

Session Program

7-8 Nov 2023

**Seminar - Air Quality and IoT-based Air
Sensors**

***Design & Testing of IoT-based Air Quality
Monitors***

Wednesday 8 November

10:20

Design & Testing of IoT-based Air Quality Monitors: S3.1

Session | Location: | Convener: Dr Oluyemi Toyinbo

10:20-10:35 Design and Evaluation of a Low-cost Weather Station

Speaker
Mr Evans Atioyire

10:35-10:50

Development of an integrated Sensor System for Real-Time Measurement of Particulate Pollutants and Environmental Parameters

Speaker
Alex kimuya

11:00

11:00

Design & Testing of IoT-based Air Quality Monitors: S3.2

Session | Location: | Convener: Dr Oluyemi Toyinbo

11:00-11:15

Development of an IoT based Air Quality Instrument suitable for profiling Particulate Matter (PM) distribution across Nigeria using a PMS5003 and DHT11 digital sensors.

Speakers
Mr Ezechi Nwachukwu Emmanuel, Nasiru Aliyu

11:15-11:30

An IoT-Based Dynamic pollution hotspots areas detection System using ESP8266 NodeMCU and Arduino

Speaker
Mr Ahmed Gueye

11:30-11:45

Air quality monitoring through solid state gas sensor systems in urban environment

Speaker
Dr Ambra Fioravanti

12:00