

# SLOPE STABILITY '26

Conference and Expo  
10<sup>th</sup> and 11<sup>th</sup> September 2026

## SLOPE STABILITY X26

The Garden Venue & Boutique Hotel  
North Riding Johannesburg, South Africa

Covered by Official Media Partners  
to Slope Stability X26

 CREAMER MEDIA'S  
**ENGINEERING NEWS**  CREAMER MEDIA'S  
**MINING WEEKLY**

**EARLY-BIRD**  
Extended **BOOK &**  
**PAY BEFORE**  
26<sup>th</sup> June 2026  
**R2,999**  
In-Person  
2 Full Days

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Produced by: **Open Business Group**

# SLOPE STABILITY X26

SLOPE STABILITY '26

## Dear Engineer

As you are aware infrastructure, mining operations, and critical assets face increasing geotechnical risk, the Slope Stability International Conference brings together leading engineers, geologists, and technology innovators to explore the future of slope risk management and resilient design.

The programme features 24 technical experts from major engineering projects, global mining operations, startups, and technology companies addressing real-world slope stability challenges. The event includes two technical workshops, two keynote sessions, and a dynamic programme of interactive panels, fireside chats, and collaborative discussions, with breakout sessions to follow.

This conference creates a platform for engineering insight, innovation, and cross-industry collaboration focused on solving complex slope stability challenges.

See You There!

## Keynote highlights



LEHANA BULANE,  
GEOTECHNICAL ENGINEER,  
LETŠENG DIAMOND MINE,  
LESOTHO



NYELETI MASOLE, CHIEF  
ROCK ENGINEER, FOSKOR,  
SOUTH AFRICA



JOHAN DU PLESSIS  
TECHNICAL CONSULTANT,  
STRUCTURAL ENGINEER,  
PROKON SA (PTY) LTD,  
SOUTH AFRICA



CHRISTINE THIKUSHO,  
SENIOR GEOTECHNICAL  
GEOLOGIST, SWAKOP  
URANIUM, NAMIBIA



KHOMOTSO MOLEKE, CEO,  
M84 GEOTECH SOLUTIONS  
PTY LTD, SOUTH AFRICA



PATRONELLA MOLUTSI  
PRINCIPAL GEOTECHNICAL  
ENGINEER, MOBILE  
EQUIPMENT, EXXARO  
RESOURCES, SOUTH  
AFRICA



DR. AMU MANYIKE-MODAU  
CHIEF HSE & ESG OFFICER,  
VENDATA ZINC  
INTERNATIONAL, SOUTH  
AFRICA



MOSES SKOSANA  
PRI.SCI.NAT  
GEOMETALLURGIST,  
ANGLO AMERICAN,  
SOUTH AFRICA



THABANG MATLALA  
SENIOR MINE PLANNING  
ENGINEER, MENAR GROUP  
SOUTH AFRICA & VICE  
CHAIRMAN IMSSA,  
MPUMALANGA



MADIDIMALO AUBREY  
PHOKO  
PRINCIPAL ENGINEER,  
STRATEGIC MINE  
PLANNING & DESIGN,  
EXXARO RESOURCES,  
SOUTH AFRICA

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CREAMER MEDIA'S  
ENGINEERING NEWS



CREAMER MEDIA'S  
MINING WEEKLY

Stay Tuned for More Speaker Announcements

# ◆ DAY 1 — THURSDAY, 10 SEPTEMBER 2026.

## Investigation → Design → Execution

“FROM GROUND UNDERSTANDING  
TO ENGINEERING REALITY”

07:30 – 08:30 Arrival Coffee & Networking

08:30 – 08:45 Opening Address – Conference Chairperson - Exploring the industry's risk landscape and defining urgent geotechnical priorities  
Speaker to be announced

08:45 – 09:15 Opening Keynote: Opening Keynote: From Compliance to Culture: Redefining Safety Leadership in Modern Mining Operations

**Patronella Molutsi Principal Geotechnical Engineer Mobile Equipment, Exxaro Resources, South Africa**

◆ 9:15 - 11:45 **SESSION 1: INVESTIGATION & GEOLOGICAL UNDERSTANDING**  
Session 1 sets the foundation for this year's conference focusing on the critical first phase of slope stability: understanding the ground before any design or operation begins. In mining and geotechnical engineering, reliable slope performance depends on the quality of investigation data, the accuracy of geological models, and the integration of hydrogeological and structural factors into decision-making.

**Multiple Speakers**

09:15 – 09:45 Challenges in Geotechnical Design – From Site Investigation to Construction  
Topic Details to be announced

**Speaker to be announced**

09:45 – 10:15 Hydrogeology in Mine Stability

**Speaker to be announced**

10:15 – 10:45 Morning Tea & Networking

### ◆ 10:45 - 13:00 DAY 1 SPONSORED SIGNATURE SESSIONS

- Fireside chats + Interactive Panels and Hybrid Workshops Stream A:

Failure Modes and Risk-Based Decision Making in Embankment Slope Design  
Day 1 Signature Sessions are designed to be engaging, interactive and a thought-provoking component of the conference — This topic would focus on embankment failure risks and preparedness during both design-construction and operational phases, with an emphasis on risk assessment and mitigation strategies, based on the best practices and guidelines.

