



AMGC Director General's Message



During the month of April 2026, AMGC was pleased to confirm the employment contract of Eng. January Kadenge Danstan after the completion of his six-month probationary period. AMGC honored to receive academicians from College of Earth Sciences and Engineering from the University of Dodoma (UDOM), Tanzania. AMGC received two undergraduate students from Mwenge Catholic University (MWECAU), Tanzania for 5-week free of charge Field Practical Training program. AMGC completed its annual statutory workplace health and safety inspection conducted by OSHA, Tanzania. AMGC hosted 23 members of Geological Association of Students (UDGAS) from the University of Dar es Salaam, Tanzania. The Director General of AMGC attend the King's Day Reception hosted by the Embassy of the Kingdom of the Netherlands at the Ambassador's Residence in Dar es Salaam Tanzania. Kenya held successfully Mining Investment Conference & Expo 2026 (MICE 2026) during 28-29 April 2026. AMGC extended its heartfelt condolences to people of Mozambique following the devastating floods and cyclone impacts. Director General of AMGC published Memoirs of a Geologist: Running Like a Mad Dog in the Field on the Occasion of Geologists' Day, 5 April 2026. AMGC extended warm wishes for Good Friday, Easter, and Tanzania Union Day. AMGC congratulated Eng. Ally B. Samaje on his appointment as Chief Executive Officer of the GST.

Contents

AMGC was honored to receive academicians from College of Earth Sciences and Engineering from the University of Dodoma (UDOM), Tanzania. Page 1-3

AMGC received two undergraduate students from Mwenge Catholic University (MWECAU), Tanzania for 5-week free of charge Field Practical Training program. Page 4

AMGC completed its annual statutory workplace health and safety inspection conducted by the Occupational Safety and Health Authority (OSHA), Tanzania. Page 5

AMGC hosted 23 members of Geological Association of Students (UDGAS) from the University of Dar es Salaam, Tanzania. Page 6-7

AMGC was pleased to confirm the employment contract of Eng. January Kadenge Danstan after the completion of his six-month probationary period. Page 8

The Director General (AMGC) honored to attend the King's Day Reception hosted by the Embassy of the Kingdom of the Netherlands at the Ambassador's Residence in Dar es Salaam Tanzania. Page 9

Kenya Mining Investment Conference & Expo 2026 (MICE 2026). Page 10-13

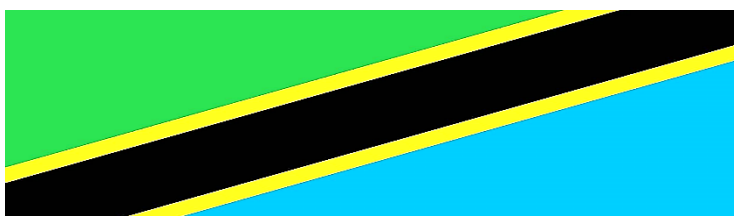
AMGC extended its heartfelt condolences to the people of Mozambique following the devastating floods and cyclone impacts. Page 14

Memoirs of a Geologist: Running Like a Mad Dog in the Field
By Mr. Ibrahim Shaddad, Director General of AMGC on the Occasion of Geologists' Day, 5 April 2026 Page 15-16

AMGC extended warm wishes for a blessed Good Friday, a joyful Easter, and a happy Tanzania Union Day. Page 17

Appreciation, Gratitude and Congratulation Page 18-22
Kunduchi Ceramics produced by AMGC Page 23-25
Training Courses Page 26-34
AMGC Contact Page 35
Events Page 36-59



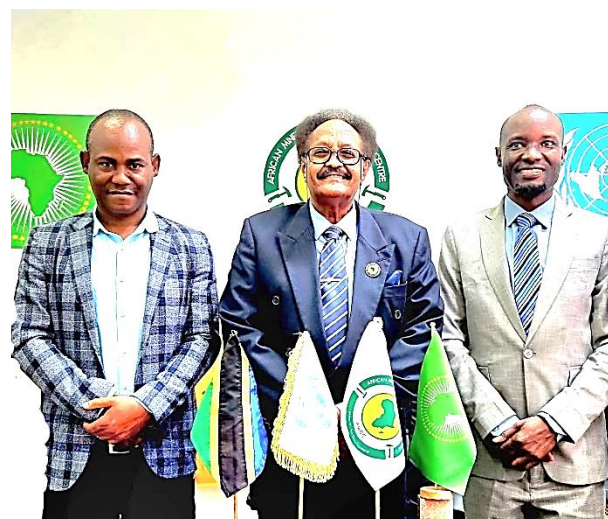


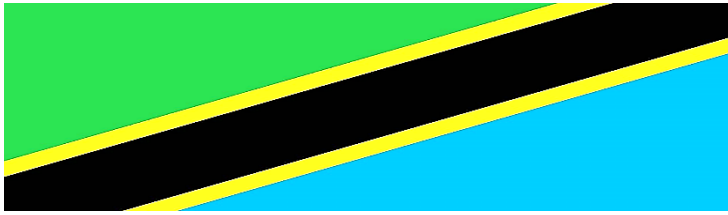
On 10th April 2026, the African Minerals and Geosciences Centre (AMGC), an ISO 9001:2015 certified Continental Centre of Excellence was honored to host Dr. Michael M. Msabi, Principal, College of Earth Sciences and Engineering from The University of Dodoma (UDOM), Tanzania. Dr. Msabi was accompanied by Dr. Ceven T. Shemsanga, Head of the Department of Environmental Engineering and Management.

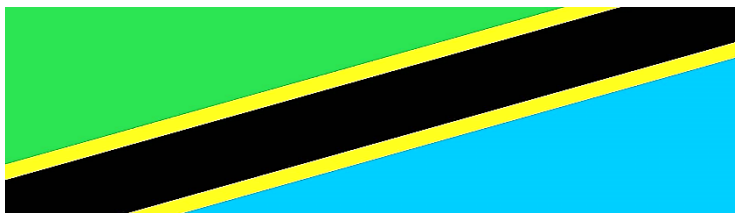
The aim of the visit was to familiarize with the analytical and geoscientific infrastructure present at the Centre to identify areas of collaboration between AMGC and UDOM.

