



NZGW 2012 Programme

MONDAY 19 NOVEMBER 2012

8.00am	Registration Opens Venue: Lower NZI Foyer		
8.30am	Housekeeping Venue: NZI 1&2		
8.40am	Welcome & Opening Venue: NZI 1&2		
9.20am	Keynote 1: Kevin Brown - SOME CURRENT CHALLENGES IN PRODUCTION GEOCHEMISTRY Venue: NZI 1&2		
10.00am	Morning tea Venue: Lower NZI Foyer		
	Technical Session 1: Stream A Geochemistry Venue: NZI 1&2	Technical Session 1: Stream B Structural Geology and Geomechanics Venue: NZI 3	Technical Session 1: Stream C Engineering - Production and Management Venue: NZI 5
10.30am	87: THE SOLUBILITY OF AMORPHOUS ALUMINOUS SILICA: IMPLICATIONS FOR SCALING IN GEOTHERMAL POWER STATIONS Julia Bjorke	56: FORMATION ASSESSMENT IN GEOTHERMAL USING WIRELINE TOOLS – APPLICATION AND EARLY RESULTS FROM THE NGATAMARIKI GEOTHERMAL FIELD, NEW ZEALAND Irene Wallis	108: SALAK MASTER PLANNING Kevin de Groot
10.50am	69: IN SITU INFRARED SPECTROSCOPY AS A TOOL TO DECIPHER MONOMER AND POLYMER DEPOSITION OF SILICA SCALE Peter James Swedlund	22: PHYSICAL AND MECHANICAL PROPERTIES OF THE ROTOKAWA ANDESITE FROM PRODUCTION WELLS RK 27_L2, RK 28 AND RK 30 Paul Siratovich	114: TE MIHI GEOTHERMAL POWER PROJECT – FROM INCEPTION TO EXECUTION Roger Hudson
11.10am	23: THE THERMAL STABILITY OF THE NAPHTHALENE SULFONIC AND NAPHTHALENE DISULFONIC ACIDS UNDER GEOTHERMAL CONDITIONS: EXPERIMENTAL RESULTS AND A FIELD-BASED EXAMPLE Bruce Mountain	80: QUANTIFYING THE STRESS DISTRIBUTION AT THE ROTOKAWA GEOTHERMAL FIELD, NEW ZEALAND Jonathan Davidson	71: NEW FOCUS ON WELLHEAD POWER GENERATION David L. Mendive
11.30am	45: EXPERIMENTAL STUDY OF STIBNITE SOLUBILITY IN AQUEOUS SULFIDE SOLUTIONS FROM 25 TO 90°C Nellie Olsen	72: DEVELOPMENT OF THE WHAKATANE GRABEN WITH A FOCUS ON STRUCTURAL BLOCKS BETWEEN MAKETU AND WHAKATANE Christopher Scholz	15: CFD MODELLING OF TWO-PHASE FLOW INSIDE GEOTHERMAL STEAM WATER SEPARATORS Sadiq Zarrouk



