

Code	Topic	Name	Duration	Date	Standard Fee (\$)	Student Rate (\$)	Additional information	Expected Outcomes	Participants	Email
W06	Fundamental Concepts of GIS and practical applications.	Kamaldeen Olakunle Leif Omosanya	7 hours	20th September, 2025 (0800 - 1500hrs)	110	80	ONLINE	<p>Session 1: Introduction to Geospatial Data & QGIS Basics Exercise: Install QGIS, explore the interface, and load a sample shapefile (e.g., administrative boundaries).</p> <p>Session 2: Data Import & Vector Data Processing in QGIS Exercise: Load a road network shapefile and create a 500m buffer around major roads.</p> <p>Session 3: Raster Data Handling in QGIS Exercise: Load a Digital Elevation Model (DEM) and generate slope and hillshade maps.</p> <p>Session 4: Spatial Analysis with QGIS Exercise: Overlay two land cover datasets and analyze land-use change over time.</p> <p>Session 5: Georeferencing & Digitization Exercise: Georeference a historical map and digitize at least five roads or rivers.</p>	15-30	kamaldeen@diggeonaija.org
W10	Building a Geoscience African Expert Network: A Collaborative Workshop	Julie Hollis	6 hours	21st September, 2025 (0800-1300 hrs)	0	0		<p>This workshop will contribute to the design of thematic Geoscience African Expert Networks, formalised under the Organisation of African Geological Surveys and implemented through the 2025–2029 PanAfGeo+ programme.</p> <p>Format: Keynote presentations followed by interactive breakout discussions</p> <p>Content: The keynotes and breakouts will focus on needs and wishes of the African geoscience community for a formalised geoscience African Expert Network, within the Technical Committee of the OAGS including from perspectives of youth, gender, academia, geological surveys, industry, and policy formulation. The workshop will target input on priorities, synergies, risks, opportunities, and engagement strategies relevant to using geoscience Expert Networks to tackle African challenges.</p> <p>Objectives: Gather insights from African researchers, academia, industry, and government agencies to ensure the envisaged network effectively supports the further strengthening of African-owned</p>	40-60	julie.hollis@eurogeosurveys.org
W08	Innovative Approaches to Geoscience Education, Science Communication, and Outreach in Africa	Enas Ahmed, Jean Mwez	4 hours	21st September, 2025 (0800-1300)	80	50	ONLINE	<p>This course aims to support those with teaching responsibilities in Higher Education to embed the principles of 'education for sustainable development' into their modules and programmes. Implementation of the UN Sustainable Development Goals (SDGs) requires active engagement by geoscientists and educators have a key role to play in supporting the geoscience profession to have the skills and understanding to engage effectively and ethically in this work. This course will cover key background information, explore practical tips and tools, and provide a space for participants to share their experiences of 'education for sustainable development'.</p> <p>1. Understand and discuss the term 'education for sustainable development' and the themes of environmental stewardship, social responsibility and economic efficiency that it encompasses.</p> <p>2. Recognise the drivers and benefits of integrating education for sustainable development into their curricula.</p> <p>3. Reflect on current practices, identifying examples of where Education for Sustainable Development could be included.</p>		enas.ahmed1@yahoo.com
W03	Reporting of Mineral Resources Using International Reporting Codes (PARC & JORC)	Deng Ngang Deng	4 hours	22nd September, 2025 (0800-1300hrs)	200	75		<p>mineral resource and reserve reporting under internationally recognized standards, including the Pan African Resource Reporting Code (PARC) and the JORC Code. Participants will gain insights into the principles of transparency, materiality, and competence in public reporting, with a focus on classification, estimation, and disclosure requirements. The course covers best practices for preparing compliant technical reports, the role of Competent Persons, and the</p>		deng.ngang@targetmining.com.au

