

NZGW 2017 Programme

Wednesday 22 November 2017

08:35	Welcome and Opening Room: Mokoia Room			
09:20	Keynote 1 - Rupert Sutherland Room: Mokoia Room			
10:00	Morning Tea			
	Session 1.1: Modelling Room: Mokoia Room	Session 1.2: Geology Room: Millennium 5	Session 1.3: Environment Room: Millenium 1	Session 1.4: Other Themes Room: Millenium 2
10:20	3: TARGETING LOCALISED UPWELLINGS WITH A NEW MULTIPHYSICS SIMULATOR (Tung)	8: THE HEYUAN FAULT, SOUTH CHINA: A DEEP GEOTHERMAL PROSPECT – THE ROLE OF FAULT INTERSECTION RELATIONSHIPS AND FLUID FLOW (Tannock)	30: ABSTRACT 1: ROTORUA GEOTHERMAL SYSTEM: CURRENT AND FUTURE MANAGEMENT (Doorman)	28: GEOTHERMAL TOURISM IN NZ: BORROWING FROM INTERNATIONAL EXAMPLES (Blair)
10:40	4: NEXT GENERATION RESERVOIR ENGINEERING FOR A GEOTHERMAL FUTURE (Regenauer-lieb)	11: POST-DEPOSITIONAL ALTERATION OF SILICEOUS SINTER NEAR OLD FAITHFUL GEYSER, YELLOWSTONE NATIONAL PARK, USA. (Lynne)	31: ABSTRACT 2: ROTORUA GEOTHERMAL FILED - METHOD TO MEASURE HEAT AND FLUID USE (Barber)	42: VALUING USES OF THE WAIKATO AND BAY OF PLENTY GEOTHERMAL RESOURCES (Luketina)
11:00	56: GEOTHERMAL SUPERMODELS PROJECT: AN UPDATE ON FLOW SIMULATOR DEVELOPMENT (Croucher)	40: DISTINGUISHING LIGHTER SHADES OF GREY: THE USE OF PORTABLE XRF TO DEFINE CHEMOSTRATIGRAPHY IN THE GREYWACKE BASEMENT OF NEW ZEALAND GEOTHERMAL SYSTEMS (White)	41: WATER QUALITY AND BIODIVERSITY SURVEY OF THREE WAIOTAPU GEOTHERMAL LAKES (Luketina)	54: SOCIETAL ACCEPTANCE OF REMOTE SENSING INNOVATIONS WITH AN EXAMPLE FROM WHAKAREWAREWA (Rae)
11:20	87: EXPERIMENTS WITH WAIWERA, A NEW GEOTHERMAL SIMULATOR (O'Sullivan)	48: 3D GEOLOGICAL MODELLING: AN ADVANCED METHODE TO BUILD GEOLOGICAL BASELINE MODEL IN HULULAIS GEOTHERMAL PROJECT, BENGKULU, INDONESIA (Nusantara)	102: RENEWABLE ENERGY OR RISKY TECHNOLOGY? – FRAMINGS OF DEEP GEOTHERMAL ENERGY IN GERMANY (Benighaus)	80: CASE STUDY: GROUND SOURCE THERMAL PILES (Sanderson)
11:40	21: RECENT ADVANCES IN THE COMPUTER MODELLING OF THE OHAAKI GEOTHERMAL SYSTEM (Ratouis)	97: A 3D MODEL OF THE YAMAKAWA GEOTHERMAL SYSTEM: INSIGHTS INTO RESERVOIR STRUCTURE AND FUTURE FIELD MANAGEMENT (Wulaningsih)		113: THERMAL ROCK PROPERTIES – COMPARISONS OF APPARENT VALUES DETERMINED FROM IN-SITU TEMPERATURE PROFILES, AND VALUES DETERMINED BY LABORATORY MEASUREMENTS. (Seward)
12:00	Lunch and Poster Session: 6: THERMAL ACTIVITY EXPLORATION AND MONITORING OF RECENTLY ACTIVE KIRISHIMA VOLCANO IN THE SOUTHERN KYUSHU ISLAND IN JAPAN USING SATELLITE IMAGERIES (Mia) 19: GEOTHERMAL PROSPECTIVITY OF LOW-TEMPERATURE REGIONS IN NEW ZEALAND (Reyes) 49: UNDERSTANDING GEOTHERMAL RESERVOIRS USING 3D MODELLING TECHNIQUES: A CASE STUDY OF THE EBINO PROSPECT, SOUTHERN JAPAN (O'Keefe) 60: ON THE SUPERCRITICAL FLUID UNDER THE BRITTLE-DUCTILE BOUNDARY (Ogawa) 61: ORGANIZATION OF RESISTIVITY EXPLORATION DATA FOR DEVELOPMENT DEEP GEOTHERMAL SYSTEMS –REPROCESSING THE MAGNETOTELLURIC DATA AT KAKKONDA GEOTHERMAL FIELD, NE JAPAN (Yamaya) 84: PROBABILISTIC ASSESSMENT OF ELECTRICAL POTENTIAL OF TOCOMAR GEOTHERMAL FIELD (CENTRAL PUNA - NW ARGENTINA), USING VOLUMETRIC METHOD. (Barrios)			
13:00	Keynote 2 - Gudmundur Fridleifsson IDDP-2 - DRILLING INTO THE SUPERCRITICAL AT REYKJANES Room: Mokoia Room			

