



# 4<sup>TH</sup> AFRICAN REGIONAL IAEG CONFERENCE

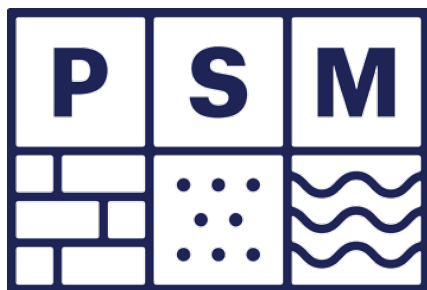


6 - 10  
SEP 2025

WINDHOEK,  
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## PROVISIONAL PROGRAMME \*

### SATURDAY 6 SEPTEMBER 2025

08:30 – 17:00

IAEG Executive Committee Meeting

### SUNDAY 7 SEPTEMBER 2025

08:30 – 17:00

IAEG Council Meeting

16:00 – 18:00

Registration – Registration Desk, Conference Foyer Area

### MONDAY 8 SEPTEMBER 2025

07:30 – 17:00

Registration - Registration Desk, Conference Foyer Area  
Exhibition – Oryx 1

08:30 – 12:30

- Workshops (*pre-registration required*)
- Committee Meetings
- WEG/YEG Committee Sessions

\* Kindly note that the programme is subject to change.

12:30 – 13:30	Lunch Break – Hotel Restaurant	
MONDAY 8 SEPTEMBER 2025		
CONFERENCE OFFICIAL OPENING – ORYX 2 & 3		
13:30 – 15:00	Session 1	Welcome – Ms Lindi Richer (Conference Committee Chair)
		Welcome – Prof Vassilis P. Marinos (IAEG President)
		Welcome – Gold Sponsor, PSM
		Welcome - Representative from the City of Windhoek
		Keynote Lecture: Geology and Engineering/Hydrogeology of Windhoek ( <i>Mr Israel Hasheela</i> )
15:00 – 15:30	Tea/Coffee Break – Exhibition and Foyer Area	
15:30 – 16:30	Session 2	Keynote Lecture: The Importance of Engineering Geology in a Changing World ( <i>Prof Vassilis Marinos</i> )
		IAEG: Regional Group Initiative ( <i>Prof Vassilis Marinos</i> )
17:00 – 19:30	Welcome Function – Oryx 1: Exhibition Area <i>Dinner at Leisure</i>	
TUESDAY 9 SEPTEMBER 2025		
07:30 – 17:00	Registration - Registration Desk, Conference Foyer Area Exhibition – Oryx 1	
08:30 – 10:00	Session 3	Oryx 2 & 3
		Keynote Lecture: Critical role of Engineering Geology in open pit slope design ( <i>Mr Mark Eggers</i> )
		Keynote Lecture: The internal erosion and piping mechanisms in earth dams and landslide dams ( <i>Dr Chukwueloka Okeke</i> )
10:00 – 10:30	Tea/Coffee Break – Exhibition and Foyer Area	

10:30 – 12:10	Session 4	<b>Oryx 2 – Parallel Session 4A</b> <b>Mining: Open Pit Slopes</b> Session Chair:	<b>Oryx 3 – Parallel Session 4B</b> <b>Engineering Geology: Materials &amp; Foundations</b> Session Chair:
		<b>Dr Mkpuma Rock Onwe (Alex Ekwueme Federal University, Nigeria)</b> - Geo-environmental hazards implication of mineral resource exploration and exploitation associated with Climate Change: Case study of Southeastern Nigeria	<b>Dr Duan Swart (PeraGage, South Africa)</b> - From completely weathered rock to residual soil: structural prominence as a parameter for mechanical and chemical evaluation of a weathered bedrock profile
		<b>Dr Egerton Hingston (University of KwaZulu-Natal, South Africa)</b> - Assessment of the quality of roof and floor rock material for the proposed underground mine at Chelmsford Colliery, South Africa	<b>Ms Salome Waziri (Federal University of Technology, Nigeria)</b> - Variation of groundwater depth and cation concentrations with CBRs of residual soils from three lithologic terrains in North-central Nigeria
		<b>Ms Lerisha Gounder (SRK Consulting, South Africa)</b> - Evaluation of 2D and 3D rock fabric in cumulated lithologies of the western Bushveld Complex: Implications for understanding rock strength in underground mining	<b>Mrs Katlego Moroeng (PeraGage, South Africa)</b> - Reinterpreting red soils at casino cut: A case for Berea Sands in Engineering Geological Modelling
		<b>Mr Norwel Mwananawa (Ministry of Mines and Energy, Namibia)</b> - Risk Assessment of Abandoned Mines in Namibia	<b>Miss Relebogile Tsoletsane (Jones and Wagener, South Africa)</b> - The Importance of Engineering Geology with respect to the Occurrence of Landslides
		<b>Mr Danny Djukem (Chengdu University of Technology, China)</b> - Integrating geo-environmental and soil geomechanical factors for landslide Risk assessment in Mount Oku, Cameroon (Central Africa)	<b>Prof Jia-Jyun Dong (National Central University, Taiwan)</b> - A new transformation function for VS30 Mapping in the Taipei Basin
12:10 – 12:40	<b>Poster Session – Exhibition Area (Oryx 1)</b> <ol style="list-style-type: none"> <li><b>Dr Nobusuke Hasegawa (OYO corporation, Japan)</b> - Issues in Efforts to Rebuild Sustainable Hometowns revealed by the 2024 Noto Peninsula Earthquake - Report of the Noto Peninsula Earthquake Disaster Investigation Team, the Japan Society of Engineering Geology (JSEG)</li> <li><b>Mr Silas David (YES Network, Namibia)</b> - The prediction of Uranium occurrence using GIS based Geostatistical Algorithms in Erongo Region</li> <li><b>Mr Peter Bassey (University of Benin, Nigeria)</b> - Field Relations and Megascopic Evaluation of the Kabba Basement Rock Complex of Kogi State, Nigeria</li> </ol>		
12:40 – 13:30	<b>Lunch Break – Exhibition Area and Foyer</b>		