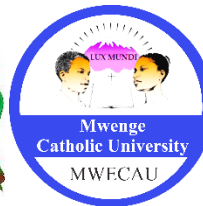
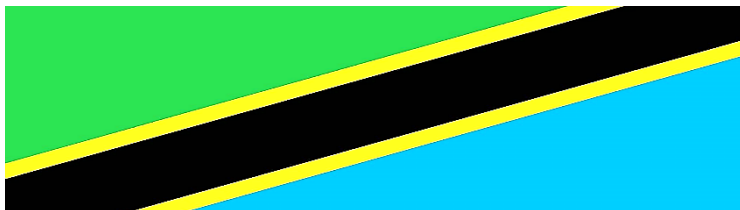
The delegation was introduced to several analytical and geoscientific machines and technical processes present at the Centre, including AAS, ICP, XRF, XRD, SEM, Mineralogy, Geo-information and Ceramic production just to mention a few.

In providing insights to this visit and the expected collaboration, the Director General of AMGC, Mr. Ibrahim Shaddad gave a comprehensive explanation on the obligation of the Centre in establishing such kind of scientific collaboration and assured the delegation that the Centre would provide maximum support in realizing this goal including signing a Memorandum of Understanding with UDOM on capacity building and research programs. Mr. Shaddad added that, the Centre has been providing free of charge practical training programs to 35 undergraduate students from The University of Dodoma in Tanzania.









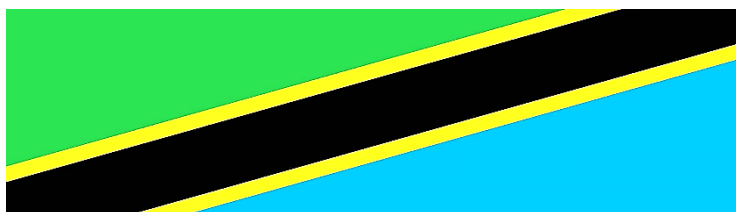
AMGC Welcomed MWECAU Chemistry Students for Practical Training

On 13th April 2026, the African Minerals and Geosciences Centre (AMGC) received two undergraduate students, Glory L. Temba and Vaileth Y. Mwamluku, from Mwenge Catholic University (MWECAU), Tanzania. Both are pursuing a Bachelor of Science in Chemistry.

The students will complete a 5-week free of charge Field Practical Training program from April 13 to May 16, 2026, with AMGC's Chemical and Environmental Department. The training bridges theory and hands-on knowledge as the prerequisite to complete their studies.

AMGC, an ISO 9001:2015 certified Continental Centre of Excellence, provides free practical programs to undergraduate students from public and private universities and colleges across member states to build capacity in the mineral sector.





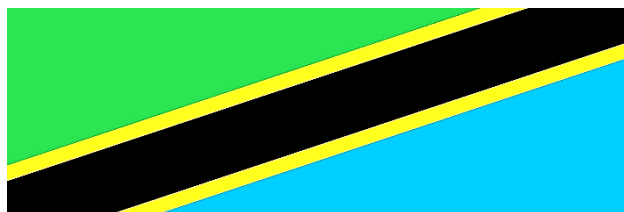
AMGC Completed 2026 OSHA Health and Safety Inspection.

On 14th April 2026, the African Minerals and Geosciences Centre (AMGC) completed its annual statutory workplace health and safety inspection conducted by the Occupational Safety and Health Authority (OSHA), Tanzania.

The inspection team was led by Lead Inspector Mr. Cresence Kwembe and Inspector Mr. Humphrey Tarimo.

As an ISO 9001:2015 certified Continental Centre of Excellence, AMGC demonstrated strong compliance with workplace health and safety standards. This ongoing commitment underpins the Centre's reliable delivery of mineral services to Member States and beyond.



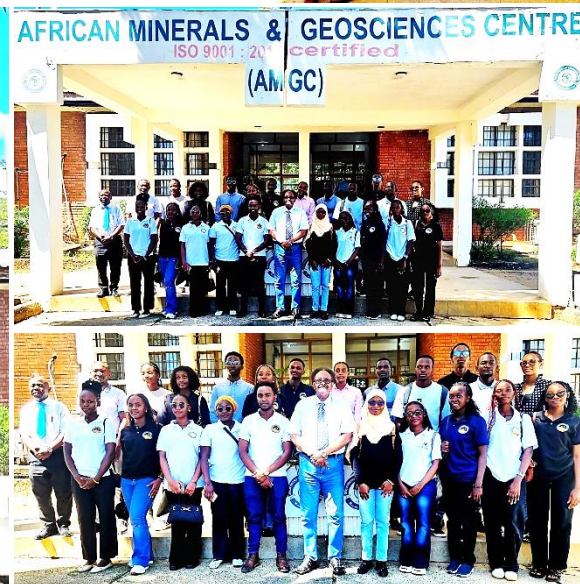
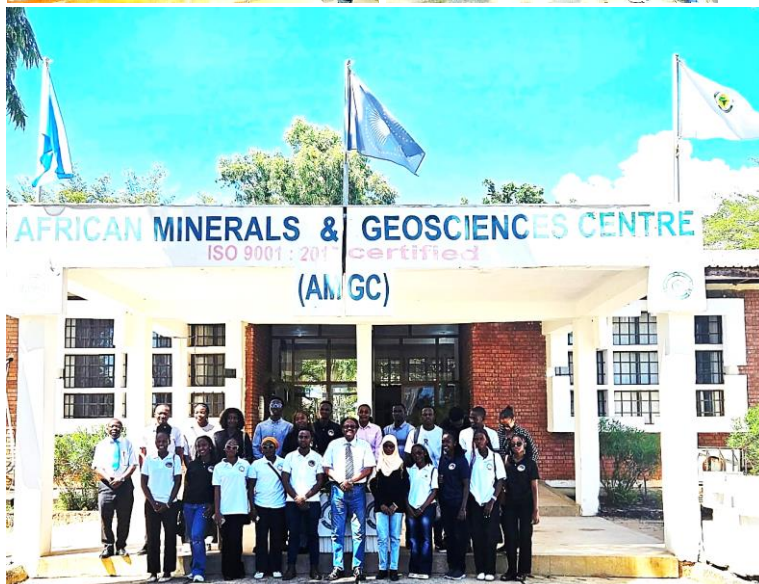
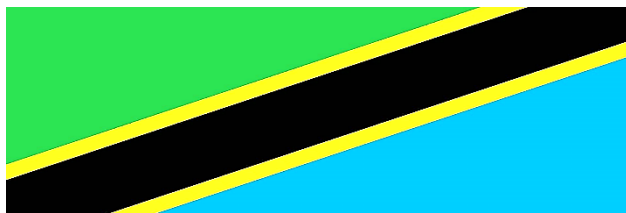