	Session 2.1: Modelling Room: Mokoia Room	Session 2.2: Scalling Room: Millenium 5	Session 2.3: Geochemistry Room Millennium 1	Session 2.4: Drilling Room: Millenium 2
13:40	12: FORWARD AND INVERSE MODELLING OF GEOTHERMAL MICROSEISMICITY USING TOUGH2 COUPLED WITH AN EARTHQUAKE SIMULATOR (Rivera)	51: NANOSTRUCTURED CALCIUM SILICATE – A POTENTIAL SOLUTION TO PROBLEMATIC SILICA DEPOSITION FROM GEOTHERMAL BRINE AND A USEFUL PRODUCT (Johnston)	1: INVESTIGATING THE GEOTHERMAL SIGNATURE OF THE KAIMAI TUNNEL, NEW ZEALAND (Luketina)	100: KARKAR, ARMENIA – SLIMHOLE DRILLING AND TESTING RESULTS AND REMOTE PROJECT MANAGEMENT OVERVIEW (Austin)
14:00	37: NONLINEAR UNCERTAINTY QUANTIFICATION WITH A GEOTHERMAL MODEL (O'Sullivan)	5: RECOVERY OF NANO-STRUCTURED CALCIUM SILICATE HYDRATE FROM GEOTHERMAL BRINE USING A LAMELLA SEPARATOR (Borrmann)	13: X-RAY CHARACTERISATIONS OF SILICEOUS SINTER FROM STEAMBOAT SPRINGS GEOTHERMAL FIELD, NEVADA, USA (Qasim)	114: ADVANCED DYNAMICS FEA MODELING AS A NEW APPROACH TO IMPROVE GEOTHERMAL DRILLING PERFORMANCES IN INDONESIA (Mardiana)
14:20	66: INVESTIGATION OF PARAMETER UNCERTAINTY IN IDEALIZED GEOTHERMAL MODEL USING LINEAR UNCERTAINTY ANALYSIS (Omagbon)	10: A MODEL OF SILICA COLLOID GROWTH, STABILITY AND TRANSPORT USED TO PREDICT GEOTHERMAL REINJECTION LIFETIME (Chen)	14: APPLICATIONS OF SULFUR ISOTOPES IN CHARACTERIZING RESERVOIR PROCESSES AT THE KAWERAU GEOTHERMAL FIELD, NEW ZEALAND (Buscarlet)	115: DRILLING OPTIMIZATION IN HARD AND ABRASIVE GEOTHERMAL VOLCANIC ROCK USING THE INNOVATIVE CONICAL DIAMOND ELEMENT BIT (Mardiana)
14:40	15: A STUDY ON TETRAHEDRAL FINITE ELEMENTS (Pogacnik)	123: SCALING MITIGATIONS FOR THE GEOTHERMAL BINARY PLANT VAPORIZER: LEYTE, THE PHILIPPINES (Zarrouk)	58: EXPERIMENTAL DETERMINATION OF RATE CONSTANTS FOR THE BREAKDOWN OF THE ORGANIC TRACERS 1,5-NDS AND 2-NSA UNDER GEOTHERMAL CONDITIONS (Sajkowski)	118: ACID SOLUBILITY TESTING OF GREYWACKE CORE AND IMPLICATIONS FOR WELL PERMEABILITY ENHANCEMENT (Siratovich)
15:00	86: INTEGER PROGRAMMING OPTIMIZATION OF PRODUCTION WELL PLACEMENT (Adiga)	65: SILICA SCALE CONTROL IN NICARAGUA POWER PLANT (Delgado)		119: METHYLENE BLUE ANALYSIS OF CLAY SAMPLES FROM THE TIWI GEOTHERMAL FIELD (Guidote)
15:20	Afternoon Tea			
