



AUSTRALIAN GEOMECHANICS SOCIETY

VICTORIA CHAPTER

The AGS presents 3 Young Professional Engineers:

Case Study of Quarry Rehabilitation, Valley Lake, Niddrie

Presented by: Stuart Colls, Geotechnical Engineer, Golder Associates

The Valley Lake Project involved the rehabilitation of a former quarry for residential development. Prior to rehabilitation, the quarry was partially filled with stockpiles of waste rock and overburden materials. A lake had formed over the quarry base. Rehabilitation involved the removal and processing of approximately 2.4 million cubic metres of stockpiled fill for placement as engineered fill, the creation of a feature lake and stabilisation of existing quarry walls. This case study focuses on the design, construction and performance monitoring of engineered fill up to 35 m thick composed primarily of well-graded, predominantly granular fill with a maximum particle size of 600 mm.

Lessons and experiences of temporary sheet pile design

Presented by: Chris Coulson, Senior Geotechnical Engineer, Maunsell Australia

The development of in inner metropolitan sites is providing a variety of issues to geotechnical practitioners. The relocation of a subsurface stormwater drain around the perimeter of a site in Melbourne required a retaining system to protect the adjacent buildings, road reserves and underground services. Chris' presentation discusses the lessons and experiences of temporary sheet pile design from the young geotechnical engineer perspective.

An artificial intelligence examination of the influence of geological conditions and changes in climate on damage to light structures in Victoria

Presented by: Linda Osman, Research Engineer, ARRB

Damage to light structures in the state of Victoria can be caused by movements of expansive soils. The presentation will present the results of an examination of reports of increasing complaints of house damage in Victoria and particularly in the Melbourne area. The examination analyses the influence of geology and change in climate using Neural Network and Genetic Algorithm approaches and assesses their relative importance in contributing to the cause of the damage.

Wednesday, 4 July 2007

Time: Commencing at 6:00 pm (with refreshments at 5.30pm in Common Room C301)
Where: John Connell Auditorium, Engineers Australia, 21 Bedford St, North Melbourne
Cost: Free, refreshments provided

PLEASE VISIT OUR WEBSITE:

<http://www.australiangeomechanics.org/>

Attendance at this seminar contributes towards the EA's requirements for Continuing Professional Development

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