



AMGC Director General's Message



During the month of May the Director General of AMGC has the honour to congratulate H.E. Amb. Claver Gatete for being appointed as new Executive Secretary of the United Nations Economic Commission for Africa (UNECA) in Addis Ababa, Ethiopia. On 8th May 2024 AMGC was visited by 10 undergraduate students from

Department of Geosciences, School of Mines and Geosciences, University of Dar es Salaam. On 13th May 2024 AMGC started a two weeks training course on Geodatabase Development for Web Mapping and Geostatistical Mineral Resources Estimation. On 15th of May 2024 H.E. Sherif A. Ismail, the Ambassador of the Arab Republic of Egypt in Tanzania accompanied by Mr. Ahmed Amer, the Head of the Political Section at the Embassy paid a familiarization visit to AMGC. On May 21st 2024 a training certificate handover ceremony was held at AMGC for 6 undergraduate students taking Bachelor of Science in Chemistry at Mwenge Catholic University (MWECAU) in Tanzania. The Centre had the honour to invite H.E. Ricardo Mtumbuida, the High Commissioner of Mozambique in Tanzania as Guest of Honour to visit the Centre for officiating the handing over of training certificates to two professionals from Instituto Nacional De Minas (INAMI), Maputo. On 15th May 2024 Mr. Mazin, the General Manager of Taju Group of companies registered in Tanzania paid a familiarization visit to AMGC.

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United Nations
Economic Commission
for Africa



United Nations
Economic Commission
for Africa

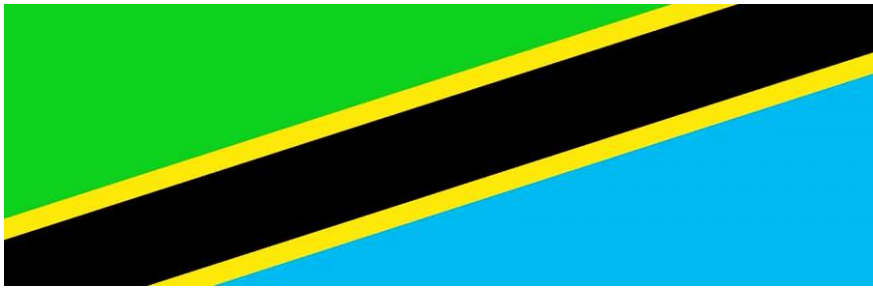


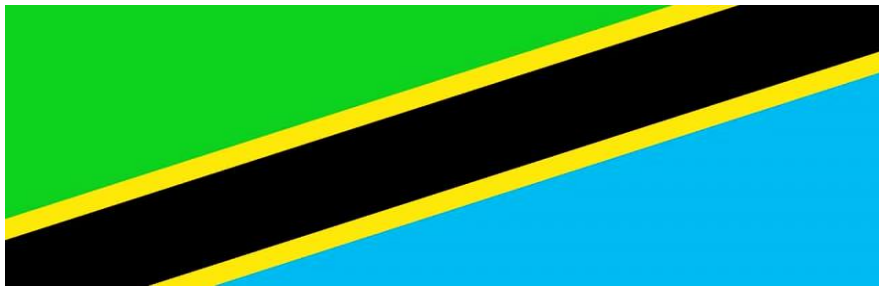
CONGRATULATIONS

The African Minerals and Geosciences Centre (AMGC) has the honor to congratulate H.E. Amb. Claver Gatete for being appointed as new Executive Secretary of the United Nations Economic Commission for Africa (UNECA) in Addis Ababa, Ethiopia. 47 years ago, in 1977, UNECA established in Africa, five Regional Mineral Centres including SEAMIC/AMGC to harmonize regional geological surveying and to provide minerals exploration and consulting services. The only Centre that survived is SEAMIC/AMGC due to Commitment from its member



states Ethiopia, Tanzania, Mozambique, Uganda, Angola, Comoros, Kenya and Sudan. The Centre is an independent intergovernmental Centre of Excellence having a diplomatic status and works under the umbrella of both UNECA and the African Union Commission (AUC). UNECA is a member of the Governing Council of AMGC, and has always chaired the Standing Committee of Officials and Vice Chair of the Board of Directors of the Centre. In 2007, the Governing Council of former SEAMIC decided that membership is open to all African states, and the Centre was up scaled from regional to continental and the name SEAMIC changed to African Minerals & Geosciences Centre (AMGC) as from July 2015.





