



AMGC News

Director General's Message



The Director General (DG) of AMGC accompanied by Quality Manager and Manager of Finance & Administration participated in the ICGLR-BGR Technical Workshop on Operational Planning for the new AFP Project Phase held during 31st January to 3rd February, 2023 in Bujumbura, Burundi. The DG paid a condolence visit to the Turkish Embassy in Dar es Salaam on 8th February 2023 following the devastating earthquake in Turkey. The DG paid a courtesy visit to H.E. Mr. Asm Mustafa, the Charge' d'affairs of the Sudan Embassy in Dar es Salaam, Tanzania on 10th February, 2023. The DG also participated in African Union Workshop on Harmonized Geological Information on Strategic Minerals in Africa which held in Accra, Ghana. The DG also on 28th February 2023 paid a courtesy visit to Dr. Degene Hailemariam, the Director General of Geological Survey of Ethiopia (GSE) as well as the Chairman of AMGC Board of Directors. The Centre received 16 children from Latham School for clay day workshop also the Centre received 4 undergraduate students taking Bachelor of Science in Chemistry from Mwenge Catholic University, Kilimanjaro, Tanzania for their 5-week practical training in Laboratory science. The Management of the Centre purchased three desktop computers HP latest version in enhancing the digital working infrastructure of the Centre and the Centre organized two training courses on Basic Gemology Skills and Mineralogy and Gemology Analytical Techniques for participants from Tanzania and Uganda.

Contents

ICGLR-BGR Technical Workshop	1
Condolences	2
Clay Day Workshop	3
Enhancement of Digital Working Infrastructure	3
University Students Practical Training	4
DG's Courtesy Visit to Charge' d'affairs of Sudan Embassy in Tanzania	5
Training on Basic Gemology Skills	6
Training on Mineralogy & Gemology Analytical Techniques	7
Workshop on Harmonized Geological Information on Strategic Minerals	7
DG's Visit to the Geological Survey of Ethiopia	8
Appreciation & Congratulation	9
New Courses	10
Event	11
New Trainings	12- 13
Training List	14 –15



ICGLR-BGR Technical Workshop on Operational Planning for the New AFP Project Phase



Mr. Ibrahim Shaddad, Director General of AMGC accompanied by Mr. Charles Buteta, the Quality Manager and Mr. Gwakisa Mwaitete Manager of Finance & Administration participated in the ICGLR-BGR Technical Workshop on Operational Planning for the new AFP Project Phase held during 31st January to 3rd February, 2023 in Bujumbura, Burundi.

CONDOLENCES



The African Minerals & Geosciences Centre (AMGC) like all other diplomatic institutions operating in Tanzania heard with deep sorrow the grieving news with great shock and sadness of the devastating earthquake in Turkey which have left a massive destruction of property and many people dead with many people trapped under the rubble. AMGC recognizes the hard time the Turkish nation is facing in this moment, and the management of the Centre conveys solidarity, the AMGC's encouragement and sincere sympathy to the Government and people of Turkey for the loss of citizens and property. Mr. Ibrahim Shaddad, the Director General of AMGC paid a condolence visit to the esteemed Turkish Embassy in Dar es Salaam on 8th February 2023. Mr. Shaddad expressed his sympathy and also signed a book of condolences expressing AMGC sympathy to Turkish Government, people and the families of their lost members for this untimely death and wishes an eternal peace to their souls.

Clay Day Workshop



On 07th February 2023, the African Minerals and Geoscience Centre (AMGC) received 16 children from Latham School for clay day workshop. The clay day workshop is a special short training program conducted under Industrial Minerals Application Department (IMAD) designed for women and men, children, schools and families for acquiring the basic know-how and skills in ceramics and pottery simple technology. IMAD also provides other various training courses for production of ceramics, pottery, researches and consultancy services for Industrial Minerals (Development Minerals).

Commencement of Enhancing Digital Working Infrastructure



In enhancing the digital working infrastructure at the African Minerals and Geosciences Centre, the Management of the Centre commenced by purchasing three desktop computers HP latest version to support daily activities of the Centre. This is a start of a restructuring program which could not be done before by Geo-Information Department of replacing all old desktops computers with the latest version

University Students Practical Training



African Minerals and Geosciences Centre (AMGC) received 4 undergraduate students taking Bachelor of Science in Chemistry from Mwenge Catholic University, Kilimanjaro, Tanzania for their 5-week practical training in Laboratory science. The students are;

- 1. Miss. Irene Isdory Mdemu - First year,**
- 2. Miss. Lisbert Charles Mugusi - First year,**
- 3. Mr. Ephraim Z. Ntakisivya - Third year**
- 4. Mr. Ally Amani Said - First year.**

Again, AMGC received Mr. Priva Mazula, a graduate from Ardhi University in Dar es Salaam, Tanzania for 9 months internship programme in hands-on laboratory science

