



AMGC Director General's Message



During the month of September 2024, the Director General of AMGC participated in the Multistakeholder AMV & AMGF review workshop at AU Headquarters in Addis Ababa, Ethiopia on 12nd - 13rd September 2024. A training certificate handout ceremony carried out to Eng. António Sumaera Madane, an environmentalist at INAMI, Mozambique. The Director General of AMGC paid a courtesy visit to Dr. Marit, the Interim Director of the AMDC in Addis Ababa, Ethiopia on 17th September 2024. The Director General of AMGC paid also a courtesy visit to the

Embassy of the Sudan in Addis Ababa on 18th September 2024. H.E. the Ambassador of Sudan invited the Director General of AMGC to dinner. AMGC expresses its appreciation and gratitude to the Sudan for fulfilling its financial commitments to the Centre. On 21st September 2024, the Director General of AMGC paid a courtesy visit to the UNECA Headquarter in Addis Ababa, Ethiopia. The Director General of AMGC attended the celebration of the 94th National Day of the Kingdom of Saudi Arabia in Dar es Salaam. AMGC conducted a farewell ceremony to Miss. Assia Ahamada El Badaoui, a Comorian who has successfully completed an 8-week internship programme. AMGC welcomed Professor Lamine Zerbo from Ouagadougou University, Burkina Faso to attend a two-week hands-on ceramic training course. AMGC conducted industrial training completion ceremony for 4 undergraduate students from Ardhi University in Tanzania. AMGC conducted also a farewell ceremony to 5 undergraduate students from the University of Dodoma (UDOM) Tanzania. AMGC also conducted a farewell ceremony to 4 undergraduate students from the University of Dar es Salaam (UDSM)

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AFRICAN FORUM AND NETWORK
ON DEBT AND DEVELOPMENT



The Director General of the African Minerals and Geosciences Centre (AMGC) was invited and sponsored to participate in the Multistakeholder Africa Mining Vision (AMV) and Africa Mineral Governance Framework (AMGF) review workshop, organized by the Interim Secretariat of the African Minerals Development Center (AMDC) in partnership with the United Nations Development Program (UNDP) and African Forum and Network on Debt and Development (AFRODAD). The workshop took place from the 12nd to the 13rd of September 2024 at the African Union Headquarters in Addis Ababa Ethiopia.



AFRICAN FORUM AND NETWORK
ON DEBT AND DEVELOPMENT



With Ms. Thekla Mutero head and founder of Emerging Mining Association of Namibia (EMAN), which is a Non-profit organization which is the first national association representing Namibian mining start up entrepreneur ecosystem who are small-scale miners in Namibia.



With Ms Agnes Sapana Kumuyangi Director General of the Geological Survey of South Sudan; Ministry of Mining in South Sudan



On 13rd September 2024 the African Minerals and Geosciences Centre (AMGC), an ISO 9001:2015 performed a certificate handout ceremony to Eng. António Sumaera Madane, Environmental Engineer at the National Institute of Mines (INAMI), Mozambique. Eng. Antonio successfully completed a two-week training course on Mine Closure and Closure Management in the Department of Mineral Processing and Small-Scale of AMGC from 2nd September to 13rd September 2024. Mozambique is one of the member states of AMGC and has continued to maximize its beneficiation particularly the capacity building and analysis from the mineral services provided by AMG



On 17th September 2024, Mr. Ibrahim Shaddad, the Director General of the African Minerals & Geosciences Centre (AMGC), paid a courtesy visit to Dr. Marit Kitaw, the Interim Director of the African Minerals Development Centre (AMDC). It is worth mentioning that Dr. Marit is the representative of the African Union Commission (AUC) in AMGC Policy Organs, namely the Board of Directors (BoD), Standing Committee of Officials (SCO) and Governing Council (GC). The meeting was

held at the temporary premises of AMDC in the headquarters of AU based in Addis Ababa, Ethiopia. The meeting was attended by:-

1- Dr. Alhaji Tunde Arisekola (FNMGS), the United Nations Development Programme, UNDP, the Senior Advisor on Geological and Mineral Information (GMI) in AMDC.

2- Mr. Mkhululi N. Ncube, the Officer in charge of Artisanal Small Scale Mining (ASM) at AMDC. Mr. Ibrahim Shaddad briefed Dr. Marit and her senior assistants regarding the performance of AMGC and challenges facing the Centre.

Furthermore, the meeting discussed sharing ideas, strategies, processes, and techniques for cooperation between the two organizations for serving the mining sector and geoscience communities in Africa.