On 8th May 2024 the African Minerals and Geosciences Centre (AMGC) was visited by 10 undergraduate students from the Department of Geosciences, School of Mines and Geosciences, University of Dar es Salaam. The visit aimed to familiarize with the mineral services provided by the Centre. The students are in 4th year taking BSc. in Geology and BSc. in Geology & Geothermal Resources. The list of students includes:

- 1. Miss. Loveness D. Chilumba**
- 2. Miss. Happy A. Reuben**
- 3. Mr. Basilius J. Ndimbo**
- 4. Mr. Daud D. Nyangusu**
- 5. Mr. Frank Chacha**
- 6. Mr. Hobekela M. Mwakajumba**
- 7. Mr. Kenedy Makere**
- 8. Mr. Mollel K. Saruni**
- 9. Mr. Samson E. Mkombo**
- 10. Mr. Yamungu L. Paul**



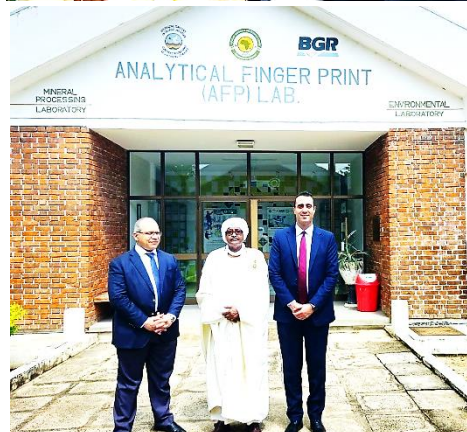
The African Minerals and Geosciences Centre (AMGC) started a two weeks training course on Geodatabase Development for Web Mapping and Geostatistical Mineral Resources Estimation. The course was conducted by the Geo-information Department of AMGC in collaboration with Mr. Japhet Fungo, a resource person from the Department of Geology at the University of Dar es salaam, Tanzania.

There are two participants from Instituto Nacional De Minas (INAMI), Maputo; Mozambique as follows:

- 1. Dr. Vicente Albino Manjate**
- 2. Miss Fatma Roberto Chauque Nampete**

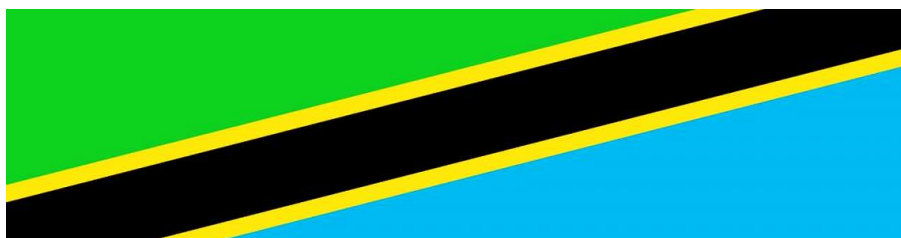
The training course was conducted from 13th to 24th May 2024.







On 15th of May 2024, H.E. Sherif A. Ismail, the Ambassador of the Arab Republic of Egypt in Tanzania paid a familiarization visit to the African Minerals and Geosciences Centre (AMGC) so as to be acquainted with the mineral services being provided at the Centre. H.E. the Ambassador was accompanied by Mr. Ahmed Amer, the Head of the Political Section at the Embassy of Egypt in Dar es Salaam. Mr. Ibrahim Shaddad, the Director General of AMGC briefed the distinguished diplomats regarding the mandate and tasks of AMGC as a diplomatic and intergovernmental Pan-African Centre of Excellence established in 1977 in Dar es Salaam, Tanzania operating under the umbrella of the United Nations Economic Commission for Africa (UNECA) and the African Union Commission (AUC). AMGC has been created with the objective of promoting mineral resources development through provision of mineral services to support the African countries specifically in the areas of geo-information data processing and laboratory analytical services. The Centre is considered a continental key stakeholder in implementation of African Mining Vision (AMV) endorsed by the African Heads of States. The two distinguished Egyptian diplomats toured the different technical departments of AMGC, which is satisfactorily executing its duties supporting both the African geoscience community and the mining sector through provision of tailor made on-job training courses, analysis and consultancy to meet the need of the African mining industry for capacity building. It is worth mentioning that, during the 34th and 35th meetings of the Governing Council of AMGC which were held in Nairobi, Kenya on 4th June 2014 and 27th May 2015 respectively, the Ambassador of Egypt in Kenya who attended the meetings as an observer, expressed the interest of the Arab Republic of Egypt to become a member state of AMGC. In that juncture, the Ministerial Governing Council of AMGC directed the management of the Centre to pursue with the esteemed Ministry of Petroleum and Mining of Egypt to ensure confirmation of its membership to AMGC. The visit of the distinguished Egyptian diplomats is expected to pave the way for finalizing the expression of interest shown by Egypt to join the concentrated force of AMGC in serving the mining sector of our African continent.


