



AMGC Director General's Message



During the month of November 2024, the Director General of AMGC participated in the ICGLR Regional Forum on Mineral Value Addition and Cross-Border Trade during 4th -8th November 2024 held in Juba, South Sudan. The Director General of AMGC paid a courtesy visit to the Ministry of Mining of South Sudan in Juba, and Republic of South Sudan becoming a member state number nine of AMGC on 25th November, 2024. On 20th November 2024, AMGC

participated in the USIKU WA MADINI TANZANIA. On 22nd November 2024, AMGC was honored by a familiarization visit from a high level delegation led by the CS for Mining, Blue Economy, and Maritime Affairs, who is the Chairman of AMGC Governing Council. On November 26th 2024, the Director General AMGC paid a courtesy visit to H.E. the newly assigned Sudanese ambassador in Dar es Salaam, Tanzania. On Friday, November 29, 2024 AMGC, received a team of from College of Natural and Mathematical Sciences, UDOM. On November 29th November 2024, AMGC conducted a certificate hand out ceremony for a professional and apprentice trained in MPSMD of AMGC. On 29th November 2024, AMGC conducted a certificate handout ceremony for an apprentice trained in IMAD of AMGC.

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ICGLR REGIONAL FORUM ON MINERAL VALUE ADDITION AND CROSS-BORDER TRADE

6th - 8th November 2024

Juba, Republic of South Sudan



Co-funded by
THE EUROPEAN UNION

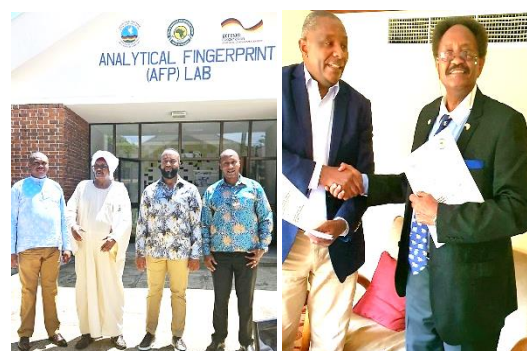
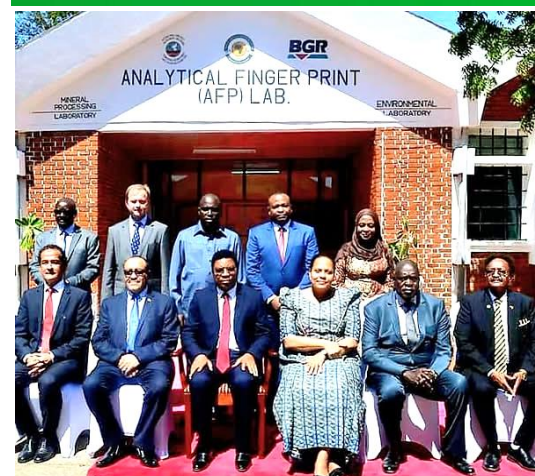
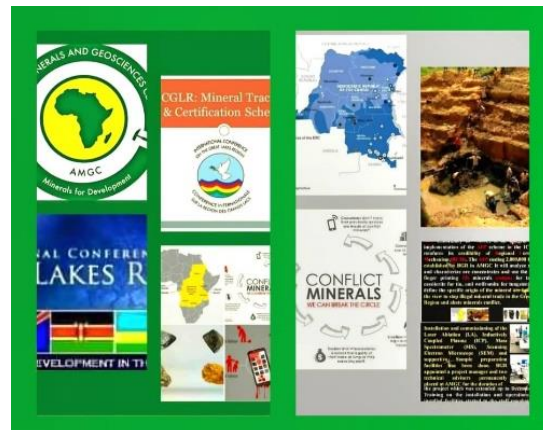


During 6th - 8th November 2024 the Director General of the African Minerals and Geosciences Centre (AMGC) participated in the International Conference on the Great Lakes Region (ICGLR) Regional Forum on Mineral Value Addition and Cross-Border Trade held in Juba, Republic of South Sudan. The director General of AMGC participated as a panelist in the 5th session of the Forum on: "Fostering regional action for beneficiation of natural resources in the region through strengthened linkages across economic sectors, notably using infrastructure and energy, sharing of competencies, such as technology, and expertise ", held on 6 November 2024. The session discussed the dependency of mineral beneficiation and enrichment projects on other sectors of the economy, such as infrastructure, energy, technology and expertise. It will seek to formulate actionable recommendations to strengthen the linkages between these required economic sectors and mineral beneficiation.





AMGC has established a partnership with ICGLR through a tripartite MoU signed between ICGLR, AMGC and BGR (Federal Institute of Geo-sciences and Natural Resources) of Germany. ICGLR, AMGC and BGR (Federal Institute of Geo-sciences and Natural Resources) of Germany). Under this partnership AMGC is hosting the Analytical Fingerprinting (AFP) Laboratory (RINR) for the mitigation of conflicts in the region, which was part of the ICGLR's programs of the Regional Initiative for Natural Resources (RINR) for the mitigation of conflicts in the region. Scanning electron microscopy (SEM) combined with automated mineralogy is used to obtain modal mineralogy as well as the mineralogy of each individual grain on the surface of the polished section. The latter is used to define about 50 ore mineral grains which are analyzed by laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS) to obtain their chemical compositions and an age estimate of the sample. The analytical results (geochemical, geochronological, and mineralogical data) generated by SEM and LA-ICP-MS are stored in a database managed by BGR and the AFP Management Unit in Bujumbura. Other applications of the AFP laboratory facilities: Mineralogical and Petrological Studies • Determination of Rare Earth Elements in Carbonatites • Automated Mineralogy in Petrology • Detection of secondary Beryllium treatment in Ruby and Sapphire • Mineral liberation analysis for efficiency enhancement of chemical and mechanical separation techniques for precious metals. Metallurgical Application • Base metal ore characterization • Heavy mineral sand characterization • Bulk analysis of concentrates • Testing and determination of recovery yields for ore concentrates. Chemical and Environmental • Trace element analysis of x-ray fluorescence spectroscopy specimens • Analysis of water samples for heavy metals.