On 21st September 2024, Mr. Ibrahim Shaddad, the Director General of the African Minerals and Geosciences Centre (AMGC), paid a courtesy visit to the United Nations Economic Commission for Africa (UNECA) headquarter based in Addis Ababa, Ethiopia. The Director General of AMGC met Dr. Nassim Oulmane, Director of Technology, Climate and



Natural Resources Management Division. The meeting was attended by Dr. John Robert Sloan, the Economic Affairs Officer of Green and Blue Economy Section, Technology, Climate Change and Natural Resources Management Division (TCND) at UNECA.

Mr. Shaddad briefed the two UNECA officials regarding performance of AMGC, developments and challenges facing the Centre as well as arrangements for holding the AMGC Policy Organ Meeting, which is expected to be hosted and chaired by Kenya, the member state of AMGC in Nairobi.

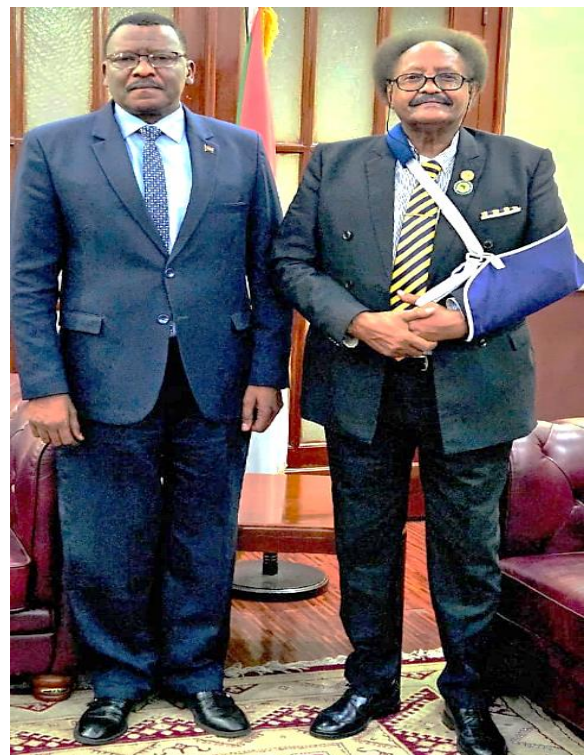
It is worth mentioning that the Centre has been established since 1977 with the help of the United Nations Economic Commission for Africa (UNECA). The UNECA is represented in the three levels of AMGC' higher policy level organs which are Ministerial Governing Council (GC), Standing Committee of Officials (SCO), chaired by UNECA and Board of Directors (BOD) vice chaired by UNECA. The post of incoming AMGC's Director General will be widely advertised, and the selection panel is chaired by the Executive Secretary of UNECA.



On 18th September 2024, Mr. Ibrahim Shaddad, the Director General of the African Minerals and Geosciences Centre (AMGC), paid a courtesy visit to the esteemed Embassy of the Sudan in Addis Ababa, Ethiopia. The Director General of AMGC met H.E. Elzein Hussein, the Ambassador of the Republic of the Sudan to Ethiopia and Permanent Representative to the AU and UNECA.

H.E. H.E. Elzein Hussein was briefed among other issues regarding the current work visit of Mr. Ibrahim Shaddad to participate in the Multistakeholder Africa Mining Vision (AMV) and Africa Mineral Governance Framework (AMGF) review workshop, organized by the Interim secretariat of the African Minerals Development Center (AMDC) in partnership with the United Nations Development Program (UNDP) and African Forum and Network on Debt and Development (AFRODAD). The workshop took place from the 12th to the 13th of September 2024 at the African Union Headquarters in Addis Ababa Ethiopia.

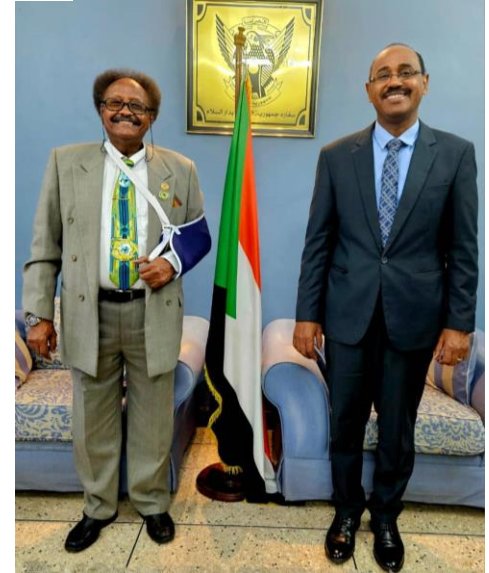
The Director General of AMGC expressed gratitude and appreciation for Sudan's sustainable support through both the Ministry of Foreign Affairs and the Ministry of Minerals, which enabled the Centre to implement its activities to its highest peak. It is worth mentioning that the Sudan joined the Centre in 2010, becoming the 8th member state, chaired the AMGC Governing Council, and hosted the Policy Organ Meetings two times in Khartoum (2012 and 2019).





