



Tunnelling Association of Canada (TAC) - Ontario Chapter

EPB Tunnelling in the Toronto Area

Endorsed By:



DAY 1 - SCHEDULE - SEPTEMBER 30, 2011

7:30 am - 8:30 am **REGISTRATION AND CONTINENTAL BREAKFAST**

8:30 am - 8:45 am **Welcoming Remarks**

Rick STAPLES, TAC President

8:45 am - 9:45 am **Soft Ground EPB Operating Principles**

Rick STAPLES, Vice-President, Program and Project Management Division, Delcan

9:45 am - 10:45 am **EPB Pressure Calculation**

Brian GARROD, Executive Vice President, Hatch Mott MacDonald

10:45 am - 11:00 am **COFFEE BREAK**

11:00 am - 12:00 pm **Ground Conditioning: TBM Performance, Abrasion Protection, Operation**

Jaime IBARRA, TBM Specialist, BASF

Lars LANGMAACK, Technical Manager TBM, BASF

12:00 pm - 1:00 pm **LUNCH**

1:00 pm - 2:00 pm **Segmental Liner Design and Installation Procedures**

Tomas GREGOR, Vice President, Hatch Mott MacDonald

2:00 pm - 3:00 pm **Tail Seals and Segment Grouting: Theory, Operation, Maintenance**

Jean Marc BASSET, Director of TMSI Dept. & General Manager Condat China, Condat

3:00 pm - 3:15 pm **COFFEE BREAK**

3:15 pm - 4:15 pm **TBM Guidance: Actual vs. Theoretical, Curve, Correction, Roll**

Prof. Dipl.-Ing. Fritz GRÜEBL, Managing Director, tacs gmbh

Dipl.-Inform. Ulrich RAMMINGER, General Manger, tacs gmbh

4:15 pm - 5:15 pm **Interpretation of TBM Operating/Performance Data**

Andrew CARUANA, Engineering Supervisor - Electrical, Caterpillar

DAY 2 - SCHEDULE - OCTOBER 1, 2011

7:30 am - 8:00 am **CONTINENTAL BREAKFAST**

8:00 am - 9:00 am **Tunnel Monitoring and Compensation Grouting**

Derek ZOLDY, Associate Vice President, AECOM

Hamid JAVADY, Senior Tunnel/Geotechnical Engineer, AECOM

9:00 am - 10:00 am **Cuttinghead Tooling: Abrasion Protection, Indicators, Maintenance Procedures**

Allen JENSSON, Applications Manager, Caterpillar

10:00 am - 10:15 am **COFFEE BREAK**

10:15 am - 11:15 am **Compressed Air Intervention: Standards and Procedures**

Mike LANGEN, Marine Construction Manager, Global Divers

11:15 am - 12:15 pm **TBM Maintenance: Electric Hydraulics, Grouting, Back Up Systems**

Paul COTT, Field Service Manager, Caterpillar

12:15 pm - 12:20 pm **Closing Remarks**

Rick STAPLES, TAC President

12:20 pm - 1:00 pm **LUNCH**

1:00 pm - 5:30 pm **Caterpillar and/or *TTC Site Visit (Spadina South Tunnels)**

Note: Each lecture will incorporate a 10 minute discussion

*TAC will provide Hard Hats, Safety Glasses and Gloves