13:30 – 15:10	Session 5	<b>Oryx 2 – Parallel Session 5A Slopes: Rock/Soil/Monitoring</b> Session Chair:	<b>Oryx 2 – Parallel Session 5B Waste disposal/Hydrogeology/Pollution</b> Session Chair:
		<b>Mr Mark Eggers (PSM, Australia)</b> - Engineering geological characterisation of breccias and geotechnical models for open pit slope design in kimberlites	<b>Mr Babatunde Okediji (University of Johannesburg, South Africa)</b> - Assessment of contamination potential around Mpape dumpsite, Abuja, Central Nigeria using integrated Geophysical and Geochemical techniques
		<b>Dr Norbert Baczynski (Prime Geotechnics, Australia)</b> - Step-Path Method impact on safety factor in rock slope design	<b>Mr Oliver Barker (Banzi Geotechnics, South Africa)</b> - Towards a model for the permanent eradication of mine related asbestos pollution in South Africa
		<b>Mrs Nkoya Asueiza (Afe Babalola University Ado-Ekiti, Nigeria)</b> - Climate Variability and Rockfall Hazards in Southwestern Nigeria: Insights from the 2019 Ado Ekiti Event	<b>Prof Moshood Tijani (University of Ibadan, Nigeria)</b> - Experimental Studies of Impacts of Seawater Interactions on Cement Concretes
		<b>Dr Egerton Hingston (University of KwaZulu-Natal, South Africa)</b> - Geological and geomorphological factors controlling the occurrence of landslides in Western Pietermaritzburg, KwaZulu-Natal, South Africa	<b>Mr Peter Bassey (University of Benin, Nigeria)</b> - Geoelectrical Exploration Method for Groundwater Potential Assessment at Owan East Local Government Area of Edo State, Southern Nigeria
		<b>Dr Wazoh Hannatu (University of Jos, Nigeria)</b> - Assessment of Competence for Suitability of Engineering Structures in the Land-use Plan of the Greater-Jos Master Plan, Jos-Plateau, North-Central Nigeria	
15:10 – 15:30	<b>Tea/Coffee Break – Exhibition and Foyer Area</b>		
15:30 – 16:30	Session 6	<b>Oryx 2 – Parallel Session 6A Slopes: Rock/Soil/Monitoring (continued)</b> Session Chair:	
		<b>Mr Felix Draesner (Trumer Schutzbauten GmbH, Austria)</b> - Rockfall Attenuators, Hybrids and Catchment Systems: Making Sound Decisions for Long-Term Protection	
		<b>Prof Domenico Calcaterra (University of Napoli Federico II, Italy)</b> - The influence of meteoric events in triggering shallow landslides in pyroclastic deposits of Campania region, Italy: an update	

