

# ENGINEERING GEOPHYSICS SYMPOSIUM PROGRAMME



19–20  
AUG | 2025  
Southern Sun Hotel  
Rosebank

## Day 1: 19 August 2025

Time	Programme of Events	Subtheme	Title
08:00-09:00	Registration and Early Morning Refreshments		
09:00-09:05	Welcome and Safety Briefing		
09:05-09:10	Opening Address		
09:10-09:40	SRK Consulting - Keynote Dr Linzer	Geotechnical	M5.5 Orkney Earthquake: Insights into the Physics of Faulting
09:40-10:00	SRK Consulting - Adriaan Meintjes	Tailings dams	Tailings Storage Facility Design and Failure Modes Considering Small Strain Measurements and Performance Monitoring
10:00-10:30	Mid-Morning Refreshments		
10:30-10:50	SkyTEM - Per Gisselø	Geotechnical	High Resolution Airborne Electromagnetics for Geotechnical Investigations
10:50-11:10	Geolinks - Wayne Pettit	Tailings dams	Passive Seismic Measurements for Extended Continuous Pore Pressure Monitoring of Tailings Dams
11:10-11:30	SRK Consulting - James Dutchman	Tailings dams	Advancements in TSF Monitoring and Surveillance through the Adoption of New Methods and Digital Solutions
11:30-11:50	University of the Witwatersrand - Glen Nwaila	Tailings dams	Inverting Satellite Imagery into Big Geochemical Data Proxies for TSFs Monitoring and Valorisation
11:50-12:10	SRK Consulting - Hennie Booyens	Tailings dams	Foundations First: Enhancing TSF Investigations with Geophysics - Practical Case Studies Demonstrating Foundation Characterisation
12:10-13:00	Lunch		
13:00-13:20	SAIEG and Bear Geo Consultants - Tony A'Bear	Sinkholes	Gravity Surveys and Hazard Zonation in Dolomitic Terrain – A Perspective from an Engineering Geologist
13:20-13:40	SRK Consulting - Wesley Harrison	Infrastructure	Advancing Track Safety: Geophysical Applications of Rail Radar Technology
13:40-14:00	Kleinhans Geotechnical Services - Ilse Kleinhans	Sinkholes	Geophysical Investigations: Dolomite related Sinkholes & Subsidence's
14:00-14:20	University of the Witwatersrand - Stephanie Enslin	Sinkholes	MAG ASSEGAI: Collaborative Drone Magnetics to Map Cavities
14:20-14:40	Society of Exploration Geophysicists - Sayan Mukherjee	Infrastructure	Seismic Monitoring of Wind Turbine Vibration
14:40-15:00	Council for Geoscience - Janet Bunk	Sinkholes	Sinkholes and the Rehabilitation thereof
15:00-15:30	Mid-Afternoon Refreshments		
15:30-17:00	Review of the Day		



# ENGINEERING GEOPHYSICS SYMPOSIUM PROGRAMME



19– 20  
AUG | 2025  
Southern Sun Hotel  
Rosebank

## Day 2: 20 August 2025

Time	Programme of Events	Subtheme	Title
08:00-09:00	Registration and Early Morning Refreshments		
09:00-09:05	Welcome and Safety Briefing		
09:05-09:10	Opening Address		
09:10-09:40	University of the Witwatersrand - Keynote Prof Stacey	Geotechnical	Can Geophysics Enhance the Quality and Volume of Geotechnical Data for Better Design and Prediction in Mining Engineering
09:40-10:00	SRK Consulting - Bruce Engelsman	Geotechnical	How Understanding Geology lends to Geotechnical Engineering – A Case Study (Table Mountain Group Rocks)
10:00-10:30	Mid-Morning Refreshments		
10:30-10:50	SRK Exploration - Sara Turnbull	Mining	Airborne TEM's Role in Graphite Greenfields Success
10:50-11:10	Council for Scientific and Industrial Research - Heinrich Greeff	Mining	From Strikes to Signals: Using Smartphones and Machine Learning to Classify Rock Stability
11:10-11:30	Jones and Wagener - Riaan Jooste	Tailings dams	Filling in the Gaps with Geophysics
11:30-11:50	Mandela Mining Precinct- Michelle Pienaar	Mining	The AOK Revolution: Merging Geoscience and Technology for Deeper Mining Insight
11:50-12:10	Council for Geoscience - Thifhelimbilu Mulabisana	Mining	The Impact of Blasting in Communities located near Open-cast Coal Mines in South Africa.
12:10-13:00	Lunch		
13:00-13:20	Digital Surveying - Reece van Buren	Mining	Increasing Resolution of In-situ Geotechnical Characterisation
13:20-13:40	Geofocus - DP de Villiers	Geotechnical	Assumption Island - GPR
13:40-14:00	University of the Witwatersrand - Ray Durrheim	Geotechnical	Geophysics and Nuclear Power: Site Selection, Extension of Operating Licenses, and the Safe Storage of Radioactive Waste
14:00-14:20	SRK Consulting - Rory Bush	Geotechnical	InSAR for Geotechnical Applications: Harnessing Its Potential and Understanding Its Limitations
14:20-14:40	University of the Free State - Francois Fourie	Geotechnical	When Easy Becomes Misleading: A Critical Look at Groundwater Detectors
14:40-15:00	University of the Witwatersrand - Susan Webb	Geotechnical	False Signals: The Fights for Integrity in Geophysical Methods
15:00-15:30	Mid-Afternoon Refreshments		
15:30-17:00	Review of the Day		