H.E. Al-Zain Ibrahim Hussein, the Ambassador of the Sudan and the diplomatic staff of the Sudanese Embassy in Addis Ababa, Ethiopia, invited Mr. Ibrahim Shaddad, the Director General of the African Minerals and Geosciences Centre (AMGC) to a dinner. Mr. Shaddad, who is of Ethio-Sudanese origin, a public diplomacy activist and interested in strengthening Ethio-Sudanese Solidarity in all fields. The dinner invitation was a useful opportunity to share information, enhance knowledge, discuss and exchange ideas how to enhance ties between the two neighboring countries and brotherly peoples through peace, stability, mutual benefits and common socio-economic development, prosperity, social interaction, ethnic intermixing, intervening history and mutual interest for common destiny.

There a need to emphasis on the importance and significance of public diplomacy and the role of communities, popular friendship associations, intellectuals, writers, musicians, athletes, forum activities, seminars and popular dialogues in establishing the foundations of peace and harmony between the two brotherly nations, neighboring countries and the nations of the region. Friendship, love, cooperation and peace are inevitable in Sudanese-Ethiopian relations, and it is necessary to strive to enhance the role of popular relations between the two neighboring countries and brotherly peoples and harness them to consolidate common relations in various aspects and fields, with full belief in the official role and agreement with it and developing official and popular efforts to advance relations and the people of the region.



APPRECIATION & GRATITUDE

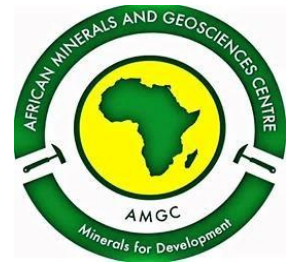
The African Minerals and Geosciences Centre (AMGC) would like to express its much appreciation and gratitude to the Sudan for fulfilling its financial commitments to the Centre. Mr. Ibrahim Shaddad, the Director General of the African Minerals and Geosciences Centre (AMGC) paid a courtesy visit to H.E. Mr. Asm Mustafa, the Charge' d'affaires of the Sudan Embassy in Dar es Salaam, Tanzania on 6th September 2024 to express much appreciation and gratitude for the arrangement which have been done to send the annual subscription of Ministry of Minerals on behalf of the Government of the Sudan through the Ministry of Foreign Affairs of Sudan to the Centre. H.E. Mr. Asm Mustafa assures the sustainable support of the Sudan to AMGC and expressed his high concern to enhance the existing excellent and fruitful relationship and cooperation that the Sudan and AMGC share for strengthening beneficial partnerships to push for the Centre's mission and mandate in serving the Mining Sector and Geosciences community in the Sudan and African Countries. It is worth mentioning that the Sudan is the last member state to join the work force of AMGC in August 2010. The Sudan chaired the AMGC 33rd and 39th Governing Council Meetings hosted in Khartoum in 2013 and 2019 respectively. Sincerely recognizes the outstanding commitments and obligations of the Government of Sudan to the Centre that enable it to implement its activities to its

highest peak. The Sudan has been unreserved Supporting the Centre in overcoming repeated financial constrain that the Centre is facing. The Sudan is ranking the second after Tanzania the host country of AMGC in utilizing the AMGC's mineral services and in this regard the Sudan contributes honorably in the 40% annual operational budget to be generated by the Centre. The Sudan is leading in timely fulfilling its annual subscription to the Centre and injecting additional funds through maximizing its beneficitation from mineral services particularly paid training courses provided by the Centre. Since Mr. Ibrahim Shaddad, the current Director General of AMGC has been fully on board in July 2015, a total of 440 paid training opportunities were provided to Sudanese professionals from Geological Research Authority of Sudan (GRAS), Sudanese Mineral Resources Company (SMRC), Ariab Mining Company (AMC) and Sudan's Gold Refinery. The Sudanese professionals have been trained in various on-job-training courses at the AMGC based in Dar es Salaam, Tanzania and one paid outreach training course held at the premises of GRAS in Khartoum.

