



South African National
Committee on Tunnelling

SANCOT BREAKFAST AND TALK

The South African National
Committee on Tunnelling (SANCOT)
has pleasure in inviting you to a
Breakfast Talk on

20 February 2020

07:00 for 07:30 to 08:30

GIBB (Pty) Ltd, Woodmead

4 Double Shielded Hard Rock TBMs in use for the Oslo Follo Line – Project challenges and TBM solutions

Dr. Karin B  pler

Herrenknecht AG, Schwanau, Germany

Synopsis

Until recently, all rail tunnels in Norway were excavated using drill & blast technology. The Follo Line project is a new 22 kilometers long double track rail line between Oslo Central Station and Ski. Four double shield hard rock TBMs with an excavation diameter of 9.96 meters excavated a total of about 36 kilometers of predominantly Precambrian gneisses with banding and lenses of amphibolite and pegmatite. The tunneling concept is based on using four TBMs, two of each operating in opposite directions from two access tunnels that are located near the midpoint of the alignment in a remote, rural location. The tunnel will be Norway's longest and largest rail tunnel. The presentation highlights the project challenges in particular the abrasive and strong rock mass, the large diameter in combination with the possible risk of high water pressures (12 bar) that required a well-adapted TBM concept.

Registration Form

Title and Initials: Surname:

Company: Designation:

Company VAT Registration (If applicable):

Postal Address: Postal Code:

E-mail: Cell:

REGISTRATION FEES—R50

Payments: For online registration and payments go to www.saimm.co.za

Credit Cards—Please debit (✓ tick) my:

Visa ☐ Mastercard ☐ American Express ☐ Diners Club ☐ Card No.

Expiry Date: Last 3 OR 4 digits on back of card

Signature:

Please print name of card holder:

**Written cancellation must be sent to the SAIMM 14
days prior to the event.**

**No show Policy: A no show will result in forfeiture of
the registration fee**

Our banking details are:

Bank: Standard Bank

Branch: Johannesburg

Branch Code: 000205

Account No: 000402974

Account Type: Cheque Account

Swift No. SBZAJJ

For further information contact:

Gugu Charlie
Conference Co-ordinator • SAIMM
Tel: +27 (0) 11 834-1273/7
E-mail: gugu@saimm.co.za
Website: <http://www.saimm.co.za>



SAIMM
THE SOUTHERN AFRICAN INSTITUTE
OF MINING AND METALLURGY



BREAKFAST SPONSORED BY



Woodmead North Office Park
54 Maxwell Drive, Woodmead