

SANCOT SYMPOSIUM 2022

7-8 NOVEMBER 2022 WALLENBERG CONFERENCE CENTRE @ STIAS, STELLENBOSCH, WESTERN CAPE SOUTH AFRICA

Tunnel boring in civil engineering and mining



Final Programme

Sunday, 6 November 2022

18:00-20:30	Welcome Networking Reception and Early Registrations Wallenberg Conference Centre @STIAS, Stellenbosch: Dress Code: Smart Casual (Sponsored by SRK Consulting)	12:15-12:45 12:45-12:55	Multiple use applications of super water absorber polymer M. Sposetti, Master Builders Solutions Construction Chemicals LLC, South Africa Sponsor Presentation
Conference Day 1 – Monday, 7 November 2022		12.75-12.55	Master Builders Solutions South Africa
08:00-09:00	Registration Opens & Early Morning Refreshments	12:55-13:55	Lunch
		13:55-14:25	13:55–14:25 Challenging station crossing by a 13,08 m diameter EPB TBM in Lodz, Poland, with partial soil excavation F. Bove, Seli Overseas, Italy
09:00-09:10	Welcome and Opening Address G.J. Keyter, Conference Chairperson		
09:10-09:15	Safety Briefing Venue Official	14:25-14:55	Tight radius curve Tunnel Boring Machines – reducing the need for intermediate shafts
09:15-09:30	SAIMM Presidential Address		B. Matheson, Terratac, United Kingdom
09:30-10:15	Z. Botha Keynote Address: Polihali Transfer Tunnel: from feasibility to tender J. Sawyer, J. Parry, and M. Kastner, Lesotho Highlands Water Project, Lesotho	14:55-15:25	Rockmass characterization and support for the Polihali diversion tunnels and portals G. Madear ¹ , G.J. Keyter ² , and C. Warren- Codrington ³ , ¹ Zutari (Pty) Ltd, ² SRK Consulting (Pty) Ltd, ³ SMEC South Africa (Pty) Ltd, South
10:15-10:45	Design and construction considerations for the Polihali diversion tunnels intake and the tunnel lining S. Kotele¹ and M.P. da Silva², ¹Lesotho Highlands Development Authority (LHDA), Lesotho and ²Zutari (Pty) Ltd, South Africa	15 05 15 / 0	Africa Private
		15:25–15:40 15:40–16:10	Afternoon Refreshments TBM Tunneling for the 36 km Mine Transport Tunnel at the Woodsmith Polyhalite Mine, UK J. Fawcett, Strabag UK, Whitby, North Yorkshire, United Kingdom
10:45–10:55	Sponsor Presentation Murray & Roberts Cementation	16:10–16:40 Innovation in civil tunnelling: What we can learn from a novel type of tunnel boring in	
10:55-11:15	Mid-Morning Refreshments		mines
11:15–11:45	Challenges and trends with the excavation of long TBM tunnels K. Bäppler, Herrenknecht AG, Germany		B. Grothen, Robbins, USA
		16:40	End of conference day one
11:45–12:15	Keeping flowing sands at bay: The use of slurry shield microtunnel boring in Cape Town's saturated sandy profiles H. Coetzee ¹ , A. Smit ¹ , F. van der Merwe ² , and C. Du Toit ² , 'CSV Construction (Pty) Ltd and 'WSP, South Africa	16:40-18:00	Time at Leisure Conference Dinner Delegates to meet at the Wallenberg Conference Centre @STIAS main reception @18:00 for departure to the dinner venue Dress code: Smart Casual
		18:00-21:30	



11:15-12:00

12:00 12:15

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Conference Day 2 - Tuesday, 8 November 2022

Keynote Address: Hydropower tunnel

D. Brox, Dean Brox Consulting, Canada

End of technical programme and light lunch

Post Conference Technical Visit - Departure for the technical visit to the North Bore on the N1 Huguenot Tunnel between Paarl and

failures - Risks and causes

Du Toitskloof

Day 2 - Tuesday, 8 November 2022		
Registration Opens & Early Morning Refreshments	12:15-13:00	12:15-13:00 Departure (Delegates to meet at the Wallenberg Conference Centre @ STIAS
Welcome and Opening Address R. Freese, Conference Chairperson	main reception @12:15. Delegates will be back at the Wallenberg Conference Centre	
Safety Briefing Venue Official	13:00-13:30	by 17:00) Meet at the Tolcon offices followed by a for
Ambient noise seismic wave methods for		safety induction
geotechnical applications F. Malan, Institute of Mine Seismology, South Africa	13:30–14:30	Drive to the western portal for a brief overview of the tunnel history, including design, construction and proposed
Support design for two tunnels at Anglo Platinum Mogalakwena Sandsloot		upgrades to North and South bores Presented by SMEC staff
Exploration Project using drill and blasting and mobile tunnel boring machine techniques D. van Rooyen and R. Carstens, Anglo American, South Africa	14:30-5:30	Drive through North Bore tunnel with stops at key points of interest
	15:30 - 16:30	Conclude site visit at Eastern Portal with Q & A followed by return trip through South Bore
Mid-Morning Refreshments	Kindly note the technical visit is separably bookable and delegates are asked to bring their own PPE – hard hat, boots and high-visibility vest	
The application of tunnel boring machine in the execution of incline and decline tunnels in mining project M. Nasiri¹, H. Moammeri², and G. Stripp¹, ¹Sound Mining Solution, South Africa and ²Project Managers and Design Engineers Limited, Seychelles		
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