لِلرَّاءِةِ السُّعُودِيَّةِ



In the honor of the 94th National Day of the Kingdom of Saudi Arabia H.E. Yahya Ahmed Okeish, the ambassador of Saudi Arabia to United Republic of Tanzania requested for the pleasure of Mr. Ibrahim Shaddad, the Director General of the African Minerals & Geosciences Centre (AMGC) at a Reception on Monday 23rd September 2024 at 6:30 p.m. – Johari Rotana Hotel, Dar es Salaam; Tanzania. A number of Tanzanian officials and foreign diplomats, including the Director General of AMGC attended the celebration, which H.E. Yahya Ahmed Okeish highlighted the significance of the anniversary and reviewing bilateral cooperation with Tanzania. The guest of honour was Hon. the Minister for Ministry of Foreign Affairs and East African Cooperation of Tanzania.



A farewell ceremony at the African Minerals and Geosciences Centre (AMGC), an ISO 9001:2015 Certified to Miss. Assia Ahamada El Badaoui Mohamed Fakhri who has successfully completed an 8-week internship programme in the Chemical and Environmental Department of the Centre for capacity building. Miss Assia is a Comorian by nationality but she is a 4th year undergraduate student at Izmir Institute of Technology (IZTECH) in Turkey taking a Bachelor of Science degree in Chemistry. Comoros is one of the founder member states of AMGC



The African Minerals and Geosciences Centre (AMGC), an ISO 9001:2015 certified welcomed Professor Lamine Zerbo from Ouagadougou University, Burkina Faso to attend a two-week hands-on training course up to the end of September 2024 on Forming Techniques. This course is conducted by the Industrial Minerals Application Department (IMAD) of the Centre.



Industrial Training Completion Ceremony at the African Minerals and Geosciences Centre (AMGC) for four undergraduate students from Ardhi University in Tanzania taking BSc. (Environmental Laboratory Science and Technology). The students were attending an 8-week free of charge industrial training, and they have been able to bridge the gap between theory and practical knowledge in analytical science.

The students are:

- 1. Miss. Anna A. Mutashobya**
- 2. Miss. Marcelina O. Maiko**
- 3. Mr. Azizi J. Rashidi**
- 4. Mr. Mohamed M. Fatiu**

AMGC has continued to provide free of charge industrial training opportunities to undergraduate students from various universities in Tanzania as a preferential treatment to the host country of the Centre.



A farewell ceremony at the African Minerals and Geosciences Centre (AMGC), an ISO 9001:2015 Certified to 5 undergraduate students from the University of Dodoma (UDOM) taking BSc. (Chemistry) and BSc. (Metallurgy & Mineral Processing Engineering). The students have been attending an 8-week Practical Training in the Chemical and Environmental Department and Mineral Processing and Small-Scale Department of the Centre from July 2024 so as to bridge the gap between theory and practical skills in analytical science.

The students were:

- 1. Miss. Aneth F. Magalo**
- 2. Miss. Millenium Mwambene**
- 3. Miss. Sawia H. Kileo**
- 4. Mr. Bahati S. Kiniga**
- 5. Mr. Mohamed A. Ngajima**

The Centre has continued to provide this free capacity building program to young scientists and engineers from various institutions in the Member States.



A farewell ceremony at the African Minerals and Geosciences Centre (AMGC), an ISO 9001:2015 Certified to 4 undergraduate students from the University of Dar es Salaam (UDSM) taking BSc. (Chemistry). The students have been attending an 8-week Practical Training in the Chemical and Environmental Department of the Centre from July 2024 so as to bridge the gap between theory and practical skills in analytical science.

The students were;

- 1. Miss. Anisia K. Gunze**
- 2. Miss. Mariam H. Mrisho**
- 3. Miss. Subira Jacob**
- 4. Mr. Carlos G. Gamariel**

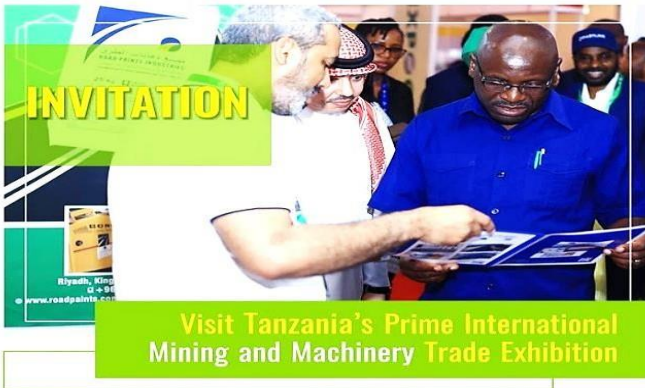
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EVENTS

