



Sinoma 中材建设有限公司
CBMI Construction Co., Ltd.

Sustainable Construction in Africa (SCA25) Conference | Nairobi, Kenya | 20-22 May 2025



Time	May 19, 2025, Monday: Pre conference course	May 20, 2025, Tuesday: Conference day 1		
08:00 - 08:30	<i>Pre-conference course registration and Coffee</i>	<i>Registration and Coffee</i>		
08:30 - 09:00	Sustainable cement and new binders: Karen Scrivener	Opening & Plenary session	Meru University, vice chancellor - Prof. Romanus Odhiambo ; Kenya Government official - Eng. Kennedy Matheka ; Swiss Embassy in Kenya - Ms Magdaline Morijoi ; UN-Habitat - Eng. Eric Muchunku ; UNIDO Country Representative - Ms Tally Einav	
09:00 - 09:30		Moderator: Joseph Mwititi		
09:30 - 10:00	Admixtures: Wolfram Schmidt	Keynote: Preventing the Failure of Concrete Structures in Africa: Education and Training are Essential by Charles Nmai		
10:00 - 10:30		Keynote: Reimagining construction from within: towards an alternative future for the African Continent by Aziza Chaouni		
10:30 - 11:00	<i>Coffee break</i>	<i>Coffee break</i>		
11:00 - 11:30	Concrete performance: Shashank Bishnoi	SESSION I (A): Sustainable building materials - SCM, admixture, and recycled materials	SESSION I (B): Sustainable building materials - earth and bio-based materials, bricks and blocks	
11:30 - 12:00				
12:00 - 12:30	Rilem membership introduction: Olonade Kolawole	Moderator: Mehnaz Dhar	Moderator: Olonade Kolawole	
12:30 - 13:00	<i>Lunch</i>	<i>Lunch</i>		
13:00 - 13:30				
13:30 - 14:00	Durability of concrete: Shashank Bishnoi	SESSION II (A): Sustainable building materials - SCM, admixture, and recycled materials	Session II (B): Sustainable building materials - structural and durability performance	
14:00 - 14:30				
14:30 - 15:00	Precast concrete fabrication: Stef Maas			
15:00 - 15:30				
15:30 - 16:00	<i>Coffee break</i>	<i>Coffee break</i>		
16:00 - 16:30	Life cycle assessment: Hisham Hafez	SESSION III: Sustainable construction from the industry: insight, services and products		
16:30 - 17:00				
17:00 - 17:30	<i>Conference registration</i>	Moderator: Ruvimbo Eustina Munemo		
17:30 - 18:00				
18:00 - Onwards		<i>Gala Dinner, social tour</i>		



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Time	May 21, 2025, Wednesday: Conference day 2		May 22, 2025, Thursday: Conference day 3		
08:00 - 08:30	Coffee		Coffee		
08:30 - 09:00	Keynote: Reshaping informal settlements in Africa's emerging Megacities with affordable low-carbon housing solutions by Daniel Wyss		Keynote: Driving Sustainable Construction through Standards, Codes, and Policy by Joseph Mwiti		
09:00 - 09:30	SESSION VI: Sustainable construction: capacity building Moderator: Joseph Mwiti		SESSION VII: Construction industry decarbonization Moderator: Hisham Hafez		
09:30 - 10:00					
10:00 - 10:30					
10:30 - 11:00	Coffee break		Coffee break		
11:00 - 11:30	Panel 1: Towards Sustainable Urban Development: Affordable Housing and Green Construction in Africa	Daniel Wyss, Ruvimbo Munemo, Eric Muchunku, Simone Stuerwald, and Hans Beushausen	Panel 2: Advancing Sustainable Construction in Africa: Establishing Effective Standards, Policies, and Regulations	Mark Bediako, Charles Nmai, Karen Scrivener, Bature Mohammed, and Maurice Akech	
11:30 - 12:00		Moderator: Wolfram Schmidt		Moderator: Olonade Kolawole	
12:00 - 12:30					
12:30 - 13:00	Lunch		Conclusion		
13:00 - 13:30			Lunch		
13:30 - 14:00					
14:00 - 14:30	Session V (A): Sustainable building materials - structural and durability performance Moderator: Mehnaz Dhar	SESSION V (B): Sustainable building materials - SCM, admixture, and recycled materials Moderator: Shashank Bishnoi	Site Visit (09:00 - 15:00 on the 23rd May 2024 at Konza City)		
14:30 - 15:00					
15:00 - 15:30					
15:30 - 16:00	Coffee break				
16:00 - 16:30	SESSION IV (A): Case studies and urban concepts for sustainable construction Moderator: Simone Stürwald	SESSION IV (B): Challenges and best practices for sustainable construction solutions			
16:30 - 17:00					
17:00 - 17:30					
17:30 - 18:00	Free time		Free time		
18:00 - Onwards					

