

Session Program

16–19 Dec 2024

**12th International Conference of the African Materials
Research Society (AMRS)**

CONSTRUCTION/BUILDING INFRASTRUCTURE

Tuesday 17 December

14:00

CONSTRUCTION/BUILDING INFRASTRUCTURE: PARALLEL

Session

14:00–14:20 Towards a Transdisciplinary Research Agenda for Low Carbon Building Materials

Speaker

Prof. Esther Obonyo

14:20–14:40

Multinary inorganic binders from renewable sources: how Africa can pioneer green, renewable construction materials with AI optimised local resources

Speaker

Wolfram Schmidt

14:40–15:00

Improving the quality of earth-based habitats: the lesson from a research and development project in Burkina Faso

Speaker

Prof. Adamah MESSAN

15:00–15:15

Towards the development of eco-cement by partial substitution of clinker with calcined clay and blast furnace slag

Speaker

Philbert NSHIMIYIMANA

15:15–15:30

NOVEL INSIGHT INTO THE USE OF SISAL FIBRE COMPOSITES FOR CONSTRUCTION APPLICATIONS

Speaker

Dr CLEMENCE ANSBERT

15:30–15:45

Analysis of the quality of steel for reinforced concrete structures in Burkina Faso

Speaker

Decroly DJOUBISSIE DENOUWE

15:45–16:00

Prediction of hygroscopic properties of untreated Borassus fiber using Ensemble Learning techniques

Speaker

Assia Aboubakar Mahamat

16:00

16:20

CONSTRUCTION/BUILDING INFRASTRUCTURE: PARALLEL

Session

16:20–16:35 Mycelium Composites: A Sustainable Solution for Africa

Speaker

Ms Stefania Akromah

16:35–16:50

The Role of Sustainable Concrete Production for Climate Resilience in Southern Africa

Speaker

Janina Prakash Kanjee

16:50–17:05

Improvement of the physico-mechanical and durability properties of compressed earth blocks through alkali-activation of lateritic earth at room temperature

Speaker

Dr Seick Omar Sore

17:05–17:20

UV radiation effect on the corrosion inhibition potential of Helichrysum kraussii plant extract on mild steel metal in sulphuric acid medium

Speaker

Lutendo Murulana

17:20

Wednesday 18 December

14:00

CONSTRUCTION/BUILDING INFRASTRUCTURE: PARALLEL

Session

14:00–14:20

Towards a systematic and multi-scale incorporation of geologic conditions in the assessment of geologic hazards: Geologic considerations in lateral spreading estimations.

Speaker

Nancy Ingabire Abayo

14:20–14:35

Utilization of Bio-Based By-Products for Low Carbon Concrete in a Sustainable Circular Economy

Speaker

Kabibi Kamashanju

14:35