10:45 – 11:15 Exploring Structural Influence in Slope Stability Analysis

- Structural control and slope instability mechanisms.
- Integrating structural data into slope stability analysis.
- Case Study: Letšeng Diamond mine application.
- Advancing slope design through structural characterisation.

**Lehana Bulane  
Geotechnical Engineer, Letšeng Diamond Mine, Lesotho**

11:15 – 11:45 Strategic Geotechnical Oversight Lessons from integrating geotechnical practices across open pits and mineral residue facilities.

**Speaker to be announced**

◆ 11:45 - 12:15 SPONSORED SESSION — HOW DO YOU DESIGN ROCKFALL PROTECTION SYSTEMS THAT ACTUALLY PERFORM IN THE FIELD? • Hazard identification and rock mass characterisation • Rockfall trajectory modelling • Barrier energy classification • Certified installation practices • Monitoring strategies for long-term slope performance.

**Khomotso Moleke, CEO M84 Geotech Solutions Pty Ltd**

12:15 - 13:00 Soil Characterisation Keynote - From Field to Failure: How Soil Characterisation Quality Determines Slope Performance

**Moses Skosana Pr.Sci.Nat Geometallurgist and Geotechnical Engineer Anglo American South Africa**

13:00 – 14:00 Lunch & Networking

### ◆ SESSION 2: DESIGN, MODELLING & ENGINEERING SYSTEMS

Session 2 shifts the focus from understanding the ground to engineering how it performs. It explores how geotechnical data is translated into robust, reliable designs through advanced modelling techniques, analytical methods, and integrated engineering systems.

◆ 14:00 - 14:30 Sponsored Presentation: Open Pit Mine Design and Planning

Topic Details to be announced

**Speaker to be announced**

14:30 - 15:00 Are models reflecting reality—or simplifying risk?

**Speaker to be announced**

15:00 – 15:30 Mid-Afternoon Tea & Networking

### ◆ 15:30 - 16:30 SESSION 3: Execution & Operational Reality

Closing the gap between design and site execution,  
Multiple Speakers, Featured Talks -

◆ 15:30 - 16:00 Keynote Optimising Highwall Stability

Topic details to be announced

### SPONSORED INDUSTRY PANEL

◆ 16:00 - 16:30 Panel: Post-Construction Regulations & Enforcement - Regulators | Operators | Engineers

- What governing regulations apply to post-construction mining operations, specifically regarding supporting infrastructure rather than the mining activities themselves?
- Are there any regulations requiring the ongoing monitoring of infrastructure? (Include reference to an American case study.)
- Which authorities or entities are responsible for enforcing these regulations, and to what extent is enforcement currently taking place?
- What gaps exist in the current regulatory framework, and what changes are necessary to improve oversight and compliance?

**Panel Host - Johan Du Plessis Technical Consultant, Structural Engineer, Prokon SA (Pty) Ltd, South Africa**

16:30 - 16:40 CLOSING REMARKS AND END OFF DAY 1

17:30 – 19:00 WELCOME COCKTAIL & STRATEGIC NETWORKING

# ◆ DAY 2 — FRIDAY, 11 SEPTEMBER 2026.

## MONITORING → PERFORMANCE → FUTURE

"FROM DATA TO DECISIONS IN SLOPE STABILITY"

07:30 – 08:30 Arrival Coffee & Networking

08:30 – 08:45 **Opening Address – Conference Chairperson - Exploring the industry's risk landscape and defining urgent geotechnical priorities**  
Speaker to be announced

08:45 – 09:15 **Opening Keynote: Addressing how slope-related risks are integrated into ESG strategy, Reporting, and Board-level decision-making**

**Speaker to be announced**

◆ 9:15 - 11:45 **SESSION 4: Monitoring Systems & Data Integration**  
Session 4 explores trending technologies and the latest in Real-time monitoring | Adaptive engineering | Early risk detection

- Key Talks from Multiple Speakers

09:15 – 09:45 **Monitoring and Assessing Pit Wall Stability: Integrating Radar, Prisms, InSAR, and Field Investigations**

This presentation draws on Christine's experience coordinating final wall assessments, bench failure analysis, and high wall approach training.

**Christine Thikusho Pr.Sci.Nat**

**Senior Geotechnical Geologist | Swakop Uranium, Namibia**

09:45 – 10:15 **KEY CONSIDERATIONS FOR EFFECTIVE SLOPE PERFORMANCE MONITORING: A CASE STUDY**

Defining objectives, selecting technology, and integrating monitoring systems into operations. **Abstract:** - Slope instability continues to cause significant challenges in surface mining and slope failures constitute risks to personnel and the long-term stability of mining operations. An effective monitoring system enables early detection of possible problems, supports early intervention, and advances informed, risk-based decisions.