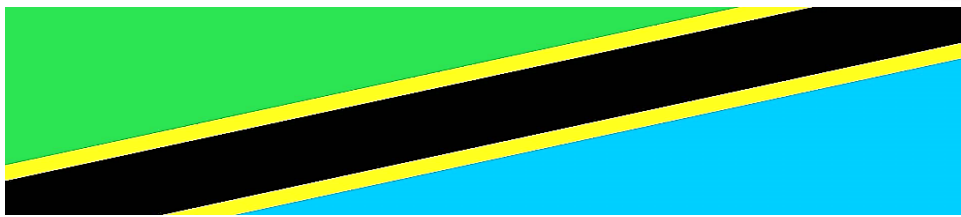
On 17th April 2026, the African Minerals and Geosciences Centre (AMGC), an ISO 9001:2015-certified Continental Centre of Excellence, hosted 23 members of Geological Association of Students (UDGAS) from the University of Dar es Salaam, Tanzania. All members were undergraduates Geology students from the Department of Geosciences, School of Mines and Geosciences. They were led by Chairperson James Gregory Phaustine, Vice Chairperson Irimina Dominic, and General Secretary John George Buzuka.

The visit aimed to familiarize students with AMGC's operations and explore collaboration opportunities to bridge the gap between theory and practical experience. The team received an overview of analytical methods and equipment across AMGC's departments.

AMGC Director General Mr. Ibrahim Shaddad outlined key benefits available to UDGAS, including free field training and internship programs. He affirmed AMGC's support for the association's activities and advised UDGAS leadership to formally submit their requirements to the Centre. Mr. Shaddad reiterated AMGC's mission to strengthen capacity among young scientists in the mineral sector across public and private universities and colleges in member states.







Following the successful completion of his six-month probationary period, Eng. January Kadenge Danstan demonstrated outstanding performance, discipline, behavior and professionalism in his role as Senior Mineral Processing Engineer in the Mineral Processing and Small-Scale Mining Department.

After a comprehensive assessment, the Centre was pleased to confirm his employment contract. In recognition of his contributions and proven capabilities, he was hereby appointed Manager of the Mineral Processing and Small-Scale Mining Department, effective 17th April 2026.

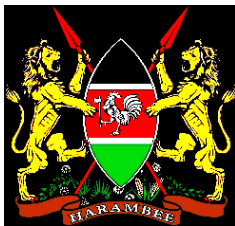


Mr. Ibrahim Shaddad, the Director General of the African Minerals and Geosciences Centre (AMGC) delighted and honored to be cordially invited to the King's Day Reception held by Embassy of the Kingdom of the Netherlands at the Ambassador residence in Dar es Salaam on the evening of 24th April 2026.



It is worth mentioning that Mr. Ibrahim Shaddad acquired in the Netherlands his post graduate diploma and master degrees on Application of Remote Sensing Techniques in Structural Geology for Exploration by a field research in the multi-deformed area south Arkawit in Southern Red Sea Hills, SUDAN.





MiCE
KENYA MINING INVESTMENT CONFERENCE & EXPO



2026

28-29 APRIL 2026
ARGYLE GRAND HOTEL
NAIROBI AIRPORT
8:00AM - 5:00PM

THEME PARTNERSHIPS FOR PROSPERITY: ADVANCING VALUE-LED MINING IN KENYA

This landmark event brings together key stakeholders and captains of industry to unpack Kenya's mineral portfolio.



10th MINEXP AFRICA 2026

08 - 10 July, KICC, Nairobi, Kenya



MiCE | 28-29 APRIL 2026
ARGYLE GRAND HOTEL
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Be Part of Kenya's Mining Business Transition!

REGISTER

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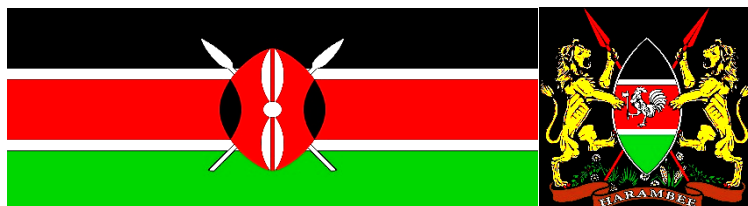
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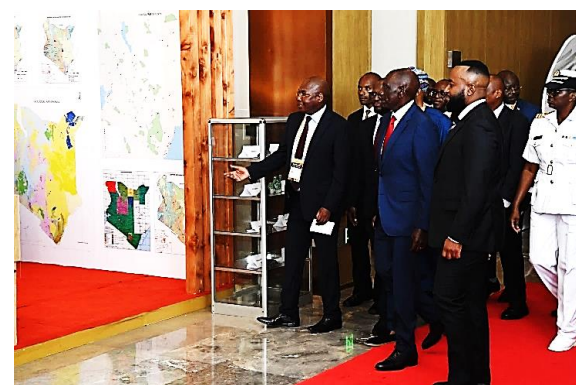


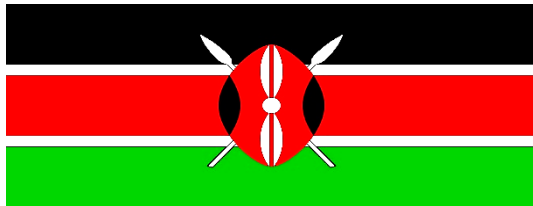


The Kenya Mining Investment Conference & Expo 2026 (MICE 2026), held on April 28-29 at the Argyle Grand Hotel, Nairobi, marked a major shift towards local value addition, with President Ruto announcing a ban on raw mineral exports to maximize economic returns. The conference brought together over 700 delegates under the theme *"Partnerships for Prosperity: Advancing Value-Led Mining in Kenya"*

Key Highlights from April 28-29, 2026:

- **Theme - "Partnerships for Prosperity: Advancing Value-Led Mining in Kenya":** The conference focused on unlocking the potential of Kenya's mining sector, which currently contributes less than 1% to GDP but has over 970 identified mineral occurrences.
- **Focus on Value Addition:** President William Ruto and Mining CS Hassan Joho emphasized an end to exporting raw minerals, pushing for local processing, refining, and manufacturing to retain economic value.
- **Major Investment Projects:** Highlighted projects included the KSh 11 billion iron ore palletization plant in Taita Taveta, expected to create 3,000 jobs.
- **Regional Collaboration:** Nigeria's Minister of Solid Minerals Development, Dele Alake, urged African nations to harmonize policies to strengthen regional cooperation and global supply chain position.
- **Strategic Mineral Push:** Discussions highlighted Kenya's role in supplying critical minerals—cobalt, manganese, platinum, and rare earth elements—needed for global energy transition.
- **Incentivizing Formalization:** The conference promoted the formation of cooperatives for artisanal miners to make them bankable and formalize operations.