		Mr Adam Irvine (PSM, Australia) - Quantifying Defect Waviness for Enhanced Shear Strength Assessment in Open Pit Slope Design: A Case Study		
16:30 – 17:30	Leisure Time			
17:30 – 19:00	Welcome Drinks & Entertainment – Boma at Windhoek Country Club Resort			
19:00	Conference Dinner – Boma at Windhoek Country Club Resort			
WEDNESDAY 10 SEPTEMBER 2025				
07:30 – 17:00	Registration - Registration Desk, Conference Foyer Area Exhibition – Oryx 1			
08:30 – 10:00	Session 7	Oryx 2 & 3		
		Keynote Lecture: The Importance of Joining the Dots in Engineering Geology: An Engineering Geologist’s Challenge (Mr Oliver Barker)		
		Keynote Lecture: Engineering geological investigations for Mine Tailings Storage Facilities (Mr John Stiff)		
10:00 – 10:30	Tea/Coffee Break – Exhibition and Foyer Area			
10:30 – 12:10	Session 8	Oryx 2 – Parallel Session 8A Energy and Environment Session Chair:	Oryx 2 – Parallel Session 8B Methods & Case Studies Session Chair:	
		Mr Keval Singh (JG Afrika, South Africa) - Geotechnical Considerations for Renewable Energy Developments	Prof Masahiko Osada (Saitama University, Japan) - Estimating evaporation rate from rock surface using infrared thermography	
		Mr Marco Carlos (GEOSTRATOS, Angola) - Geohazards and Sustainable Development in the Namib Desert: Challenges and Opportunities for the Angolan Sector within the UNESCO Global Geopark Programme	Ms Mampho Maoyi (University of Pretoria, South Africa) - Insights from infrared thermography in analysing discontinuity flow behaviour in blasted rock mass	
		Dr Attah Fakeye (Nigerian Building and Road Research Institute, Nigeria) - Integrating geo-environmental analyses for flood risk assessment in the Cross River State, Nigeria	Ms Basetsana Mmileng (SRK Consulting, South Africa) - A cross-regional strategy for sinkhole rehabilitation: a case study	

			of a sinkhole near a ventilation shaft at Kipushi Mine Plant Site, Democratic Republic of Congo
		<b>Ms Abimbola Aluko (Federal University of Technology, Nigeria)</b> - GIS-Based Hazard Risk Assessment in a Rural Nigerian Community: A Case Study of Flooding and Erosion in Ibule-Soro, Ondo State	<b>Mr Tony A'Bear (Bear GeoConsultants, South Africa)</b> - An Analytical Approach to Determining the Appropriate Hazard Level in Shallow Dolomite Bedrock Terrain
		<b>Prof Akaha Tse (University of Namibia, Namibia)</b> - Green Hydrogen in Namibia: the drivers and the barriers	<b>Mrs Rachael Naidoo (Jones and Wagener, South Africa)</b> - Assessment and remediation of a sinkhole that developed adjacent to a major freeway in Johannesburg
<b>12:10 – 13:10</b>	<b>Lunch Break – Hotel Restaurant</b>		
<b>13:10 – 14:50</b>	<b>Session 9</b>	<b>Oryx 2 – Parallel Session 9A Mine Tailings</b> Session Chair:	<b>Oryx 2 – Parallel Session 9B Site Investigation</b> Session Chair:
		<b>Mr Riaan Jooste (Jones and Wagener, South Africa)</b> - Overcoming Challenges in 3D Geological Modeling for Large Tailings Storage Facilities	<b>Prof Paolo Simonini (University of Padova, Italy)</b> - Some experiences with distributed optical fiber sensors to monitor geotechnical structures
		<b>Mr Hennie Booyens (SRK Consulting, South Africa)</b> - The Role of the Engineering Geologist in supporting sustainable and safe mining operations with reference to Tailings Storage Facilities and the requirements of GISTM	<b>Ms Bronwen Klaas (Knight Piesold, South Africa)</b> - Comprehensive desktop studies and their importance to geotechnical investigations
		<b>Miss Karabelo Mosia (Jones and Wagener, South Africa)</b> - The Feasibility of Using 2D ERT and MASW Geophysical Techniques for Geotechnical Site Characterisation: A Case Study for Tailings Storage Facilities	<b>Mr Adebayo Afolabi (AOA GEONET, Nigeria)</b> - Engineering Geological and Site Characterization of the ring highway around the Lagos and solutions for its immediate environment
		<b>Mr Ahmad Patel (SLR Consulting, South Africa)</b> - Effective Monitoring: A Key to Safer Tailings Dam Operations	<b>Mr Siyabonga Nyati (Zutari, South Africa)</b> - Dam rehabilitation and foundations stiffness investigations at Lewis Gay
		<b>Mr Bothle Pule (Botswana International University of Science and Technology, Botswana)</b> - A Review of Machine Learning Applications in Mine Slope Stability Analysis	<b>Ms Maatla Mogapi (Botswana International University of Science and Technology, Botswana)</b> - Application of Machine Learning Algorithms for the Prediction of Potential Rockburst Intensity Using Microseismic Data: A Case Study of Bamangwato Concessions Limited Mine, Botswana

<b>14:50 – 15:10</b>	<b><i>Tea/Coffee Break – Exhibition and Foyer Area</i></b>	
<b>15:10 – 16:00</b>	<b>Session 10</b>	<b>Oryx 2 &amp; 3</b>
		IAEG VP Africa ( <i>Prof Moshood Tiyani</i> )
		<b>Conference Closure</b>
<b>16:00</b>	<b><i>Young Engineering Geologists (YEG) and Women Engineering Geologists (WEG): Get Together and Social</i></b>	