



AMGC Director General's Message



During the month of January 2025, the Director General of the African Minerals and Geosciences Centre (AMGC), paid a courtesy visits to both the Embassy of the Sudan and United Nation Economic Commission for Africa (UNECA) headquarter in Addis Ababa, Ethiopia.

AMGC provided a two weeks training course during 13-24 January 2025 on MINERAL

EXPLORATION AND MANAGEMENT including a two days field work to two professional geologists from the Ariab Mining Company Khartoum, Sudan.

The African Minerals and Geosciences Centre (AMGC) was honored by a familiarization visit from Dr. Salih Ali Salih who is Associate Professor of Geology, with specialization in Economic Geology at School of Earth Sciences; Al-Neelain University; SUDAN. Dr. Salih was accompanied by both Eng. Khalid Ali Mohamed, who is a Sudanese Mining Engineer interested in Industrial-Development Minerals and Mr. Abdelrahman Hassabelrasoul, a Sudanese businessman interested in industrial minerals as silica quartz ore mining and export. Dr. Saleh and Eng. Khalid Ali Mohamed were the guests of honor in the Certificate Handover Ceremony for two professionals Geologists from Ariab Mining Company Khartoum, Sudan.

The African Minerals and Geosciences Centre (AMGC) received Certificate of Appreciation from the Vice Chancellor of Mwenge Catholic University (MWECAU), Tanzania in recognition of support provided by AMGC in strengthening hands-on analytical skills to MWECAU undergraduate students taking science through Field Practical Training (FPT) for the past 3 years from 2022 to 2024.

The African Minerals and Geosciences Centre (AMGC) received a team of 40 undergraduate students taking BSc in Mining Engineering from Dar es Salaam Institute of Technology (DIT).

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On 02.01.2025 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. Mr. Ibrahim Shaddad met H.E. Elzein Hussein, the Ambassador of the Republic of the Sudan to Ethiopia and Permanent Representative to the AU and UNECA.

The Director General of AMGC cherished the freedom of the Sudan on its 69TH INDEPENDENCE ANNIVERSARY, Which was celebrated jointly by the diplomatic mission of the Sudan and Sudanese Community in Ethiopia on Wed, Jan 1, 2025. The Director General of AMGC on behalf of himself and the Centre wishing the Sudanese great nation a Happy Independence Day filled with a bright, peaceful future, unity, and prosperity.

The Director General of AMGC also 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).



On 03.01.2025 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. John Robert Sloan, the Economic Affairs Officer of Green and Blue Economy Section, Technology, Climate Change and Natural Resources Management Division (TCND) at UNECA. Dr. John Robert Sloan serves as the Officer-in-Charge of the Green and Blue Economy Section during the absence of Dr. Nassim Oulmane, Director A.i. of Technology, Climate & Natural Resources Management Division. Both Dr. Nassim and Dr. John represents UNECA in Policy Organs of AMGC.

Mr. Shaddad briefed the UNECA official regarding the performance of AMGC, developments and challenges facing the Centre, as well as arrangements for holding the AMGC Policy Organ Meetings, which will be hosted and chaired by Kenya in March 2025.

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's 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.





On 13.01.2025, the African Minerals and Geosciences Centre (AMGC), through its Geo-Information Department, had received two professional geologists from the Ariab Mining Company Khartoum, Sudan, as follows:

1. Mr. Mohamed Fth Alaleem Abdallah Mahjoob
2. Mr. Abu baker Musa Amin Abaker

They underwent successfully a two weeks training course during 13-24 January 2025 on MINERAL EXPLORATION AND MANAGEMENT including a two days field work which was carried out at Handeni District in Tanga region, NE Tanzania. The course was conducted in collaboration with Mr. Japhet Fungo, a resource person from the Department of Geology University of Dar es



Salaam, Tanzania. The Sudanese professional geologists has gained practical knowledge and skills on Exploration Strategies, Exploration Methods, Exploration Data Management and Projects and Mineral Exploration Development.

On 24.01.2025, AMGC celebrated a Certificate Handover Ceremony for two professionals Geologists. The guest of honour for the ceremony was Dr. Salih Ali Salih, the Associate Professor of Geology, with specialization in Economic Geology at School of Earth Sciences; Al-Neelain University; SUDAN. Dr. Salih was accompanied by Eng. Khalid Ali Mohamed, who is a Sudanese Mining Engineer interested in Industrial-Development Minerals.