	Session 3.1: Modelling Room: Mokoia Room	Session 3.2 Scaling Room: Millenium 5	Session 3.3: Geochemistry Room: Millenium 1	Session 3.4: TVZ Room: Millenium 2
15:40	70: NUMERICAL MODELLING OF THE INFLUENCE OF GEOLOGY AND GROUNDWATER RECHARGE ON GEOTHERMAL ACTIVITY IN THE CENTRAL TVZ (Pearson-Grant)	131: CHEMICAL CLEANING AND REJUVENATION OF GEOTHERMAL WELLS AND SURFACE EQUIPMENT (Gill)	57: BASALT-SEAWATER INTERACTION AT NEAR SUPERCRITICAL CONDITIONS: HYDROTHERMAL ALTERATION IN THE SUB-SEAFLOOR (Passarella)	17: THE DEEP CONTROL(S) OF HIGH ENTHALPY GEOTHERMAL SYSTEMS: A MULTIDISCIPLINARY PERSPECTIVE (Chambefort)
16:00	83: GENERATION OF ALTERNATIVE GEOLOGICAL MODELS FOR SPATIAL UNCERTAINTY IN A GEOTHERMAL CONTEXT (Vidal)	53: H2S CORROSION OF CARBON STEEL IN GEOTHERMAL FLUIDS (Ghaziouf)	47: A NUMERICAL METHOD FOR PREDICTING THERMOPHYSICAL PROPERTIES OF COMPLEX CHLORIDE-DOMINATED BRINES (Walsh)	108: GROUNDWATER CIRCULATION SYSTEMS OF HIGH-TEMPERATURE GEOTHERMAL FIELDS IN THE UPPER WAIKATO CATCHMENT, TAUPO VOLCANIC ZONE, NEW ZEALAND (White)
16:20	124: 3D NATURAL STATE MODEL OF KARAHATALAGA BODAS GEOTHERMAL FIELD, WEST JAVA, INDONESIA (Prabata)	63: THE MATERIAL CORROSION TEST USING LOOP SYSTEM UNDER ACIDIC CONDITION AT GEOTHERMAL FIELD IN JAPAN (Yanagisawa)	85: FINGERPRINTING THE TEMPERATURE AND FLUID SOURCE OF CALCITE IN GEOTHERMAL SYSTEMS USING CLUMPED ISOTOPES (Milicich)	25: TECTONIC STRUCTURE AND PERMEABILITY IN THE TAUPO RIFT: NEW INSIGHTS FROM ANALYSIS OF LIDAR DERIVED DEMS (Villamor)
16:40	111: THE SUBSURFACE GEOMETRY OF A NATURAL GEOTHERMAL RESERVOIR (Wallis)	82: DEVELOPMENT OF NEW FIELD TESTING TOOLS FOR GEOTHERMAL POWER PLANT RISK ASSESSMENT OF CORROSION AND SCALING (Osato)	88: PROGRESSIVE DEVOLITISATION OF NEW ZEALAND RESERVOIR ROCKS FROM SUB-CRITICAL TO SUPERCRITICAL CONDITIONS (Mountain)	
17:00	23: GEOMETRICAL MODELLING OF FRACTURE NETWORKS IN AN ANDESITE-HOSTED GEOTHERMAL RESERVOIR. (Kissling)	122: ANALYSIS ON SCALING PROBLEM IN INJECTION FACILITIES: A CASE FROM MUARA LABUH GEOTHERMAL FIELD, INDONESIA (Alfiady)	106: ASSESSMENT OF CHEMICAL ANTISCALANT IN CONTROLLING SILICA SCALING AT WAIRAKEI BINARY PLANT, NEW ZEALAND (SEASTRES)	
17:20	Welcome Reception including WING speakers			
19:00				

