



# NZGW 2014 Programme

Monday 24 November 2014

8.00am	Registration Opens		
8.30am	Housekeeping		
8.40am	Welcome & Opening		
9.20am	<b>Keynote 1: Dr Juliet Newson -</b>		
10.00am	Morning Tea		
	Technical Session 1: Stream A. Geothermal Engineering - Drilling And Well Testing	Technical Session 1: Stream B. Geothermal Geophysics	Technical Session 1: Stream C Direct Use
10.30am	104: Katie McLean - Applying The Pressure Derivative Method To Identify Geothermal Well Responses	12: Supri Soengkono – 3D Imaging Of High Resolution Airborne Magnetic Data Over Mokai Geothermal Field, New Zealand	22: Kevin McGrath - Geothermal Under Street Heating System
10.50am	107: Fabian Hanik - Initiating Geothermal Well Discharge With Coiled Tubing	25: Robert Reeves - Mapping Thermal Features Of The Rotorua Geothermal Field Using Aerial Thermal Infrared Photography: 1988 vs 2014	47: Shanmugasundaram Manikandan - Direct Application Of Geothermal Resources In India: A Conventional Geothermal Speciality
11.10am	127: Alexandre Bacquet - Geothermal Wells Discharge Initiation Using Air Lift And Air Compression: Case Study With And Without Downflow In The Wellbore	53: Edward Bertrand - 3-D Resistivity Inversion Models Of MT Array Data In The Taupo Volcanic Zone, New Zealand	62: Riostantieka Mayandari Shoedarto - Pre Feasibility Study For Agricultural Drying Projects In Buru Island, Maluku
11.30am	16: John Gilliland - Broaching: An Effective Method Of Well Intervention For Calcite Scale Removal	30: Wiebke Heise – 2-D Magnetotelluric Imaging Of The Rotorua And Waimangu Geothermal Fields	
11.50am	19: Sadiq Zarrouk - Modelling Pre And Post Acid Stimulation Of Well T4, Mt. Apo Geothermal Field, Philippines	18: Sayogi Sudaraman - History Of Geothermal Exploration In Indonesia (1970-2010)	
12.10pm	Lunch		
1.10pm	<b>Keynote 2: Prof Rosalind Archer - Petroleum Reservoir Modelling – Scope for Applications of New Tools and Insights in Geothermal?</b>		



## NZGW 2014 Programme

	Technical Session 2: Stream A. Geothermal Engineering - Reservoir Modelling	Technical Session 2: Stream B Geothermal Engineering - Drilling And Well Testing	Technical Session 2: Stream C. Direct Use And Environmental Issues
1.50pm	45: Ariel Vidal - Bayesian Emulation Of Geothermal Numerical Models: A Synthetic Reservoir Case-Study	98: Neil Milestone - Interactions Of The Cement With The Formation In Geothermal Wells	17: Marnel Arnold R. Ratio - A Case Study Of Impacts, Risks And Vulnerabilities Of The Local Community Of Makiling-Banahaw Geothermal Complex, Philippines
2.10pm	58: Elvar Bjarkason - Efficient Sensitivity Computations For Automatic Geothermal Model Calibration	125: James Nogara - Evaluation Of Corrosion Resistant Alloys As Construction Material For Acidic Geothermal Wells	87: Anya Seward - Modern Heat Flow Estimates Of Whakarewarewa Geothermal Valley, Rotorua
2.30pm	70: Jaime Quinao – A Review Of The Volumetric Stored-Heat Resource Assessment: One Method, Different Results		27: Tony Hurst – Variations Of The Inferno Crater Lake Cycles, Insights From The New Data
2.50pm	Afternoon Tea		
3.20pm	<b>Keynote 3: Dr David Dempsey - Recent Advances In Thermo-Hydro-Mechanical Modelling Of Cold Stimulation And Triggered Earthquakes</b>		
	Technical Session 3: Stream A. Geothermal Engineering - Reservoir Modelling	Technical Session 3: Stream B. Geothermal Engineering - Drilling And Well Testing	Technical Session 3: Stream C
4.00pm	86: Justin Pogacnik - A Damage Mechanics Approach To Modeling Failure In Greywacke Rock	111: Daniel Wilson - Exploration, Suspension, Perforation, Extraction. The WK265 Success Story	
4.20pm	74: Wesley Koros - Coupled One-Dimensional Subsidence Modelling Using Elastic-Plastic Rheology	130: Ralph Winmill - Contact Energy Drilling Campaign 2005-2013 - Results, Learnings And Events	
4.40pm	11: Warwick Kissling - A Testbed For A New-Generation Geothermal Simulator		
5.00pm - 7.00pm	Workshop Reception And Student Posters		