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W15	Education for Sustainable Development in Geoscience Contexts – Tips and Tools	Joel Gill, Ahmed Sidi Aliyu	3hr-6hr	22nd September, 2025 (0800-1300hrs)	25	10	Sponsored entry for early registrants	<p>This course aims to support those with teaching responsibilities in Higher Education to embed the principles of 'education for sustainable development' into their modules and programmes. Implementation of the UN Sustainable Development Goals (SDGs) requires active engagement by geoscientists and educators have a key role to play in supporting the geoscience profession to have the skills and understanding to engage effectively and ethically in this work. This course will cover key background information, explore practical tips and tools, and provide a space for participants to share their experiences of 'education for sustainable development'.</p> <p>Through this short course, participants should have improved capacity to:</p> <ol style="list-style-type: none"> 1. Understand and discuss the term 'education for sustainable development' and the themes of environmental stewardship, social responsibility and economic efficiency that it encompasses. 2. Recognise the drivers and benefits of integrating education for sustainable development into their curricula. 	10-20	joel@gfgd.org
W20	Geothermal exploration and monitoring with remote sensing and geophysics	Christoph Hecker, Junior Kimata, KenGen, Mark van der Meijde	6 hours	22nd September, 2025 (1000-1700hrs)	60	60		<p>This workshop will introduce the theory and data used in applying geophysics and geological remote sensing techniques to geothermal exploration and monitoring. Participants will work with multiple datasets from different sensors to develop a practical understanding of these methods.</p> <p>It is an ideal opportunity to gain hands-on knowledge of geophysical and remote sensing techniques in the context of geothermal energy, and to engage with leading experts in the field.</p>		c.a.hecker@utwente.nl ; jkimata@kengen.co.ke ; m.vandermeijde@utwente.nl
W02	Fundamentals of Geochemical Analysis in ioGAS for Mineral Exploration and Geological Surveys	Deng Ngang Deng	4 hours	22nd September, 2025 (1400-1800hrs)	150	50		<p>This short course introduces geoscientists and geoscience students to the core principles of geochemical data analysis using ioGAS software. Participants will learn essential techniques for data import, quality control, statistical analysis, and visualization to support mineral exploration and geological surveys. The course covers key workflows, including geochemical classification, anomaly detection, with practical exercises using real-world datasets. By the end of the course, attendees will be equipped with the fundamental skills to effectively process geochemical data for exploration and mapping projects.</p> <p>Target Audience: Exploration geologists, geochemists, researchers, and geoscience students.</p> <p>Mode of learning: face-to-face, online</p> <p>Prerequisites: Basic understanding of geochemical data and mineral exploration concepts</p>		deng.ngang@targetmining.com.au
W14	Research for Local to Global Impact: Advancing Sustainability through Science and Partnerships	Joel Gill	6 hours	22nd September, 2025 (1400-1600hrs)	25	10	Sponsored entry for early registrants	<p>This course aims to support those with teaching responsibilities in Higher Education to embed the principles of 'education for sustainable development' into their modules and programmes. Implementation of the UN Sustainable Development Goals (SDGs) requires active engagement by geoscientists and educators have a key role to play in supporting the geoscience profession to have the skills and understanding to engage effectively and ethically in this work. This course will cover key background information, explore practical tips and tools, and provide a space for participants to share their experiences of 'education for sustainable development'.</p> <p>Through this short course, participants should have improved capacity to:</p> <ol style="list-style-type: none"> 1. Understand and discuss the term 'education for sustainable development' and the themes of environmental stewardship, social responsibility and economic efficiency that it encompasses. 2. Recognise the drivers and benefits of integrating education for sustainable development into their curricula. 	10-30	gillj11@cardiff.ac.uk
W19	Geoheritage and Geoparks UNESCO Workshop	UNESCO	4hrs	25th September, 2025 (1400-1700hrs)	TBD	TBD	UNESCO team to communicate	Participants will be appraised of the fundamentals of geoheritage inventory, geodiversity characterization, and the essential requirements for geopark development with a specific emphasis on the African socio-economic context.	20-25	

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W18	Scientific Drilling: Perspectives on Developing and Implementing Deep Drilling Projects to Advance Scientific Frontiers	By Anders Noren, Kat Cantner	6 hours	27th September 2025 (0800-1300hrs)	TBD	TBD	To confirm cost	<p>The workshop objective is to introduce participants to the topic of scientific projects requiring deep drilling at continental localities (continental scientific drilling, or CSD). The workshop will provide a framework for developing, funding, and implementing scientific projects that require drilling to produce samples for analysis or subsurface access for measurements or monitoring. The workshop will offer presentations and opportunities for discussion to orient participants to priority scientific themes and establish clear pathways for project ideas in conceptual development. Examples of past scientific drilling projects in Africa will offer perspectives on planning for future projects. After completing this workshop, participants will be able to leverage community resources to organize and support the planning and implementation of new projects. Discussion topics include:</p> <p>Developing Projects: Priority Scientific Themes Funding Pathways Building a Team Technical and Logistical Planning</p>		cantn001@umn.edu
W04	Improving agency for African geoscientists through the DDE Platform and GeoGPT	Michael Stephenson	1 day	27th September 2025 (0800-1700hrs)	60	60		<p>By the end of the workshop participants will have a strong grasp of:</p> <ol style="list-style-type: none"> 1. Advantages and opportunities for Africa in the field of AI, machine learning and data platforms 2. The functions and abilities of GeoGPT, the world's first and most comprehensive geoscience, free, open-access, AI platform for geoscientists, including hands-on training in the platform, African use cases, and potential uses. 3. The functions and abilities of the free, open access, Deep-time Digital Earth (DDE) Platform – with 60000 users one of the world's most comprehensive and sophisticated online data and modelling platforms in geoscience, including hands-on training, African use cases and potential uses 4. How to get involved and collaborate with GeoGPT and DDE. <p>Participants are advised to bring their laptops!</p>		mikepalyno@mc.com
W17	The Gemstone Odyssey: Unveiling Kenya's Treasures Through Science, Art, and Trade	Rosemary Muchangi, Solomon Gona, Flora Wawuda	1/ half- day	27th September, 2025	TBD	TBD	To confirm date, time, and cost	<p>Introduction</p> <p>Dive into Kenya's vibrant gemstone industry with this immersive gemmology workshop, expertly led by GEMFUND geologists and lead gemmology trainers. Explore iconic gemstones like sapphires, rubies, garnets, Tsavorite, Tanzanite, and tourmalines while gaining insights into their geological, gemmological, and commercial importance. The program emphasizes practical learning, with tools like loupes, tweezers, dichroscopes, and polariscopes introduced for hands-on gemstone identification and analysis. Participants will also master grading gemstones using the "Four Cs": color, clarity, cut, and carat weight.</p> <p>Workshop Objectives</p> <p>The workshop introduces gemology fundamentals, Kenya's gemstone industry, and practical skills in grading, cutting, and evaluation. It emphasizes traceability, sustainability, and market navigation—inspiring passion while equipping participants with essential expertise for the gemstone sector.</p> <p>Audience and Duration</p>		rowira@outlook.com