8th AFRICA 2024
MINEXP
 Int'l Mining & Machinery Trade Expo

Concurrent event

BUILDEXPO
 AFRICA 2024



Products on Display:-
 Mining Machinery, Equipments & Technology | Mineral Processing Plants and Equipments | Mining And Water Drilling Equipments And Tools | IT in Mines Planning | Mining Explosives | Crushers | Pulsating Centrifuge | Pumps | Screening Panels | Grinding Roller Mills | Polyurethanes & Concrete Fibers | Weighing & Measurement Systems | Bearings, Filters, Gearmotors & Material Handling | Mine Safety Equipments and more.

Meet Exhibitors from **14 Countries**

SUPPORT & PARTNERS:



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Expogroup supports the GO GREEN campaign across the globe, please use paper only when necessary.

12 - 14 September, Diamond Jubilee Hall, Dar-es-salaam

08th MINEXPO TANZANIA 2024 - International Trade Exhibition on Mining & Machinery, Dar es Salaam from 12th to 14th September 2024



Hosted and organized by the Government of the Tanzania, through the Tanzania Geothermal Development Company (TGDC) in partnership with UN Environment Programme (UNEP), African Geothermal Association (AGA), and other international partners

SECOND CIRCULAR

10th African Rift Geothermal Conference (ARGeo-C10), that will take place on 21st to 27th October 2024 at Julius Nyerere International Convention Centre, Dar es salaam, Tanzania.



We are thrilled to announce the Mining Tech 2024 International Forum and Exhibition.

Dates: 3rd to 4th November 2024

Location: Kempinski Royal Maxim Hotel First Settlement, New Cairo City.

Join us in Cairo to explore groundbreaking opportunities in solar energy, mining tech, and data mining. This premier B2B event is your gateway to the latest advancements in technology and an unparalleled investment opportunity. Network with industry leaders and discover how your company can benefit from the future of extracting and processing raw

Materials. Don't miss this chance to invest in the future of mining at the premier international forum for mining and technology in 2024.

Highlights of the event include:

- Exploring the potential of mineral resources in the Arab world and maximizing investment opportunities.
- Enhancing the value of raw materials through advanced preparation and manufacturing techniques.
- Showcasing progress and development in the mining and quarrying sectors, including solar energy innovations and data mining technologies.
- Understanding global market dynamics affecting mining and quarrying products.
- Featuring cutting-edge technologies in mineral exploration, extraction, processing, and logistics.

#Invest #Extracting #Egypt #International #Mining #Solar Energy



MINTEX 2024 MINING AND TECHNOLOGY EXPO

Expanding Horizons for Ethiopia’s Mining Sector November 23rd to 26th 2024. Millennium Hall, Addis Ababa, Ethiopia Organized by Ministry of Mines. Join us at the Mining and Technology Expo (MINETEX) from November 23-26, 2024, at the Millennium Hall, and be part of the mining industry’s most significant event of the year! This is your chance to connect with leading international companies and explore cutting-edge innovations in the mining and technology sectors. Don’t miss out on this unparalleled opportunity to showcase your products and services to a global audience. Organized by the Minister of Mines, this expo promises to elevate your business to new heights. Secure your spot today!

