

AMGC News

Director General's Message



In the month of March, we have carried out training courses on Basic and Advanced Gem Identification and Diamond Grading by the Mineralogy, Petrology and Gemmology Department, as well as GIS and Remote Sensing Applications by the Geo-information Department. The Centre received two high-level delegations from the Ministry of Minerals of Tanzania, the host country of AMGC during this month. The first high-level delegation was led by the Deputy Permanent Secretary of the Ministry of Mineral for official courtesy visit. The Hon Deputy Minister of Minerals of Tanzania also visited the Centre for familiarization purpose of the Centre's activities. In order to enhance the services provided by the Centre to the small-scale mineral operations, the Centre outreaches to these operators to encourage them to benefit from the support and capacity-building services offered by the Centre. During the month, the Director General visited two groups of small-scale mineral operators, Tanzania Women Miners Association (TAWOMA) and Women in Mining Operations (WIMO).

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Training on Diamond Grading



Certificates handout ceremony to Ms. Flora Lamba, the Tanzanian diaspora in Ireland, who has completed a two weeks training course on Diamond Grading from 21.02. 2022 to 04.03.2022 at the Department of Mineralogy, Petrology and Gemmology in the African Minerals and Geosciences Centre (AMGC)

Clay Day



Eight students with their two teachers from Lanham School attended a Clay Day/pottery session at the African Minerals and Geosciences Centre (AMGC) on 09 March 2022.

Visit of Deputy Permanent Secretary of Ministry of Minerals of Tanzania



Mr. Msafiri L. Mbibo, the Deputy Permanent Secretary of Ministry of Minerals in Tanzania has paid an official courtesy visit to the African Minerals and Geosciences Centre (AMGC) on March 11, 2022. Mr. Mbibo was accompanied by Mr. Issa A. Nchasi, the Director of Administration and Human Resources Management; Mr. Frank Simchile, Acting Resident Mines Officer, Dar es Salaam and Mr. Henery Shadolo, Personal Assistant to Deputy Permanent Secretary. Mr. Ibrahim Shaddad, the Director General of AMGC briefed the Tanzanian officials regarding development and challenges facing the Centre to be a real Centre of Excellence providing mineral services to member states as well as the whole Africa.

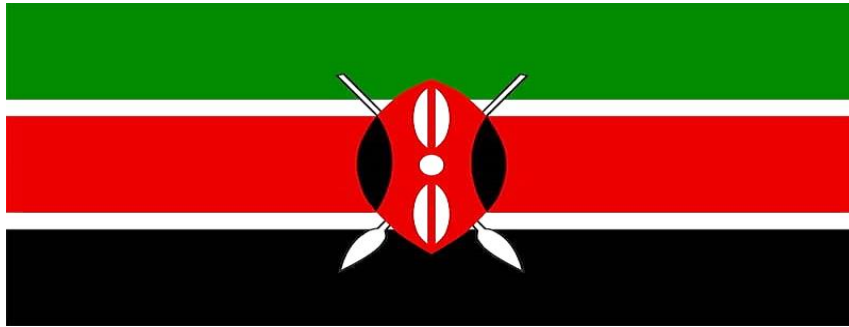
Mr. Mbibo assured the sustainable support of Tanzania to the Centre. Tanzania, being one of the founding member states and host country of AMGC, has been unreservedly supporting the Centre since its establishment in 1977.

Visit of Deputy Minister of Ministry of Minerals of Tanzania



The Deputy Minister for Minerals of Tanzania, Hon. Dr. Steven L. Kiruswa (MP) paid a familiarization visit to the African Minerals and Geosciences Centre (AMGC) on March 15, 2022. Hon. Dr. Kiruswa was accompanied by his Personal Assistant Mr. Joseph Ngulumwa. Mr. Ibrahim Shaddad, the Director General of AMGC briefed the Honourable Deputy Minister regarding development and challenges facing the Centre to be a real Centre of Excellence providing mineral services to member states as well as the whole Africa. Hon. Dr. Steven L. Kiruswa (MP), assured the sustainable support of Tanzania to the Centre. Tanzania, being one of the founding member states and host country of AMGC, has been unreservedly supporting the Centre since its establishment in 1977. It is worth mentioning that Tanzania has hosted the Policy Organ Meetings of the Centre for more than twenty times. AMGC sincerely recognizes the outstanding commitments and obligations of the Government of Tanzania to the Centre that enabled it to implement its activities to its highest peak.

