian Institute of Building, Australia
10h25 - 11h05	<b>Keynote Address: Global disruption – Dealing with construction delays and disruptions caused by the COVID-19 pandemic</b> <b>Dr Hendrik Prinsloo</b> Delay Claim Specialist and Consultant, California, USA
11h05-11h30	MORNING TEA

	<b>Chair: Dr Zakheeya Armoed</b> Durban University of Technology <b>Venue: Room A</b>	<b>Chair: Mr Wayne Draai</b> Nelson Mandela University <b>Venue: Room B</b>
11h30 - 11h50	Application of Artificial Intelligence for Construction Workers Wellbeing in South Africa  <b>Mohlomi Raliile, Theodore Haupt</b>	Challenges Facing Supply Chain Management on Time Delivery of Construction Projects in Tanzania  <b>Geraldine Kikwasi, Nyamagere Gladys Sospeter</b>
11h50 - 12h10	The Adoption of 3D Printing As a construction Methodology in South Africa: What are the Barriers?  <b>Abimbola Windapo, Msindisi Yende, Onele Kala, Lawrence Maboreke and Lindelani Matshidze</b>	Factors Influencing the Adoption of Disruptive Construction Procurement Models in State Universities  <b>Jacob Mhlanga, Theodore Haupt, Mariam Akinlolu</b>
12h10 - 12h30	Women, Masculinity, Femininity and Health and Safety on Construction Sites  <b>Mariam Akinlolu, Theo C Haupt</b>	Risk Assessment in Construction Management  <b>Nosipho Mbangi, Brink Botha, Rexford Asianoah</b>
12h50 - 13h10	Artificial Intelligence (AI) in Sustainable Construction Management: A Scientometric Review  <b>Motheo Meta Tjebane, Innocent Musonda and Chioma Sylvia Okoro</b>	Circular Economy: A Sustainable Approach to Waste Management in the City of Johannesburg  <b>Makoye Mapani, Won-Hyang Muthimba, Yulandi Sikidi and Lungie Maseko</b>
13H10 - 13H40	<b>LUNCH</b>	
13h40 - 14h20	<b>PLENARY 2: Room A</b> <b>Chair: Prof Theo C. Haupt</b>  <b>Keynote Address: The Future of Transformation of Construction Training</b> <b>Dr Francois Jacobs</b> Associate Professor of Civil & Architectural Engineering – Construction Management, University of Wyoming, USA	
	<b>Chair: Dr Mariam Akinlolu</b> Mangosuthu University of Technology <b>Venue: Room A</b>	<b>Chair: Mr Wayne Draai</b> Nelson Mandela University <b>Venue: Room B</b>
14h20 - 14h40	Lean Thinking as an Approach for Improving the Client Communication During the Design Process  <b>Ghada Mossad, Ayman Othman and Nishani Harinarain</b>	Adaptive Co-design for Self-help Housing in Durban  <b>Viloshin Govender, Claudia Loggia</b>

14h40 - 15h00	A Study on Knowledge, Attitudes and Commitment of Managers Within Construction Firms Towards the Recent Construction Health and Safety Legislation Changes  <i>Mohlomi Raliile, Theodore Haupt</i>	A bibliometric analysis of sustainable construction practices - Implication on construction productivity  <b>Oluseyi Adebawale and Justus Agumba</b>
15h00 - 15h20	Client Roles in Influencing Project Delivery Outcomes  <i>Progress Chigangacha, Theodore Haupt</i>	Influencing Building and Infrastructure Poor Performance to Inadequate Maintenance Budget and Funding  <i>Abdul-Razak Musah, Derick Vosloo, Wayne Draai</i>
15h20 - 15h40	Learning Online During a Pandemic: Student Perspectives  <i>Theodore Haupt, Ayesha Mall</i>	
15h40 - 16h00	<b>TEA</b>	
16h00 - 16h20	Challenges to Project Delivery in the Dynamic Human Settlement Environment in South Africa  <i>Abimbola Windapo, Fabio Companie</i>	A Bespoke Approach for Relating Building and Infrastructure Poor Performance to Inadequate Maintenance Management Policy Systems  <i>Abdul-Razak Musah, Derick Vosloo, Wayne Draai</i>
16h20 - 16h40	Investigating the Effects of Gentrification in the Creation of Socially Sustainable Urban precincts: A Case Study of Bo-Kaap, Cape Town, South Africa  <i>Kathy Michell, Jake Le Roux</i>	The Effective Implementation of the Framework for Infrastructure Delivery and Procurement Management  <i>Neil Sirbadhoo, Nishani Harinarain</i>
16h40 - 17h00	Digitalization of the South African Construction industry: A potential for future research  <i>Adeleye Ayoade Adeniran, Winston Shakantu</i>	Critical Factors influencing energy use behaviour of building occupants: A Literature Review  <i>Iyiola Comfort Olubukola, Mewomo Modupe Cecilia</i>
17h00 - 17h20	The Hand-Arm Vibration Syndrome: A Bibliometric Analysis of a Neurological Disorder in Construction Workers  <i>Mariam Akinlolu, Theo Haupt</i>	A review of barriers to the adoption of smart building concepts (SBCs) in developing countries  <i>Ejidike Cyril Chinonso, Mewomo Modupe Cecilia</i>