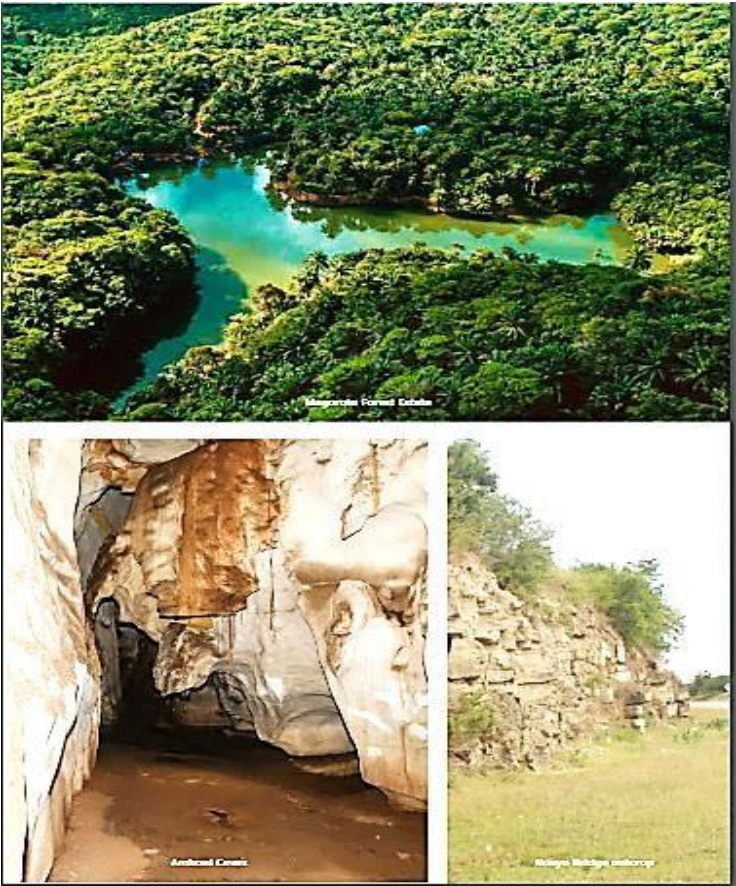
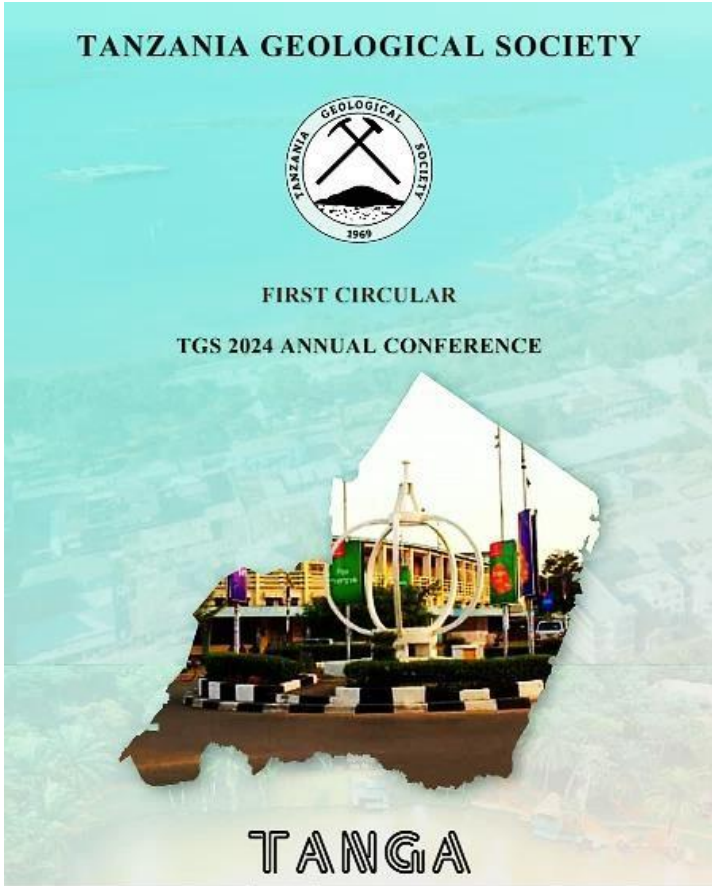
About MINTEX

Originating in 2022, MINTEX has quickly become a cornerstone event for the mining industry, aiming to position Ethiopia as a global hub for mining investments and technological advancements. Scheduled from November 23-26, 2024, at Millennium Hall in Addis Ababa, MINTEX 2024 will bring together global mining visionaries, industry leaders, and stakeholders to explore the latest trends, innovations, and investment opportunities.

The event will feature a comprehensive showcase of cutting-edge solutions from international exhibitors, including an International Heavy Machinery Pavilion, dynamic live technology demonstrations, and exclusive site visits. Enhanced speaker sessions and structured networking opportunities will facilitate in-depth discussions on industry trends and best practices, while educational workshops will provide hands-on experience with the latest advancements. By fostering strategic alliances and promoting sustainable mining practices, MINTEX 2024 aims to elevate Ethiopia’s role in the international mining arena, offering unparalleled exposure and engagement opportunities for sponsors and exhibitors.