MICE
KENYA MINING INVESTMENT CONFERENCE & EXPO 2026

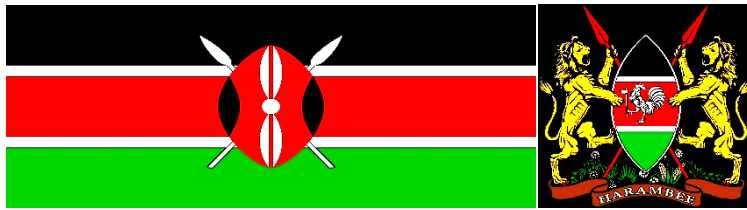


28-29 APRIL 2026
ARGYLE GRAND HOTEL
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THEME: PARTNERSHIPS FOR PROSPERITY: ADVANCING VALUE-LED MINING IN KENYA.

This landmark event brings together key stakeholders and captains of industry to unpack Kenya's mineral portfolio.





Key Highlights of the Conference (April 29)

The final day of the conference focused heavily on moving from "extraction to integration" and establishing Kenya as a competitive, responsible mining destination.

- **Strategic Vision:** President William Ruto emphasized positioning Kenya within the global mineral value chain, particularly for critical minerals.
- **Regulatory Stability:** A major highlight was the discussion on Kenya's **Mining Act**, which was praised for providing transparency and predictability with zero local or international legal disputes to date.
- **Public-Private Partnerships (PPPs):** Panels moderated by Invest Kenya discussed using PPPs to accelerate infrastructure development and grow the sector's GDP contribution from less than 1% to **10% by 2030**.
- **Sustainability and ESG:** Discussions highlighted the shift toward Environmental, Social, and Governance (ESG) standards, where parent companies may now be held legally responsible for the environmental impacts of their subsidiaries.
- **Regional Collaboration:** The Africa Finance Corporation (AFC) announced plans to establish its regional headquarters in Nairobi, further supporting the upcoming Minerals Infrastructure Summit planned for later in 2026.

Award Winners and Recognition

During the closing of MICE 2026, several individuals and organizations were honored for their contributions to the sector, including:

- **Terramin Investments** and **Tata Magadi** for innovation and leadership.
- **Mombasa Cement Co. Ltd** and the **DEVKI Group** for industrial impact.
- The late **Mr. Bruce Bridges** and **Mr. Francis Kalinzoya** for their lasting legacy in Kenyan mining.





CONDOLENCES

The African Minerals and Geosciences Centre (AMGC) heard with great shock that Mozambique has been affected by severe flooding during the current rainy season and the passage of tropical cyclone GEZANI causing flooding and prompting evacuations of people living in low-lying areas in the provinces of Inhambane, Gaza and Sofala due to flooding. The humanitarian impact due to the rainy season caused 279 fatalities, 11 missing, 340 injured people, and 892 273 displaced.



AMGC recognizes the hard time the nation is facing and on behalf of the staff and management of AMGC, I would like to convey our sincere sympathy to the Government of Mozambique for the loss of citizens and properties.

HAPPY GEOLOGISTS' DAY

Memoir of a Geologist Running Like a Mad Dog in the Field

By Ibrahim Shaddad

I spent my youth immersed in the demanding world of geology—surveying, mapping, prospecting, and exploring for minerals across the continent-wide Sudan. In those early years of my career, I often heard teasing remarks suggesting that geology, with all its hardships in the wilderness, was not a profession for respectable people! Some even went as far as to say, “Geology is a job for slaves.”

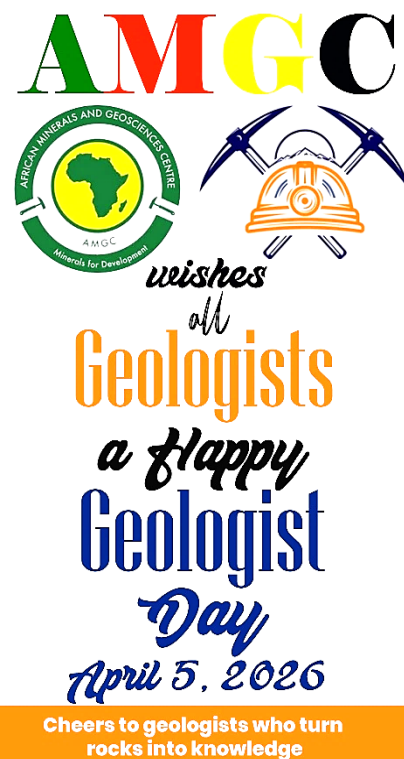
Yet despite these perceptions—and despite having grown up in comfort as a Khartoum boy, unfamiliar with hardship at home—I chose to persevere. I embraced a profession defined by adventure, endurance, and long stretches of remote fieldwork in the middle of nowhere. I pursued geology with dedication and passion, captivated by the beauty hidden within its challenges. Across the diverse landscapes of Sudan, I found satisfaction in the very hard work others dismissed. Looking back now, nostalgia draws me to those decades spent in the field—years filled with both hardship and joy. I traversed seasonal streams, hilly deserts, tropical forests, and rich savannas across the Sudan. Life in the deserts, especially during winter, was particularly memorable. The cold air would bite at our faces and seep into our limbs during early mornings and long nights, yet there was a quiet beauty in that stark environment.

Even the sparse vegetation held its own fascination. I came to know the trees, shrubs, and grasses that clung to life along hilltops and seasonal watercourses—*Salvadora persica*, camel’s hay, lavender, *Solenostemma argel*, drought-resistant grasses, and resilient acacia (talh) trees. There were also the Arad, Doum palm, desert date, sidr (nabk), and *Capparis decidua*, all thriving against the odds in arid lands.