# NZGW 2014 Programme

Tuesday 25 November 2014

8.50am	Housekeeping		
9.00am	<b>Keynote 4: Eric Sonnenthal - Toughreact: A Numerical Laboratory For Investigating Multiphase Flow And Reactive Transport In Geothermal Systems</b>		
	Technical Session 4: Stream A. Geothermal Geochemistry	Technical Session 4: Stream B. Geothermal Engineering - Reservoir Modelling	Technical Session 4: Stream C Geothermal Engineering – ORC Technology
9.40am	44: Etienne Buscarlet - Geochemical Modelling Of An Injection Well	36: Yuuka Kawabuchi – A Reservoir Monitoring And Modelling Using Repeat Microgravity Measurements At Ohaaki Geothermal Field	105: Denny Budisulistyo – The Effect of Heat Exchanger Design On The Return On Investment Of A Geothermal Power Plant
10.00am	114: Logan Muller - Online Calcite Removal, Silica Prevention And Removal, NACE Test And Calcium Acrylate Prevention: An Update On R&D Progress	92: Emily Clearwater – Recent Advances In Modelling The Ohaaki Geothermal Field	67: Michael Southon - Commissioning, Initial Testing And Results From An Experimental One Kilowatt Organic Rankine Cycle
10.20am	Morning Tea		
	Technical Session 5: Stream A. Geothermal Geochemistry	Technical Session 5: Stream B. Geothermal Engineering - Reservoir Modelling	Technical Session 5: Stream C Geothermal Engineering – ORC Technology
10.50am	28: Agnes Mazot – Detecting Diffuse CO2 Emissions Along The Ngapouri Fault Using A Turnable Diode Laser	43: Yohei Tateishi - Numerical Simulation Of Evolution Of Steam-Water Two-Phase Zone In A Fractured Geothermal Reservoir By Considering Capillary Pressure Effects	69: Leighton Taylor - Impact Of Organic Rankine Cycle Working Fluid Selection On Heat Exchanger Design And Cost
11.10am	83: Mark Harvey - A Review Of Approaches To Distinguish Between Biological And Geothermal Soil Diffuse CO2 Flux	94: Emily Clearwater - A Numerical Method For Tracking A Moving Water-Table	37: Matthew Proctor – Optimisation Of A Fin Fan Condenser In A Geothermal ORC Plant
11.30am	100: Norio Yanagisawa - Isotope Behavior Of Several Hot Spring And Geothermal Field For Binary System In Japan	54: Eylem Kaya – NCG-NACL Reservoir Modelling In Waiotapu-Waikite-Reporoa Geothermal Areas	71: Choon Seng Wong – Energy and Exergy Analysis Of An Air-Cooled Geothermal Power Plant With Fixed Nozzle Turbine In Subsonic Expansion and Supersonic Expansion Via CFD Analysis
11.50am	129: Stuart Simmons - Assessment Of Fluid-Mineral Equilibria In The Coso Geothermal Reservoir	91: Michael O'Sullivan - An Update On Numerical Modelling Of The Wairakei-Tauhara Geothermal System	
12.10pm	Lunch		



## NZGW 2014 Programme

1.10pm	<b>Keynote 5: Peter Rose - Recent Developments In The Use Of Tracers And Tracer-Testing Techniques For Geothermal Applications</b>		
	Technical Session 6: Stream A. Geothermal Engineering - Reservoir Modelling	Technical Session 6: Stream B Geothermal Geochemistry	
1.50pm	63: Graham Weir - Analysing Tracer Returns From Geothermal Reservoirs	82: Kevin Brown - Unusual Arsenic Sulfide Scaling In A Binary Test Plant	
2.10pm	61: Julian McDowell - Discrete Fracture Embedding To Match Injection Returns In A Single Porosity Model	32: Yaroslav Dashkevich - Temperature Stability Of 1,5-Naphthalene Disulfonate At Simulated Geothermal Conditions	
2.30pm	84: Thomas Ratouis - Modelling Of The Rotorua Geothermal Field Including Chemistry	79: Mark Harvey - Unmanned Aerial Vehicles (UAV) For Cost Effective Aerial Orthophotos And Digital Elevation Models (DSM)	
2.50pm	Afternoon Tea		
3.20pm	<b>Keynote 6: Dr Mike Dunstall -</b>		
	Technical Session 7: Stream A. Geothermal Engineering - Production And Management	Technical Session 7: Stream B Geothermal Geophysics	
4.00pm	66: Abbie Dean - Effects Of Reinjection At Wairakei Geothermal Field	46: Carolin Boese – Network Performance And Seismic Noise Characterisation In The Wairakei Geothermal Field	
4.20pm	101: Ryuichi Itoi - Effects Of Low Temperature Water Inflow Into Wellbore At Shallow Feedzone Of Production Well On Steam-Water Two-Phase Flow In Well	113: Alan Lucas - Fluid Influenced Shear Wave Splitting Inversion At Puna, Hawaii	
4.40pm	109: Christine Siega - Quantifying The Effect Of Temperature On Well Injectivity	64: Peter Leary - Physics-Based Sampling Of Lognormal Reservoir Well Production/Productivity Distributions	
5.00pm	NZGA Annual General Meeting		
6.30pm	Workshop Dinner		