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DAY 2: TUESDAY 28 SEPTEMBER 2021

08h30 - 09h00	<b>Virtual Registration</b>	
	<b>PLENARY 3: Room A</b> Chair: Prof Theo C. Haupt	
09h00 - 09h10	<i>Welcome and Recap of Monday</i> Chair: Prof Theo C. Haupt	
09h10 - 09h50	<b>Keynote Address: Wise humans and unwise decisions: Introducing the changing face of modern safety management</b> <b>Prof David Edwards</b> Professor of Plant and Machinery Management, Birmingham City University, UK	
09h50 - 10h30	<b>Keynote Address: Construction in 5IR: Unpacking the pedagogy and cybergogy</b> <b>Prof Kathy Michell</b> Deputy Dean, Teaching and Learning, Faculty of Engineering and the Built Environment, University of Cape Town	
10h30 - 11h00	<b>MORNING TEA</b>	
	<b>Chair: Dr Claudia Loggia</b> University of Kwazulu-Natal <b>Venue: Room A</b>	<b>Chair: Prof Nishani Harinarain</b> University of Kwazulu-Natal <b>Venue: Room B</b>
11h00 - 11h20	Stakeholder participation trends in the South African green building industry: 2016 to 2018 Perspectives  <b>T.S. Ngobeni, T.H. Ngele, D.J. Hoffman</b>	Construction Sustainability: Empirical evidence on SME Development and Delivery Challenges of road infrastructure in South Africa  <b>Nyakala Kgashane Stephen</b>

11h20 - 11h40	Assessing The Resilience of UK Construction SMEs: A cross-sectional analysis the effects of Covid-19 pandemic  <b>Rafiu Dimeji Seidu, Ebohon John Obas, Bert Ediale Ebohon, Emmanuel Chika Udeaaja and Daniel Fong</b>	Utilisation Of Remote Monitoring Systems to Improve Management of Multiple Projects In Construction  <b>Nomusa Makhathini, Innocent Musonda, Adetayo Onososen</b>
11h40 - 12h00	Functionality and Mechanical Properties of Steel Fibre Reinforced Concrete in Stemming Building Collapses in Nigeria  <b>Olubisi Ige, Ebohon Obas John, Theo Haupt, Mariam Akinlolu</b>	Integrated Project Delivery: An Innovative Approach for Achieving Sustainability in Construction Projects  <b>Ghada Adel, Ayman Othman, Nishani Harinarain</b>
12h00 - 12h20	The Challenges with Developing and Applying Knowledge, Skills and Competences (KSC) in the Nigerian Engineering and Construction Industry (NECI)  <b>Uzor Onyia, Charles Egbu and Obas John Ebohon</b>	Overcoming the Challenges Candidate Quantity Surveyors face on the Route to Professional Registration  <b>Nishani Harinarain, Dawood Joosab, Hamza Vawda</b>
12h20 - 12h40	Assessing the value of water infrastructure delivery and management in South Africa  <b>Mendy Mabhengu, Onyeka Nkwonta, Theo Haupt</b>	
12h40 - 13h30	<b>LUNCH</b>	
13h30 - 14h10	<b>PLENARY 4: Room A</b> <b>Chair: Prof Theo C. Haupt</b>  <b>Keynote Address: "From Disruption to Disasters – Business Unusual"</b> <b>Gregory Evans</b> Head of Engineering Unit: eThekweni Municipality, Durban	
	<b>Chair: Dr Claudia Loggia</b> University of Kwazulu-Natal <b>Venue: Room A</b>	<b>Chair: Prof Nishani Harinarain</b> University of Kwazulu-Natal <b>Venue: Room B</b>
14h10 - 14h30	The Effect of Disruptive Technologies on Facilities Management: A Case Study of the Industrial Sector  <b>Kathy Michell, Nick Brown, Jason Terblanche, James Tucker</b>	Critical success elements for central government real estate asset management in South Africa - a literature survey  <b>P. Sekalo, F. Dowelani, D.J. Hoffman</b>

<b>14h30-14h50</b>	<p>Factors influencing successful completion of property development projects in Gqeberha, South Africa</p> <p><i>Tandokazi Lerato Mkhwe, Brink Botha, Sebata Phillip Mafereka</i></p>	<p>Construction Organisation's Planning and Implementation: The Case Between Conceptualization and Implementation Teams</p> <p><i>Rashen Maharaj, Innocent Musonda, Adetayo Onososen</i></p>
<b>14h50-15h10</b>	<p>Critical Review of the Impacts of Successful BIM Technology Application on Construction Projects</p> <p><i>Toyin James Olaonipekun, Mewomo Modupe Cecilia</i></p>	<p>Sustainable Approach to the Replacement of Water Mains: Environmental, Social and Economic Considerations</p> <p><i>Young Bert Ediale, Rafiu Dimeji Seidu, Kelani, Robinson Herbert, Ebohon John Obas, Upeksha Madanayake</i></p>
<b>15h10</b>	<p><b>PLENARY 5: Room A</b>  <b>Chair: Prof Theo C. Haupt</b>  <b>Conference Closure</b></p>	
<p><b>Thank You for your attendance!</b></p>		