20.05.2025 (Day 1): hh:mm	SESSION I (A): Sustainable building materials - SCM, admixture, and recycled materials	Moderator: Mehnaz Dhar
11:00 - 11:15	Effect of Binary Blend of Sorghum Husk Ash and Glass Powder as Partial Replacement of Cement in Pervious Concrete Production	Murtadha Tijani Kayode Opadotun Waliu Raifu Wasiu Ajagbe
11:15 - 11:30	Linking calcination and reactivity in Kenyan Rice Husk Ashes as supplementary cementitious materials	Barrack Okoya Omondi Meshack Wafula Ikhab Nicole Amondi Obonyo Sylvester Ochieng Abuodha Siphila Wanjiku Mumanya
11:30 - 11:45	Durability of Rice Husk Ash Concrete - An Investigative Report	Wafula Meshack Ikhab Jean-Baptiste D'espinoze De Lacaille Barrack Okoya Omondi
11:45 - 12:00	Influence of Sugarcane Bagasse Fibers on the Mechanical Strength and Porosity of Concrete and modelling with design expert software Made with Forspak 42.5 N Cement in the Republic of Congo	Christ Ariel Malanda Ceti Abel Dominique Eboungabeka Timothée Nsongo Hilaire Elenga
12:00 - 12:15	Use of the volcanic ash cement replacement – impact on a mortar at its fresh and hardened state	Ines Ngassam-Oum Robson Sessignong
12:15 - 12:30	Investigating the Viability of Gold Tailings as a Partial Cement Replacement in Concrete	Phiwayinkosi Bright Nkambule Janina Kanjee
20.05.2025 (Day 1): hh:mm	SESSION I (B): Sustainable building materials - earth and bio-based materials, bricks and blocks	Moderator: Olonade Kolawole
11:00 - 11:15	Simultaneous incorporation of agricultural by-products to enhance unfired earth bricks for sustainable housing in Malawi	Webster Sambo Amr Meawad Takafumi Noguchi
11:15 - 11:30	Promising performance of straw block as climate resilient construction material	Manette Njike Walter O. Oyawa Silvester O. Abuodha
11:30 - 11:45	Investigating the Compressive Strength of Sisal- Reinforced High-Compressed Earth Blocks	Konstantin Nille-Hauf Elosy Kathambi Eric Wente Birol Fitik Jörg Schänzlin
11:45 - 12:00	Effect of wetting-drying cycles on the Alfa fibers stabilized compressed earth blocks	ines Bouteldja khaled Grine Said Kenai
12:00 - 12:15	Lime-Calcined Clay (LC2) cement stabilized compressed earth blocks for sustainable construction in the Soudano-Sahelian zone of Cameroon	Ndigu Billong Moussa Charlot Ibrahim Djagra
12:15 - 12:30	Durability of concrete with agro-based ashes	Miheret Geremew Bizuneh Esayas Gebreyouhannes Ftwi
20.05.2025 (Day 1): hh:mm	SESSION II (A): Sustainable building materials - SCM, admixture, and recycled materials	Moderator: Shashank Bishnoi
13:30 -13:45	Decarbonising Construction: Timber in East Africa Housing	Caroline Ray Geoffrey Mwangi Arup
13:45 - 14:00	Experimental evaluation of LC3 using limestone, calcined laterite, kaolin, sand and rice husk ash (RHA)	Nkansah Nana Kwame Ashley
14:00 - 14:15	Calcined clays as the most appropriate Supplementary Cementitious Material (SCM) for pozzolanic Portland cement in Africa: A comparative study with volcanic pozzolans	Ndigu Billong
14:15 - 14:30	Valorizing a coal combustion byproduct with high carbon content and coarse particle sizes.	Kidist Dereje Bedada Esayas G/youhannes
14:30 - 14:45	Rapid and economic method for testing of clays for cement industry	Mehnaz Dhar Shashank Bishnoi
14:45 - 15:00	Polysaccharide-Based Admixtures for Rheology Control in Low Carbon Concrete	Kabibi Kamashanju Bright Asante Wolfram Schmidt
15:00 - 15:15	Utilising locally sourced indurated laterite and low-grade clay from Cameroon as supplementary cementitious material: Case of Limestone Calcined Clay Cement (LC3).	Christelle Nobouassia Bewa Ronald Tafadzwa Muzenda Fabien Georget Thomas Matschei
15:15 - 15:30	Effects of polysaccharide-based rheology modifying admixtures on early hydration of Portland cement and LC3	Renata Lorenzoni Bright Sabine Wolfram
20.05.2025 (Day 1): hh:mm	Session II (B): Sustainable building materials - structural and durability performance	Moderator: Hisham Hafez
13:30 -13:45	Development of a Life Cycle Inventory Database for Environmental Impact Assessment of Construction Materials in Burkina Faso	Illassou Nouhoun Nshimiyimana, P Hema, C Messan, A.
13:45 - 14:00	Recycling LC3 and other blended cement based concrete at end-of-life	Theodore Hanein