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W01	Advanced Geochemical Analysis in ioGAS for Mineral Exploration and Geological Surveys	Deng Ngang Deng	6 hours	27th September, 2025 (0800-1300 hrs)	250	50		<p>This short course provides geoscientists and geoscience students with advanced skills in geochemical data processing, interpretation, and visualization using ioGAS software. Participants will learn how to apply multivariate statistical techniques, alteration mapping and index calculations, anomaly detection methods, and machine learning tools to enhance mineral exploration and geological surveys.</p> <p>The course covers workflow optimization, geochemical discrimination diagrams, and integration with GIS for spatial analysis. Through hands-on exercises with real-world datasets, attendees will develop expertise in extracting meaningful insights from geochemical data, improving exploration efficiency and geological mapping accuracy.</p>		deng.ngang@targetmining.com.au
W05	Future Skills in the Evolving Professional Market	Peter Young, Deng Ngang Deng	2 hours	27th September, 2025 (1400-1800hrs)	180	85		<p>This course explores the universal skills essential for adapting to the evolving job market, focusing on creative thinking, problem-solving, digital literacy, and adaptability. Participants will gain insights into the impact of AI on industries, including mining and geoscience, where mechanization and automation are reducing labor demands. The course provides strategies for career resilience, continuous learning, and leveraging emerging opportunities in the future workforce.</p> <p>Target Audience: Professionals, students, job seekers, industry leaders, and policymakers looking to understand and prepare for the future employment landscape.</p> <p>Prerequisites: Open to all individuals interested in future-proofing their careers and staying relevant in a technology-driven world.</p>	15-50	peter.young@harripetexpressions.com

DATE	TIME	ROOMS			
		ROOM 1	ROOM 2	ROOM 3	ROOM 4
PRE-CONFERENCE					
20th September 2025	(08.00-13.00)	W06 - Fundamental concepts of GIS and practical applications.			
	(14.00-18.00)	(By Dr Kamaldeen Olakunle Leif Omosanya - DigGeoNaija, Lagos Nigeria). 7hrs			
21st September 2025	(08.00-13.00)	W08- Innovative Approaches to Geoscience Education, Science Communication, and Outreach in Africa (By Enas Ahmed - Matrouh University) 4hrs	W10 Building a Geoscience African Expert Network: A Collaborative Workshop (By Julie Hollis - EuroGeoSurveys) 6hrs		
	(14.00-18.00)				
22nd September 2025	(08.00-13.00)	W03-Reporting of Mineral Resources Using International Reporting Codes (PARC & JORC) (By Deng Ngang Deng - Target Mining Resources) 4hrs.	W20 Geothermal exploration and monitoring with remote sensing and geophysics from By Christoph Hecker, Junior Kimata, KenGen, Mark van der Meijde 10 am to 5 pm (6hrs)	W15 Education for Sustainable Development in Geoscience Contexts – Tips and Tools (by Joel Gill, Ahmed Sidi Aliyu-Geology for Global Development) 3-6hrs	
	(14.00-18.00)	W02-Fundamentals of Geochemical Analysis in ioGAS for Mineral Exploration and Geological Surveys (By Deng Ngang Deng - Target Mining Resources) 4hrs.		W14- Research for Local to Global Impact: Advancing Sustainability through Science and Partnerships (By Joel Gill - Cardiff University) 6hrs	
IN-CONFERENCE					
25th September 2025	(14:00-18:00)	UNESCO Geoheritage Workshop			
POOST-CONFERENCE					
27th September 2025	(08.00-13.00)	W01- Advanced Geochemical Analysis in ioGAS for Mineral Exploration and Geological Surveys (By Deng Ngang Deng - Target Mining Resources). 6hrs.	W17 - The Gemstone Odyssey: Unveiling Kenya's Treasures Through Science, Art, and Trade (By Geologist Rosemary Muchangi, Geologist Solomon Gona, Geologist Flora Wawuda – GEMFUND) 1 days	W18- Scientific Drilling: Perspectives on Developing and Implementing Deep Drilling Projects to Advance Scientific Frontiers (By Anders Noren, Kat Cantner) 6hrs	W04 Improving agency for African geoscientists through the DDE Platform and GeoGPT (By Michael Stephenson- Deep-Time Digital Earth) 1 day
	(14.00-18.00)	W05- Future Skills in the Evolving Professional Market (By Peter Young, Deng Ngang Deng - Target Mining Resources) 2hrs			