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TANZANIA GEOLOGICAL SOCIETY (TGS) ANNUAL CONFERENCE 2024

This year annual meeting will be held in Tanga, Tanzania from 1st to 06th of December 2024 with the leading theme “Harnessing Tanzania Mineral Wealth for Sustainable Economic Growth and Smooth Energy Transition”

New Courses




AMGC

New Courses

The Mineralogy, Petrology and Gemology Department is happy to announce the following new training courses

1

Gemstone/Mineral Estimation and Valuation

2

Jewelry Design

3

Gemstone Exploration & Gem Safari's



NEW Training Courses

African Minerals and Geosciences Centre (AMGC) is pleased to announce the introduction of four new courses Geostatistics, Petroleum Sciences and Resource Estimation in collaboration with Khartoum based Consulting firm called **Knowledge and Training Centre (KTC)**. The course shall be facilitated by the Director of KTC, Dr. M. Zayed Awad, an eminent specialist in the areas of Geostatistics, resource evaluation, stratigraphy, reporting, training and mentoring, risk and decision analysis, petroleum economics, project management. The training course will be organized in Dar es Salaam at the AMGC training facilities. The following training courses are going to be offered through this collaboration.

1. Fundamental of Petroleum Economics

Duration: One Week

Course fee: US\$ 1,200

This course introduces the participants to requirements for conducting petroleum economics; different stages of the petroleum industry life cycle involving upstream, mid-stream and downstream sectors will be explained. Participants will learn how to construct a Cash Flow Model for oil and gas investment decision. They will also learn how to deal with the different financial components of petroleum cost, and classification of costs into OPEX and CAPEX. NetCash Flow Stream analysis and computation of economic indicators (Yardsticks) such as NPV, IRR, PBP, MCE and DPI, and their interpretations are essential for petroleum investment decision-making. Cash Flow Adjustment using discount rates is also considered. Types of fiscal regimes will be explained, participant will also learn how to incorporate the fiscal parameters into a cash flow stream.

2. Geostatistical Mineral Resource Estimation

Duration: One Week

Course fee: US\$ 1,700

The course will focus on the fundamentals of Geostatistical application in mining that are required for domain specification that are required for mineral resource estimation and will include hands-on training with Geostatistical software. Geostatistical conditional Simulations may be used to assess the uncertainty associated with the Reserves Evaluation at exploration, feasibility, and production stages. The simulations provide a range of potential reserves for the ore body's Tonnage, Metal Quantity and Recovered Grade.



3. Introduction to Oil and Gas Industry

DURATION: One Week

Course fee: US\$ 1,200

This course is designed for a wide-ranging of petroleum industry personnel. It is designed to provide green-hands technical, and non-technical personnel with practical petroleum industry life cycle. The course covers the key phases of the exploration, development and production industry as well as transportation and refining of crudes oils.

4. Geostatistics for Mining - foundation Course

Duration: Two Weeks

Course fee: US\$ 2,000

Geostatistics, in combination with other statistical methods, offers a wide range of mathematical tools that can be used to analyze, model, provide estimates and assess uncertainties, for different types of spatial phenomena, for example, grades or geological features. The course will focus on the fundamentals of Geostatistics and statistics and will include hands-on training with Geostatistical software.

THE INSTRUCTOR



Dr. M. Zayed Awad, the former Sudanese Minister for Oil and Gas (September 2014-May 2017) BSc (Hons) from University of Khartoum, Sudan, MSc (Geol) from Technical University of Berlin (TU), PhD (Stratigraphy) from Technical University of Berlin (TU). Dr. Zayed is a university instructor with postgraduate qualifications in petroleum geology, stratigraphy, economic geology, Geostatistics, and relevant application soft wares. He has more than 35 years' experience in university teaching and more than 25 years worldwide experience in

The petroleum industry and training. He has supervised many MSc and PhD research students and reviewed several reports and research papers. He is the founder of Knowledge & Training Center (KTC) in Sudan, and he is active as a trainer since 2003. He worked on many projects and given training courses to hundreds of attendees on many aspects of geology. Dr. Zayed's skills are in Geostatistics, resource evaluation, stratigraphy, reporting, training and mentoring, risk and decision analysis, petroleum economics, project management. Dr. Zayed was the initiator and editor-in-Chief of the book titled "Petroleum Geology and Resources of the Sudan" published by Geozone (Berlin) in 2015.



