

UNDERGROUND GROUTING AND GROUND IMPROVEMENT | TOPICS AND SPEAKERS

MONDAY, MAY 1

Welcome and Introduction

Ray Henn, Colorado School of Mines

Fundamentals of Soil and Rock Mechanics

Reza Hedayat, Colorado School of Mines

Site Investigations for Dewatering, Freezing and Grouting

Scott Kibby, Mott MacDonald

Overview of Underground Construction Grouting

Ray Henn, Colorado School of Mines

Ground Improvement and Grouting for Groundwater Control

Paul Schmall, Moretrench

Cements and Admixtures

Chris Gause, Normet

Drilling and Grouting Equipment

Bill Warfield, Independent Consultant

Permeation and Consolidation Grouting

Brad Crenshaw, GEC Drilling & Grouting

Compaction Grouting

Tom Szynakiewicz, GeoStabilization International

Jet Grouting

Jeffrey Di Stasi, Hayward Baker Inc.

Jet Grout Monitoring

Rick Bearce, Colorado School of Mines

Mike Mooney, Colorado School of Mines

Reception at Colorado School of Mines Geology Museum

TUESDAY, MAY 2

Ground Improvement in Glacial Soils:

Seattle Tunneling Experience

Red Robinson, Shannon & Wilson Inc.

Port of Miami Grouting

Rick Deschamps, Nicholson Construction Company

Dewatering Techniques for Shafts and Tunnels

Greg Landry, Moretrench

Risk Evaluation

Bob Goodfellow, Aldea Services

Ground Freezing for Shafts and Tunnels

Joe Sopko, Moretrench

Deep Soil Mixing for Ground Improvement and Support of Excavation

Alan Ringen, JAFEC USA

Compensation Grouting

Dennis Boehm, Hayward Baker Inc.

Lab Demo: Soil and Rock Testing

Reza Hedayat, Colorado School of Mines

Lab Demo: Grout Rheology

Jim Lindsay, BASF

Lab Demo: Tunnel Backfill

Jeff Stokke, Surecrete, Inc.

Jeff Williams, KAO Specialties, Inc.

Glen Hall, KAO Specialties, Inc.

WEDNESDAY, MAY 3

TBM Design for Large Water Inflows in Rock Tunnels

Brad Grothen, The Robbins Company

Probing and Pre-Excavation Grouting

Brian Fulcher, Kenny Construction Company

Curtain Grouting for Leak Mitigation in Tunnels

Paul Gancarz, Sovereign-Thyssen L.P.

Use of Groundwater Flow Modeling to Estimate Water Inflows during Tunnel Excavation

Eric Fordham, GeoPentech

Cellular Concrete Use and Application

Rich Palladino, Aerix Industries

Field Demo: Compaction grouting, drilling and grouting equipment, packers, permeation grouting (sand columns), cellular concrete, product demonstrations, instrumentation and more

Bill Warfield, Independent Consultant

THURSDAY, MAY 4

Soil Freezing for Cross Passage Tunnel Construction

Larry Applegate, SoilFreeze, Inc

Chemical Grouting, Acrylate/Acrylamides

Britt Babcock, Avanti International

Cementitious and Acrylamide Grouting

Timothy Myers, Bencor Global, Inc.

Case Histories of Polyurethane Grouts

Scott Anderson, GCP Applied Technologies

Rondout Bypass Tunnel Project Update

Speaker to be determined, Kiewit

Troubleshooting Backfill and Pre-Excavation Grouting

David Crouthamel, McMillen Jacobs Associates

Ground Freezing for NY Tunnel Excavation

Paul Madsen, Kiewit

Design and Specifications for Ground Freezing

Mike Schultz, CDM Smith

Lab Demo: Chemical Grout

Britt Babcock, Avanti International

Scott Anderson, GCP Applied Technologies

Lab Demo: Testing and QA/QC

Brad Hess, US Grout LLC

Lab Demo: Bi-Component/Annulus Backfill Grouting

Phil Antunes, Team Mixing Technologies Inc.

FRIDAY, MAY 5

Ground Improvement in Mine Construction

Christine Linden, Frontier-Kemper Constructors, Inc.

Technical Aspects of Probing and Pre-Excavation Grouting from Inside TBMs

Werner Burger, Herrenknecht AG

Cutter Soil Mixing

Michael Arnold, BAUER Foundation Corp.

Backfill Grouting of the Bellvue Tunnels

Nate Soule, Lithos Engineering

Soil Mixing for Tunneling Applications

Roberto Lopez, Malcolm Drilling

WY AML Coal Mine Subsidence Mitigation Grouting

Mohamed Gamal, Brierley Associates

Dewatering System Installation Methods and Temporary Water Treatment System Design

Nathan Anderson, Griffin Dewatering

Presentation of Class Completion Certificates and Closing Remarks

Ray Henn, Colorado School of Mines

Presentations and days are subject to change. For the full schedule, including times and the most up-to-date information, steering committee details and travel/lodging recommendations, visit: underground.mines.edu/uggi



The logo features the word "ground" in a bold, dark blue sans-serif font. Below it, the word "under" is written in a lighter, orange sans-serif font. The "u" in "under" is significantly larger and overlaps with the "g" in "ground".

*The Colorado School of Mines Center for Underground Construction and Tunneling operates with a mission to **prepare leaders and advance knowledge** in underground construction and tunnel engineering. We host several multi-day short courses each year featuring industry-focused instruction and hands-on labs and demonstrations in state-of-the-art research facilities, offering unmatched professional development opportunities in underground construction.*

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