

# African School on Air Quality and Pollution Prevention in Ghana

*Arrival of Guests: Sunday 30<sup>th</sup> November, 2025*

**17:00 - 19:00: Registration**

## WEEK 1

<b>Day One: Introduction (Monday, 1<sup>st</sup> December 2025)</b>		
<b>Time</b>	<b>Activity</b>	<b>Facilitator</b>
7:30 – 8:30	Breakfast	
8:30 – 9:00	Registration	
9:00 – 10:45	Opening Ceremony	
10:45 - 11:15	Break	All
<b>SESSION II</b>		
11:15 -11:50	<b>Presentation:</b> Sources and emissions (indoor/outdoor) of air pollution from industrial, transportation, and household sectors	Prof. Leonard K. Amekudzi, KNUST
11:50 - 12:00	Q&A	
12:00 – 12:30	<b>Presentation:</b> Identification and characterization of major air pollutants	Dr. Cosmos Wemegah, UENR
12:30 – 12:40	Q&A	
12:40 – 13:30	<b>Presentation:</b> Introduction to air pollution and its global significance	Dr. Pallavi Pant, HEI, USA (online)
13:30 – 13:50	Q&A	
14:00 – 15:00	Lunch	All
15:00 – 15:40	<b>Presentation:</b> Air Quality Monitoring and Measurement Techniques	Dr. Allison Hughes (online), University of Ghana
15:40 - 15:50	Q&A	
15:50 – 16:00	Wrap-Up and Closing	Rapporteur
16:00 - 17:00	Campus Tour	LOC
<b>17:00 –18:00</b>	<b>Icebreaker Reception / Dinner</b>	All

<b>Day Two: Sources and Causes of Air Pollution (Tuesday, 2<sup>nd</sup> December 2025)</b>		
<b>SESSION I</b>		
07:30 – 08:30	Breakfast	All
09:00 – 09:05	Opening Remarks:	Representative Local Organising Committee
09:05 – 09:45	<b>Presentation:</b> Evaluation of Cooking Fuel-Induced Air Pollution and Cooks' Awareness of Smoke Inhalation Risks in	Prof. Marian Asantewah Nkansah

	High School Kitchen	
09:45 – 09:55	Q&A	
09:55- 10:35	<b>Presentation:</b> Future Projections of Pollutant Concentrations	Dr. Carly Reddington, University of Leeds (online)
10:35 – 10:45	Q&A	
10:45 – 11:20	<b>Presentation:</b> Challenges related to AQ monitoring using LCS	Dr. Allison Hughes, University of Ghana (online)
11:20 – 11:30	Q&A	
11:30 – 12:00	Break	
<b>SESSION II</b>		
12:00 – 12:50	<b>Presentation:</b> Interpretation of air quality indices and reporting	Dr. Victoria Owusu Tawiah, KCRC, Ghana
12:50 - 13:00	Q&A	
13:00 – 13:50	<b>Presentation:</b> Overview of the air pollution situation in Ghana	Dr. Raphael Arku, UMass/Amherst, USA
13:50 – 14:00	Q&A	
14:00 – 15:00	Lunch	All
15:00 - 15:45	<b>Presentation:</b> Forest Emissions and their Impact on Air Quality	Dr. Caleb Mensah, UENR
15:45 - 15:55	Q&A	
15:55 - 16:40	<b>Presentation:</b> Air Quality works/initiatives from the Kintampo Health Research Centre	Mohammed Mujtaba Kintampo Health Research Centre (online)
16:40 - 16:50	Q&A	
16:50 – 17:00	Wrap Up and Closing	Rapporteur
17:00 – 18:00	Dinner	
<b>Day Three: Health and Social Impacts of Air Pollution (Wednesday, 3<sup>rd</sup> December 2025) SESSION I</b>		
07:30 – 08:30	Breakfast	All
09:00 – 09:05	Opening Remarks	Representative Local Organising Committee

09:10 – 10:00	<b>Presentation:</b> Equity implications of air quality	Prof. Gift Dumedah, KNUST
10:00 – 10:10	Q&A	
10:10 - 11:10	<b>Presentation:</b> Urban Emissions	Prof. Sarath Guttikunda, Urban Emission info ( <b>online</b> )
11:10 - 11:20	Q&A	
11:30 – 12:00	Break	
12:00 – 12:50	<b>Presentation:</b> Vulnerable populations and the social dimensions of air pollution	Dr. Raphael Arku, UMass, Amherst, USA
12:50 - 13:00	Q&A	
13:00 - 14:00	<b>Demonstration:</b> (Turning Air Quality Data into Policy Solutions for Africa: A Practical Demonstration via Policy Simulation)	Dr. Victoria Owusu Tawiah & AQ Ambassadors

14:00 – 15:00	Lunch	All
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## SESSION II

15:00 - 16:00	Presentation of Group Tasks Q&A	Dr. Victoria Owusu Tawiah & AQ Ambassadors
16:00 - 16:50	<b>Presentation:</b> Health effects of exposure to air pollutants	Dr. Pallavi Pant, HEI, USA
16:50 - 17:00	<b>Q&amp;A</b>	
17:00	Wrap Up & Closing	Rapporteur
17:00 – 18:00	Dinner	