Traveling across plains and dry valleys in four-wheel-drive vehicles, accompanied by the gentle breeze carrying the scent of wild herbs, was a unique pleasure. It was a hard life, but a deeply rewarding one. I drank water from wells and seasonal pools alongside camels, cattle, goats, and sheep. I witnessed wildlife in its raw form—vultures circling overhead, ostriches racing across the plains, and gazelles of many kinds: Dorcas, Addax, Cuvier’s, and others. There were also wild rabbits and birds such as cranes, bustards, and sandgrouse.

In the tropical forests of South Sudan, the environment shifted dramatically. There, I encountered elephants, predator tracks, and even the skeletal remains of baboons taken by leopards. Our field work often required security protection—a joint force from military intelligence, national security, and the Sudan People’s Liberation Movement—shielding us from the lingering dangers of conflict, including remnants of the Ugandan Lord’s Resistance Army, abandoned military trenches, and unexploded ordnance.

I remain deeply indebted to my late uncle, engineer and contractor Abdullah Shaddad, who raised me and taught me to shoot with a light Morris rifle. His guidance proved invaluable in the field



One of the most defining moments of my life occurred in the Blue Nile region. During a trip to inspect artisanal gold mining in Khur Yabus, I was delayed by hunting along the route and camped overnight in the wilderness. That same night, rebels attacked the nearby Abngero village, killing all the civil employees there. Unaware of the tragedy, I resumed my journey the next morning, only to learn of the massacre later. I immediately retreated—first to Ora village, then to Damazin, and eventually northward through Roseires and Al-Daim near the Ethiopian border. By what I can only describe as divine mercy, I was spared.

In those dense forests, I carried a German Walther pistol for protection, along with hunting rifles—a British double-barrel shotgun, a light Morris rifle, and a modified .30-06 long-range rifle gifted to me by General Duma of the Sudanese Customs Forces. This was in recognition of my work preparing a detailed 1:500,000 navigational map of northern and eastern Sudan to combat smuggling.

I was also accompanied by my loyal Saluki dog, Evas, trained for hunting and gifted to me by a Saudi prince for whom I once worked as a hunting guide in the Red Sea Hills. Among my treasured equipment were magnifying binoculars and a sleeping bag salvaged from a Russian Techno-Export project in the 1970s.

In those years, I delighted in observing falcons and fish-hunting birds, and in hunting gazelles and savanna game such as impalas, kudu, guinea fowl, and wild ducks. Evenings were often spent with fellow geologists gathered around a blazing campfire, sharing stories under a vast, star-filled sky before retiring to simple tents or sleeping out in the open.

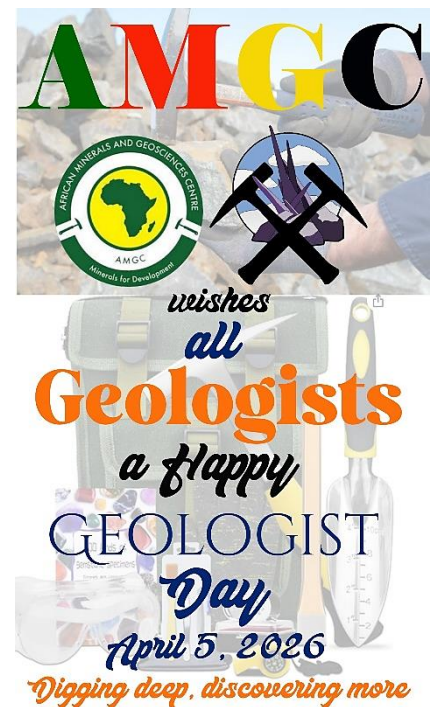
That life—marked by hardship, constant movement, and discovery—remains among the finest chapters of my existence. It was, in many ways, far richer than the comfort of office life in cities like Khartoum, Port Sudan, Damazin, or even Dar es Salaam, Tanzania.

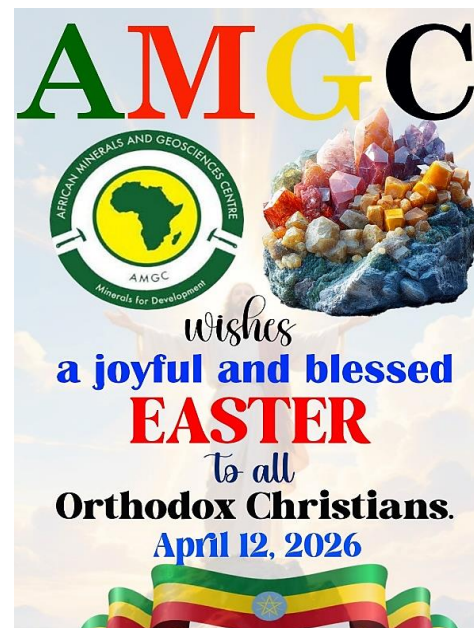
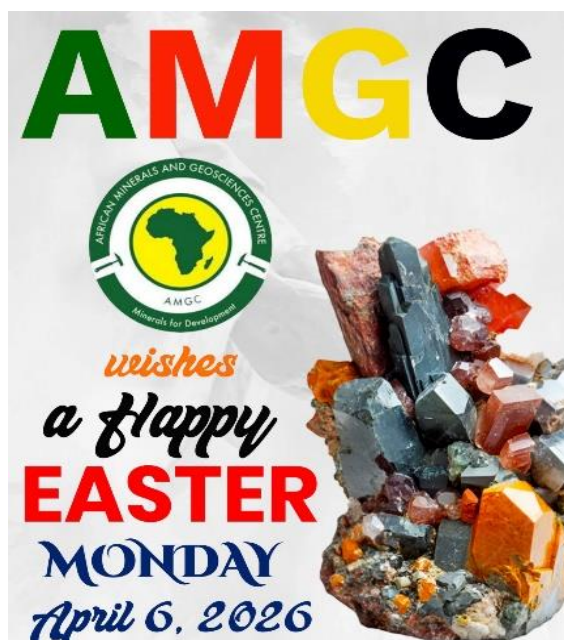
Fieldwork also brought us closer to the diverse communities of Sudan. We lived among nomadic tribes, learning their customs, languages, and ways of life. Many lived simply, tending their herds, their bodies adapted to the environment with minimal clothing or traditional methods of protection against insects.