**Nyeleti Masole**

**Chief Rock Engineer, Foskor, South Africa**

10:15 – 10:45 Morning Tea & Networking

10:45 – 11:45 **DAY 2 SIGNATURE SESSION - Fireside chats + Interactive Panels and Hybrid Workshops STREAM B:** "Digital Twins, AI & the Future of Slope Stability" Day 2 Signature Sessions are designed to be an industry collaboration and solution-finding component of the conference —bringing together industry leaders, technical experts, and solution providers to confront a critical question posed by you: Why do slopes still fail, even when designs meet technical standards? These sessions move beyond traditional presentations into real dialogue, live problem-solving, and practical collaboration over live-recording. Through a mix of fireside chats, expert panels, and hands-on hybrid workshops, delegates will connect, engage and explore new and emerging solutions aligned to their operational realities

**Multiple Speakers**

### SPONSORED SESSION

10:45 - 11:15 **Monitoring Systems Hybrid Panel Immersive Panel Discussion on Slope Stability Monitoring Systems** This hands-on interactive panel explores how radar, InSAR, and drone technologies are transforming slope monitoring through integrated, real-time data workflows. Designed for practical application, the panel aims to harness expert insights to demonstrate how combining multiple systems enhance visibility, accuracy, and response time to address slope failures.

The session bridges innovation with operational implementation and uncovers the integrated implementation link to sourcing, selection and deploying fit-for-purpose monitoring technologies.

**Featuring Local OEMs and Mining Technology Partners**

11:15 - 11:45 **Interactive Technical Presentation on adapting and integrating emerging technologies with Slope Stability Monitoring & Operations - Interactive Technical Presentation on adapting and integrating emerging technologies with Slope Stability Monitoring & Operations.**

The presentation will explore how machine learning, AI, and big data—enabled by IoT sensor networks, cloud and multi-cloud architectures—are transforming real-time slope monitoring into predictive, adaptive systems. It will highlight how secure, scalable platforms (including cybersecurity considerations) accelerate the adoption of emerging technologies, enabling faster insights, flexible operations, and more responsive, data-driven interventions to enhance slope performance in complex mining and infrastructure environments.

**Speaker to be announced**

◆ 11:45 - 13:00 **SESSION 5: PERFORMANCE & GEOLOGICAL RISK**

Exploring how integrated monitoring systems and real-time data enhance confidence in slope performance, this session highlights adaptive engineering practices that enable proactive decision-making, early risk detection, and continuous design refinement—bridging uncertainty with actionable insight for safer, more resilient operations.

11:45 - 12:15 **Geological Drivers of Slope Instability in Platinum Mining: From Structural Complexity to Operational Risk (A Platinum Case)**

- Geological Drivers of Slope Instability in Platinum Mining: From Structural Complexity to Operational Risk
- Understanding Geological Complexity in the Bushveld
- From Geological Model to Engineering Risk.
- Improving Prediction Through Geological Intelligence.

**Speaker to be announced**

12:15 - 13:00 **Technology & Innovation in Ground Support and What's Changing—and What Actually Works?**

- Unpacking a few advances in materials and reinforcement systems, including hybrid support solutions
- Defining the growing role of digital tools, simulation, and predictive modelling
- How to evaluate new technologies against real operational performance
- Deciding what to avoid over-engineering while still improving safety and efficiency
- Adopting Innovation to strengthen performance—not complicate it

**Speaker to be announced**

13:00 – 14:00 Lunch & Networking

### SPONSORED INDUSTRY PANEL

14:00 - 14:30 **SPONSORED PANEL: LEGAL AND COMPLIANCE SESSION, DETAILS TO BE ANNOUNCED**

### SPONSORED SESSION

◆ 14:30 - 15:00 **From Monitoring to Action: Operationalising Data for Real-Time Geological Risk Control**

15:00 – 15:30 Mid-Afternoon Tea & Networking

◆ 15:30 - 16:30 **Closing Interactive Panel: Performance & Geological Risk in Practice Industry + Government + Technology | Interactive Hybrid Panel**

16:30 - 16:40 **CLOSING REMARKS AND END OF DAY 2**

17:30 – 19:00 **FAREWELL COCKTAIL & STRATEGIC NETWORKING**

# SLOPE STABILITY CONFERENCE AND EXPO, 10 - 11 SEPTEMBER 2026, THE GARDEN VIEW, NORTHRIDING JOHANNESBURG, SOUTH AFRICA

*Thank you for your interest in the course. To register, please provide the following information*

## Delegate(s) Information

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Department:	Mobile:
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2. Dr. /Mr. /Mrs. /Miss:	Email:
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Department:	Mobile:
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### Register Me / Us / Team for The Following / Please Select the Selection of your Choice

<input type="checkbox"/> <b>2 Days In-Person = ZAR 6,999.00 excl. VAT</b>	<input type="checkbox"/> <b>2 Days Online = ZAR 2,999.00 excl. VAT</b>
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### Early-Bird Prices are valid until 30th MAY 2026

#### Signatory must be authorised to sign on behalf of contracting organisation

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*THIS BOOKING IS INVALID WITHOUT A SIGNATURE*

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