The Ariab Mining Company (AMC) is the leading government affiliated mining company in the Sudan and It was a multinational private mining company till a few years back to explore, exploit, mine, process, and sell of Gold and other associated minerals. Ariab is a region of Sudan, located in the hilly desert of Red Sea Hills, Sudan inhabited by the Beja people, and the gold mining has historically been crucially important for the desert region since ancient Pharonic times. Wadi Ariab with oriented E-W. Gold mineralization is associated with a zone of massive sulphide mineralization in a marine rhyolite environment. The gold would have been "undetectable to ancient prospectors" due to its "extremely fine grain" nature. Furthermore, "no traces from ancient mining are known," and the 7 current opencast mines were discovered with modern geophysical prospecting methods.

Total of 445 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.





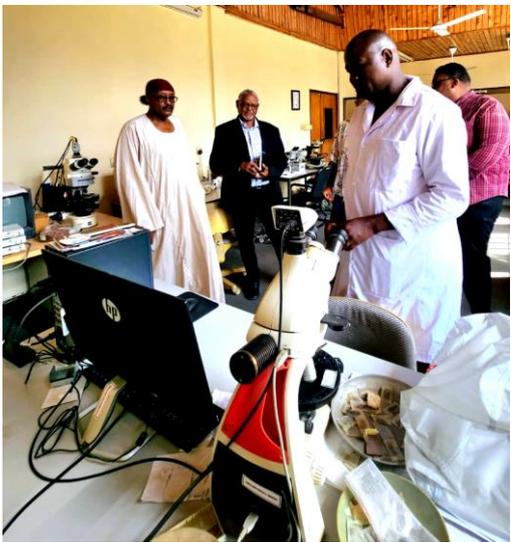
On 15 January 2025 the African Minerals & Geosciences Centre (AMGC) was honored by a familiarization visit from the following distinguished guests:

1- Dr. Salih Ali Salih, the Associate Professor of Geology, with specialization in Economic Geology. Currently, Dr. Salef is a staff member and formerly head department at Mineral Wealth Department in Faculty of Petroleum and Minerals; Al Neelain University in the Sudan.

2- Eng. Khalid Ali Mohammed Abdul Majed, consultant of mining engineer and manager for industrial minerals projects in Sudan.

3- Mr. Abdelrahman Hassabelrasoul, a Sudanese businessman interested in industrial minerals as silica quartz ore mining and export.

On 24 January 2025, Dr. Sali Ali accompanied by Eng. Khalid Ali Mohamed were the guests of honor in the Certificate Handover Ceremony for two professionals Geologists from Ariab Mining Company Khartoum, Sudan who successfully completed a two weeks training course during 13-24 January 2025 on MINERAL EXPLORATION AND MANAGEMENT, which was conducted in collaboration with Mr. Japhet Fungo, a resource person from the Department of Geosciences at the University of Dar es salaam, Tanzania







On January 14, 2025 the African Minerals and Geosciences (AMGC), an ISO 9001:2015 Certified received Dr. George Lawrence Kinyata, as special representative of the Mwenge Catholic University (MWECAU), Moshi-Kilimanjaro, Tanzania. Dr. George conveyed to the Director General of AMGC Mr. Ibrahim Shaddad an official Certificate of Appreciation from the Vice Chancellor of MWECAU in recognition of the support provided by AMGC in strengthening hands-on analytical skills to MWECAU undergraduate students taking science through Field Practical Training (FPT) for the past 3 years from 2022 to 2024.

Mr. George also conveyed the greetings of the Vice Chancellor of MWECAU, as well as an official letter to the Director General of AMGC requesting the same support for the upcoming Field Practical Training for the 2024/2025 academic year.

Responding to the Vice Chancellor of MWECAU certificate of Appreciation and request letter, the Director General of AMGC thanked the University for such a valuable recognition and promised to continue providing free of charge practical training to MWECAU students.

Mr. Shaddad also urged to the University to establish a sustainable collaboration with AMGC by signing MOU in various capacities including research, development and provision of MWECAU to post graduate opportunities for some Tanzanian staff of AMGC.





On January 20, 2025, the African Minerals and Geosciences Centre (AMGC), an ISO 9001:2015 Certified received a team of forty (40) undergraduate students taking BSc in Mining Engineering from Dar es Salaam Institute of Technology (DIT), Dar es Salaam, Tanzania.

The students came to appreciate the application of non-metallic minerals for sustainable development as applied in the AMGC departments of Industrial Minerals Application (IMAD) and Mineralogy, Petrology and Gemology (MPGD).