The South Sudan Council of Ministers approved South Sudan becoming a member state of the African Minerals and Geosciences Centre (AMGC). To pursue this issue Mr. Ibrahim Shaddad, the Director General of AMGC paid a courtesy visit to the esteemed Ministry of Mining of South Sudan in Juba, South Sudan on 8th November 2024. A meeting was held with Dr. Cosmas Pitia Kujjo, the Undersecretary, Ministry of Mining and the meeting was attended by Mr. Vincensio omunjwok Apieker, the Director General for Planning Training and Research. The Director General of AMGC briefed the two top officials regarding procedure of joining the Centre. The Undersecretary of Ministry of Mining declared the Republic of South Sudan has joined the concentrated force of AMGC to be its member state number nine. On November 18, 2024 he Undersecretary of Ministry of Mining further sent a formal declaration letter attached by approval letter from H.E. the Secretary General of Government of the South Sudan to the Centre to initiate the formalities of joining AMGC. The Instrument of Accession to the Agreement concerning the Establishment of the African Minerals and Geosciences Centre was signed on 25th November, 2024 by H.E. Martin Gama Abucha, Minister for Mining of South Sudan on behalf of the Government of Republic of South Sudan. It is expected a high level delegation from the Ministry of Mining will visit the Centre to officiate joining the Centre in the presence of diplomatic missions of AMGC's member states including the South Sudan diplomatic mission in Dar es Salaam Tanzania.

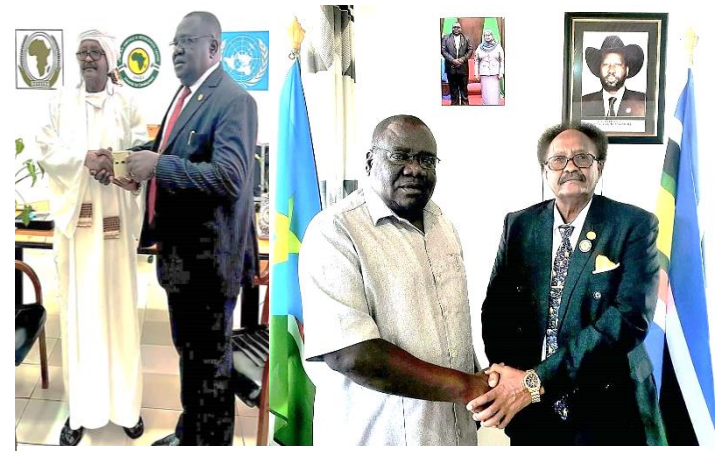




It is worth mentioning that, AMGC was honored on 24th February, 2022 by a familiarization visit paid by a high level delegation from the Government of South Sudan led by Hon. Martin Gama Abucha, Minister for the Ministry of Mining. The high level delegation expressed the interest of the South Sudan to join the Centre. Consequently, AMGC has been communicating with both the esteemed Ministry of Mining of South Sudan as well as with the Embassy of the South Sudan in Dar es Salaam, Tanzania on completion of the procedure of joining the membership of the Centre and the aim of becoming among its concentrated driving force.

Furthermore the Director General of AMGC paid a courtesy visit to the Embassy of the Republic of South Sudan in Tanzania on 18 August 2023. The Director General met both H.E. Ambassador General (RSD) Loyang Okot Johnson Jekery, the Head of Mission of the Republic of South Sudan in Tanzania and H.E. Ambassador Deng Obed Madol Majok, the Deputy Head of Mission. The Director General of AMGC brought to the kind attention of H.E. the Head of Mission the express of interest of the South Sudan to join the Centre.

In his recent visit to Juba, The Director General of AMGC met Hon. Munira Abdel Wahab, the Chairperson of the Standing Specialized Committee on Mining and Industry in the Transitional National Legislative Assembly for Republic of South Sudan. Hon. Munira expressed her support for the South Sudan to join AMGC to benefit from its mineral services.

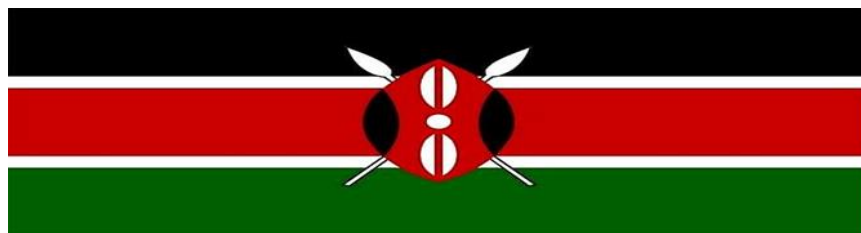




The African Minerals and Geosciences Centre (AMGC) was invited by the esteemed Ministry of Minerals of Tanzania through the office of the Permanent Secretary to participate and exhibit its products and services in the USIKU WA MADINI TANZANIA, THE HOME OF TANZANITE Event, that took place on 20 November 2024 at Mlimani City Conference Centre, Dar es Salaam; Tanzania.

