

August 19th

NZGA Seminar

Monitoring Developed Geothermal Resources

	9:00	Registration - Coffee		
	9:15	Welcome	Colin Harvey (NZGA)	
	9:20	Maori Welcome	Brian Jones (Tuaropaki Trust)	
	9:30	Overview	Brian Carey (GNS)	Purpose of monitoring, Impact of development on deep resource and surrounding/interconnected aquifers, Changes with time, Recharge.
0:20	9:50	RMA	Katherine Luketina (EW)	Surface environment, Sustainability, Regional Council responsibilities
0:20	10:10	Operators Perspective	Mike Dunstall (Contact)	Managing impacts in developed fields
0:20	10:30	Break		
0:20	10:50	Ground Deformation		
0:20	11:10	Groundwater		
0:20	11:30	Surface Features & IR	GNS - Chris Bromley, Rob Reeves, Erin Wallen, Trevor Hunt, Ed Mroczek.	Regional & long term changes and how induced changes are superimposed on these. What are the monitoring tools - surface deformation, gravity, seismic, geochemistry, groundwater etc
0:20	11:50	Micro-gravity		
0:20	12:10	Micro-seismic		
0:20	12:30	Geochemistry		
0:30	13:00	Lunch		
1:00	14:00	Reservoir/Well Logging	Century	Well logging equipment and methods
0:20	14:20	Changes in the Deep Reservoir	Paul Bixley	Subsurface data interpretation, Reservoir depletion/cooling, Production data
0:20	14:40	Overall Integration of Monitoring	Allan Clotworthy	Monitoring: Using the tools. Monitoring programs
0:20	15:00	Break		
0:20	15:20	Case Study	MRP	Rotokawa
0:20	15:40	Case Study	MRP	Mokai
0:20	16:00	Case Study	Contact	Wairakei
0:20	16:20	Wrap up	Brian Carey	
1:40	18:00	Drinks		
0:30	18:30			
0:30	19:00	Dinner		
19:45	19:45	Speaker	Jim Lawless	