

Geothermal Workshop 2018 Programme

Wednesday 14 November

8:00	Registration Open			
8:45	Housekeeping			
9:00	Welcome and Opening			
9:20	Keynote Andy Blair ACHIEVING GENDER EQUALITY ISN'T JUST A MORAL ISSUE- IT MAKES ECONOMIC SENSE			
10:00	Morning Tea			
	Session 1.1 Reservoir Modelling Karapiti Room Session Chair: Julian McDowell	Session 1.2 Geothermal Engineering - Production and Management Waikato Room Session Chair: Christine Siega	Session 1.3 The Future of Geothermal Heritage Room Session Chair: Bryan Carey	Session 1.4 Geothermal Engineering - Drill and Well Testing Night Room Session Chair: Irene Wallis
10:30	68 ACCELERATING THE SOLUTION OF GEOTHERMAL INVERSE PROBLEMS USING ADJOINT METHODS IN WAIWERA: A PROGRESS REPORT - Maclaren	26 PRODUCTION IMPROVEMENT THROUGH SCALE REMOVAL BY JETWASH KAMOJANG GEOTHERMAL FIELD - Hendriana	10 THE CHANGING FACE OF GEOTHERMAL SYSTEM MANAGEMENT PLANS IN NEW ZEALAND - Doorman	9 INVESTIGATION OF PRESSURE TRANSIENT ANALYSIS METHODS FOR CO ₂ -RICH GEOTHERMAL RESERVOIRS - Adityatama
10:50	45 OPTIMISING A ONE MILLION BLOCK GRID FOR A TVZ FLOW MODEL - Letourneur	29 OLD LESSONS APPLIED TO MODERN SEPARATOR STATION DESIGN - White	98 BEYOND BASELOAD: THE FUTURE OF GEOTHERMAL - Blair	13 UPFLOW ALONG A BASEMENT FAULT REVEALED BY GEOTHERMAL NUMERICAL PRESSURE TRANSIENT ANALYSIS - Mclean
11:10	79 COMPUTER MODELLING OF MONTSERRAT GEOTHERMAL FIELD - O'Sullivan	37 REVIEW: BENEFITS OF USING A DESIGN-BUILD METHODOLOGY FOR GEOTHERMAL POWER STATION STRAMFIELD PROJECTS - Rivera Diaz	31 BUOYANCY VORTEX POWER FROM LOW-TEMPERATURE HEAT - Hawkes	43 APPLICATION OF WIRELINE FISHING TOOLS AND TECHNIQUES TO RESTORE WELL PRODUCTION IN SALAK GEOTHERMAL FIELD, INDONESIA - Ramadani
11:30	96 CREATING AN UNSTRUCTURED 2.5D TOUGH2 GRID GEOMETRY CONSTRAINED TO A GEOLOGICAL MODEL - Pearson	92 TE MIHI GEOTHERMAL POWER STATION- STEAM TURBINE GENERATOR PEDESTAL DEFLECTION - Morrison	40 CLASSIFICATION OF GEOTHERMAL RESOURCES - Jalilinasrabady	131 A REVIEW OF STATIC FORMATION TEMPERATURE TEST EVALUATION METHODS - Forsyth
11:50	90 EXPLAINING HIGH PERMEABILITY ON LOCALISED FAULT ZONES THROUGH THMC FEEDBACKS – A SOULTZ-SOUS-FORETS INSPIRED APPROACH - Regenauer-Lieb	103 OPTIMISATION OF CHEMICAL DOSING FOR TE MIHI COOLING TOWERS. - Young	53 GOVERNMENT DRILLING PROGRAM FOR GEOTHERMAL EXPLORATION IN INDONESIA - Apriani	