AMGC exhibited its mineral services and several products such as value added development minerals such as semiprecious gemstones and ceramic products in a special booth at Mlimani City Conference Centre.

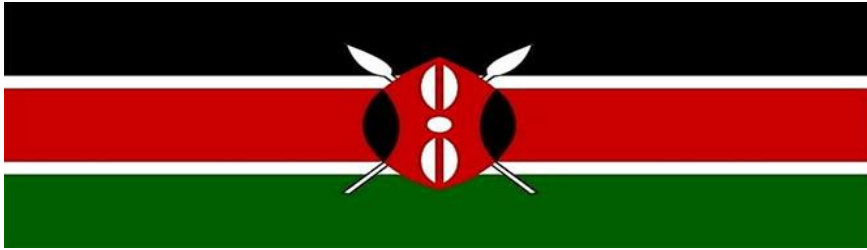


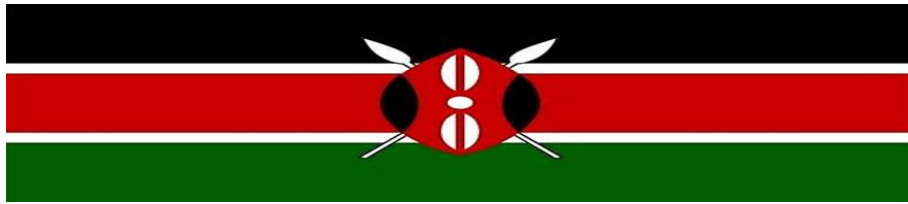


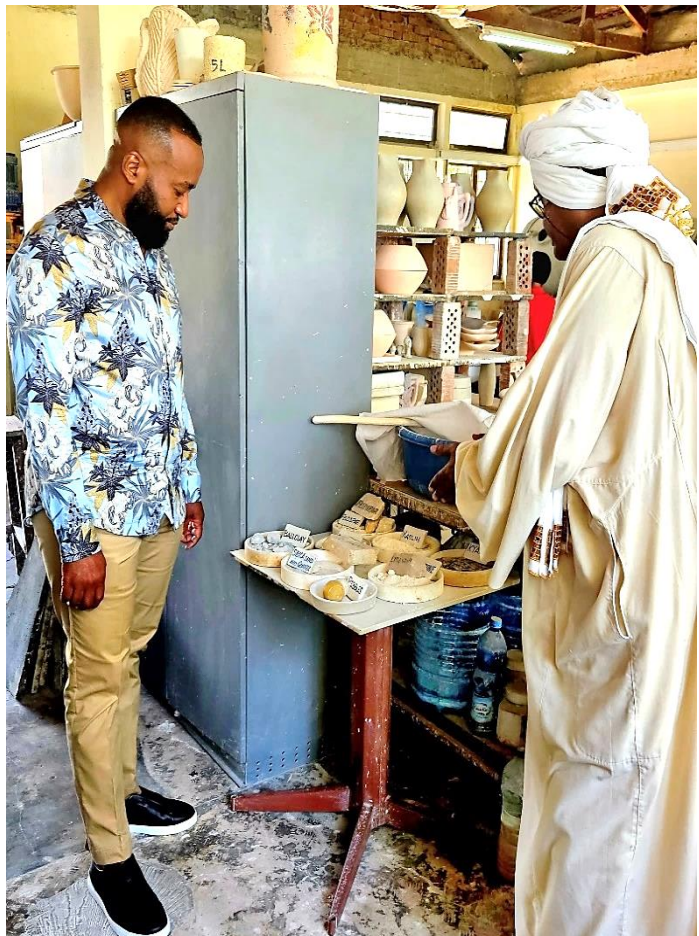
On 22nd November 2024, the African Minerals & Geosciences Centre (AMGC) was honored by a familiarization visit from a high level delegation arrived from Nairobi, Kenya to Dar es Salaam, Tanzania to attend official opening of Tanzania's Mining and Investment Conference (TIMC) 2024. The delegation was led by the Cabinet Secretary for Mining, Blue Economy, and Maritime Affairs H.E Hassan Ali Joho in his capacity, the current Chairman of AMGC Governing Council. H.E. Hassan Ali Joho was accompanied by Mr. Elijah Mwangi, the Principal Secretary of State Department for Mining at the Ministry of Mining, Blue Economy and Maritime Affairs, Kenya, who is a distinguished member of AMGC Standing Committee for Officials. The Kenya's High Commissioner to the United Republic of Tanzania H.E. Isaac Njenga accompanied the two top dignitaries from the esteemed Ministry of Mining, Blue Economy and Maritime Affairs, Kenya.

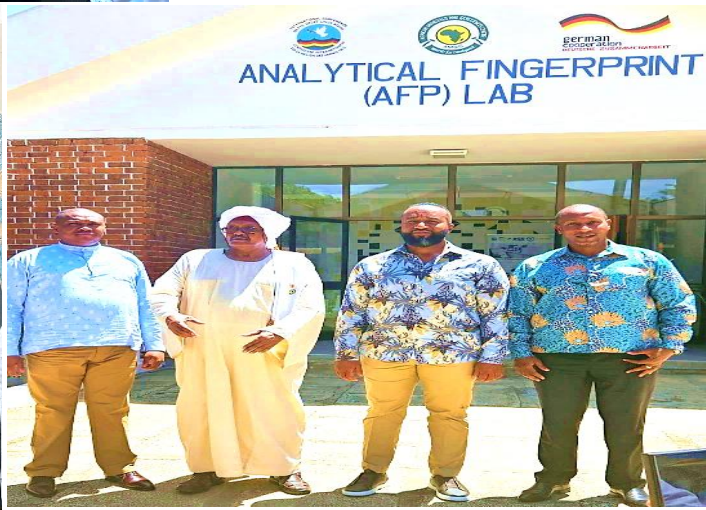
Mr. Ibrahim Shaddad, Director General of AMGC, briefed the distinguished Kenyan visitors regarding the performance of the Centre and challenges facing it. He also expressed gratitude and appreciation for Kenya's sustainable support through the esteemed Ministry of Mining, Blue Economy & Maritime Affairs, which enabled the Centre to implement its activities to its highest peak. It is worth mentioning that Kenya is leading in timely fulfilling its annual financial commitments to the Centre and Kenya is expected to maximize its benefits from the mineral services provided by the Centre