Those were truly remarkable days. Through all the challenges, I believe that Allah, the Generous and Merciful, watched over us—protecting us as we carried out our work as geologists: adventurers, civil servants, and, in many ways, the salt of the earth.

While traditional forms of slavery may have ended, a different kind persists—the demanding, relentless nature of remote geological work. It calls those willing to leave behind comfort and urban life to labor in distant mountains, deserts, and forests.

Even in the face of danger—from armed groups, unexploded mines, and the unpredictability of nature—we endured, and in that endurance, we found purpose, meaning, and a life worth remembering.





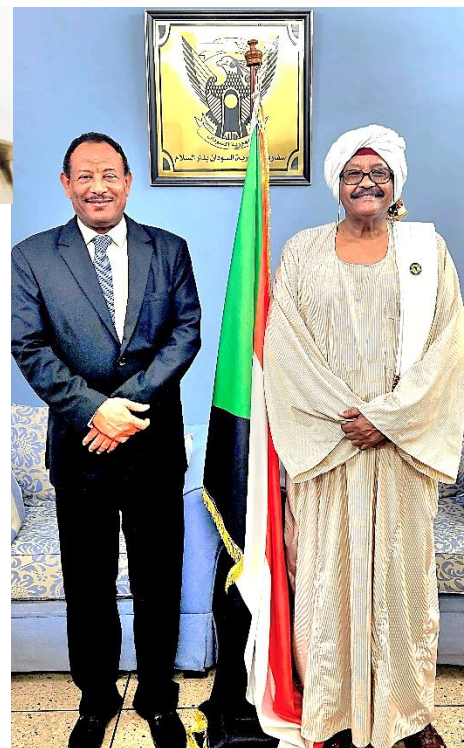


APPRECIATION & GRATITUDE

The African Minerals and Geosciences Centre (AMGC) would like to express its much appreciation and gratitude to the Sudan for being up to date in fulfilling its financial commitments to the Centre until 30 June 2026. Mr. Ibrahim Shaddad, the Director General of AMGC paid a courtesy visit to H.E. Ambassador of Sudan to Tanzania, Dr. Mohamed Abdalla Abdelhameed on 20 November 2025. Mr. Shaddad expressed much appreciation and gratitude for the arrangement, which 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. Dr. Mohamed Abdalla 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 joined 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 AMGC in overcoming repeated financial constrain that the Centre is facing. The Sudan is leading in timely fulfilling its annual subscription to the Centre. It is ranking the first member state of AMGC in utilizing the AMGC's paid capacity building services and in this regard, the Sudan contributes honorably in the 40% annual operational budget generated by the Centre. Since Mr. Ibrahim Shaddad, the current Director General of AMGC has been fully on board in July 2015, 530 paid training opportunities 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 trained in various practical on-job-training courses at the AMGC premises based in Dar es Salaam, Tanzania and one paid outreach-training course held at the premises of GRAS in Khartoum.





APPRECIATION & GRATITUDE

We have the honour to acknowledge with thanks and appreciation receipt of Angola's annual contribution to the African Minerals and Geosciences Centre (AMGC) for the Financial Year 1st July 2025/30th June 2026. The African Minerals and Geosciences Centre (AMGC) would like to express its much appreciation and gratitude to the Angola for being is among leading member states of AMGC, consistently and promptly fulfilling its financial obligations, contributing significantly by covering 60% of the Centre's annual operational budget, which is funded by member states.

Angola has been unreserved supporting the Centre in financial constrain that the Centre is facing. The outstanding commitments and obligations of the Government of Angola to the Centre enables it to implement its activities to its highest peak. The Centre is indebted to the continued support from Angola and look forward Angola to utilize and maximize its benefits from the mineral services provided by the Centre.

It is worth mentioning that Angola, one of the founding member states of AMGC, has been unreservedly supporting the Centre since joining the Centre on 23 May 1985. Angola shouldered more than once (in 2001 and 2009) hosting the Policy Organ Meetings of the Centre as well as chairing the Governing Council of the Centre. Out of the six Directors General managing the Centre since 1977, Angola elected to manage the Centre from 2002 to 2006 by H.E. Dr. Diamantino Pedro Azevedo, the current Minister for Mineral Resources, Oil and Gas in Angola. H.E. Dr. Diamantino is the current Vice Chairman of the AMGC Governing Council.

Angola was elected Chair of the Board of Directors (BOD) of AMGC from 2006 to 2014 by Dr. Luis Antonio, the then Advisor of the Minister of Geology and Mines of Angola and now Director of Exchange Office at the Ministry of Mineral Resources, Oil and Gas of Angola. Currently Dr. Luis is the representative of Angola in AMGC Standing Committee of Officials. Mr. Canga Xiaquivuila, the Director General of the Geological Institute of Angola is the representative of Angola in AMGC Board of Directors.



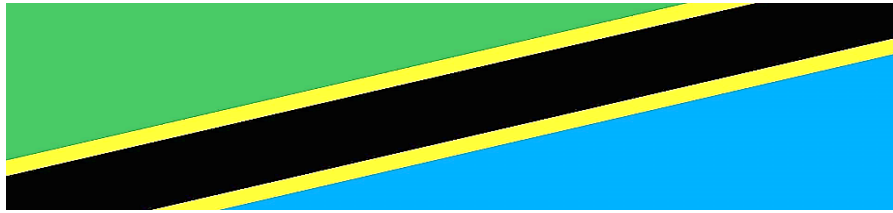
The African Minerals and Geosciences Centre (AMGC) would like to express its much appreciation and gratitude to Kenya for being up to date in fulfilling its financial commitments to the Centre until 30 June 2026. It is worth mentioning that Kenya joined the Centre in July 2006, becoming the 7th member state. Kenya has since chaired the AMGC Governing Council and hosted the Policy Organ Meetings three times in May 2011, June 2014, and May 2015. The upcoming meeting will also be hosted by Kenya, under the chair 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 sincere appreciation and gratitude to the United Republic of Tanzania, the host country of the Centre, for being up to date in fulfilling its financial commitments to the Centre for the current financial year 2025 –2026.

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.