NZGW 2012 Programme

11.50am	<p>90: THE PREDICTED FATE OF CO2 INJECTED INTO BASALTIC ROCK Helgi Arnar Alfredsson</p>	<p>118: THE EFFECTS OF HYDROTHERMAL ALTERATION ON MECHANICAL ROCK PROPERTIES OF THE ANDESITE BRECCIA AND TAHORAKURI FORMATION FROM THE NGATAMARIKI GEOTHERMAL FIELD, NEW ZEALAND AND EMPIRICAL RELATIONS BETWEEN ROCK STRENGTH AND PHYSICAL PROPERTIES Latasha Wyring</p>	<p>31: THE PLACE FOR COMPUTATIONAL FLUID DYNAMICS MODELS IN THE OPTIMISATION OF GEOTHERMAL CUTTINGS PONDS Adam Tokelove</p>
12.10pm	<p>Lunch Venue: Lower NZI Foyer</p>		
1.10pm	<p>Keynote 2: Joe Moore – THE EVOLUTION OF A PARTIALLY VAPOR-DOMINATED GEOTHERMAL SYSTEM AT KARAHA-TELAGA BODAS, INDONESIA: INSIGHTS FROM MINERAL DISTRIBUTIONS AND FLUID INCLUSION MEASUREMENTS Venue: NZI 1&2</p>		
	<p>Technical Session 2: Stream A Geology Venue: NZI 1&2</p>	<p>Technical Session 2: Stream B Structural Geology and Geomechanics Venue: NZI 3</p>	<p>Technical Session 2: Stream C Engineering - Production and Management Venue: NZI 5</p>
1.50pm	<p>30: U-PB DATING OF ZIRCON IN HYDROTHERMALLY ALTERED ROCKS AS A CORRELATION TOOL: A CASE STUDY FROM THE KAWERAU GEOTHERMAL FIELD, NEW ZEALAND Sarah Milicich</p>	<p>68: STRUCTURAL AND TECTONIC CONTROLS OF GEOTHERMAL ACTIVITY IN THE BASIN AND RANGE PROVINCE, WESTERN USA James Faulds</p>	<p>97: EFFICIENCY OF GEOTHERMAL POWER PLANTS: A WORLDWIDE REVIEW Sadiq Zarrouk</p>
2.10pm	<p>89: PETROLOGY AND HYDROTHERMAL ALTERATION OF THE SPA ANDESITE FROM THE WAIRAKEI-TAUHARA GEOTHERMAL SYSTEM, TAUPO VOLCANIC ZONE, NEW ZEALAND Fabian Sepulveda</p>	<p>55: TECTONIC CONTROLS ON HYDROTHERMAL FLUID FLOW IN A RIFTING AND MIGRATING ARC, TAUPO VOLCANIC ZONE, NEW ZEALAND Julie Rowland</p>	<p>42: BIOLOGICAL CONTROL OF COOLING WATER IN GEOTHERMAL POWER GENERATION Ian Richardson</p>
2.30pm	<p>16: A COMPARISON OF THE MINERALOGY AND MORPHOLOGY OF TRAVERTINE FROM THE USA AND NEW ZEALAND Bridget Lynne</p>	<p>73: STATISTICAL CORRECTIONS OF FRACTURE SAMPLING BIAS IN BOREHOLES FROM ACOUSTIC TELEVIEWER LOGS Cecile Massiot</p>	<p>112: CHEMICAL REACTIONS IN GEOTHERMAL CEMENTS Neil Milestone</p>
2.50pm	<p>Afternoon tea Venue: Lower NZI Foyer</p>		
3.20pm	<p>Keynote 3: Ian Johnston – GEOTHERMAL ENERGY USING GROUND SOURCE HEAT PUMPS</p>		



NZGW 2012 Programme

Venue: NZI 1&2			
	Technical Session 3: Stream A Direct Use Venue: NZI 1&2	Technical Session 3: Stream B Geochemistry Venue: NZI 3	Technical Session 3: Stream C Engineering - Production and Management Venue: NZI 5
4.00pm	96: THE RISE AND RISE OF GEOTHERMAL HEAT PUMPS IN NEW ZEALAND Brian Carey	10: SOIL CO2 EMISSIONS: A PROXY FOR HEAT AND MASS FLOW ASSESSMENT, ROTOKAWA, NEW ZEALAND Simon Bloomberg	76: VISUALISATION OF CHANGING RESERVOIR CONDITIONS AT WAIRAKEI Abbie Dean
4.20pm	54: MODELLING THERMAL INTERFERENCE AND IMPACTS FOR GROUND SOURCE HEATING AND COOLING SYSTEMS Zeb Etheridge	7: GEOCHEMISTRY MONITORING DURING DRILLING IN WAYANG WINDU FIELD, INDONESIA Dwiyoarani Malik	77: WAIRAKEI-TAUHARA PRESSURE REGIME UPDATE Sophie Milloy
4.40pm	86: SOCIETIAL ACCEPTANCE OF GROUND-SOURCE HEAT INNOVATIONS FOR RURAL MĀORI COMMUNITIES WITH THE EXAMPLE OF NGATI RANGIWEWEHI Dianne Bradshaw	57: NGATAMARIKI TEST RIG Simon Addison	21: HEAT LOSS FROM HIGH TEMPERATURE PONDS Andy Bloomer
5.00pm - 7.00pm	NZTE Workshop Reception and Student Posters Venue: Lower NZI Foyer		



