

Shotcreting in Civil Tunnels

Last Month, the East Australian Ground Control Group (EAGCG) held a two day shotcrete workshop organised with the assistance of the Australian Shotcrete Society (AuSS). The workshop provided one day of educational talks covering equipment, admixtures, mix design, application, how shotcrete works and what it does, testing and a short section on what to look at for non shotcreters. The second day provided a mix of topics by academics, tunnel designers and mining case studies as well as a panel discussion of current shotcrete issues.

This technical session provides a summary of the workshop and the main issues pertinent to civil infrastructure tunnels. The presenters and their topics are:

Des Vlietstra	Elasto Plastic Concrete and EAGCG Treasurer	Summary of current shotcrete issues
Christian Bodner	Aurecon	Shotcrete in the context of civil applications
Robert Bertuzzi	Pells Sullivan Meynink	Design issues to construct shotcrete with a 100 year design life

Technical Session – Wednesday, 21st June 2017

5:30pm – 6:00pm Assembly, light refreshments **Venue: Engineers Australia Auditorium**
 6:00pm – 7:00pm Presentation **3/8 Thomas St, Chatswood**
 7:00pm – 7:30pm Questions, Discussion & Drinks
Cost: EA and ATS Members – Complimentary Non-Members - \$30

	Des Vlietstra, Technical Consultant Elasto Plastic Concrete, EAGCG Treasurer	Des has over 35 years' experience in the mining industry in both South Africa and Australia. The last 15 years being devoted to shotcrete. He has the Chamber of Mines certificate in Rock Mechanics, is an EFNARC nozzleman examiner and is currently completing his MSc(Eng) in Advanced Concrete Technology at the University of Leeds.
	Christian Bodner, Technical Director, Transport Services, Aurecon	Christian has more than 25 years' experience in heavy civil engineering design and construction. His recent experience includes highway tunnel, small cable and sewer tunnels as well as various shaft structures. Recent projects include NorthConnex and WestConnex in Sydney and Eastlink in Melbourne. Christian also provides advice to TfNSW and RMS on major tunnelling projects including Wynyard Walk, North Strathfield Rail Underpass, the SWRL Hume Hwy Tunnels and the T2E St Helena Tunnels.
	Robert Bertuzzi, Principal Mining Engineer, Pells Sullivan Meynink	Robert has more than 30 years' experience in design and construction of both mining and tunnelling projects. Robert has worked on over 80 mining and tunnelling projects from feasibility design through to planning, implementation and remedial work. In addition to consulting, Robert also teaches rock engineering and tunnelling at University of New South Wales. Recent Projects include Sydney Metro, Northconnex and Westconnex in Sydney

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