## Day Four: Data Analysis and Interpretation (Thursday, 4<sup>th</sup> December 2025)

### Session I

07:30 – 08:30	Breakfast	All
09:00 – 09:05	Opening Remarks	Representative Local Organising Committee
09:05 - 09:35	<b>Presentation:</b> Air Pollution Emission Standards and Regulatory framework and policies in Ghana	EPA /Ing Selina Amoah
09:35 - 09:45	Q&A	
09:45 - 10:25	<b>Presentation:</b> Leveraging Air Quality Monitoring and Data Management to Drive Evidence-Based Policy and Action	Dr. Ngongang Wandji Danube, SEI Africa
10:25 - 10:35	Q&A	
10:35 - 11:20	<b>Practical Session:</b> Air Quality Questionnaire Sampling & Focus Group Engagements (Co-Production)	Dr. Raphael Arku, UMass, Amherst, USA
11:20 - 11:30	Q&A	
11:30 – 12:00	Break	
12:00 - 13:00	<b>Practical computing session:</b> Health impact assessment of long-term PM2.5 exposure.	Dr. Pallavi Pant, HEI, USA
13:00 - 13:10	Q&A	
13:10 - 13:40	<b>Presentation:</b> State of Global Air Quality	Dr. Pallavi Pant, HEI, USA
13:40 - 13:50	Q&A	

## SESSION II

14:00 – 15:00	Lunch	All
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15:10 - 16:40	<b>Panel Discussion:</b> Economic costs of air pollution  Chair / moderator: Prof. Emmanuel Quansah	Mr. Desmond Appiah (CAF) Dr Pallavi Pant (HEI) Ing. Selina Amoah (EPA) Mr. Kwame Ofori-Agyemang (GMet) Dr. Raphael Arku (UMass) Dr. Ngongang Wandji
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		Danube, SEI Africa
16:50 – 17:00	Wrap Up & Closing	Rapporteur
17:00 – 18:00	Dinner	
<b>Day Five: Air Quality Monitoring and Measurement Techniques (Friday, 5<sup>th</sup> December 2025)</b>		
<b>SESSION I</b>		
07:30 – 08:30	Breakfast	All
09:00 – 09:05	Opening Remarks	Representative Local Organising Committee
09:05 - 10:00	<b>Practical computing session:</b> Analysing air pollution data and calculating health-relevant metrics.	Dr. Cosmos Wemegah
10:00 - 10:40	<b>Presentation:</b> Introduction to low-cost sensors (Demonstrations)	Tedy Mwendwa, Kenyatta University, Kenya
10:40 - 12:00	<b>Practicals:</b> Introduction to low-cost sensors (Demonstrations)	Tedy Mwendwa, Kenyatta University, Kenya
12:00 - 12:30	Break	All
12:30 - 13:00	<b>Presentation:</b> Improving quantitative evidence base in a data	Prof. Dan Westervelt (online)
13:00 - 13:30	<b>Presentation:</b> Air pollution modelling case studies	Prof. Dan Westervelt (online)
13:30 - 13:40	Q&A	
13:40 - 14:00	Overview of Engagement & Participant Expectations	Local Organizing Committee
14:00 – 15:00	Lunch	All
<b>SESSION II</b>		
15:00 - 16:40	<b>Community Engagement</b>	Participants / AQ Ambassadors
16:45 – 17:00	Wrap Up and Closing	Rapporteur
17:00 – 18:00	Dinner	
<b>WEEKEND BREAK: (6<sup>th</sup> and 7<sup>th</sup> November 2025)</b>  <b>Day 6: Recreational Activities @ Paa Joe Stadium</b> <b>Day 7: Movie/Karaoke Night</b>		
<b>Week Two</b>		
<b>Day Eight: Air Quality Framework and Policies / Fieldwork (Monday, 8<sup>th</sup> December 2025)</b>		
<b>SESSION I</b>		
07:30 – 08:30	Breakfast	All
09:00 – 09:05	Opening Remarks:	Local Organising Committee
09:05 - 09:40	<b>Presentation:</b> Communication Strategies	Ato-Kwamena Dadzie Environment

		Communication Expert
09:40 - 09:50	Q&A	
09:50 – 10:00	Overview on Fieldwork	Local Organising Committee
10:00 - 10:30	Break	
10:30 – 14:30	Fieldwork	Participants / AQ Ambassadors
14:30 - 15:30	Lunch	
15:30 - 16:40	Group Analysis of Field Survey and AQ Data	
16:40 - 17:00	Wrap Up and Closing	Rapporteur
17:00 - 18:00	Dinner	
<b>Day Nine: Schools' Outreach (Tuesday, 9<sup>th</sup> December 2025)</b>		
07:30 – 08:30	Breakfast	
09:00 – 09:10	Opening Remarks:	Local Organising Committee
09:10 - 09:40	<b>Presentation:</b> Clean energy alternatives and renewable technologies	Dr. M. K. E. Donkor, KNUST
09:40 - 10:10	<b>Project Update:</b>	AQ Ambassadors
10:10 - 10:20	Q&A	
10:20 - 11:00	Lightning Talks	All Participants
11:00 - 11:30	Break	All
12:00 - 12:45	Lunch	
13:00 - 16:40	Schools Outreach	All Participants
16:40 - 17:00	Wrap Up and Closing	Rapporteur
<b>Day Ten: Mitigation Strategies and Fieldwork (Wednesday, 10<sup>th</sup> December 2025)</b>		
07:30 – 08:30	Breakfast	All
09:00 – 09:10	Opening Remarks:	Local Organising Committee
09:10 - 11:30	<b>Group Presentations</b> (Fieldwork, Community and School Engagement)	All Participants
11:30 – 12:00	Break	All
12:00 - 13:00	<b>Group Presentations</b> (Fieldwork, Community and School Engagement)	All Participants
13:00 - 13:30	Evaluation	
13:30 - 14:00	Recap of key learnings from the summer school and evaluation	Rapporteur
14:00 - 15:00	Lunch	
17:00 - 20:00	<b>Network Dinner &amp;</b> Closing ceremony and distribution of certificates	

**Departure (11th December 2025)**