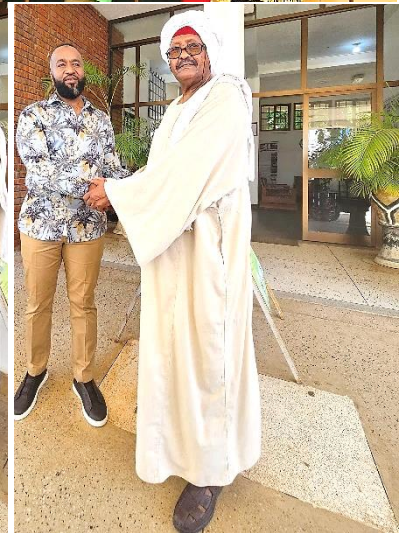
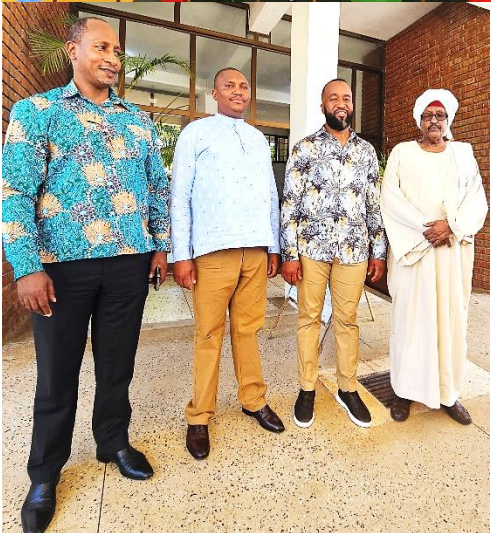
The distinguished Kenyan visitors toured the facilities of AMGC. Kenya, the member state of AMGC joined the Centre in July 2006 becoming the 7th member state, chaired the AMGC Governing Council and hosted the Policy Organ Meetings three times (May 2011, June 2014 and May 2015) and the coming one will be hosted by Kenya under the chairmanship of H.E Hassan Ali Joho, the current Chairman of Governing Council of AMGC.

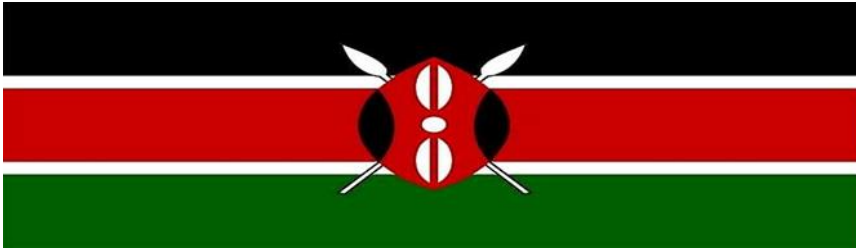












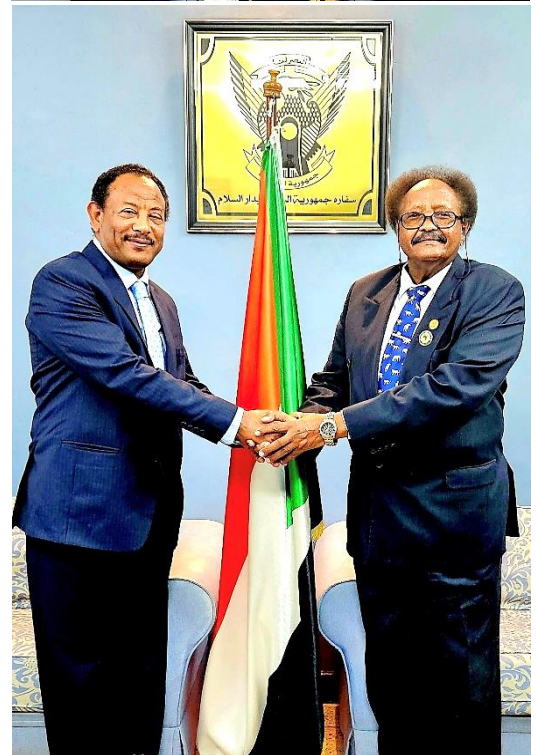
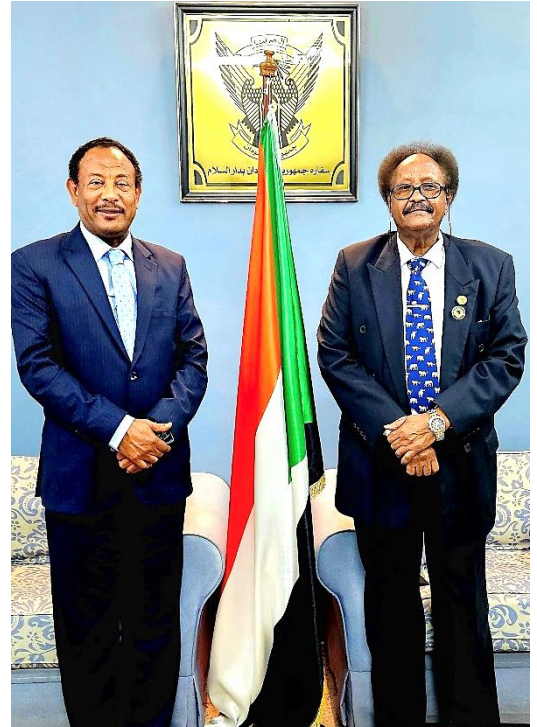
APPRECIATION & GRATITUDE

