

TAILENG Short Course 3
Geotechnical Analysis of Waste Storage Facilities
September 27-30, 2021

Day 1 (Monday, September 27; All times are MDT)

- 3:00 – 3:45 Introduction, tailings/waste storage facilities, overview of geotechnical analysis (Speaker: Scott M. Olson, University of Illinois)
- 3:45 – 4:00 Break
- 4:00 – 5:00 Modeling of tailings/waste storage facilities (Speaker: Jonathan Bray, University of California – Berkeley)
- 5:00 – 5:15 Break
- 5:15 – 6:30 Seepage analysis (Speaker: Peter Duryea, Knight Piesold) including 15 minutes for Q&A (Moderator: Scott M. Olson)

Day 2 (Tuesday, September 28; All times are MDT)

- 3:00 – 4:00 Limit equilibrium (LE) stability analysis (Speaker: Scott M. Olson)
- 4:00 – 4:15 Break
- 4:15 – 5:15 Stress-deformation (FD/FE) analysis (Speaker: Jorge Macedo, Georgia Tech)
- 5:15 – 5:30 Break
- 5:30 – 6:30 Panel discussion: Role of LE and FD/FE analyses in TSF design (Moderator: Jonathan Bray; Panelists: Jorge Macedo; Scott M. Olson; Joe Quinn, Klohn Crippen Berger)

Day 3 (Wednesday, September 29; All times are MDT)

- 3:00 – 4:00 Liquefaction hazard (Speaker: Jonathan Bray)
- 4:00 – 4:15 Break
- 4:15 – 5:15 Dam break analysis (Speaker: Omid Mohseni, Barr Engineering)
- 5:15 – 5:30 Break
- 5:30 – 6:30 Panel discussion: Key factors from LE, FD/FE, and liquefaction analyses for dam break evaluation (Moderator: Scott M. Olson; Speakers: Jonathan Bray, Omid Mohseni, Jorge Macedo)

Day 4 (Thursday, September 30; All times are MDT)

- 3:00 – 4:00 Risk analysis (David Bowles, RAC Engineers and Economists, LLC)
- 4:00 – 4:15 Break
- 4:15 – 5:15 Design considerations in geotechnical analyses (Christina Winckler, AngloAmerican)
- 5:15 – 5:30 Break
- 5:30 – 6:30 Panel discussion and closure (Moderator: Jonathan Bray; Panelists: David Bowles; Christina Winckler; Lucas de Melo, Geosyntec Consultants)

