

ICOLD BYPASSING AND SEDIMENT TRANSFER WORKSHOP OUTLINE

1. INTRODUCTION And Bulletin Outline (Teal)

2. SEDIMENT CONNECTIVITY (Sumi)

- Morphological Effects
- Ecological Effects

3. SEDIMENT BYPASS DESIGN (Sumi)

- Overview
- Upstream Diversion
- Tunnel Intake
- Design Discharge
- Tunnel Or Canal
- Outlet

4. Tunnel Design: Hydraulics and Sediment Transport (Auel)

- Hydraulics
- Sediment Transport on Fixed Beds
- Sediment Transport in Pressurized Flow
- Abrasion Prediction
- Abrasion Resistant Invert Materials and Tunnel Lining Design
- Invert Maintenance and Refurbishment
- Design Recommendations

5. Real Time Operation of Sediment Bypass Tunnels (Auel, Baumer)

- Monitoring
- Bypass Efficiency
- Case Studies

6. SEDIMENT TRANSFER (Detering, Jacobsen)

- Hydrosuction
- Continuous Sediment Transfer
- Calculations Of Flow of Sediment Water Mixtures In Pipelines
- Design Recommendations
- Case Studies

7. Conclusion/Summary (Teal)

8. QUESTIONS