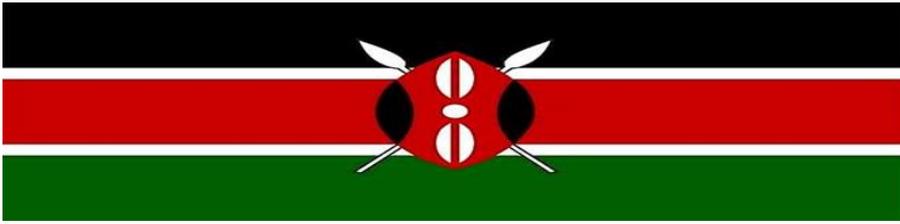
The students were accompanied by their supervisor Eng. Zacharia Mtunya.



APPRECIATION & GRATITUDE

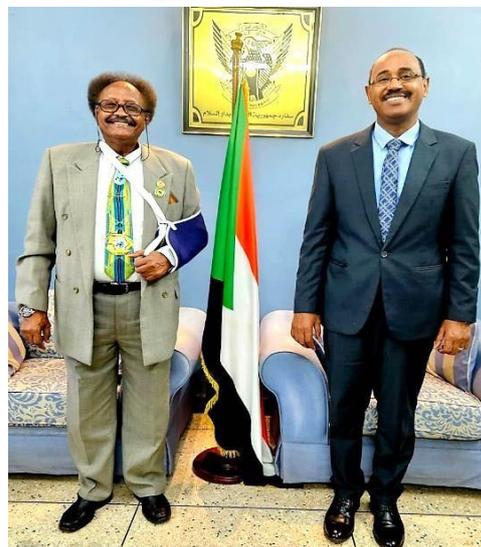
The African Minerals and Geosciences Centre (AMGC) would like to express its much appreciation and gratitude to Tanzania, the host country of the Centre for fulfilling its financial commitments to the Centre for the current financial year 2024 - 2025 and arrears for Financial Year 2023 - 2024.

It is worth mentioning that Tanzania, the host country of the Centre has chaired the Centre Governing Council and hosted the Policy Organ Meetings for twenty three (23) times since the establishment of the Centre in 1977.



APPRECIATION & GRATITUDE

The African Minerals and Geosciences Centre (AMGC) would like to express its much appreciation and gratitude to Kenya for fulfilling its financial commitments for the current financial year 01 July 2024 - 30 June 2025 to the Centre. It is worth mentioning that Kenya joined the Centre in July 2006 becoming the 7th member state, chaired the AMGC Governing Council and hosted the Policy Organ Meetings three times (May 2011, June 2014 and May 2015) and the coming one will be hosted by Kenya under the chairmanship of H.E. Hassan Ali Joho, the Cabinet Secretary for Mining, Blue Economy and Maritime Affairs in the Government of Kenya.



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'affairs 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 beneficiation 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.



CONGRATULATION



The African Minerals and Geosciences Centre (AMGC) has the honour to congratulate Mr. Ahmed Haron for being appointed the General Manager of the Geological Research Authority of the Sudan (GRAS). AMGC looks forward for the esteemed GRAS under his management

Maximizing its benefits from mineral services provided by the Centre particularly human capacity building service through on-job-training courses at the AMGC's premises in Dar es Salaam, Tanzania. AMGC recognizing the timely payment of annual subscriptions to the Centre by GRAS on behalf of the esteemed Ministry of Minerals of the Sudan.

APPRECIATION



The African Minerals and Geosciences Centre (AMGC), wish to take this opportunity to thank Dr. Muhammed Saied for the leadership during his tenure as Undersecretary for Minerals at the Ministry of Minerals of the Sudan.

AMGC recognises his efforts in both assisting the Centre to get timely the Sudan annual contributions and sponsoring staff from the Ministry affiliated institutes for training at the Centre, which enabled it to implement its activities successfully. Thanking once again for his cooperation.

EVENTS



We are thrilled to announce the Mining Tech February 2025 International Forum and Exhibition.

Dates: The event has been postponed, a new date will be announced soon. **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 January-February 2025.

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.

EVENTS



15 - 16 JULY 2025 | CAIRO



**TECHNICAL CALL FOR PAPERS
NOW OPEN**

Dear Shiraz,

The Call for Papers is Now Open for the Technical Conference as part of the Egypt Mining Forum taking place from 15 - 16 July in Cairo. This is your opportunity to submit abstracts to be selected as a **technical speaker** across **8 topical categories** that highlight innovation, sustainability, and advancements in the mining and minerals sector.

