

9TH UMaT BIENNIAL INTERNATIONAL MINING AND MINERAL CONFERENCE

THEME

INNOVATION IN MINING AND MINERAL PROCESSING;
EXPANDING THE FRONTIERS OF MINING TECHNOLOGY

CALL FOR PAPERS

OBJECTIVES & SCOPE

- » Present new research and exchange experiences and practices in mining and other engineering disciplines;
- » Discuss sustainable resource development issues; and
- » Expatiate on the new concept of the mine of the future.

CONFERENCE ACTIVITIES

- » Technical Sessions and Workshops
- » Poster Sessions
- » Technical Visit

CONFERENCE TRACKS

MINING INNOVATIONS AND TECHNOLOGY

- » Mine Planning and Design
- » Surface and Underground Mining Systems
- » Mine Optimisation
- » Explosives and Blasting Technologies
- » Sustainable Artisanal and Small-Scale Mining
- » Mine Closure and Decommissioning
- » Mine Resources Management
- » Artificial Intelligence/Machine Learning in Mining Systems

ADVANCEMENT IN MINERALS PROCESSING

- » Advances in Minerals Processing
- » Mine to Mill Concepts
- » Advanced Comminution, Crushing and Milling Technologies
- » Hydrometallurgy and Bio-Processing Innovations
- » Process Innovation and Recovery Optimisation
- » Tailings Management
- » Innovation and Sustainability in Materials Engineering.

GEOLOGICAL AND GEOMATIC ENGINEERING

- » Mineral Exploration and Resource Assessment
- » Geotechnical Engineering and Rock Mechanics
- » Structural Geology and Geophysics
- » Hydrogeology and Groundwater Management
- » Geophysical Methods for Mineral and Hydrocarbon Exploration
- » Geographic Information Systems (GIS) and Spatial Analysis
- » Remote Sensing Applications
- » Surveying for Engineering
- » Emerging Technologies in Geomatic Engineering and Geodesy

PETROLEUM AND ENERGY INNOVATION

- » Advanced Exploration and Production Technologies
- » Sustainable Drilling and Well Construction Technologies
- » Offshore and Deepwater Engineering Innovations
- » Oil and Gas Management
- » Advanced Refining and Petrochemical Technologies
- » Clean and Low-Carbon Energy Technologies in the Petroleum Sector
- » Critical Minerals and Energy Transitions
- » Energy Storage, Battery Technologies, and Grid Stability

ADVANCEMENTS FOR HEALTH, SAFETY AND ENVIRONMENTAL SUSTAINABILITY

- » Biotechnology and Innovations for Environmental Sustainability
- » Circular Economy and Waste Management Technologies
- » Climate Change Mitigation and Biodiversity Conservation
- » Environmental Monitoring and Management
- » Work and Process Safety
- » Water Sustainability and Wastewater Treatment
- » Emergency Response, Disaster Preparedness and Crisis Management
- » Environmental Impact Assessment

ELECTRICAL, MECHANICAL AND COMPUTING TECHNOLOGIES

- » Mechatronics, Autonomous Systems and Robotics
- » Internet of Things (IoT) and Smart Systems
- » Artificial Intelligence, Machine Learning, and Data Analytics
- » Computing Systems, Cloud Technologies and High-Performance Computing
- » Power Systems and Electrical Machines
- » Virtual/Augmented Reality for Engineering
- » Agricultural Technologies for Sustainable Food Systems
- » Mechanical Design, Materials and Structural Analysis
- » Fluids and Hydraulic Systems

SUSTAINABLE BUSINESS PRACTICES AND GOVERNANCE APPROACHES

- » Natural Resource Governance and Policy Frameworks
- » Circular Economy and ESG (Environmental, Social, and Governance)
- » Sustainable Business Development Models and Finance
- » Gender and Civic Issues in the Minerals Industry
- » Sustainability Reporting, Transparency and Accountability
- » Risk Assessment and Mitigation in Sustainable Investment Projects
- » Value Chain Management
- » Communication and Media Strategies for Sustainability

IMPORTANT DATES

The deadline for submission of manuscripts: **30th April, 2026**

Final author notifications: **15th June, 2026**

The deadline for registration for participation: **30th June, 2026**

Camera ready paper submission: **30th June, 2026**

Dates & Venue:

Pre-conference Workshop: Sustainable Small Scale Mining School,
27th – 29th July, 2026

Main Conference Opening: **30th July, 2026** (UMaT Auditorium, Tarkwa, Ghana)

Conference Sessions: **30th – 31st July, 2026** (UMaT Auditorium, Tarkwa + Zoom) - hybrid format



To submit a paper, visit the conference website and click on **REGISTER** or **REGISTRATION** (Register Here). You will be required to create an account.

REGISTRATION FEE
Main Conference:
Local Participant **US\$ 100**
(Cedi Equivalent)
International Participant **US\$ 200** (Cedi Equivalent)
Students **US\$ 50** (Cedi Equivalent)
Small Scale Mining School **GHS 1000**



Organiser:

University of Mines and Technology (UMaT),
Tarkwa, Ghana

Website: conference.umat.edu.gh