Congratulation & Appreciation



The African Minerals and Geosciences Centre (AMGC) has the honour to congratulate Mr. Evans Masachi, for being appointed Acting Director of the Geological Survey of Kenya, Ministry of Petroleum and Mining. Mr. Evans Masachi, as a Director, he will be the representative of Kenya in the Board of Directors (BOD) of AMGC which include other representatives of the member states. Mr. Masachi has been invited to visit AMGC so that he could familiarize himself with the mineral services being provided by the Centre. AMGC is looking forward to enhancing the sustainable and

harmonious working relations with Kenya. The Centre also expresses its appreciation and gratitude to the tremendous efforts made by the Ministry of Petroleum and Mining, Kenya for the fulfilment of its financial commitment, which helped in rescuing the financial constrain that the Centre is currently facing. Kenya is expected to maximize its benefications from the mineral services provided by AMGC during April and May 2022.

Visit of Diplomatic Women Group to AMGC



A group of diplomatic women from embassies of Turkey, Egypt, Indonesia, Sweden, Belgium and India in Dar es Salaam, Tanzania, visited the African Minerals and Geosciences Centre (AMGC) on 17 March 2022. The group visited the Mineralogy, Petrology & Gemology Department to see the different capacity building and certification services. The group also visited the Development Minerals Department (dealing with applications of Industrial Minerals) with a special interest to see how AMGC produces ceramic product with a hands-on practice session for two hours on forming pottery products.

Training in GIS and Remote Sensing Applications



Certificate hand out ceremony for two Tanzanians on GIS and Remote Sensing Applications Training Course for one week from 14 to 18 March 2022. The participants are Mr. Oltesh Martin Thobias, a self-employed person and Mr. Godfrey Mkuwa working for VISCAR Consulting Ltd.

Training on Gemstone Characterization, Advanced Gem Identification and Diamond Grading



Certificate hand out ceremony for Ms. Kandi (Heba) Bahame, who is in the African Minerals & Geosciences Centre (AMGC) for three consecutive training courses on:

- Gemstone Characterization and Identification Techniques from 07.03.2022 to 18.03.2022.
- Advanced Gem Identification Techniques from 21.03.2022 to 25.03.2022.
- Diamond Grading from 28.03.2022 to 08.04.2022.

Visit to the Workshop of Tanzania Women Miners Association



The Director General of the African Minerals and Geosciences Centre (AMGC) paid a familiarization visit to the workshop of Tanzania Women Miners Association (TAWOMA) on 22 March 2022. The main objective of the association is to address problems of disorganized mining, including mining related activities, economic hardships, poverty alleviation, and prevention of diseases affecting Tanzania society in general, and women artisanal miners and children in particular. Much has been done by TAWOMA, in terms of organizing women artisanal miners, and educating them on the hazards of indiscriminate mining, and its effect to the environment. But, it has become apparent that women artisanal miners need to be empowered through economic means as well. TAWOMA members, are engaged in small-scale mining of gemstones, gold, diamonds, and industrial minerals. It works towards mobilizing, facilitating, engaging, motivating and inspiring women to fully participate in sector governance and management in Tanzania.

Visit to Workshop of Women in Mining Operations



Working to contribute honorably in shaping mining industry in Tanzania (the host country of AMGC), the Director General of the African Minerals and Geosciences Centre (AMGC) paid a familiarization visit to the workshop of Women in Mining Operations (WIMO) in Dar es Salaam, Tanzania on 24 March 2022. WIMO is an organization of more than 200 women across Tanzania including Tanga (90), Arusha (55), Morogoro (15), Dodoma (10), Shinyanga (15), and Geita (45).