Hosted by the Ministry of Petroleum and Mineral Resources and supported by the **Egyptian Mineral Resources Authority (EMRA)**, the **Egypt Mining Forum Technical Conference** explores high tech innovation and cutting-edge solutions driving regional exploration and discoveries. As a speaker, presenters can showcase the latest project advances across the mining and minerals landscape, in addition to outlining future oriented sustainable best practices reshaping the industry.

The technical sessions, **designed by a committee of esteemed geologists and engineers**, focus on showcasing how technology and innovation are **uncovering new opportunities and accelerating progress in the mining industry**.

Engineers, geologists, mining professionals, and

EVENTS

Note: Abstract submissions are free, and multiple entries per person are welcome. The submission process is quick and straightforward, with just three easy steps:

1. Create your account
2. Select from 8 technical categories
3. Enter your 500-word abstract

★ **Technical Committee Tip:** To increase your chances of being selected as a speaker, ensure your abstracts feature case study results, are industry relevant and include mining and minerals innovation and the latest technology updates.

We look forward to receiving your submissions for the opportunity to speak at the **Egypt Mining Forum Technical Conference** this July in Cairo.

Regards,

The Egypt Mining Forum Conference Team

conference@egyptminingforum.com |
egyptminingforum.com/CFP

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EVENTS

[Go to the Call for Papers Portal here](#) | [Download the brochure](#)

Choose from 8 technical abstract categories

1. Exploration and Mining Geology
2. Critical Minerals, Metals, and Sustainable Mining
3. Mine Engineering, Planning, Operations, and Processes
4. Exploration and Mining Data
5. Innovation and Technology
6. Health, Safety, Security, and Environment **NEW FOR 2025**
7. Mining Economics and Exploration Financing **NEW FOR 2025**
8. Midstream and Downstream Mining Industries **NEW FOR 2025**

[Submit your abstracts](#) | [Download the Call for Papers brochure](#)

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EVENTS

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We look forward to receiving your submissions and welcoming you to the **Egypt Mining Forum Technical Conference** this July in Cairo.

Regards,

Egypt Mining Forum Conference Team
conference@egyptminingforum.com |
egyptminingforum.com/CFP | +971 4 248 3263

If you do not wish to receive any further emails about the Egypt Mining Forum, please [click here](#)



African Minerals and Geosciences Centre (AMGC)

KUNDUCHI CERAMICS

Choose Kunduchi Ceramics

DECORATE YOUR TABLE WITH HANDMADE CERAMICS

We, the Ceramics Unit of AMGC, provide high quality ceramics at a fair price, reflecting nature's best. We concentrate on household items in complete sets, such as bowls, mugs, vases, plates, flower vases, candleholders and ashtrays. As a principle we only use locally available materials.

AMGC - African Minerals and Geosciences Centre is an inter-governmental organisation based in Dar es Salaam, Tanzania.

Your individual ceramics: It is possible to order individual designs with names, company logos, special drawings or designs. Due to the nature of this order there will be a minimum order requirement. AMGC will consider other smaller quantities subject to prior confirmation. For further information please also contact Mr. Lucas Kalombola at +255753938934 or lucas@seamc.org

Website: www.seamc.org | Email: seamc@seamc.org | Tel: +255222850347 | Mob: +255767 345 783

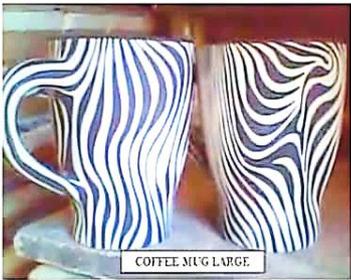
The Industrial Minerals Application Department of the African Minerals and Geoscience Centre (AMGC) based in Dar es Salaam, Tanzania produces ceramic as well as provides training in ceramic simple technology. The photos of some of our products are posted on our website. The quality of handmade items is very good, resisted, and safe to use in microwaves, dish washer, and ovens. Our products are requested by hotels and diplomatic missions in Tanzania.

Regarding

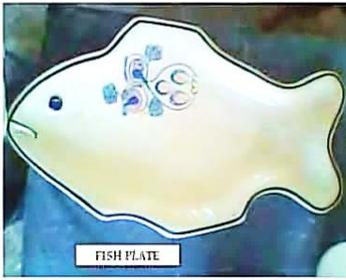
- Delivery time - The lead time to delivery is two and half months from the day deposit has been received into our account.
- Terms of payments – Telegraphic transfer and mobile payment are the terms of payment. Minimum order is 1000 pcs.