NZGW 2017 Programme

Thursday 23 November 2017

8:30	NZGA AGM Room: Mokoia Room		
9:00	Housekeeping Room: Mokoia Room		
9:20	Keynote 3 - James Faulds DISCOVERING NEW GEOTHERMAL SYSTEMS IN THE GREAT BASIN REGION, WESTERN USA: AN INTEGRATED APPROACH FOR ESTABLISHING GEOTHERMAL PLAY FAIRWAYS Room: Mokoia Room		
10:00	Morning Tea		
	Session 4.1: Production Room: Mokoia Room	Session 4.2: Geophysics Room: Millenium 5	Session 4.3: Other Room: Millenium 1
10:20	27: THE GEOTHERMAL TWO-PHASE ORIFICE PLATE (Mubarok)	99: A STUDY OF PARAMETER COUPLING IN MT AND GRAVITY JOINT INVERSION FOR GEOTHERMAL EXPLORATION (Tarits)	7: THE UTAH FRONTIER OBSERVATORY FOR GEOTHERMAL RESEARCH (FORGE): A LABORATORY FOR EGS DEVELOPMENT (Moore)
10:40	44: COUPLED GEOTHERMAL PROCESS AND RESERVOIR MANAGEMENT (Dabbour)	59: ON THE AIRBORNE SURVEY BY A HELICOPTER- A BRIEF OUTLINE AND SEVERAL ANALYSES OF THE SURVEY (Tosha)	69: ANALYSIS OF NEW INDONESIAN GEOTHERMAL BPP-TARIFF AND IMPACT OF FEASIBILITY OF GEOTHERMAL PLANTS IN EASTERN INDONESIA IN THE NEXT DECADE (Van Campen)
11:00	50: THE APPLICATION OF HELICAL SCREW EXPANDING TECHNOLOGY FOR GEOTHERMAL POWER GENERATION (Hooper)	62: INTEGRATED ANALYSIS USING 3D SEISMIC SURVEY IN THE YAMAGAWA GEOTHERMAL FIELD, SOUTHWESTERN JAPAN (Mouri)	116: REASSESSMENT OF ITB RESEARCH CONTRIBUTION TO POWER PLANT PERFORMANCE IMPROVEMENT (Banjarnahor)
11:20	76: HYDROGEN PEROXIDE AS A GEOTHERMAL COOLING WATER BIOCIDES (Clark)	94: GEOTHERMAL TEMPERATURE ESTIMATION BASED ON RESISTIVITY DATA USING ARTIFICIAL NEURAL NETWORK: APPLICATION TO THE KAKKONDA GEOTHERMAL FIELD, JAPAN (Ishitsuka)	81: REVIEW ON OHAOKI CONSENTING, MODELLING AND RESOURCE ASSESSMENT: THE BEST PLACE TO LOOK FOR LESSONS ON SUSTAINABLE GEOTHERMAL OPERATION AND MONITORING (Van Campen)
11:40	18: WELLBORE MODELING IN DRY STEAM PRODUCTION WELL IN GEOTHERMAL MULTI LATERAL WELL (Guwowijoyo)	24: PRELIMINARY INVESTIGATION OF SEISMIC VELOCITY VARIATION AT THE ROTOKAWA AND NGATAMARIKI GEOTHERMAL FIELDS (Sewell)	29: REASSESSMENT OF GEOTHERMAL ENERGY POTENTIAL IN TATAPANI GEOTHERMAL FIELD IN BALRAMPUR DISTRICT, CHHATTISGARH STATE, INDIA (Patbhaje)
12:00	Lunch		
13:00	Keynote 4 - Initiating Māori Engagement - Included in this is Kaitiakitanga Future Geothermal Innovation and Direct Use Taparoto Nicholson, members of te Waiariki Māori Geothermal Advisory Group, Te Pumautanga o Te Arawa Trust Room: Mokoia Room		
	Session 5.1: Production Room: Mokoia Room	Session 5.2: Geophysics Room: Millenium 5	Session 5.3: Direct Use Room: Millenium 1
13:40	130: GEOTHERMAL STEAM WATER SEPARATOR SIZING FOR OPTIMIZING INVESTMENT IN POWER DEVELOPMENT (Zarrouk)	125: QUANTITATIVE ANALYSIS OF EARTHQUAKE ENERGY INDUCED BY WATER INJECTION (Ishikawa)	38: GEOTHERMAL ECONOMIC DEVELOPMENT IN NEW ZEALAND - USING A "KISSING FROGS" APPROACH (Blair)
14:00	71: TESTING OF CYCLONE SEPARATORS AND STEAM PIPELINES FOR SEPARATION AND SCRUBBING PERFORMANCE (Misa)	128: IDENTIFYING FAULTS AND FRACTURES AT DIFFERENT DEPTHS FROM AIRBORNE GRAVITY GRADIENT SURVEYS OVER KUJU AND KIRISHIMA GEOTHERMAL AREAS, JAPAN (Soengkono)	2: OPPORTUNITIES FOR INDUSTRIAL CO-LOCATION TO IMPROVE RENEWABLE ENERGY USE AND EFFICIENCY (Alcaraz)
14:20	117: STEAM PURITY CHALLENGES IN GEOTHERMAL POWER PLANTS: A CASE OF OLKARIA IAU POWER PLANT (Wafula)	129: APPLYING INNOVATIONS IN MT TECHNOLOGY FOR REDUCING GEOTHERMAL EXPLORATION RISKS (Daud)	43: BUILDING A SUSTAINABLE CITY UTILISING GEOTHERMAL HEAT PUMPS – THE CHRISTCHURCH STORY. (Seward)
14:40	89: TE MIHI GEOTHERMAL POWER STATION - FAR FIELD NOISE MITIGATION TO THE TE MIHI COOLING TOWERS (Morrison)	22: A DISCUSSION BETWEEN A RESERVOIR ENGINEER AND A GEOLOGIST: INTEGRATING BOREHOLE IMAGE LOGS AND COMPLETION TEST DATA (Massiot)	
15:00	90: TE MIHI GEOTHERMAL POWER STATION - HOTWELL PUMPS – A TALE OF UNINTENDED CONSEQUENCES (Morrison)	33: A NATURAL STATE MODELLING OF ULUMBU GEOTHERMAL FIELD, EAST NUSA TENGGARA, INDONESIA (Kurniawan)	
15:20	Afternoon Tea		

