

Dear Participants,

Welcome to the BASF TBM Conference 2009 in Singapore!  
We are very much looking forward to an exiting event for the TBM tunneling industry.

**Inscription, payment & latest detailed information**

[www.basf-cc.com.sg/en/TBMConference/Pages/default.aspx](http://www.basf-cc.com.sg/en/TBMConference/Pages/default.aspx)

**Personal contacts in Singapore**

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**Conference**

THE JEWEL BOX, 109 Mount Faber Road  
[www.mountfaber.com.sg](http://www.mountfaber.com.sg), tel.: +65.6270.8855  
The Conference fee is 200 SIN\$ and the number of participants will be limited to 150 due to organisational reasons. Organized bus transfer from Conrad Hotel.

**Accommodation**

CONRAD CENTENNIAL SINGAPORE, 2 Temasek Blvd  
[www.conradhotels.com](http://www.conradhotels.com), tel.: +65 6334 8888  
After inscription and conference fee reception, rooms will be reserved by BASF on your individual name.  
The hotel prices for a classic room will be SIN\$ 250.00 net++ per night (room only) and SIN \$275.00 net++ per night (inclusive of buffet breakfast for 1 person).

**Transportation**

approx. SIN\$ 25.00 for a taxi transportation from the airport to the hotel.

**Presenters**

All presenters are invited to send their papers either in article form or - if time does not permit - in presentation (ppt) format until October 2<sup>nd</sup> to [Lars.Langmaack@basf.com](mailto:Lars.Langmaack@basf.com) in order to be able to issue a Conference CD with copies of all presentations. Furthermore they are invited to send their short CV as preparation for the chairmen.

Don't hesitate to contact us in case of additional questions.  
Finally we wish you a good trip and are pleased to see you in Singapore!

With support of



**BASF TBM Conference 2009**  
**Singapore, 4<sup>th</sup>-6<sup>th</sup> November**  
**detailed program**



## Tuesday, 3rd November

Arrival of BASF employees  
Flexible evening

## Wednesday, 4th November

### Internal BASF Seminar at SUNTEC Tower One, 35<sup>th</sup> Floor, Kallang Room

08.30-15.00 TBM update  
CIBA presentation  
Country presentations

18.30 individual arrival of external guests  
Welcome reception at Conrad Hotel, Pool Pavilion/Level 4

## Thursday, 5th November

### TBM Conference at THE JEWEL BOX, 109 Mount Faber Road, Singapore

08.00 Bus transfer from the Conrad Hotel

**Opening session**

09.00 - 09.15 MD BASF South East Asia Pte Ltd  
09.15 - 09.30 D. Ruckstuhl, Director MEYCO Global Underground Construction  
L. Langmaack, MEYCO Global Underground Construction

*Chairman morning session: A. Pengelly*

09.30 - 09.50 **Singapore MRT Details & Difficulties**  
**Overview of Singapore MRT System 2020**  
Ow Chun Nam, Tunneling and Underground Construction Society Singapore (TUCSS)

09.50 - 10.10 **Geology of Singapore and tunneling difficulties encountered in the past**  
Nick Shirlaw, Golder Associates

10.10 - 10.30 **Challenges of Singapore Circle Line MRT C855 Slurry TBM**  
Vivek Singhal, Alpine

10.30 - 11.00 *BREAK*

11.00 - 11.20 **Geology & TBM Performance**  
**History of ground stabilization in Singapore and new solutions**  
Kooper Kim, BASF Singapore

11.20 - 11.40 **Key Performance Indicators (KPI) - necessary factors for the demanding geology in Singapore**  
Tim Babendererde, Babendererde Engineering

11.40 - 12.00 **Ground movements and the potential for building damage**  
Tom Henderson Geotechnical Consulting Group (Asia) Ltd.

12.00 - 12.20 **EPB soil conditioning in difficult conditions**  
Lars Langmaack, BASF Switzerland

12.20 - 14.00 *LIGHT LUNCH*

*Chairman afternoon session: L. Langmaack*

14.00 - 14.30 **Machine Manufacturers**  
**State-of-the-art and current design approaches in large diameter TBM technology**  
Karin Baeppler, Herrenknecht AG

14.30 - 15.00 **TBM Design and Operation of the Oraki Main Sewer Project, Hobson Diversion, New Zealand**  
Craig Bournes, Lovat Inc.

15.00 - 15.30 **The re-usable draw-back TBM**  
Yasunori Kondo, Kawasaki

15.30 - 16.00 **On site assembly and hard rock tunneling at the Jinping-II hydropower station power project**  
Steve Smading, Robbins Inc.

16.00 - 16.30 *BREAK*

16.30 - 16.50 **Risk Estimations & TBM Sealing**  
**From laboratory parameters to risk estimation in hard rock TBM tunneling**  
Pal Drevland, NTNU Trondheim University

16.50 - 17.10 **Managing Commercial Risks on Tunneling Contracts**  
John Battersby, Battersby Kingsfield

17.10 - 17.30 **Latest developments of main bearing sealing greases and tail sealants**  
Lars Langmaack, BASF Switzerland

17.30 - 17.45 **Closing session**  
Mark Volmer, Group Vice President  
BASF Construction Chemicals Asia Pacific

18.30 **BASF evening dinner at Sapphire Outdoor Level**

24.00 Bus transfer to the Conrad Hotel

## Friday, 6th November

### Morning site visits (limited to 30 people each)

09.00 - 12.00 Bus 1 leaves the Conrad Hotel for the Site Visit of ROOF TOP, Marina Bay Sands / Casino Project  
Ssang Yong Eng & Const. Co.

09.00 - 12.00 Bus 2 leaves the Conrad Hotel for the Site Visit of C902 EPB TUNNEL SITE  
Shanghai Tunnel E&C (STEC)