CONGRATULATION

The African Minerals and Geosciences Centre (AMGC) has the honour to congratulate Eng. Ally B. Samaje on his appointment as Chief Executive Officer of the Geological Survey of Tanzania (GST) of the United Republic of Tanzania, the host country of AMGC.



AMGC is committed to supporting the mining sector and geosciences community in Africa through provision of consultancy, capacity building, laboratory analytical services utilizing high-tech equipment, and value addition of minerals for development to its Member States and other African countries.

AMGC has the honour of extending an open invitation to Eng. Ally to pay a formal familiarization visit to Centre to explore areas of cooperation and mutual benefits between AMGC and GST.



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, cups, 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 +255 758 934 934 or lucas@seamc.org

Website: www.seamc.org | Email: seamc@seamc.org | Tel: +255 222 850 347 | Mob: +255 767 345 793

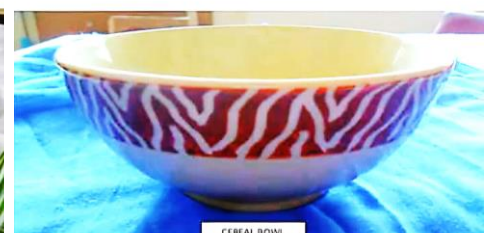
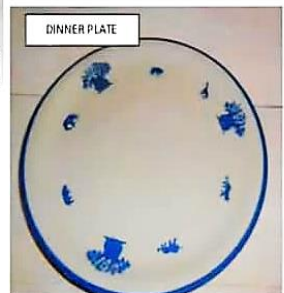
The Industrial Minerals Application Department of the African Minerals and Geoscience Centre (AMGC) based in Dar es Salaam, Tanzania produces ceramic as well as provides training in ceramic simple technology. The photos of some of our products are posting on our website. The quality of handmade items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

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. Customers should incur all costs for transport and related customs taxes.

1. Serving dish with cover [flower decorations]	30.00 USD
2. Serving dish with cover [Blue colors]	30.00 USD
3. Teacup/saucer	04.00 USD
4. Mugs	04.00 USD
5. Condiment bowl	03.00 USD

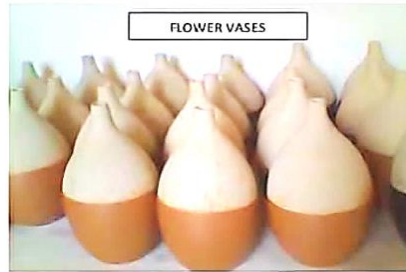




KUNDUCHI CERAMICS - AMGC



FLOWER VASE



FLOWER VASES



DINNER PLATE



CEREAL BOWL



ZEBRA TEA CUP



CEREAL BOWL



FLOWER VASE



COFFEE MUG



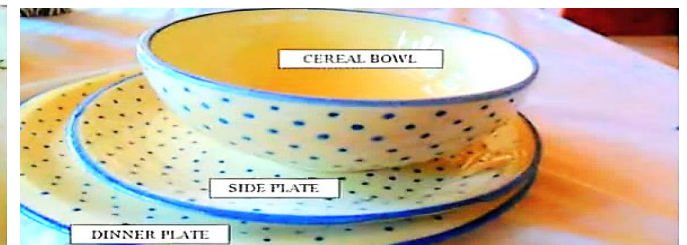
TEA POT



TWIGA TEA POT



LARGE FLOWER



CEREAL BOWL

SIDE PLATE

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

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 facilitating 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 organizing 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 Grad



1. Introduction to Oil and Gas Industry

DURATION: One Week

Course fee: US\$ 1,200

This course designed for a wide-ranging of petroleum industry personnel. It 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 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 Award, 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 year's worldwide experience in the petroleum industry and training. He has supervised

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.

AFRICAN MINERALS AND GEOSCIENCES CENTRE (AMGC)



GEO-INFORMATION DEPARTMENT SURPAC TRAINING COURSE DETAILS

CHAPTER ONE: COURSE INTRODUCTION

This course designed to provide geologists with a comprehensive understanding and practical skills in using GEOVIA Surpac, one of the leading 3D modeling and mine planning software tools in the mining industry. Tailored specifically for geological applications, the training focuses on the complete workflow from data import and validation, geological interpretation, wireframing, and block modeling to resource estimation and reporting. Whether you're new to Surpac or seeking to enhance your geological modeling capabilities, this course equips you with the tools and techniques needed to deliver accurate, efficient, and professional results in exploration and mining projects.

LEARNING OBJECTIVES

By the end of this course, participants will be able to:

- Navigate and use Surface's interface and key geological tools.
- Import, manage, and validate geological and survey data.
- Create and interpret lithological models and wireframes.
- Perform block modeling and resource estimation.
- Apply Geostatistical analysis for grade interpolation.
- Generate geological maps, sections, and reports.

LEARNING MATERIALS

- Geological data set (will be provided by trainer or user)
- Software



TARGETED GROUPS

- **Geologists and Geosciences professionals**
- **Mineral exploration Professionals**
- **Mining Companies**
- **Minerals Valuer & Academicians and Researchers.**

CHAPTER TWO: SCHEDULE AND TOPIC COVERED

This is a two weeks training with the ten working day as follows:

Day 1-2: Introduction and Data Management

1. **Introduction to GEOVIA Surpac and its role in geology**
2. **User Interface (UI) navigation and customizing workspace**
3. **Project setup and directory structures**
4. **Importing geological, topographic, and survey data (CSV, DAT, DXF)**
5. **Coordinate systems and datum setup**
6. **Creating and managing string files**
7. **Database creation and validation (drillhole database)**
8. **Exercise: Importing and viewing drillhole data**

Day 3-4: Drillhole Management and Geological Modeling

1. **Drillhole display setup (collars, survey, assay, geology)**
2. **Validating and correcting drillhole errors**
3. **Creating downhole plots and sections**
4. **Coding lithology and alteration from logs**
5. **Compositing assay data**
6. **Geological domaining (numeric and coded)**
7. **Exercise: Geological modeling and drillhole compositing**

Day 5-6: Surface and Solid Modeling

1. **Creating and editing digital terrain models (DTMs)**
2. **Manual digitizing of lithological contacts on sections**
3. **Interpreting cross-sections and string linking**
4. **Creating geological solids (wireframes) from strings**
5. **Validation and cleaning of solids**