LIST OF TRAINING COURSES

Training Topics	Duration	Fee
Finance and Administration Department (FAD)		
Leadership and Management Skills	2 Weeks	\$1,500
Financial Management Skills	2 Weeks	\$1,500
Executive Secretarial Skills	2 Weeks	\$1,500
Chemical and Environmental Department (CED)		
Spectrometric Methods of Analysis.	2 Weeks	\$800
Analysis of Gold and Other Base Metals	2 Weeks	\$800
Modern Laboratory Management Method	2 Weeks	\$1,500
Quality Management Section (QM)		
Laboratory Certification and Accreditation	2 Weeks	\$1,500
Modern Laboratory Management Methods	2 Weeks	\$1,500
Quality Control and Quality Assurance in Laboratories	2 Weeks	\$1,500
Laboratory Safety and Security	2 Weeks	\$1,500
Mineralogy, Petrology and Gemology Department (MPGD)		
Mineralogical and Petrological Sample Preparation and Analytical Techniques	2 Weeks	\$800
Gemstone Identification Techniques	1 Week	\$400
Gemstone Value Addition Techniques	2 Weeks	\$800
Usage of Benchtop X-ray Diffraction (XRD)	2 Weeks	\$800
Gemstone formation, mode of occurrences and mining methods	2 Weeks	\$800
Industrial Minerals Application Department (IMAD)		
Pottery for Beginners	2 Weeks	\$800
Mould Making	2 Weeks	\$800
Forming Techniques	2 Weeks	\$800
Decorations in Pottery and Ceramics	2 Weeks	\$800
Bricks & Tiles Manufacturing [Clays]	2 Weeks	\$800
Glaze Formulation	2 Weeks	\$800
Body Composition Formulation	2 Weeks	\$800



Mineral Processing and Small-scale Mining Department (MPSSMD)		
Practical Mineral Processing and The Basic Mineral Processing Flowsheet	2 Weeks	\$800
Sampling and Sample Preparation for Laboratory Testing	2 Weeks	\$800
Artisanal and Small-Scale Mining Activities	2 Weeks	\$800
Techniques of Gold Cyanidation	1 Week	\$800
Mineral Economics	2 Weeks	\$800
Metallurgical Balance and Process Evaluation	2 Weeks	\$800
Extractive Metallurgy – Metallic Ore Deposits, Metal Extraction and Purification Processes	2 Weeks	\$800
Environmental Management in Mining	1 Week	\$400
Geo-information Department (GID)		
GIS and Remote Sensing for Mineral Exploration and Geological Mapping	2 weeks	\$800
Best Practices in Mineral Resource Estimation	1 week	\$400
Geodatabase Development for Web mapping	2 weeks	\$800
GIS and Remote Sensing Application for Geohazards	1 week	\$400
Integrated Mineral Exploration Techniques	2 weeks	\$800
GIS and Remote Sensing for Hydrological Applications	1 week	\$400
Open-Source GIS	2 weeks	\$800
Geochemical Exploration and Mapping	2 weeks	\$1,200
Structural Geology and Geotectonics in Mineral Exploration	2 weeks	\$1,200
Fundamental of Petroleum Economics	1 week	\$1,200
Geostatistical Mineral Resource Estimation	1 week	\$1,700
Introduction to Oil and Gas Industry	1 week	\$1,200
Geostatistics for Mining - foundation Course	2 weeks	\$2,000
Prospect Evaluation: Volumetric and Risk Analysis	2 weeks	\$2,000



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***Minerals for
Development***

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www.seamic.org



MINERALOGY, PETROLOGY AND GEMMOLOGY SERVICES

The Mineralogy, Petrology and Gemmology Department utilizes the skills of its staff to address crucial issues in the mineral sector such as lack of technical knowledge on mineral testing and identification, evaluation, grading and value addition techniques.

EXPERTISE

- ✓ Mineralogical and petrological sample preparation and analysis
- ✓ Mineralogical evaluation of industrial minerals, ore minerals and clays
- ✓ Gemstone identification and grading
- ✓ Specialized training in Gemmology, Gemstone Cutting and Polishing and Mineralogical and Petrological Sample preparation and Analytical Techniques.



Petrography and Gemmological Microscopes

ANALYTICAL SERVICES

- ✓ Preparation of standard thin sections and polished sections
- ✓ Rock slabbing and polishing
- ✓ Rock core splitting
- ✓ Petrographic examination of thin sections and polished sections
- ✓ Evaluation of industrial minerals, ore minerals and clays
- ✓ Gemstone testing and identification
- ✓ Diamond grading
- ✓ Consultation and Expert opinion



Polishing Machine for Polished Mount Preparation

TRAINING SERVICES

- ✓ Mineralogical and petrological sample preparation and analytical techniques
- ✓ Gemstone Characterization, Identification and Value Addition
- ✓ Gemstone Identification Techniques
- ✓ Gemstone Value Addition Techniques (Gem Cutting)
- ✓ Gemstone Cabochon making and Carving
- ✓ Gemstone Faceting
- ✓ Gemstone Identification, Value Addition and Trading



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