12:10	Lunch and Poster session: 15 EFFECTS OF PH ON THE QUALITY OF THE CLAY CAP IN GEOTHERMAL RESERVOIRS - Lievens 16 HOW DID TURKEY SUCCEED IN RAISING PUBLIC AWARENESS AND ENVIRONMENTAL PROTECTION ALONG WITH GEOTHERMAL DEVELOPMENTS - Sahiller 54 SUPPORT OF INDONESIAN NATIONAL STANDARD (SNI) FOR GEOTHERMAL DEVELOPMENT IN INDONESIA - Nugroho 56 EXPERIMENTAL REACTION OF GRANITIC RESERVOIR ROCKS WITH GEOTHERMAL FLUIDS. - Bucher 64 SELF-POTENTIAL CHANGES AROUND THE DISCHARGING FUMAROLE ZERO ON WHITE ISLAND VOLCANO - Hurst 69 OBTAINING WATER LEVEL DATA IN COMPLEX AND DANGEROUS GEOTHERMAL ENVIRONMENTS USING UAV PHOTOGRAMMETRY - Macdonald 106 GEOLOGY, STRIKE-SLIP KINEMATIC AND IMPLICATION FOR GEOTHERMAL MANIFESTATION MOUNT PANDAN, EAST JAVA PROVINCE, INDONESIA - Jati			
13:10	Keynote Paul Brophy INTEGRATING GEOTHERMAL INTO THE CHANGING WORLD OF RENEWABLES			
	Session 2.1 Reservoir Modelling Karapiti Room Session Chair: Oliver Maclaren	Session 2.2 Geothermal Geophysics Waikato Room Session Chair: David Dempsey	Session 2.3 Environmental Aspects Heritage Room Session Chair: Katherine Luketina	Session 2.4 Geothermal Geology Night Room Session Chair: Bridget Lynne
13:50			44 MONITORING OF GEOTHERMAL VEGETATION AND THE EFFECTS OF GEOTHERMAL ENERGY EXPLOITATION - Beadel	48 AN APPLICATION OF 3D TEMPERATURE MODELING DURING AND AFTER DEVELOPMENT DRILLING AT MUARA LABOH, SUMATERA, INDONESIA - Dyaksa
14:10	97 MODELLING THE TAURANGA LOW TEMPERATURE GEOTHERMAL SYSTEM - Burnell	100 DEVELOPMENT OF EFFICIENT AND HIGH-RESOLUTION TEM METHOD FOR GEOTHERMAL EXPLORATION - Yoshimatsu	66 ENVIRONMENTAL REMEDIATION APPLICATIONS OF GEOTHERMAL CALCIUM SILICATES - Cairns	107 TWO CONTRASTING GEOTHERMAL FIELDS IN SUMATRA, INDONESIA: MUARA LABOH AND RANTAU DEDAP - Sidik
14:30	46 PROBABILISTIC RESOURCE ASSESSMENT USING EXPERIMENTAL DESIGN AND SECOND ORDER PROXY MODEL: THE ROTORUA GEOTHERMAL SYSTEM - Ciriaco	12 NUMERICAL TOOLS TO ESTIMATE THE GEOTHERMAL POTENTIAL FROM PETROLEUM AND GEOTHERMAL MEXICAN FIELDS - Espinoza-Ojeda	33 WHAT MAKES GEOTHERMAL FEATURES SIGNIFICANT? CHALLENGES IN INTERPRETING AND APPLYING ASSESSMENT CRITERIA - Bromley	11 OBSERVING DYNAMIC PERMEABILITY IN THE HEYUAN GEOTHERMAL FAULT FROM MICROSTRUCTURAL ANALYSIS - Tannock
14:50	71 A 3D GEOLOGICAL MODEL AND NATURAL STATE SIMULATION OF JABOI GEOTHERMAL FIELD, NANGRO ACEH DARUSSALAM, INDONESIA - Nugraha	111 UNCERTAIN ESTIMATION OF SUBSURFACE TEMPERATURE AWAY FROM THE BOREHOLE USING MAGNETOTELLURIC INVERSIONS - Ardid	70 NANO-ZERO VALENT IRON ON GEOTHERMAL SILICATE SUPPORT FOR THE REDUCTION OF NITRATE - Fraser	27 EXPANDING THE BOUNDARIES AT KAWERAU: NEW DATA FROM THE TE AHI O MAUI PROJECT - White
15:10	32 PRESSURE LOSS THROUGH ROCK FRACTURE INTERSECTIONS - Hermawan	17 DIRECT RELATIONSHIPS BETWEEN GEOLOGY AND AIRBORNE MAGNETIC DATA OVER THE TAUPU VOLCANIC ZONE (TVZ), NEW ZEALAND - Soengkono		

