

Rock Excavation Case Studies Workshop

Brasília, Brazil

24 – 25 October

Monday, 24 Oct: ROCK EXCAVATION CASE STUDIES

9:00 – 9:30 a.m. Welcome and Introductions (All)

9:30 - 9:45 a.m. Workshop Objectives (Creech and DNIT)

9:45 – 10:15 a.m. Presentation 1:

The Tocantins Waterway: Introduction to Navigation in Brazil (DNIT)

10:15 – 10:30 a.m. Break

10:30 – 12:00 p.m. Presentation 2:

The Pedral do Lourenço Basic Design (DNIT)

12:00 – 2:00 p.m. Lunch

2:00 - 3:30 p.m. Panel Discussion 1: Navigation Engineering Studies

Hydrodynamic Modeling of the Tocantins River – Paraná University

Work Plan Overview of the Pedral do Lourenço Project - DTA Engenharia

São Francisco River Navigation Studies (Ryan Fosness and Calvin Creech)

3:30 - 3:45 p.m. Break

3:45 – 5:15 p.m. Panel Discussion 2: Overview of US Rock Excavation Case Studies

Rock Excavation Experience in St. Louis District – (Paul Clouse)

Rock Excavation Experience in Detroit District – (Mike Allis)

Rock Excavation Experience in Portland District – (Travis Davidson)

5:15 – 5:30 p.m. Review and Wrap-Up

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Tuesday, 25 Oct: ROCK EXCAVATION CASE STUDIES (Cont)

9:00 – 9:15 a.m. Welcome and Review

9:15 – 10:30 a.m. **Presentation 3:**

Static and Kinematic Survey Methods for Hydrographic Surveys

(Ryan Fosness)

10:30 – 10:45 a.m. Break

10:45 – 12:00 p.m. **Presentation 4:**

Approach Channels and Explosives – What's the Worst that Could Happen?

(Mike Allis)

12:00 – 2:00 p.m. Lunch

2:00 – 3:15 p.m. **Presentation 5:**

Underwater Rock Blasting and Associated Environmental Considerations

(Travis Davidson)

3:15 – 3:30 p.m. Break

3:30 – 5:00 p.m. **Presentation 6:**

St. Louis District Hydrographic Surveys for QA/QC of Rock Removal

(Paul Clouse)

5:00 – 5:30 p.m. Final Wrap-Up