

GHANA INSTITUTION OF ENGINEERING

2026 ANNUAL GENERAL MEETING & CONFERENCE

Theme: **“Engineering the Food Security and Sustainable Agriculture Value Chain”**

Venue: **Volta Serene Hotel, Ho, Ghana**

Date: **March 16 – 20, 2026**

	Time	Monday March 16	Tuesday March 17	Wednesday March 18	Thursday March 19	Friday March 20	
	06:00 - 07:00	Oxygen Heath Walk/Aerobics					
Morning	08:00 - 09:00	Conference Registration				Annual General Meeting	Field Trips
	09:00 - 11:00	Young Engineers Forum (@ Sky Plus Hotel)	Artisans Forum (@ Hotel Stevens)	Opening Ceremony	WinE Forum		
	11:00 - 12:00			HEALTH BREAK & EXHIBITIONS/POSTER SESSION			
12:00 - 13:00	Keynote Presentation			Industry Presentations			
Afternoon	13:00 - 14:00	LUNCH BREAK					
	14:00 - 15:00	Indoor Games		Panel Discussion	Project Presentations		
	15:00 - 17:00			Technical Session 1 (A/B)	Technical Session 2 (A/B)		
Evening	17:00 - 18:30	EVENING BREAK				Departures	
	18:30 - 21:00	Woezor Night	International Delegates Welcome	WAFEO Meeting	Conference Banquet		

CONFERENCE PROGRAMME

Monday, March 16, 2026		
08:00 - 09:00	Conference Registration	
09:00 - 14:00	Young Engineers Forum (@ Sky Plus Hotel)	Artisans Forum (@ Hotel Stevens)
14:00 - 17:00	Indoor Games	
18:30 - 21:00	Woezor Night	
Tuesday, March 17, 2026		
Moderator: Ing Harold Esseku /Ing Dr. Emmanuella Kwao-Boateng		
08:00 - 09:00	Conference Registration	
09:00 - 11:00	Opening Ceremony	
11:00 - 12:00	HEALTH BREAK/ EXHIBITIONS/POSTER SESSION	
Keynote Presentation		
12:00 - 13:00	Engineering the Food Security and Sustainable Agriculture Value Chain	Hon. Eric Opoku (Minister of Food and Agriculture)
13:00 - 14:00	LUNCH BREAK	
14:00 - 15:00	Panel Discussion: Engineering the Food Security and Sustainable Agriculture Value Chain (Moderator: Ing Yaa Okudjeto)	Hon. Kwasi Etu-Bonde (Technical Advisor, MoFA) Mrs. Dzigbordi A. Kanga (Rep from GIDA), Ing. Dr. Ephraim Sekyi-Annan (SRI - CSIR) Ing. Ato Brown (Private Sector)
Technical Session 1A - Infrastructure for Sustainable Agricultural Value Chains (Chair: Ing Prof. Mexoese Nyatuame; Rapporteur: Ing. Cynthia Gamadeku)		
15:00 - 15:15	Finite element analysis of a solar-powered cocoa pod breaker for smallholder farmers	Paxwell Dampsey Adjei
15:15 - 15:30	Engineering safe wastewater reuse for aquaculture: water quality evidence and risk assessment from Legon, Ghana	Daniel Sarpong
15:30 - 15:45	Farmmaster™: a modular multi-tool robot to mechanize smallholder farming for food security in Ghana	John Abu-Gyansah
15:45 - 16:00	Effect of feed rates on performance of a d throw-in axial-flow rice thresher	Gerald Ahorbo
16:00 - 16:15	Temperature-controlled soda pulping from Agro-waste of coconut husk	Samuel N. Awuah
16:15 - 16:45	Q & A	

16:45 - 17:00	Closing Remarks	
	Technical Session 1B - Climate-Smart Agriculture Systems (Chair: Ing Sophia Abena Tijani Rapporteur: Ing Francis Amoah)	
15:00 - 15:15	Rooftop solar PV-grid integration and its impact on power factor degradation: implications for energy efficiency in electricity distribution services	Edward Dodzi Amekah
15:15 - 15:30	Can Agrivoltaic technology improve vegetable yield and water productivity in semi-arid climates? Lessons from the Tropical Agrivoltaic Research Fields (TARF) in Ghana	William Amponsah
15:30 - 15:45	Effect of bio stimulants on the growth, yield, and quality of moringa oleifera lam in a square foot	Emmanuel Bafiile
15:45 - 16:00	Sustainable concrete solutions for resilient Agro-infrastructure and food security	Timothy Kofi Ametefe
16:00 - 16:15	Using remote sensing applications and models to improve irrigation water management: a case study of the Bontanga Irrigation Scheme	James K. Ashaley
16:15 - 16:45	Q & A	
16:45 - 17:00	Closing Remarks	
Wednesday, March 18, 2026		
Moderator: Ing. Sheila Odoteye		
08:00 - 09:00	Conference Registration	
	16th WinE Forum	
09:00 - 09:05	Opening Prayer	Rev. Ing Matilda Ameade (WinE Vice President)
09:05 - 09:10	Introduction of Invited Guests	Event Moderator
09:10 - 09:15	Welcome Address	Ing Naki Tetteh-Anowie (WinE President)
09:15 - 10:00	Panel Discussion (Moderator: Ing Carlien Bou-Chedid)	<ul style="list-style-type: none"> • Ms. Janet Adade • Charlotte Tay • Dr. Grace Doku • Dr. Nana Adwoa S. Boateng • Ms. Lorinda Zigah
	Showcasing of Student Projects from WinE Affair 2025	
10:00 - 10:45	Presentation from Kumasi Technical University	Ing Alberta Amankwah (Mentoring, Coaching & Education (MCE) Lead)
	Presentation from Ho Technical University	
	Q&A	
10:45 - 10:50	Wrap Up and Vote of Thanks	Ing Miriam Amponsah (Sponsorship & Financial Management Lead)

