

Session Program

16–19 Dec 2024

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

SUSTAINABLE ELECTRONICS

Wednesday 18 December

09:50

SUSTAINABLE ELECTRONICS: PARALLEL

Session

09:50–10:10 Innovative fabrication approaches for scalable soft electronics and photonics

Speaker

Prof. Fabien Sorin

10:10–10:30 Understanding Polarization Switching in Novel Ferroelectrics via Electron Microscopy

Speaker

Prof. Elizabeth Dickey

10:30–10:50 Bio(inspired)-materials for sustainable electronics

Speaker

Micaela Matta

10:50–11:10

Sustainable electronics: case studies on sustainable metals and compostable organic electronics

Speaker

Dr Clara Santato

11:10

11:30

SUSTAINABLE ELECTRONICS: PARALLEL

Session

11:30–11:50 Research Opportunities in Cooling High-Powered Electronics

Speaker

Damena Agonafer

11:50–12:10

Materials science increases an appetite for new technologies while destroying the environment due to lack of proper plans to discard e-waste.

Speaker

Mmantsae Diale

12:10–12:25

Sustainable Fabrication of Electronics and Optics Components by Adopting Metastability of Undercooled Liquid Metal Core-Shells

Speaker

Julia Chang

12:25–12:45 Earth abundant-element ferroic oxide thin-films for energy-efficient devices

Speaker

Jonathan Spanier

12:45–13:00

Effects of copper ion concentration on the structural properties of cadmium oxide thin film by chemical bath deposition

13:00

Speaker
Uchenna Okafor