

SHORT COURSES

You do not need to register for the RETC Conference to attend the short courses. Conversely, short course registration does not include admittance to the RETC Conference.

• To register, fill out the Advance Registration Form • Space is limited, so register early • Courses are subject to cancellation •

Recent TBM Innovations and Applications

DATE: Sunday, June 14, 2009
TIME: 9:00am – Noon
LOCATION: Caesars Palace
FEE: \$150 Member
\$250 Nonmember
\$100 Student
INCLUDES: Coffee Breaks
Course Notes/Materials
Continuing Education Credits (.3 CEU)
Certification of Completion

This three hour short course will cover the latest trends and applications of mechanized tunneling from Micro to Macro TBMs including slurry, EPB, Hard Rock as well as a review of TBM information technology. This course is suited to tunneling professionals involved in design, procurement and contracting. Several recent project histories will be presented highlighting recent advances in TBM technology.

- Keynote Remarks – Martin Herrenknecht – Chairman – Herrenknecht AG
- Soft Ground Technology – Werner Burger – Chief Engineer – Herrenknecht AG
- Soft Ground Case History – Pierre Langchamp – Consultant
- MicroTBM Technology – Peter Schmäh – Technical Director – Herrenknecht AG
- Coffee Break
- Macro/Micro TBM Case History – Bill Mariucci – Project Director – Kiewit/Bilfinger Berger – East Side CSO – Portland
- Hard Rock Technology – Steve Short – Senior Project Engineer – Herrenknecht Tunnelling Systems USA
- Hard Rock Case History – Taro Nonaka – Project Manager – Obayashi/Massana JV – West Area CSO Project
- Tunnel and Underground Integrated Software Structure (TUnIS) – Manfred Messing – Managing Director – VMT GmbH
- Closing Remarks – Jack Brockway – President – Herrenknecht Tunnelling Systems USA

Structural Monitoring as a Risk Management Strategy in Underground Construction

DATE: Sunday, June 14, 2009
TIME: 1:00pm – 5:00pm
LOCATION: Caesars Palace
FEE: \$150 Member
\$250 Nonmember
\$100 Student
INCLUDES: Coffee Breaks
Course Notes/Materials
Continuing Education Credits (.3 CEU)
Certification of Completion

The purpose of this 4 hour workshop is to identify the ways in which structural performance monitoring can play a central role in managing risks associated with underground construction. Performance monitoring is used to identify emerging risks during construction as soon as possible so that risk mitigation strategies can be implemented early enough to reduce likelihood and consequences of unacceptable performance. This workshop will describe the role of performance monitoring as a risk management tool and demonstrate how the process is being used on several major infrastructure projects.

The workshop is designed for representatives of owners, contractors and engineers who are involved with managing risks associated with geotechnical and structural performance during construction. The

format will be several short presentations by invited participants followed by facilitated discussion. Some knowledge of the heavy civil construction industry is helpful but not essential.

Topics to be covered include:

- Roll of performance monitoring in managing risks
- Current technologies for monitoring performance
- Case studies showing how performance monitoring helped manage risk
- Benefits of performance monitoring in a risk management strategy
- Contracting mechanisms that produce effective performance monitoring results
- Trends for the future role of performance monitoring as a risk management tool

Instructors:

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