DG's Courtesy Visit to Charge' d'affairs of Sudan Embassy in Tanzania



Mr. Ibrahim Shaddad, the Director General AMGC paid a courtesy visit to H.E. Mr. Asm Mustafa, the Charge' d'affairs of the Sudan Embassy in Dar es Salaam, Tanzania on 10th February, 2023. Mr. Shaddad briefed H.E. the Charge' d'affairs regarding current challenges facing the Centre and its performance from 2012 to 31 December 2022. Mr. Shaddad further highlighted important topics to be deliberated among member states in the coming soon Policy Organ Meetings, which will be hosted by Kenya as well as will be held in Nairobi, under the chair ship of H.E. Salim Mvurya, the Cabinet Secretary (CS) for Mining, Blue Economy and Maritime Affairs of Kenya in his capacity the current Chairman of AMGC Governing Council. The Government of Sudan is one of the leading member states of AMGC fulfilling their financial contributions to the Centre. Mr. Shaddad expressed much appreciation, 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. He further urges the esteemed Ministry of Minerals of the Sudan to utilize its right of 40% reduction of costs for all mineral services provided by the Centre which includes technical analysis and provision of training services. In this regard, the Centre reminds all the Sudanese government affiliated institutes such as the Geological Research Authority of the Sudan (GRAS), Ariab Mining Company (AMC), Sudanmin Company Ltd, Gold Refinery Co. Ltd and Sudanese Mineral Resources Company (SMRC) to utilize the Centre's services and benefit a discount of 40% being Performance Contract before end of the current financial year in 30 June 2023. It is worth mentioning that the Sudan has been unreserved supporting the Centre in overcoming repeated financial constrain that the Centre is facing. The Sudan is ranking the second after Tanzania the host country of AMGC in utilizing the AMGC's mineral services and in this regard the Sudan contributes honourably in the 40% annual operational budget to be generated by the Centre. The Sudan is leading also in 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 500 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. H.E. Mr. Asm Mustafa assured 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 also that the Sudan is the last member state to join the work force of AMGC in August 2010. The Sudan chaired the AMGC 33rd and 39th Governing Council Meetings hosted in Khartoum in 2013 and 2019 respectively.

Training on Basic Gemmology Skills



Certificate handout ceremony for Madam Naila Juma Mburu, the Laboratory Assistant at Mineralogy, Petrology & Gemmology department (MPGD). Madam Naila participated in a two weeks comprehensive paid training (23 January - 03 February 2023) on Basic Gemmology Skills. The participant expressed her keen interest to have a paid training and certificate to build capacity in her day today activities at the department, and the management approved a 20% reduction in the training cost to be deducted from her salary for the coming six months, as a special offer to staff interested in enjoying mineral services including training provided by the Centre. It is worth mentioning that Madam Naila have served the Centre indirectly by working as a house maid for two former director generals during 2003-2015 and consequently given the opportunity through an attachment to be trained in both Ceramic Section and MPGD so as to be an icon at the Centre for its efforts in Women-Youth Empowerment. Upon satisfactory result, assessment and written recommendations by the managers of the two departments, Madam Naila was employed as a laboratory assistant in the two departments. According to a written request and recommendation from the Senior Technician at Ceramic Section, Madam Naila had the opportunity to join the technical staff of the section in 2017 advance training course on Ceramic Production Techniques for Developing Countries held for 3 weeks in China. Recently Madam Naila has decided to improve her English fluency by participating in paid evening classes for six months at British School in Dar es Salaam, Tanzania

Training on Mineralogy & Gemology Analytical Techniques



On February 20, 2023, The African Minerals and Geosciences Centre (AMGC) received through the Mineralogy, Petrology and Gemmology Department, two Professional Geologists from the Directorate of Geological Survey and Mines (DGSM) in Uganda for a two-week training course on Mineralogy and Gemology Analytical Techniques. The Geologists are; Mrs. Molly Kibalama H. Bakka Male (Senior Geologist) and Mrs. Stella Nankinga (Geologist)

Workshop on Harmonized Geological Information on Strategic Minerals in Africa



AMGC Director General, Mr. Ibrahim Shaddad participated in African Union Workshop on Harmonized Geological Information on Strategic Minerals in Africa which held at Labadi Beach Hotel in Accra, Ghana during 21st- 23rd February 2023. Mr. Shaddad delivered a presentation entitled:-The Role of African Minerals & Geosciences Centre (AMGC) in Sustainable Minerals Development in Africa.