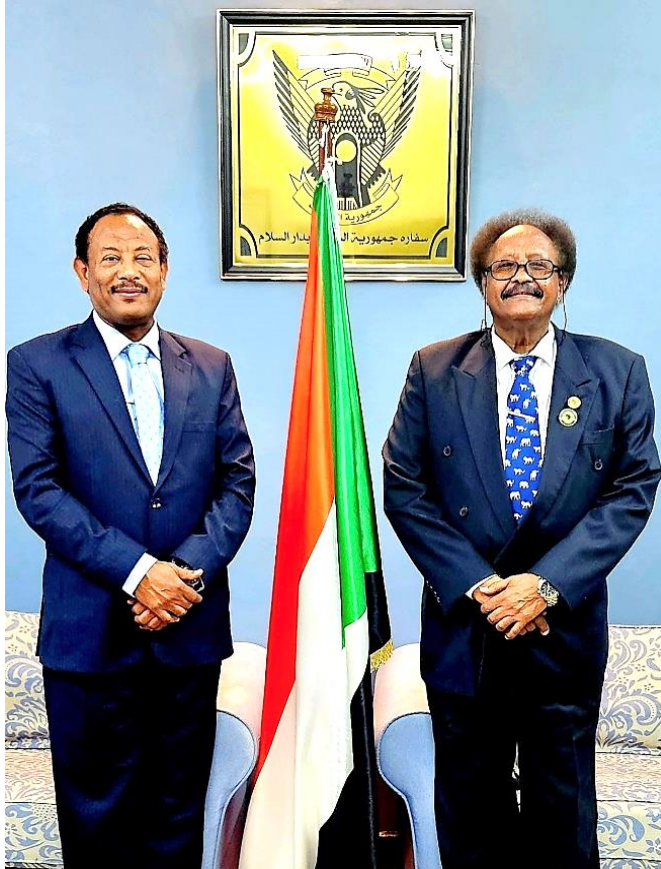
The African Minerals and Geosciences Centre (AMGC) would like to express its much appreciation and gratitude to Kenya for fulfilling its financial commitments for the current financial year 01 July 2024 - 30 June 2025 to the Centre. It is worth mentioning that Kenya joined the Centre in July 2006 becoming 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.



On November 26, 2024, Mr. Ibrahim Shaddad, the Director General of the African Minerals and Geosciences Centre (AMGC), paid a courtesy visit to H.E. Ambassador Dr. Mohamed Abdalla Abd Elhameed, the newly assigned Sudanese ambassador in Dar es Salaam, Tanzania. The Director General of AMGC briefed H.E. the Sudanese ambassador regarding the performance of AMGC and current challenges facing the Centre. Furthermore Mr. Ibrahim Shaddad expressed much appreciation for the arrangement which have been done recently to send the annual subscription of Ministry of Minerals on behalf of the Government of the Sudan through the Ministry of Foreign Affairs of the Sudan to the Centre.

Sincerely recognizes the Government of Sudan has been unreserved supporting the Centre in overcoming repeated financial constrains that the Centre is facing. Mr. Shaddad also expressed much gratitude and sincere recognition of 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 is one of the leading member states of AMGC timely fulfilling their financial contributions to the Centre. H.E. Ambassador Dr. Mohamed Abdalla Abd Elhameed 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 Sudan is the last member state to join the workforce of AMGC in August 2010. The Sudan chaired the AMGC 33rd and 39th Governing Council Meetings hosted in Khartoum in 2013 and 2019, respectively. The Sudan is ranking the first in utilizing the paid 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 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.