6. Exercise: Build a geological model from drillhole data

Day 7-8: Block Modeling and Resource Estimation

1. Creating a block model framework
2. Defining block model attributes
3. Coding blocks using wireframes and lithology
4. Grade estimation methods: IDW, Nearest Neighbor, Kriging
5. Variogram modeling (intro)
6. Estimation runs and validation
7. Exercise: Build and populate a block model with grades

Day 9-10: Reporting, Visualization and Advanced Tools

1. Resource classification and reporting (JORC/SAMREC basics)
2. Section plotting and map generation
3. Volume calculations and resource summaries
4. Pit and surface intersections
5. Exporting data for reports
6. Introduction to macros and batch processing
7. Best practices and quality control in resource modeling
8. Final exercise: End-to-end mini project from data to model to report

For More Details, Contact

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LIST OF TRAINING COURSES

TRAINING COURSES	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
Corporate Social Responsibility (CSR)	2 Weeks	\$1,500

Chemical and Environmental Department (CED)		
Spectrometric Methods of Analysis	2 Weeks	\$800
Analytical Techniques for Gold Analysis Using Classical Methods	2 Weeks	\$1,200
Modern Laboratory Management Methods	2 Weeks	\$800
Data Validation, Qa/Qc Procedures and Error Detection	2 Weeks	\$1,500
Fundamentals of Geochemical Data and Laboratory Analytical Techniques	2 Weeks	\$1,500

Quality Management (QM)		
Laboratory Certification and Accreditation	2 Weeks	\$1,500
Quality Control and Quality Assurance in Laboratories	2 Weeks	\$1,500

Mineralogy, Petrology and Gemology Department (MPGD)		
Mineralogical Sample Preparation and Analytical Techniques	2 Weeks	\$1,000
Usage of Benchtop X-ray Diffraction (XRD) for Mineralogical Analysis	2 Weeks	\$1,200
Thin and Polished Section Sample Preparation Techniques	2 Weeks	\$1,000
Petrographic Analytical Techniques	2 Weeks	\$1,000
Gemstone Characterization and Identification Techniques	2 Week	\$800
Gemstone Identification Techniques	2 Week	\$800
Basic Gemmology Skills	2 Week	\$800
Ruby, Sapphire and Emerald Mode of Occurrences and Mining Methods	1 Week	\$400
Ruby, Sapphire and Emerald Identification Techniques	1 Week	\$400
Gemstone Value Addition Techniques	2 Weeks	\$800
Cabochon Cutting and Polishing Techniques	2 Weeks	\$800
Diamond Identification, Grading and Certification	2 Weeks	\$1,500
Advanced Gem Identification Techniques	2 Weeks	\$1,200
Minerals/Gemstones Assessment, Valuation and Certification	2 Weeks	\$1,000
Gemstone Formation, Mode of Occurrences and Mining Methods	2 Weeks	\$800
Gemstones Exploration Techniques	2 Weeks	\$1,500
Gem Safaris	2 Weeks	\$2,000
Basic Jewelry Design Techniques	4 Weeks	\$2,500



Industrial Minerals Application Department (IMAD)

Clay day Session 1	Half day	\$20
Clay day Session 2	Full day	\$40
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 and 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)

Interface and Solution Chemistry	2 Weeks	\$1,000
Simulation and Design of Mineral Processing Plants	2 Weeks	\$1,000
Two Phase Flow Theory in Higher Mineral Processing	2 Weeks	\$1,000
Coal and Graphite Processing Techniques	2 Weeks	\$1,000
Dewatering and Tailing Dam Management	2 Weeks	\$1,000
Mine Closure and Mine Areas Rehabilitation	2 Weeks	\$1,000
Sampling and Sample Preparation: Best Practices for Reliable Laboratory Analysis	2 Weeks	\$1,000
The Gold Cyanidation Process: Principles, Techniques, and Innovations	2 Weeks	\$1,000
Occupational Health and Safety in Mining Operations	2 Weeks	\$1,000
Artisanal and Small-Scale Mining: A Practical Approach	2 Weeks	\$800
Mineral Economics and Strategy	2 Weeks	\$1,000
Metallurgical Balances for Process Efficiency and Optimization	2 Weeks	\$1,000
From Ore to Metal: An Introduction to Extractive Metallurgy	2 Weeks	\$800
Environmental Management in Mining and Climate Action	2 Weeks	\$800
Development Minerals: Unlocking Potential for Sustainable Growth and Infrastructure	2 Weeks	\$1,000
Fundamentals of Mineral Processing: Principles, Techniques, and Modern Innovations	2 Weeks	\$1,000

Geo-Information Department (GID)

GIS and Remote Sensing for Mineral Exploration and Geological Mapping	2 Weeks	\$800
Geospatial Data Analysis and Remote Sensing	2 Weeks	\$1,000
Introduction to web programming for GIS applications	2 Weeks	\$1,000
GeoServer for Web GIS- Publish, Manage & Serve Spatial Data	2 Weeks	\$1,000
Best Practices in Mineral Resource Estimation	2 Week	\$800
Geodatabase Development for Web mapping	2 Weeks	\$800
GIS and Remote Sensing Application for Geohazards	2 Week	\$1,000
GIS and Remote Sensing Application for Mining Environmental Management	2 Week	\$1,000

Integrated Mineral Exploration Techniques	2 Weeks	\$1,000
GIS and Remote Sensing for Hydrological Applications	2 Week	\$1,000
Open-Source GIS & Remote Sensing for Mineral Exploration	2 Weeks	\$1,000
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
Geostatistics for GIS Professionals	1 Week	\$1,000
Sedimentology and Stratigraphy for Oil and Gas Exploration	2 Weeks	\$1,000
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
GEOVIA Surpac for Resource Estimation	2 Weeks	\$2,400
LEAPFROG Software for Resource Estimation	2 Weeks	\$2,400
MICROMINE Software for Resource Estimation	2 Weeks	\$2,400

Information Communication Technology Training List

Data Protection & Computer Security	2 Weeks	\$1,000
Network Managements Techniques for Mineral Exploration	2 Weeks	\$1,000
Database Managements Techniques for Mineral Exploration	2 Weeks	\$1,000
VMware Software for Network Security	2 Weeks	\$2,400

To apply contact:

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***Minerals for
Development***

Find us on the Web:

www.seamic.org



Petrology, Mineralogy & 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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