



Exploring the
Disconnects Behind
Major Slope Failures

SLOPE STABILITY X26

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

Conference and Expo

10th and 11th September 2026

The Slope Stability Conference & Expo 2026 explores the latest strategies, technologies, and engineering practices for managing slope stability and geotechnical risk across mining, civil infrastructure, transportation, and construction sectors.

The event topics focus on slope design and optimisation, rockfall protection, monitoring and digital technologies, geotechnical investigation, mine closure, tailings and waste management, risk governance, climate resilience, and emerging innovations.

Through expert presentations, technical case studies, panel discussions, and live exhibitions, delegates will gain practical insights into improving safety, operational performance, and long-term infrastructure resilience while connecting with industry leaders driving the future of geotechnical engineering.



Sponsors and Exhibitors



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to Slope Stability X26



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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Stay Tuned for More
High Impact Speakers
to be Announced

◆ 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**

DAY TWO - PROGRAMME

SLOPE STABILITYX26

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

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3. Dr. /Mr. /Mrs. /Miss:	Email:
Department:	Mobile:
Position:	
4. Dr. /Mr. /Mrs. /Miss:	Email:
Department:	Mobile:
Position:	

Register Me / Us / Team for The Following / Please Select the Selection of your Choice

<input type="checkbox"/> In-Person - 2 Days Early-Bird Expires 31st July 2026 R 3,999.00 Ex. VAT	<input type="checkbox"/> Online - 2 Days Early-Bird Expires 31st July 2026 R 1,999.00 Ex. VAT	<input type="checkbox"/> In-Person - 2 Days Students / Educators Early-Bird Expires 31st July 2026 R 1,999.00 Ex. VAT	<input type="checkbox"/> Online - 2 Days Students / Educators Early-Bird Expires 31st July 2026 R 999.00 Ex. VAT
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Signatory must be authorised to sign on behalf of contracting organisation

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THIS BOOKING IS INVALID WITHOUT A SIGNATURE

OPEN BUSINESS GROUP

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1. Registration and Payment

- Registration is only confirmed once a completed registration form has been received and payment arrangements are in place.
- Full payment is due before the Event start date. All fees are quoted in South African Rand (ZAR) and are inclusive of VAT at the applicable statutory rate, unless stated otherwise.
- Open Business Group reserves the right to refuse admission where proof of payment, or a signed order/registration form confirming payment terms, has not been provided.

2. Admission

Due to limited seating, admission cannot be guaranteed without prior confirmation of registration and payment. Delegates should bring proof of payment or confirmation correspondence to the Event.

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Substitute delegates may attend at no extra charge, provided the original fee has been paid in full and Open Business Group is notified in writing at least 10 working days before the Event start date. Please email substitution requests to the Customer Services Manager at info@theopenbusinessgroup.com.

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Cancellation requests must be submitted in writing to the Customer Services Manager (info@theopenbusinessgroup.com).

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9. Authority to Sign

The signatory warrants that they have the authority to complete this registration on behalf of the delegate or organisation named, and accepts personal liability for payment of fees due should this warranty be incorrect.

10. Governing Law

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