Session 6.1:	
Room: Mokoia Room	
15:45	Japan - industry updates
16:15	Indonesia Geothermal Centre of Excellence
16:45	EIG - ways in which Oil & Gas can work with Geothermal
17:00	Industry Panel
18:30	Travel to Dinner venue
19:00	NZGW Dinner
22:30	Blue Baths, Queens Drive, Government Gardens

Friday 24 November 2017	
Room: Mokoia Room	
9:00	Housekeeping & NZGA Welcome
9:20	MBIE
9:30	MFAT
9:40	NZTE
9:50	NZTE
10:00	NZTE
10:10	AGF
10:20	GeoNZ
10:30	Morning Tea
11:00	Geothermal Institute
11:10	Jacobs
11:20	Seequant
11:30	MB Century
11:40	BOPRC
11:50	Contact
12:00	Nalco
12:30	Lunch

Friday 24 November 2017	
Room: Mokoia Room	
13:30	WING
13:40	GNS Science
13:50	Tauhara North No 2
14:00	HERA
14:10	WRC
14:20	Mercury
14:30	MTL
14:40	Top Energy
14:50	Utrex
15:00	Afternoon Tea
15:30	Thorndon Cook
15:40	AECOM
15:50	
16:00	
Awards	NZGA Innovation Award
	Awards for best papers
17:00	Workshop Closes