MWECAU

Mwenge Catholic University



On May 21st 2024 completion ceremony at the African Minerals and Geosciences Centre (AMGC) where a total of 6 undergraduate students taking Bachelor of Science in Chemistry at Mwenge Catholic University (MWECAU) in Tanzania, have successfully completed a 5 weeks field practical training which started on 15th April 2024. The students have gained hands-on knowledge in analytical Chemistry. The list of students included:

1. Miss. Asha A. Mfinanga
2. Miss. Asia S. Athumani
3. Miss. Hellen M. Wangwe
4. Miss. Irene I. Menu
5. Mr. Ally A. Said
6. Mr. Ndaturu J. Balele

Having these programs at AMGC continues to contribute to the technical capacity building of the young generation in the mineral sector.



INAMI
Instituto Nacional de Minas

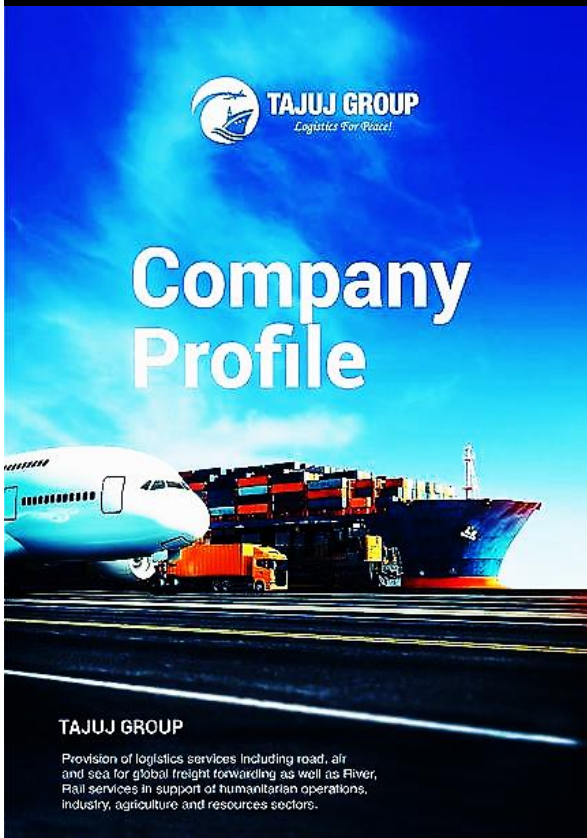




The African Minerals and Geosciences Centre (AMGC) had the honour to invite H.E. Ricardo Mtumbuida, the High Commissioner of Mozambique in Tanzania as Guest of Honour to visit the Centre for officiating the handing over of training certificates to two professionals from Instituto Nancional De Minas (INAMI), Maputo; Mozambique as follows:

- 1. Dr. Vicente Albino Manjate, and**
- 2. Miss Fatma Roberto Chauque Nampete**

Who had a two weeks training course on Geodatabase Development for Web Mapping and Geostatistical Mineral Resources Estimation. The course conducted by the Geo-information Department of AMGC in collaboration with Mr. Japhet Fungo, a resource person from the School of Mines and Geosciences (SoMG), University of Dar es Salaam, Tanzania. H.E. the High Commissioner of Mozambique was accompanied by his daughter Miss Ntchambelo Eduarda Ricardo Mtumbuida, a pupil at Genesis School and Mr. Josephine Milanga, Protocol Officer (Local Staff).



Mr. Mazin Ismail, the General Manager of Tajuj Group of companies registered in Tanzania

On 15th May 2024 Mr. Mazin paid a familiarization visit to the African Minerals and Geosciences Centre (AMGC). He is a Sudanese businessman, seeking advice regarding a feasibility study and analysis for a concession area for mining graphite he is intended to invest in Tanzania. Mr. Ibrahim Shaddad, the Director General of AMGC, briefed Mr. Mazin regarding the spectrum of mineral services provided by the Centre and expressed readiness of AMGC to serve the Tajuj Group of companies for mining graphite in Tanzania.

EVENTS



EXPOGROUP

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8th AFRICA 2024
MINEXP
International Mining & Machinery
Trade Exhibition

05 - 07 June 2024
Kenyatta Int'l, Convention Centre,
Nairobi, KENYA



AFRICA IS AN OCEAN OF OPPORTUNITIES. WHO GETS THERE FIRST GETS THE MOST.

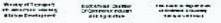
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05 - 07 June
Kenyatta Int'l Convention Centre
Nairobi, Kenya



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Visitors
from 11
Countries

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WHO GETS THERE FIRST GETS THE MOST

REGISTER NOW ►

08th MINEXPO KENYA 2024 - International Trade Exhibition on Mining & Machinery, will be held on 05th to 07th June 2024, Kenyatta International Convention Centre, Nairobi

UPCOMING EVENT:



08th AFRICA 2024
MINEXP
Int'l. Mining & Machinery Trade Fairs
25 - 27 September, Dar-es-Salaam, Tanzania

08th MINEXPO TANZANIA 2024 - International Trade Exhibition on Mining & Machinery, Dar es Salaam from 25th to 27th September 2024

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

www.seamic.org

More Info
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 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. Net Cash 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



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

matokeo@seamic.org