Here are prices for some of the items produced and delivered in Dar es Salaam, Tanzania. All costs for transport and related customs taxes should be incurred by customers.

1. Serving dish with cover [flower decorations]	30.00 USD
2. Serving dish with cover [Blue colors]	30.00 USD
3. Teacup/saucer	0 4.00 USD
4. Mugs	04.00 USD
5. Condiment bowl	03.00 USD
6. Espresso cup/saucer	02.00 USD
7. Fishplate	20.00 USD



COFFEE MUG LARGE



FISH PLATE



COFFEE MUG



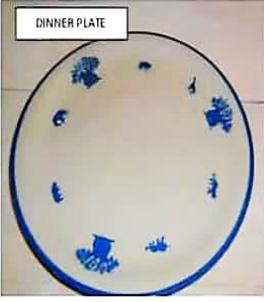
LARGE SERVING BOWL



BOWL WITH LID



1. FLOWER VASE, 2. FLOWER VASE, 3. MILK JAR, 4. WINE GOBLET



DINNER PLATE



1. WATER COOLER, 2. FLOWER VASE MEDIUM, 3. TEA CUP, 4. BUTTER DISH, 5. SUGAR CONTAINER, 6. CEREAL BOWL, 7. DINNER PLATE, 8. TEA POT SMALL

BLUE COLOUR



TWIGA TEA POT

TEA POT BLUE



CEREAL BOWL



ASH TRAY



SIDE PLATE



CEREAL BOWL

SIDE PLATE

DINNER PLATE



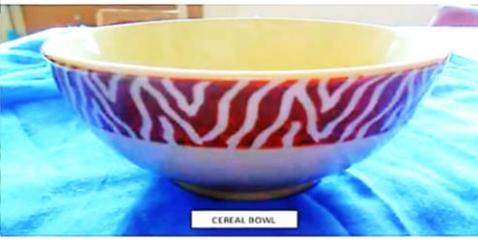
NGALAWA BOWL



TWIGA TEA POT



FLOWER VASE MEDIUM



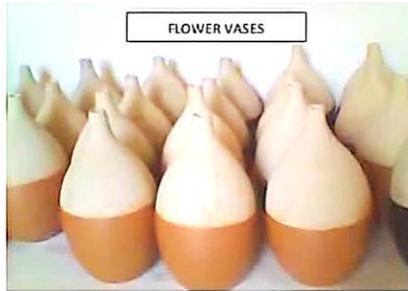
CEREAL BOWL



KUNDUCHI CERAMICS - AMGC



FLOWER VASE



FLOWER VASES



DINNER PLATE



CEREAL BOWL



ZEBRA TEA CUP



CEREAL BOWL



FLOWER VASE



COFFEE MUG



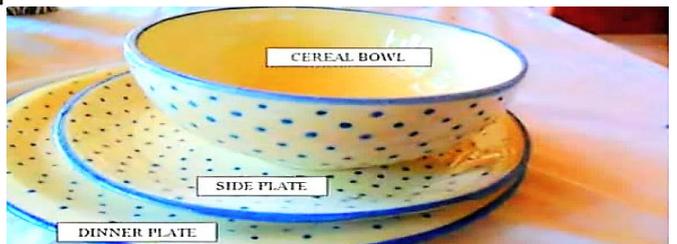
TEA POT



TWIGA TEA POT



LARGE FLOWER



DINNER PLATE



TRAY WITH SAVEUR



EGG CUP



COFFEE MUG



CEREAL BOWL

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

More Info

www.seamic.org

matokeo@seamic.org



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 Award, 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.



1. 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.

2. 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



LIST OF TRAINING COURSES

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 Geotectonic 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



**African Minerals
and Geosciences
Centre (AMGC)
Kunduchi Beach**

Area

**P.O. Box 9573
Dar es Salaam**

Tanzania

+255 22 2650347

Fax: +255-22-2650319

seamic@seamic.org

***Minerals for
Development***

Find us on the Web:

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



Contacts

Ibrahim Shaddad

Director General

ibrahimshaddad@seamic.org

Charles Buteta

Quality Manager/
Manager, Chemical and
Environmental Department

charles@seamic.org

Bashiri Juma

Manager, Finance and
Administration Department
Ag. Manager, Industrial
Minerals and Application Department

bashiri@seamic.org

Alex Mkama

Manager, Mineral Processing and
Small-Scale Mining Department

mkama@seamic.org

Matokeo Simba

Manager, Mineralogy, Petrology &
Gemmology Department
Ag. Manager, Geo-Information
Department

matokeo@seamic.org