DG's Visit to the Geological Survey of Ethiopia



Mr. Ibrahim Shaddad, the Director General of the African Minerals & Geosciences Centre (AMGC) on 28th February 2023 met Dr. Degene Hailemariam, the Director General of Geological Survey of Ethiopia (GSE) as well he is the Chairman of AMGC Board of Directors. The meeting was attended by Mr. Sisay Shimelis, a senior International Consultant, who is also providing consulting services to the Ministry of Mines, Petroleum, and Natural Gas (MOMPNG). Mr. Shaddad briefed the two officials regarding challenges facing the Centre and a number of issues were discussed including holding the coming Policy Organ Meetings of AMGC, which will be hosted by Kenya, the current chair of AMGC Governing Council. Dr. Degene assured the sustainable support of Ethiopia to the Centre. AMGC sincerely recognises about the outstanding commitments and obligations of the Government of Ethiopia to the Centre that enabled it to implement its activities to its highest peak. Ethiopia is one of the main founders of the Centre when it was established 45 years ago in 1977. The financial contribution to the Centre was apportioned according to some criteria like the size, economy and other factors of the country.

Ethiopia and Tanzania were apportioned to contribute the highest and Ethiopia and Tanzania (the host of the Centre) each was paying an average about US\$130,000 per year starting from 1978/79. In 1998 the Centre was restructured, and members' contribution was set to be equal for all member states and the contribution was set US\$62,000 per year. Ethiopia was unreservedly supporting the Centre until 2018/19 and the total contributions made by Ethiopia was US\$ 2,819,209.87. AMGC looks forward for Ethiopia to continue supporting the Centre as well as to maximize its benefit and enjoy the 40% cost reduction from all mineral services provided by the Centre including training, analyses and consultancy. The Centre is ready to respond to any service requests in house as well as direct cost sharing outreach capacity building service for Ethiopia. AMGC is ready to provide whatever Ethiopia needs in mineral services particularly outreach cost sharing on job specialized trainings to be conducted at GSE's premises in Addis Ababa. The Centre is willing to cooperate with GSE to provide assistantship in establishment of Ethiopia National Centre of Excellence for Extractive Industry including Regional Gems and Gold Exchange Park. A Memorandum of Understanding (MoU) is proposed between the Centre and Ethiopian Public-Private Partnership for mutual beneficiation and sharing best practices in Africa. Out of the six Director Generals managing the Centre since 1977, Ethiopia was elected twice to manage the Centre, the first Director General was Mr. Mahadi Shumburo from Ethiopia, who served for nine years during 1978-1986 and the fifth Director General was Mr. Ketema Tadesse who served for nine years during 2006-2015. Due to Ethiopia's significant contribution to the running of the Centre, shouldered more than three times hosting Policy Organ Meetings of the Centre as well as ten times the responsibility of chairing the Governing Council. Ethiopia was elected Chair of the Board of Directors of the Centre from 1997 to 2006 chaired by Mr. Ketema Tadessa, former Director General of the GSE. In 2006 an Ethiopian Director General, Mr. Ketema Tadesse, was appointed and the Chairperson post was transferred to another member state (Angola). When the term of Mr. Ketema ended in 2015, Ethiopia resumed back its Chairperson position for the Board of Directors and is serving with this post up to now. From 2015 to 2019 the Board of Directors chaired by Mr. Masresha Gebreselassie, former Director General of the GSE and from 2019 to Jan 2022 by Ms Enatfenta Melkau Gebre, former Director General of the GSE and then from Jan 2022 up to now by Dr. Dejene Hailemariam, current Director General of the GSE. One of the departmental managers at AMGC was Mr. Mesfin Wubeshet, of the Geo-information services, whom had been employed as the only International Professional staff for the last twenty five (25) years. Unfortunately there were no technical activities or/and joint mineral exploration programs, related to geoscience data processing with member states including Ethiopia by the Geo-information Department managed by the Ethiopian Mr. Mesfin Wubeshet. Such important technical activities are the Geo-Information Department's main objective of its establishment to pull mineral resources of the member states including Ethiopia. It is worth mentioning that the Centre's current premises in Dar es Salaam, Tanzania was constructed in 1990/91 and both the consulting architect and the contractor who built the buildings were Ethiopian companies, Getachew Bekele Architect and Berta Construction Company, respectively

APPRECIATION



The Management of the African Minerals and Geosciences Centre (AMGC) wish to take this opportunity to thank Mr. Adolf H. Ndunguru for the leadership during his tenure as Permanent Secretary of the Ministry of Minerals of Tanzania. AMGC recognises his able guidance which enabled the Centre to implement its activities successfully. Looking forward to continued working relationship with him as well as seeking his advice especially on mining issue.