14:00 - 14:15	Carbonation of concrete cured under different conditions	Nafisat Akinniyi Kolawole Olonade
14:15 - 14:30	Influence of climate-controlled and elevated temperature curing on the strength and macropore of metakaolin-slag-based geopolymer mortar	Mustapha Bamidele Jaji Babatunde Luke Ajayi Adewumi John Babafemi Oluwaseyi A. Soyibo
14:30 - 14:45	Towards a performance-based approach in Kenya for the design of durable concrete mixes for steel reinforced concrete (RC) structures	Gladwell Wanjiku Nganga Siphila Mumenya Silvester Abuodha Thomas Mbuya
14:45 - 15:00	Plastic shrinkage cracking of LC3 concrete	Idris Mayowa Abdrafu Adewumi John Babafemi Riaan Combrinck
15:00 - 15:15	Investigating the impact of pre-treatment on recycled concrete aggregates for Pervious concrete applications	John Igeimokhia Braimah Wasiu Olabamiji Ajagbe Najeeb Tijani Adekilekun Murtadha Tijani
15:15 - 15:30		
20.05.2025 (Day 1): hh:mm	SESSION III: Sustainable construction from the industry: insight, services and products	Moderator: Ruvimbo Eustina Munemo
16:00- 16:15	CBMI	
16:15 - 16:30	Africa bambo	
16:30 - 16:45	Calmetrix	
16:45 - 17:00	SIKA	
17:00 - 17:15	Kaolin group	
17:15 - 17:30	GCCA (Recorded)	
21.05.2025 (Day 2): hh:mm	SESSION VI: Sustainable construction: capacity building	Moderator: Joseph Mwiti
09:00 - 09:20	RILEM	Olonade Kolawole
09:20 - 09:40	Academic and industry collaboration	Hans Beushausen
09:40 - 10:00	LC3-TRC AFRICA	Jamil Mahdy Famau
10:00 - 10:20	CWSC Capacity building	Karen Scrivener
21.05.2025 (Day 2): hh:mm	Session V (A): Sustainable building materials - structural and durability performance	Moderator: Mehnaz Dhar
14:00 - 14:15	Activation Energies of Alkali-Silica Reactive: A Review	Khanyisa Majeke Pilate Moyo Mark Alexander
14:15 - 14:30	The impact of Bacillus cereus on mechanical properties of cement mortars in sulphate rich environment	Oketoobo, Akinola Oluwatimilehin Akindahunsi, Akindehinde Ayotunde Adeyemo, Stella M. Oyeboade, Adekunle Yakub
14:30 - 14:45	Compressive Strength and Non-Destructive Evaluation of PLC Concrete with High-Volume Clay Pozzolana	Mark Bediako Timothy Kofi Ametefe Nelson Asante Solomon Adumatta
14:45 - 15:00	Chemical Characterization of Pumice Material Sourced from Mbeya, Tanzania	Patrice Nyangi Yazid Mwishwa Kizito Mwilongo Hokins Moshi Hezekia Nanyaro Shija P. Ng'wandu
15:00 - 15:15	Mechano-chemical activation of smectites to improve early strength of smectite-based LC3-50	Muzenda, Tafadzwa Ronald Fabien Georget Thomas Matschei