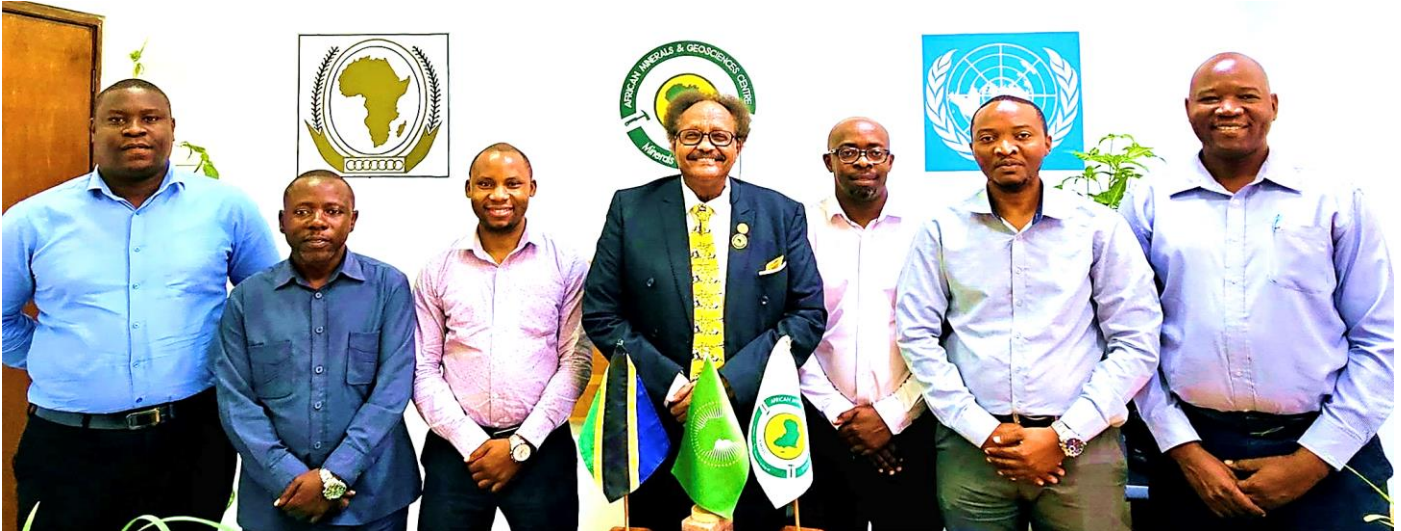
APPRECIATION & GRATITUDE

Mr. Ibrahim Shaddad, the Director General of 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.

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On Friday, November 29th 2024, the African Minerals and Geosciences Centre (AMGC), an ISO 9001:2015 certified received a team of two lecturers from the University of Dodoma (UDOM), College of Natural and Mathematical Sciences. The team included

- 1. Dr. Mtabazi Sahihi, HoD, Chemistry Department**
- 2. Dr. Benatus Mvile, Coordinator of Higher Education for Economic Transformation (HEET) Project**

The aim of the visit was to familiarize with activities of the Centre and discuss the collaboration between UDOM and AMGC, especially in the areas of training for capacity building, research, and consultancy.



On November 29th 2024, the African Minerals and Geosciences Centre (AMGC) conducted a certificate hand out ceremony for:

- Mr. Jonh Joseph Mhone, a Tanzanian national working in Zambia, who had finished an on job training course on Techniques of Gold Cyanidation during 18-29 November 2024 at the Mineral Processing and Small-scale Mining (MPSM) Department of the African Minerals and Geosciences Centre (AMGC).
- Miss Salma Habass, a Mineral Processing Engineer who graduated from Mineral Resource Institute of Dodoma, had finished attending a nine months internship program in the Minerals Processing and Small-scale Mining (MPSM) Department of the African Minerals and Geosciences Centre (AMGC).



On 29th November 2024, the African Minerals and Geosciences Centre (AMGC) as part of empowering women and youth, congratulated a young Tanzanian Miss. Queen Massawe, who has successfully completed her nine months internship program for an economic skill building in the Industrial Minerals Application Department (IMAD) at AMGC from 18 January to November 2024.



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TANZANIA

MONDAY 25 NOVEMBER, 2024

AMGC highlights achievements, vision for pan-African excellence

By Guardian Reporter

THE African Mineral and Geosciences Centre (AMGC) has become a symbol of Pan-Africanism in minerals and geosciences under the leadership of its Director General, Ibrahim Shaddad.

Speaking recently in Dar es Salaam, Shaddad emphasized the centre's strides in establishing itself as a renowned continental institution, fostering technological advancement, and ensuring financial sustainability.

Since assuming office in July 2015, Shaddad (pictured) has focused on revitalizing AMGC, which he described as a "sleeping beauty."

His initiatives have enhanced the centre's infrastructure, improved staff salaries, and created a more conducive working environment that embodies the spirit of Pan-Africanism. He attributes the centre's progress to his team-oriented management style and open-door policy, fostering collaboration and problem-solving.

Shaddad has prioritized quality and discipline among AMGC staff, striving to make the centre a true leader in Africa. "We must work with dedication and share a collective vision to maintain AMGC as a Centre of Excellence," he stated.

A notable achievement under Shaddad's leadership is AMGC's commitment to empowering Tanzanian youth through training. Since 2015, 336 young Tanzanians have received free training at AMGC, with 86 of them serving as interns. Many of these interns, who receive a monthly stipend to cover transportation and food, are fresh graduates from Tanzanian universities.

Additionally, AMGC has established a program to empower women and youth with limited academic backgrounds, offering opportunities to develop economic



skills. An example is the promotion of Regina Mbwambo, who started as a volunteer ceramist and progressed to a junior technician role after enhancing her skills and qualifications.

Shaddad also underscored the centre's commitment to transparency, good governance, and zero tolerance for corruption. Reforms in financial management have optimized operations, reduced costs, and increased income generation. These measures ensure the AMGC operates efficiently while delivering specialized services to its clients.

The AMGC continues to play a critical role in supporting local value addition and sustainable development in Africa's mining sector.

Shaddad stressed the importance of economic empowerment and community engagement in driving meaningful change. By focusing on income-generating activities and maintaining high standards, AMGC aims to remain a hub of excellence and innovation for Africa's mining and geosciences communities.

Through these initiatives, Shaddad envisions the AMGC as a cornerstone for African development, ensuring it remains a beacon of Pan-African collaboration and progress.

AMGC IN THE NEWSPAPERS OF TANZANIA, THE HOST COUNTRY OF THE CENTRE

THE CITIZEN

Monday, November 25, 2024

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Minerals' body plans gold refinery, coltan smelting plant in Tanzania

By The Citizen Reporter
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Dar es Salaam. A sub-regional centre that works to develop the mining sector in several countries is planning to establish a small-to-medium-scale gold refinery and coltan processing and smelting plant in Tanzania.