NZGW 2012 Programme

TUESDAY 20 NOVEMBER 2012			
8.50am	Housekeeping Venue: NZI 1&2		
9.00am	Keynote 4: Guðmundur Ómar Friðleifsson - IDDP – APPROACHING THE SUPERCRITICAL Venue: NZI 1&2		
	Technical Session 4: Stream A Drilling and Exploration Venue: NZI 1&2	Technical Session 4: Stream B Resources and Environmental Issues Venue: NZI 3	
9.40am	58: SUCCESS OF MULTIPLE-LEG WELL COMPLETIONS AT THE SAN JACINTO-TIZATE GEOTHERMAL FIELD, NICARAGUA Ken Mackenzie	9: GEOTHERMAL INDUCED SEISMICITY - RISKS AND REWARDS Chris Bromley	
10.00am	62: DRILLING CONFIRMATION OF THE CASITA INDICATED GEOTHERMAL RESOURCE, NICARAGUA Phil White	75: THE ROLE OF PEER REVIEW PANELS IN THE MANAGEMENT OF THE WAIKATO GEOTHERMAL RESOURCE Jim McLeod	
10.20am	Morning Tea Venue: Lower NZI Foyer		
	Technical Session 5: Stream A Engineering - Production and Management Venue: NZI 1&2	Technical Session 5: Stream B TVZ Venue: NZI 3	Technical Session 5: Stream C Resources and Environmental Issues Venue: NZI 5
10.50am	48: SCALE AND CORROSION OF A KALINA POWER GENERATION SYSTEM USING HOT SPRING WATER Norio Yanagisawa	6: IMAGING UPPER-CRUSTAL CONVECTION PLUMES BENEATH THE TAUPO VOLCANIC ZONE, NEW ZEALAND Edward Bertrand	33: LOW ENTHALPY GEOTHERMAL RESOURCES - MIRANDA KAIUAU, NEW ZEALAND Katherine Luketina
11.10am	13: HYDRODYNAMICS AND ELECTROCHEMISTRY OF SILICA SCALING Mark Jermy	32: GROUNDWATER RECHARGE TO GEOTHERMAL SYSTEMS IN THE TAUPO VOLCANIC ZONE ASSESSED WITH WATER BUDGETS AND THREE-DIMENSIONAL GEOLOGICAL MODELS Paul White	92: EARTH ENERGY SYSTEMS: ENVIRONMENTAL EFFECTS OF DIRECT USE OF GEOTHERMAL ENERGY RESOURCES Ian Boothroyd
11.30am	63: BINARY PLANT CAUSTIC DOSING TEST RIG DEVELOPMENT Evan Erstich	19: MANGATETE: EVOLUTION OF A PALEO-HYDROTHERMAL SYSTEM, TAUPO VOLCANIC ZONE (TVZ) Bryan Drake	119: DEVELOPING A GUIDELINE TO MAP, DESCRIBE AND CATALOGUE SURFACE GEOTHERMAL FEATURES Brad Scott



NZGW 2012 Programme

11.50am	49: PREVENTIVE METHODS FOR SCALING AND CORROSION IN GEOTHERMAL FIELDS Baran Kaypakoglu	8: VOLATILE TRANSFER FROM MAGMA SOURCES IN THE TAUPO VOLCANIC ZONE: A QUARTZ-HOSTED MELT INCLUSION STUDY IN RHYOLITES Florence Bégué	104: GEOTHERMAL ROYALTIES: AN ECONOMIC SOLUTION (WORKING PAPER) Sam Malafeh
12.10pm	Lunch Venue: Lower NZI Foyer		
1.10pm	Keynote 5: Brian Carey - WATT? A GEOHEAT STRATEGY FOR NEW ZEALAND Venue: NZI 1&2		
	Technical Session 6: Stream A Direct Use Venue: NZI 1&2		Technical Session 6: Stream C Environmental Issues Venue: NZI 5
1.50pm	111: DIRECT GEOTHERMAL ENERGY DEMONSTRATION PROJECTS FOR VICTORIA, AUSTRALIA Ian Johnston		52: ECOLOGICAL ASSESSMENT AND SUSTAINABLE MANAGEMENT OF GEOTHERMAL VEGETATION IN THE WAIKATO REGION, NEW ZEALAND Sarah Beadel
2.10pm	36: LOW ENTHALPY ABOVE-GROUND GEOTHERMAL & ALLIED TECHNOLOGIES (AGGAT) – A RESEARCH AGENDA Boaz Habib		121: THE 1000 PROJECT: A WORLD-FIRST MICROBIAL BIOINVENTORY OF NEW ZEALAND'S GEOTHERMAL ECOSYSTEMS Matthew Stott
2.30pm	74: STUDY OF THE UTILIZATION OF FLUID FROM A CONDENSATE POT FOR ESSENTIAL OIL EXTRACTION Dewi Permatasari		93: SUSTAINING GEOTHERMAL ECOSYSTEMS: THRESHOLDS OF CHANGE IN GEOTHERMAL ECOSYSTEMS Ian Boothroyd
2.50pm	Afternoon Tea Venue: Lower NZI Foyer		
	Technical Session 7: Stream A Geology Venue: NZI 1&2	Technical Session 7: Stream B Reservoir Modelling Venue: NZI 3	Geothermal New Zealand Meeting Venue: NZI 5
3.20pm	50: STRATIGRAPHY AND HYDROTHERMAL ALTERATION ENCOUNTERED BY MONITOR WELLS COMPLETED AT NGATAMARIKI AND ORAKEI KORAKO IN 2011 Catherine Boseley	61: FUTURE DIRECTIONS IN GEOTHERMAL MODELLING Michael O'Sullivan	