The organization focused in advancing industrial minerals mining and value addition. The vision of WIMO is empowering women in mining and value addition while its mission is to enable accessibility of equipment, working capital, training, marketing and mentorship among women in mining sector for sustainable development. The WIMO Operations / Action in 2022 are:-

1. Own Industrial Minerals, metals, Gemstones and rare earth elements PMLs, develop and mine as collective effort, empower members to support the vision.
2. Plan to have our Summit in 5th May, 2022.
3. Participate in expo, and other exhibition for market linkage and attraction.
4. Source equipments for mining and value addition.
5. Match making- invite and send our members for capacity building.
6. Partnership for goals

Mr. Ibrahim Shaddad was welcomed warmly by both Madam Mary James Masanja, the Chairperson for WIMO and Ms Eng. Lightness Ladislaus Salema, the Executive Secretary. AMGC is ready to support WIMO in providing practical training courses on techniques for gemstone identification and value addition. WIMO expressed their sincere gratitude for AMGC Management efforts in working to contribute in shaping mining industry and geoscience community in Tanzania, other AMGC's member states and elsewhere in Africa.

It is worth mentioning that other executives of WIMO are Madam Jennifer Itosi Marealle, Treasurer; Madam Sheila Nicholas Mkunzi, the Country coordinator; and other zonal coordinators, zonal leaders and members.



Handover of Former BGR Project Manager Mr. Manuel Wollschläger to Mr. Wilhelm Schink



After one year as Manager of the AFP Project in the International Conference Great Lakes Region (ICGLR) Mr. Manuel Wollschläger is leaving BGR (Bundesanstalt für Geowissenschaften und Rohstoffe) in Hannover [Federal Institute for Geosciences and Natural Resources (BGR) for a mission with Friedrich-Ebert-Foundation in Kinshasa. He will be replaced by Mr. Wilhelm Schink who joined the project as a technical advisor in 2015. Mr. Schink is a geologist by training and was until now responsible for the data analysis of the Analytical Fingerprinting laboratory. Mr. Ibrahim Shaddad, the Director General of the African Minerals and Geosciences Centre (AMGC) thanked Mr. Wollschläger for the fruitful cooperation and welcomed Mr. Schink's nomination. We miss Manuel and we wish him well in his future endeavors. As well as we welcome Mr. Shinck and offer our support. It is worth mentioning that recently a tripartite physical a virtual meetings were held between AMGC, ICGLR and BGR, discussing various issues on Analytical Finger Printing Lab (AFP) including management and technical aspects along with commercialization of the laboratory for sustainability.

LIST OF TRAINING COURSES

Tanzanian government issued a new directive on restrictions with regards to the COVID-19. All travelers coming to Tanzania will not be required COVID 19 Free Certificate if they have a valid full vaccination certificate. If one is not vaccinated a COVID 19 Free Certificate with PCR Test and will be subjected to screening and possible additional test at the airport with Rapid Antigen Test. Below is the list of the training courses offered by AMGC.

Those who are interested to participate in the training courses at AMGC facilities are advised to consult the airline they plan to travel with about the current requirements of travel to Tanzania when planning the trip to Dar es Salaam.

Training Topics	Duration	Fee
Finance and Administration Services		
Leadership and Management Skills Training Course	2 Weeks	\$800
Financial Management Skills Training Course	2 Weeks	\$800
Executive Secretarial Training Course	2 Weeks	\$800
Chemical and Environmental Services		
Spectrometric Methods of Analysis.	2 Weeks	\$800
Analysis of Gold and Other Base Metals	2 Weeks	\$800
Quality Management		
Laboratory Certification and Accreditation	2 Weeks	\$1,500
Modern Laboratory Management Methods	2 Weeks	\$800
Quality Control and Quality Assurance in Laboratories	2 Weeks	\$1,500
Mineralogy, Petrology and Gemmology Services		
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 Services		
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 Services		
Practical Mineral Processing and The Basic Mineral Processing Flowsheet	2 Weeks	\$800
Sampling and Sample Preparation for Laboratory Testing	2 Week	\$800
Artisanal and Small Scale Mining Activities	2 Weeks	\$800
Techniques of Gold Cyanidation	1 Week	\$400
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 Services		
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 Assessment and Mitigation of 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
Fundamental of Petroleum Economics	1 week	
Geostatistical Mineral Resource Estimation	1 week	
Introduction to Oil and Gas Industry	1 week	
Introduction to Oil and Gas Industry	2 weeks	
Geoheritage / Geoparks	On Request	
Geo-safari – Geo-traverse across the Pan-African terrains: Tanzanian Craton, Greenstone belt, East African Rift Valley, the Kibaran and Mozambique belts.	On Request	



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***Minerals for
Development***

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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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