

OVERBERG GEOSCIENTISTS GROUP

OGG Breakfast Meeting & Presentation

Thursday 5th February, 2025 - Onrus Manor Activities Hall

(Coffee 09h30, breakfast 10h00, presentation 11h00)

Geological Setting Influencing the Geotechnical Journey: tailings dams case studies & learnings from work in the nuclear power industry

Bruce Engelsman (Principal Engineer- SRK)

Bruce is a Civil Engineer with 29 years of experience in environmental and engineering studies design and implementation. He completed a BSc (Civil Eng), at the University of Cape Town in 1994, and is a Registered Professional Engineer (Pr. Eng. RSA, 980152) and Construction Project Manager (SACPCMP: D/893/2005).



He specialized in civil geotechnics, nuclear siting geotechnics, waste management (including tailings), mine closure, land contamination/remediation, and flood management risk.

His expertise includes project management of geotechnical and surface water projects, geotechnical investigations and design including onshore civil geotechnics and shallow marine geotechnics (harbours), numerical modelling (HECRAS, LeapFrog), land rehabilitation/remediation design, flooding and flood risk assessments, road design and 3-D AutoCAD design.

In addition he has experience in closure cost assessments for industrial/mining developments, waste engineering (tailings, landfill design and waste management), nuclear site licensing (geotechnical), water and geotechnical specialist studies for environmental impact assessments (EIAs), and part time lecturing (University of Cape Town).

Bruce's areas of expertise include the following:

- ❖ Mine Waste Management
 - ❖ Tailings Storage Facilities
 - ❖ Waste Rock Storage Facilities
 - ❖ Landfills and Solid Waste
 - ❖ Mining Geotechnics
 - ❖ Geotechnics for Mining Infrastructure
 - ❖ Environment and Social Responsibility
 - ❖ Nuclear Site Safety
 - ❖ Geology and Resources3D Geological modelling
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