

Draft: AMRS2024 Preconference on Sensors

Lead Facilitator: Amal El-Ghazaly (Cornell University, USA)

The tentatively proposed program:

Pre-Conference Workshop
<i>Welcome to CMU-Africa and the AMRS2024</i> Tentative Speakers: Conference and Workshop Organizers Date and Time: 8:30 - 9 am on 14 Dec. 2024
<i>Ideation and Pitch Development</i> Tentative Speaker: Wakuna Galega, Associate Director of Performance Innovation at Allergan Aesthetics, USA Date and Time: 9 - 10 am on 14 Dec. 2024
<i>Materials Integration for Sensing</i> Tentative Speaker: Carlos Biao, Manager of Power Generation at GAF Energy, USA Date and Time: 10 - 10:30 am on 14 Dec. 2024
<i>Common Circuits and Amplifiers for Sensing</i> Tentative Speaker: Amal El-Ghazaly, Assistant Professor at Cornell University, USA Date and Time: 10:30 - 11:30 am on 14 Dec. 2024
<i>Powering Your System</i> Tentative Speaker: Firehiwot Gurara, Ph.D. Candidate at Cornell University, USA Date and Time: 11:30 - 12:30 am on 14 Dec. 2024
<i>PCB CAD Layout</i> Tentative Speaker: Olalekan Afuye, Co-Founder of EchoICs, Inc., USA Date and Time: 2 - 3 pm on 15 Dec. 2024
<i>Simple Through-hole PCB Manufacturing</i> Tentative Speaker: Amal El-Ghazaly, Assistant Professor at Cornell University, USA Date and Time: 3 - 4 pm on 14 Dec. 2024
<i>The Art of Soldering</i> Tentative Speaker: Firehiwot Gurara, Ph.D. Candidate at Cornell University, USA Date and Time: 4 - 5 pm on 14 Dec. 2024
<i>Testing and Verification Techniques</i> Tentative Speakers: Biao, El-Ghazaly, Gurara, Afuye, Surajudeen-Bakinde Date and Time: 5 - 6 pm on 15 Dec. 2024
<i>Basic Microcontroller Interfacing</i> Tentative Speaker: Nazmat Surajudeen-Bakinde, Professor at the University of Ilorin, Nigeria Date and Time: 9 - 11 am on 15 Dec. 2024
<i>Data Extraction and Analysis, Using ML and AI</i> Tentative Speaker: Ernest Mwebaze, Executive Director of Sunbird AI, Uganda Date and Time: 2 - 4 pm on 15 Dec. 2024
Team Formation for Sensor Design and Build Competition
<i>Idea Pitches and Team Formation</i> All participants Date and Time: 4 - 5 pm on 14 Dec. 2024
Sensor Design and Build Competition
<i>Sensor Hardware Prototype Development</i> All participants Date and Time: 16-19 Dec. 2024 (in parallel with Main Conference)
<i>Sensor Prototype Presentations and Award Ceremony</i> All participants Date and Time: TBD on 19 Dec. 2024 (Final day of Main Conference)