CONGRATULATIONS



The Management of the African Minerals and Geosciences Centre (AMGC) has the honour to congratulate Mr. Kheri A. Mahimbali for being appointed Permanent Secretary for the Ministry of Minerals of Tanzania. Mr. Kheri will represent Tanzania in the AMGC Standing Committee for Officials (SCO), comprising of Permanent Secretaries and/or Commissioners for Minerals/Mining. The SCO, Chaired by UNECA and it is second level of higher

authority after the Governing Council and before the Board of Directors in AMGC Policy Organs. It is worth mentioning that, Tanzania, the host country of AMGC has been a chair and hostage of policy organ meetings of the Centre for more than twenty-three times since its inception. Tanzania, being one of the founding member state and host country of AMGC, has been unreservedly supporting the Centre since its establishment in 1977. AMGC sincerely recognising about the outstanding commitments and obligations of the Government of Tanzania to the Centre that enabled it to implement its activities to its highest peak, looks forward for Tanzania to maximise its benefits from the Centre regarding mineral services provided including training.



AMGC

New Courses

The Mineralogy, Petrology and Gemmology Department is happy to announce the following new training courses

1

Gemstone/Mineral Estimation and Valuation

2

Jewellery Design

3

Gemstone Exploration & Gem Safari's

www.seamic.org

More Info

matokeo@seamic.org

EVENT



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ABOUT CAG:

The Colloquium of African Geology (CAG) is a major biennial meeting organized under the auspices of the Geological Society of Africa (GSAF), where earth scientists globally have the opportunities to present their research results on topics related to African geology and surrounding areas.

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NEW Training Courses

African Minerals and Geosciences Centre (AMGC) is pleased to announce the introduction of four new courses Geostatistics, Petroleum Sciences and Resource Estimation in collaboration with Khartoum based Consulting firm called **Knowledge and Training Centre (KTC)**. The course shall be facilitated by the Director of KTC, Dr. M. Zayed Awad, an eminent specialist in the areas of Geostatistics, resource evaluation, stratigraphy, reporting, training and mentoring, risk and decision analysis, petroleum economics, project management. The training course will be organized in Dar es Salaam at the AMGC training facilities. The following training courses are going to be offered through this collaboration.

1. Fundamental of Petroleum Economics

Duration: One Week

Course fee: US\$ 1,200

This course introduces the participants to requirements for conducting petroleum economics; different stages of the petroleum industry life cycle involving upstream, mid-stream and downstream sectors will be explained. Participants will learn how to construct a Cash Flow Model for oil and gas investment decision. They will also learn how to deal with the different financial components of petroleum cost, and classification of costs into OPEX and CAPEX. Net Cash Flow Stream analysis and computation of economic indicators (Yardsticks) such as NPV, IRR, PBP, MCE and DPI, and their interpretations are essential for petroleum investment decision-making. Cash Flow Adjustment using discount rates is also considered. Types of fiscal regimes will be explained, participant will also learn how to incorporate the fiscal parameters into a cash flow stream.

2. Geostatistical Mineral Resource Estimation

Duration: One Week

Course fee: US\$ 1,700

The course will focus on the fundamentals of Geostatistical application in mining that are required for domain specification that are required for mineral resource estimation and will include hands-on training with Geostatistical software. Geostatistical conditional Simulations may be used to assess the uncertainty associated with the Reserves Evaluation at exploration,

feasibility, and production stages. The simulations provide a range of potential reserves for the ore body's Tonnage, Metal Quantity and Recovered Grade.

3. Introduction to Oil and Gas Industry

DURATION: One Week

Course fee: US\$ 1,200

This course is designed for a wide-ranging of petroleum industry personnel. It is designed to provide green-hands technical, and a 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

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 Department		
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		
Spectrometric Methods of Analysis.	2 Weeks	\$800
Analysis of Gold and Other Base Metals	2 Weeks	\$800
Quality Management Section		
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		
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		
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		
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	2 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	2 Week	\$800
Geo-information Department		
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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GEOCHEMICAL AND ENVIRONMENTAL SERVICES

The Geochemical and Environmental Department of AMGC carries chemical analysis of geological materials (rocks, minerals, soil, sediment and concentrate) so as to demarcate areas with economic mineral potential. It also offers useful analytical data on metals, water, soils, minerals, fish, sewage for use by metallurgists, environmentalists, agriculturalists, road construction engineers and water engineers. The section provides training and consultancy services to clients from member states and other countries.



Chemist at work in AAS laboratory

Chief chemist at work in ICP - OES laboratory

TRAINING SERVICES

Training on relevant aspects of specialized chemical analysis of geological and environmental materials by short courses or attachment and tailor-made basis are also organized by the Department. The training courses include:

- ✓ Spectrometric Methods
- ✓ Analysis of Gold and Other Precious Metals
- ✓ Modern Laboratory Management Methods
- ✓ Environmental Technologies
- ✓ Field Sampling Techniques for Chemical Analyses
- ✓ Laboratory Sample Preparation Techniques for Chemical Analyses



Chemist testing loss on ignition

Chemist preparing petroleum samples for ICP - OES testing

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