# NZGW 2014 Programme

Wednesday 26 November 2014

8.50am	Housekeeping	
9.00am	<b>Keynote 7: Chris Bromley - New Zealand Geothermal Progress: Celebrating Success Through The Test Of Time</b>	
	Technical Session 8: Stream A Geothermal Geology	Technical Session 8: Stream B Engineering - ORC Technology
9.40am	23: Bridget Lynne – A New Investigative Approach To Understanding Fluid Flow Migration Pathways Within The Shallow Subsurface At Orakei Korako, New Zealand.	106: Logan Muller - Stibnite Control In ORMAT Binary Units: Prevention And Online Cleaning.
10.00am	15: Philipp Mielke - Predicting The Effect Of Hydrothermal Alteration On Rock Properties	96: Pavlo Kokhanenko – Experimental And Theoretical Observations Of Scaling Rate And Implications For Anti-Scaling Practises
10.20am	Morning Tea	
	Technical Session 9: Stream A. Geothermal Geology	Technical Session 9: Stream B Engineering - Production And Management
10.50am	78: Mark Simpson - Insight Into The 2005 Hydrothermal Eruption At South Orakonui, Ngatamariki Geothermal Field, New Zealand From Calcite Microthermometry	10: Kim Harwood - Prediction Of Geothermal Two-Phase Silencer Discharge Sound Level
11.10am	33: Hamish Cattell - Huka Group Geological Characterisation And Interpretation, Wairakei-Tauhara Geothermal Field, Taupo	116: David Mendive - Additional Wellhead Units At Ulumbu, Indonesia
11.30am	117: Kate Mauriohooho - Hydrothermal Alteration And Whole Rock Geochemistry Of The Tauhara Geothermal Field: Traditional Versus Rapid Techniques	39: Mary Helliwell - Assessing Cost Of Pressure Drop From A Geothermal Project Lifecycle Perspective
11.50am	34: Angela Prieto - Rock Typing In Geothermal Reservoirs, Challenging The Complexity	29: Aaron Hochwimmer - A Review Of Safety By Design Processes For The Engineering Of Geothermal Facilities In New Zealand
12.10pm		123: Boaz Habib - Advances In Above Ground Geothermal And Allied Technologies (AGGAT)
12.30pm	Lunch	
	NZGA Industry Updates	
1.30pm	Contact Energy – Mike Dunstall	



## NZGW 2014 Programme

1.40pm	Mighty River Power – Spence McClintock
1.50pm	Eastland Group – Gavin Murphy
2.00pm	Ngati Tuwharetoa Geothermal Assets – Pat Brown
2.10pm	Tauhara North No 2 Trust - Kevin McLoughlin
2.20	Waikato Regional Council – Jim McLeod/Katherine Luketina
2.30pm	Bay Of Plenty Regional Council – Bridget Robson
2.40pm	EECA - Peter Van Meer - Christchurch Heat Pump Insights
2.50pm	MB Century – Marcel Manders
3.00pm	Afternoon Tea
	<b>NZGA Industry Updates</b>
3.30pm	AECOM – Warwick Cutfield
3.40pm	Jacobs – Jane Brotheridge
3.50pm	PB New Zealand – Nigel Matuschka
4.00pm	Geothermal New Zealand – Mike Allen
4.10pm	GNS Science – Kevin Faure
4.20pm	University Of Auckland – Sadiq Zarrouk
4.30pm	WGC 2015 Promotion – Jim Lawless
4.40pm	Paper Awards And Closure - Sadiq Zarrouk
5.00pm	Finish