11:00 - 12:00	HEALTH BREAK / EXHIBITIONS / POSTER SESSION	
	Industry Presentations	
12:00 - 12:15	About Volta River Authority	Volta River Authority
12:15 - 12:30	Future of Engineering Education	Ing Prof. S. I. K. Ampadu (KNUST)
12:30 - 13:00	The Engineering Council Act - Guidance for Professionals	Ing Bedu (Registrar, Engineering Council)
13:00 - 14:00	LUNCH BREAK	
	Project Presentations	
14:00 - 14:25	Irrigation Development for Agriculture Transformation in Ghana	Ing Eric Samuel Adu-Dankwa (Ghana Irrigation Development Authority)
14:25 - 14:40	Climate-smart fruit value chains for resilient and inclusive growth in Ghana	Dr. Akwasi Adu-Poku (Swisscontact Ghana)
14:40 - 14:50	National Pensions Act 2008 (Act 766)	National Pensions Regulation Authority
14:50 - 15:00	Alternative Dispute Resolution	GhIE ADR Team
	Technical Session 2A - Innovative Engineering Solutions for Food Security (Chair: Ing. Prof. Francis Kemausour Rapporteur: Ing. William Amoah)	
15:00 - 15:15	Machine learning-based prediction of soil organic carbon using environmental covariates from the harmonized world soil database	Yen Adams Sokama-Neuyam
15:15 - 15:30	Design and techno-economic analysis of a solar-powered, IoT-enabled community-based cold storage hub for reducing post-harvest losses of horticultural produce in Ghana	George Ayensu
15:30 - 15:45	Engineering smart transport and logistics infrastructure for sustainable agricultural value chains in Ghana: a systems approach	Frank Kwabena Adu
15:45 - 16:00	Scaling affordable precision agriculture for smallholder farmers to strengthen food security in Ghana	Emmanuella A. Boateng
16:00 - 16:15	Enhancing structural reliability through an improved analytical approach to beam vibration analysis	Ebenezer D. Ahiati
16:15 - 16:40	Q & A	
	Technical Session 2B - Infrastructure for Sustainable Agricultural Value Chains (Chair: Engr. Dr. Bola J. Mudasiru Rapporteur: Ing. Lordina Mends)	
15:00 - 15:15	Optimisation studies on catalytic pyrolysis of plastic waste and rice husk char	Jerome Dela Lavie
15:15 - 15:30	Decentralised irrigation water treatment using a hydrodynamic vortex separator and activated carbon filtration	Dinah Asamoah-Antwi
15:30 - 15:45	Circular sanitation economy: wastewater-to-resource assessing the impact of wastewater treatment plants and	Lukman Y. Salifu

	biodigesters in improving outdoor amenities and agriculture in low-income urban communities	
15:45 - 16:00	Wholesale electricity markets as catalysts for food security and sustainable agriculture	Obed K. Essandoh
16:00 - 16:15	Resource recovery for food security: assessing the contribution of WWTPS to the water-energy-food nexus	Jacqueline Sampah-Adjei
16:15 - 16:40	Q & A	
16:40 - 17:00	Conference Closing Remarks	
17:00 - 17:30	EVENING BREAK	
17:30 - 18:30	WAFEO Meetings	
Thursday, March 19, 2026		
09:00 - 14:00	Annual General Meeting	
14:00 - 15:00	Press Briefing on Conference and AGM	
18:00 - 21:00	Conference Dinner	
Friday, March 20, 2026		
09:00 - 14:00	Field Trips (Vankharis Ghana Ltd, Keleawo Ghana Ltd., Integrated Recycling and Compositing Plant, Tafi Atome Monkey Sanctuary & Wli Waterfalls)	
)14:00 - 18:00	Departures	