15:15 - 15:30	Flexural Behaviour of UHPC Beams with Externally prestressed FRP Bars	Akpabot Ifiok Akpabot Xue Weichen Abimbola Sangodoyin Anthony Ede
21.05.2025 (Day 2): hh:mm	SESSION V (B): Sustainable building materials - SCM, admixture, and recycled materials	Moderator: Shashank Bishnoi
14:00 - 14:15	Potential implications of lateritic clays from the upper geomorphological domain of Mbé (Adamawa-Cameroon) for a sustainable building construction	Japhet Taypondou Darman Jules Hermann Keyangue Tchouata Abdou Nasser Njoya Mfokou Yannick Tchedeke Langollo Albertine Alarba Sam-Tunsa Gilbert François Ngôn Ngôn
14:15 - 14:30	Effects of pyro-processing on hydration reactivity of a locally sourced clay for potential use as a supplementary cementitious material in concrete	Nerissa Chinsamy Janina P Kanjee Yunus Ballim
14:30 - 14:45	Physico-mechanical properties of cement containing calcined clay and slag from the recycling of metal scraps: feasibility towards low carbon cement in Burkina Faso	Philbert Nshimiyimana Daniel Y Adufu Kassoum Kanazoe Moumini Kindo Adamah Messan
14:45 - 15:00	Enhancing Early-Age Compressive Strength of High Volume Calcined Clay Oil-Well Cement with Rice Husk Additives for Improved Performance and Sustainability	Solomon Adumatta Mark Bediako Patrick Boakye Adams Yen Sokama-Nueyam Godfred Ohemeng-Boahen Stephen Adjei
15:00 - 15:15	Strength properties of recycled aggregate limestone calcined clay cement concrete	Tafadzwa Mhene Adewumi John Babafemi
15:15 - 15:30	Influence of Polokwane platinum slag aggregate on the strength properties of Portland cement-based concrete	Babatunde L. Ajayi Mustapha B. Jaji Adewumi J. Babafemi
21.05.2025 (Day 2): hh:mm	SESSION IV (A): Case studies and urban concepts for sustainable construction	Moderator: Simone Stürwald
16:00 - 16:15	Innovating Across Continents Through Sustainable Design: How Studio OMT's Projects Bridge Cultural Heritage and Innovation	Leander Moons Wekesa George
16:15 - 16:30	The Liget Budapest Project - best practices of sustainable urban concepts	Attila Saghi Stefania Fuzes
16:30 - 16:45	Moving Concrete Innovation to Implementation: Lab2Slab2StandardPractice	John T Harvey Somayeh Nassiri Sabbie Miller
16:45 - 17:00	Advancing Sustainable Waste Management through the Application of BIM-aided System in Construction Projects	Ademilade Olubambi Clinton Aigbavboa Bolanle Ikotun
17:00 - 17:15	Comparative case study analysis for sustainable urbanization of Sub-Saharan African Cities	Fatma Mohamed Mareike Thiedeitz Nathalie Jean-Baptiste
10:15 - 10:30	Modern Earth Based Construction Approaches for Sustainable Construction	Simone Stürwal Fiona Langlotz,
21.05.2025 (Day 2): hh:mm	SESSION IV (B): Challenges and best practices for sustainable construction solutions	Moderator: Ruvimbo Eustina Munemo
16:00 - 16:15	Addressing urban sustainability challenges through nature-based solutions: a case of Mzuzu City in Malawi	Loudon Luka
16:15 - 16:30	The Study The Best Practices Of Sustainable Urban Concepts For Infrastructure And Buildings: A Case Study Of Tanzania.	Kelvin C.Luoga Yazid Mwishwa Japhary Shengeza
16:30 - 16:45	Potentials for the African informal sector to become a driving force in sustainable construction	Ada Farai Shaba Wolfram Schmidt Kolawole A. Olonad
16:45 - 17:00	Policy and regulatory framework for sustainable construction in Malawi - challenges for implementation	Effiness C Mpakati Gama Peter Schramm Nema Kadaluka Grace Zimba Phiri Wiseman Chibwezo
17:00 - 17:15	Mitigating Wildfire Risk and Reducing Carbon Emissions: Utilizing Biomass Waste as Biochar in Sustainable Construction Practices	Souvik Roy John Harvey Somayeh Nassiri
10:15 - 10:30	A Review on Barriers and Opportunities for Implementing Sustainable Building Practices in Sub-Saharan African Urban Areas: Future frameworks for sustainable Urban development	B.A. Demiss A. C. Mwende W.A. Elsaigh
22.05.2025 (Day 3): hh:mm	SESSION VII: Construction industry decarbonization	Moderator: Hisham Hafez
09:00 - 09:15	Coordinated laboratory infrastructure that fosters international collaboration in alternative raw material research and optimises future lab layouts for efficient knowledge and resource sharing.	CBMI (TBC)
09:15 - 09:30	Advancing Carbon Emission Mitigation in Modern Methods of Construction: A Framework for Sustainable Innovation	Lerato Kumalo Jeffrey Mahachi Ntebo Ngcobo

09:30 - 09:45	Embodied efficiency: Enabling low-carbon concrete housing in Nairobi, Kenya	Mohamed Ismail Emily Baker Benjamin Hoyle
09:45 - 10:00	Quantifying the Current and Future Greenhouse Gas Emissions from Road Infrastructure in Africa	Iyanuoluwa Filani Tanoogna Mallarapu Ali Azhar Butt John Harvey
10:00 - 10:15	The Role of Green Public Procurement in Driving Demand and Standardization of Low-Carbon Construction Materials	Soledad Reeve Adriana Fernandez Villalobos Tomasz Pawelec
10:15 - 10:30	Decarbonization Roadmap for Buildings and Construction - Kenya	Mumbua Musyimi Global Building Performance Network

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