NZGW 2012 Programme

3.40pm	11: INFRARED IMAGING IN GEOTHERMAL ENVIRONMENTS IN NEW ZEALAND Ruben Yague Jaen	102: MODELLING PRODUCTION FROM SUPERCRITICAL GEOTHERMAL RESERVOIRS Sadiq Zarrouk	
4.00pm	12: GROUND PENETRATING RADAR AND ITS SUCCESSFUL APPLICATION IN IMAGING USA AND NEW ZEALAND SILICEOUS SINTERS Cheng Sim	59: MODELLING DEEP PRODUCTION AND INJECTION USING A REGIONAL SCALE MODEL OF A TVZ-LIKE GEOTHERMAL FIELD Warwick Kissling	
4.20pm	35: THE GEOTHERMAL WORLD VIDEOGAME: AN AUTHENTIC, IMMERSIVE VIDEOGAME USED TO TEACH OBSERVATION SKILLS NEEDED FOR EXPLORATION Jacqueline Dohaney	37: AN EMPIRICAL BASIS FOR EGS FLOW SIMULATION MECHANICS Peter Leary	
4.40pm	26: GEOLOGICAL EVALUATION OF THE WARINGIN FORMATION AS THE HOST OF A VAPOR-DOMINATED GEOTHERMAL RESERVOIR AT THE WAYANG WINDU GEOTHERMAL FIELD Yuris Ramadhan	39: DUAL POROSITY MODELS OF NEAR-WELL BEHAVIOUR OF A DISCHARGING WELL Jaime Jemuel Austria	
5.00pm	NZGA Annual General Meeting Venue: NZI 3		
7.00pm	Workshop Dinner – Viaduct Events Centre		



NZGW 2012 Programme

WEDNESDAY 21 NOVEMBER 2012

8.50am	Housekeeping Venue: NZI 1&2	
9.00am	Keynote 6: Paul Atkinson – PROVED GEOTHERMAL RESERVES – FRAMEWORK AND METHODOLOGY Venue: NZI 1&2	
	Technical Session 8: Stream A Geothermal Resources Venue: NZI 1&2	Technical Session 8: Stream B Engineering - Production and Management Venue: NZI 3
9.40am	94: RANKING OF INDONESIAN GEOTHERMAL PROSPECTS (KNOWN RESERVES) Manfred Hochstein	105: MODELLING THE SURFACE PLANT: A USERS PERSEPCTIVE OF USING NUMBERS TO PREDICT GENERATION Keith Wigram
10.00am	65: GRAVITY MODELLING OF REPOROA BASIN, EASTERN TAUPO VOLCANIC ZONE (TVZ), NEW ZEALAND Supri Soengkono	83: CORRELATION OF RESERVOIR MONITORING AND CONTINUOUS PRODUCTION DATA TO INTERPRET UNEXPECTED WELL BEHAVIOR IN ROTOKAWA Jaime Jose Quinao
10.20am	Morning Tea Venue: Lower NZI Foyer	
	Technical Session 9: Stream A Resources and Environmental issues Venue: NZI 1&2	Technical Session 9: Stream B Geology , Structural Geology and Geomechanics Venue: NZI 3
10.50am	GEOTHERMAL RESOURCES IN RWANDA Hon. Emma Francoise Isumbingabo (Rwanda's Minister of State in charge of energy and water)	25: GEOSCIENTIFIC SURVEY RESULTS FROM THE JAILOLO GEOTHERMAL FIELD, NORTHERN HALMAHERA, INDONESIA Yuris Ramadhan
11.10am	29: GEOTHERMAL RESOURCES DEVELOPMENT IN TIBET, CHINA Keyan Zheng	40: PHYSICAL / COMPUTATIONAL FRAMEWORK FOR EGS IN SITU FRACTURE SIMULATION Justin Pogacnik
11.30am	78: A PRE-FEASIBILITY STUDY FOR ENERGY RECOVERY FROM GEOTHERMAL PROSPECTS IN SCOTLAND Aaron Hochwimmer	34: ON THE EXPERIMENTAL SIMULATION OF EGS RESERVOIRS USING A HEATED TRUE-TRIAXIAL APPARATUS Luke Frash
11.50am	27: DEVELOPMENT IMPACT ANALYSIS OF JAILOLO GEOTHERMAL FIELD, WEST HALMAHERA, INDONESIA Rachma Nilamsuri	



NZGW 2012 Programme

12.10pm	Lunch Venue: Lower NZI Foyer
	NZGA Industry Updates Venue: NZI 1&2
1.10pm	Mighty River Power
1.30pm	Contact Energy
1.50pm	GNS Science
2.10pm	The University of Auckland
2.30pm	Geothermal New Zealand
2.50pm	Afternoon Tea Venue: Lower NZI Foyer
	NZGA Industry Updates Venue: NZI 1&2
3.20pm	Eastland Group
3.40pm	Waikato Regional Council
4.00pm	Bay of Plenty Regional Council
4.20pm	PB Power
4.40pm	SKM
5.00pm	Finish