The plant by African Minerals Geoscience Centre (AMGC) will foster socioeconomic development in the country and in its [AMGC] member states, its Director General, Ibrahim Shaddad, said at the weekend.

This initiative, according to AMGC Director General Ibrahim Shaddad, said at the weekend that the decision seeks to enhance the centre's sustainability and reduce its dependency on member states' contributions. Established in 1977 in Dodoma as the Eastern

and Southern African Mineral Resources Development Centre (ESAMRDC), the institution later evolved into the Southern and Eastern African Mineral Centre (SEAMIC) before adopting its current name in 2015 to reflect a broader Pan-African focus.

Mr Shaddad stated that the proposed projects would operate under a Public-Private Partnership (PPP) model and comply with all Tanzanian investment laws and regulations.

"This development will allow more African countries to join AMGC, boosting value addition in Africa's extractive industry," he said, emphasizing its potential to attract high-tech joint ventures and foster financial independence.

The plans were endorsed during AMGC's recent 37th Policy Organ Meeting, chaired by Tanzania. Apart from the host country, AMGC's member states include Ethiopia, Kenya,

Mozambique, Uganda, Sudan, Angola, and the Comoros.

Since joining AMGC in 2015, Mr Shaddad, a Sudanese diplomat and geologist, has led various transformative efforts, including infrastructure enhancement, staff salary increments, and the establishment of a Pan-African presence for the centre.

Under his leadership, the AMGC has offered free training to 336 young Tanzanians, with 86 of them gaining internships. Additionally, Mr Shaddad revealed ongoing efforts to rehabilitate ceramic equipment with support from the Chinese Embassy in Dar es Salaam to intensify the centre's capacity.

Founded through the visionary efforts of Tanzania's Mwalimu Julius Nyerere and Ethiopia's Emperor Haile Selassie, AMGC has historically conducted geological surveys and provided mineral exploration services to its member states. Initially based in Dodoma, the centre relocated to Dar es Salaam in 1991 to diversify its operations and offer high-tech laboratory and geo-information services.

This will allow more African countries to join AMGC, boosting value addition in Africa's extractive industry

SHADDAD | AMGC DIRECTOR GENERAL

**AMGC IN THE NEWSPAPERS OF
TANZANIA, THE HOST COUNTRY OF THE
CENTRE**



The National Newspaper

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AMGC eyes modern gold refinery, Coltan processing, smelting plants

By DAILY NEWS
Reporter

THE African Minerals Geoscience Centre (AMGC) is planning to establish a state-of-the-art small-to-medium-scale gold refinery, along with Coltan processing and smelting plants, to foster socioeconomic development in Tanzania and across AMGC member states.

In an exclusive interview over the weekend in Dar es Salaam, AMGC Director General Ibrahim Shaddad said that the centre is focusing on promoting collaboration with the private sector to enhance public-private partnerships (PPP) within its mandate.

"This initiative is part of efforts to ensure the sustainability of AMGC, reducing its heavy dependence on contributions from member states. Ultimately, this will pave the way for more African countries to join AMGC, further boosting value addition in Africa's extractive industry," Mr Shaddad ex-

plained.

He added that the two proposed income-generating projects were endorsed during the 37th Policy Organ Meeting of AMGC, which was chaired by Tanzania. The projects will be implemented by a separate commercial entity that complies with Tanzania's investment laws and regulations.

This shift in strategy stems from the 27th meeting of the AMGC Governing Council in Maputo, Mozambique, where the centre was directed to collaborate more closely with the private sector to drive growth in Africa's mining sector, reduce unemployment and generate income for member countries.

Mr Shaddad also highlighted that AMGC is actively pursuing joint ventures to introduce high-tech facilities, enhancing its Pan-African capacity and services and creating significant income to enable the centre to become self-sufficient and less reliant on member state

funding.

AMGC, which was established in 1977 in Dodoma, Tanzania, as the Eastern and Southern African Mineral Resources Development Centre (ESAMRDC), later changed its name to the Southern and Eastern African Mineral Centre (SEAMIC).

"I have personally approached several African countries to join AMGC. Currently, we have Ethiopia, Tanzania (the host country), Kenya, Mozambique, Comoros, Uganda, Sudan and Angola. We are working to invite more countries to join AMGC and raise awareness of the mining sector's potential to drive socioeconomic development across the continent," he noted.

In 1991, AMGC moved its operations to a new site in Dar es Salaam, with a mission to promote the responsible development of the mining sector in Africa, addressing new demands in the industry.

Mr Shaddad, a Sudanese diplomat and renowned ge-

ologist, also highlighted his achievements since joining AMGC in 2015. Under his leadership, AMGC has become a well-recognised continental institute, improved its analytical infrastructure, increased staff salaries and transformed its image to reflect Pan-Africanism.

"Under my management, AMGC has provided free training opportunities for 336 young Tanzanians, with 86 of them securing internships after graduating from various universities and higher learning institutions in Tanzania," Mr Shaddad said.

Additionally, efforts are underway to rehabilitate ceramic working equipment in collaboration with the Chinese Embassy in Dar es Salaam, aiming to enhance AMGC's capabilities for the benefit of Tanzania and the continent.

Formerly known as the Southern and Eastern African Mineral Centre (SEAMIC), AMGC was established in 1977 through the efforts of Tanzania's Mwalimu Julius

Nyerere and Ethiopia's Haile Selassie, both strong advocates of African liberation.

Originally focused on regional geological surveys and providing mineral exploration services for its founding countries—Ethiopia, Mozambique and Tanzania—AMGC later expanded its membership.

