

Thursday 27th March, G51, Ground Floor, Old Main Building, Kensington campus		
9:00	Professor Ros Taplin (ACSMP, UNSW Australia)	Welcome & Challenges
9:15	Professor Lee Barbour (University of Saskatchewan, Canada)	Geological weighing lysimeters - applications to mine hydrology
10:10	Dr Wendy Timms (NCGRT, ACSMP, UNSW Australia)	Tight aquitards & leaky aquitards
10:30	Morning Tea	
11:00	Professor Ian Acworth (CWI, WRL, UNSW Australia)	Spectral analysis of gravity data to quantify subsurface moisture changes
11:20	Richard Crane (NCGRT, CWI, WRL, UNSW Australia)	Characterising the hydraulic conductivity and shrink-swell properties of natural and engineered clay-bearing materials using centrifuge permeameter techniques.
11:40	Dr Simit Raval (ACSMP, UNSW Australia)	Remote sensing techniques for detecting vertical and horizontal displacements
12:00	Lunch and AVIE demonstrations	
1:00	Dr Ken Mills (Strata Control Technology)	Observations of ground disturbance above longwall panels and implications for groundwater
1:50	Mahdi Zoorabadi (UNSW Mining Engineering, UNSW Australia)	Prediction of rock mass permeability
2:10	Michelle Irvine (NCGRT, Flinders University)	Using porewater chemistry profiles to infer vertical fluxes through a regional aquitard
2:30	Afternoon Tea	
2:50	Dr Daan Herckenrath (NCGRT, Flinders University)	Mitigating up-scaling and dual-phase flow errors in regional CSG groundwater impact simulations
3:10	Katarina David (NCGRT, School of Mining Engineering, UNSW Australia)	Response of overburden (constrained zone) above longwall mines - hydrogeology, geomechanics and isotope tracer techniques
3:30	Associate Professor Bryce Kelly (CWI, NCGRT, School of Biological, Earth and Environmental Sciences, UNSW Australia)	Hydraulic connectivity and architecture in sedimentary basins
4:30	Canapes and Drinks, JGs Café, Dalton Building	

Friday 28th March		
9:00	Summary of Day 1, Overview of WRL tour	
9:10	Dr Steve Bouzalakos (NCGRT, ACSMP, UNSW Australia)	Stress-dependent geotechnical behaviour of aquitards
9:30	Professor Lee Barbour (University of Saskatchewan, Canada)	Evaluation of soil-atmosphere-vegetation interactions for mine closure applications
10:30	Morning Tea	
11:00	Dr Furqan Hussain (CO2CRC, School of Petroleum Engineering, UNSW Australia)	Simulating impacts of geological CO ₂ storage on groundwater flow
11:20	Dr Helen Rutledge (UNSW Analytical Centre, NCGRT)	Selected applications of iTRAX core scanner and laser ablation ICPMS
11:40	Dr Wendy Timms (NCGRT, ACSMP, UNSW Australia)	Aquitard permeability at various scales: in situ, lab and geotechnical centrifuge technology
12:00	Mahdi Zoorabadi (UNSW Mining Engineering, UNSW Australia)	New Insights in Field Tests to Estimate the Hydraulic Conductivity of Jointed Rocks
12:30	Gate 14, Barker Street, packed lunch on bus to Manly Vale campus	
1:30-3:00	Tour UNSW WRL Geotechnical centrifuge & labs	
3:00	Bus departs WRL to airport, then to UNSW Kensington	