Uganda, Angola and the Comoros joined, followed by Kenya in 2006 and Sudan in 2010. In 2007, a ministerial meeting in Maputo opened membership to all African states, prompting the name change to AMGC in July 2015.

In 1991, the centre moved to its new site in Dar es Salaam with a mission to promote the responsible development of Africa's mining sector. AMGC has since diversified its services, including modern minerals analytical laboratory services, geo-information data processing and specialised short-term training programmes to meet the evolving demands of the mineral sector.

EVENTS



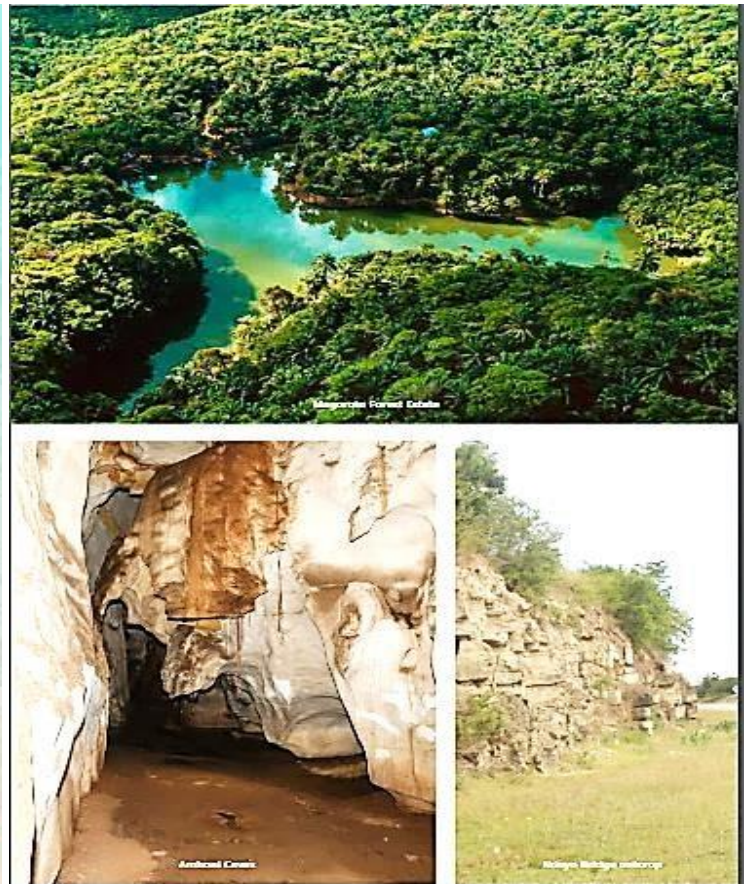
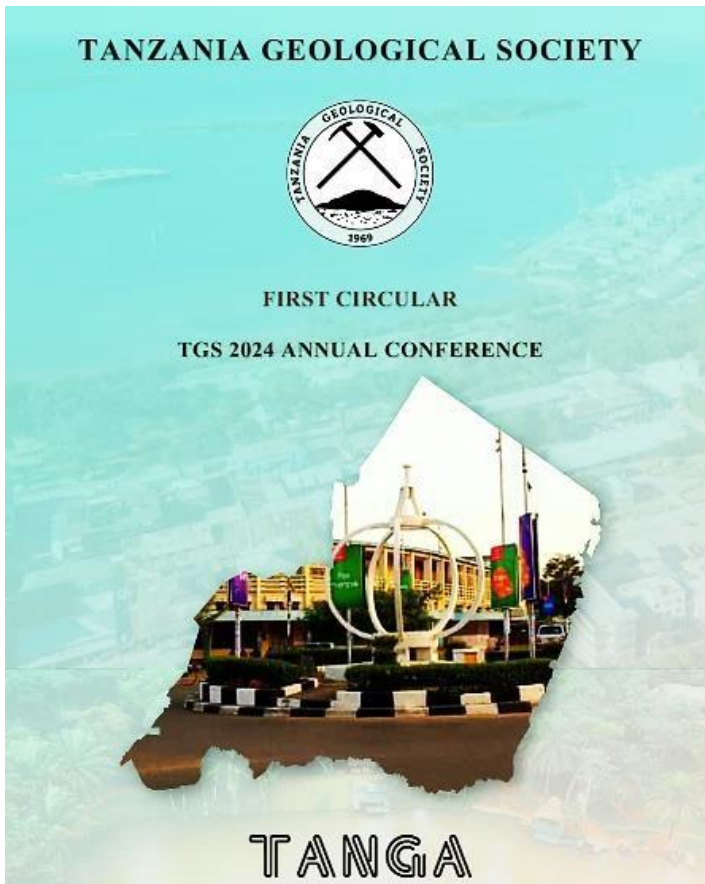
We are thrilled to announce the **Mining Tech January-February 2025 International Forum and Exhibition**.
Dates: The event has been postponed, a new date will be announced soon.
Location: Kempinski Royal Maxim Hotel First Settlement, New Cairo City.
 Join us in Cairo to explore groundbreaking opportunities 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



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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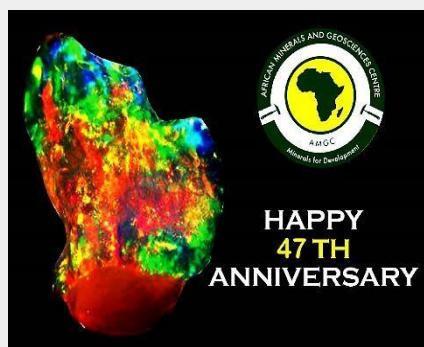
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***Minerals for
Development***

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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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