15:30	Afternoon Tea			
	Session 3.1 Reservoir Modelling Karapiti Room Session Chair: Adrian Croucher	Session 3.2 Geothermal Geophysics Waikato Room Session Chair: Chris Bromley	Session 3.3 Geothermal Heat Anomalies Heritage Room Session Chair: John Burnell	Session 3.4 Geothermal Geochemistry Night Room Session Chair: Abbie Dean
16:00	82 NUMERICAL MODELLING OF THE INTERACTION BETWEEN BRINE-NCG SOLUTIONS AND GREYWACKE - Kaya	125 MICROSEISMIC INVESTIGATION OF THE KIJYAMA-SHITANOTAI GEOTHERMAL - Lucas	119 SURFACE HEAT LOSS FROM THE WAIMANGU GEOTHERMAL VALLEY - Reeves	52 PETROPHYSICS IN THE CHARACTERISATION OF GEOTHERMAL RESERVOIRS - Prieto
16:20	94 EVOLUTION OF GEOTHERMAL-GROUNDWATER CIRCULATION SYSTEMS IN THE QUATERNARY TAUPO VOLCANIC ZONE: EXAMPLE OF THE UPPER WAIKATO RIVER CATCHMENT, NEW ZEALAND - White	128 GEOTHERMAL MONITORING USING REMOTELY SENSED DATA AND CLOUD COMPUTING - Luketina	126 EVOLUTION AND ERUPTION OF GEOTHERMALLY COOLED MAGMA BODIES - Dempsey	7 TRACKING MICRO-FRACTURE AND VOID CONNECTIVITY IN GEOTHERMAL HOST ROCKS USING SCANNING ELECTRON MICROSCOPY - Lynne
16:40	123 MODELLING FLOWS IN DISCRETE FRACTURE NETWORKS DERIVED FROM A NEW ZEALAND LAVA-HOSTED GEOTHERMAL SYSTEM - Kissling	95 LOGGING SURVEILLANCE OPTIMIZATION FOR EFFECTIVE MONITORING AND COST EFFICIENCY IN SALAK GEOTHERMAL FIELD, INDONESIA - Hidayaturobi	121 HEAT AND GOLD EXPLORATION ON FIJI ISLANDS - Sommer	130 EXPERIMENTAL EXAMINATION OF ADSORPTION OF THE NAPHTHALENE SULFONATES UNDER GEOTHERMAL CONDITIONS - Sajkowski
17:00	28 PARAMETRIC AND STATISTICAL ANALYSIS OF STIMULATION OF GEOTHERMAL WELLS THRU DEFLAGRATION - Aspiras	124 BEYOND BOUNDARIES: EXPLORING INTERPRETATIONS FROM CORRELATION OF RESISTIVITY WITH VARIOUS RESERVOIR DATA IN MT. APO GEOTHERMAL AREA - Mendoza	118 MID-CRUSTAL EPISODIC GRANULAR VORTICES CAN BOOST ANOMALOUS HEAT-RELEASE IN THE TAUPO VOLCANIC ZONE NZ - Regenauer-lieb	117 MINERAL RECOVERY THROUGH GEOTHERMAL DESALINATION - Chua
17:20	Welcome Reception			
19:00				

Thursday 15 November

9:00	Housekeeping		
9:20	Keynote Hildigunnur Thorsteinsson INVESTMENT IN THE FUTURE		
10:00	Morning Tea		
	<p>Session 4.1</p> <p>Geothermal Geochemistry</p> <p>Karapiti Room</p> <p>Session Chair: Eylem Kaya</p>	<p>Session 4.2</p> <p>Waikato Room</p> <p>Session Chair: John O'Sullivan</p>	<p>Session 4.3</p> <p>Scaling and Corrosion</p> <p>Heritage Room</p> <p>Session Chair: Sadiq Zarrouk</p>
10:30	58 GEOCHEMISTRY OF TRAVERTINE DEPOSITS AS A GEOTHERMAL EXPLORATION TOOL: A CASE STUDY AT CAJÓN DEL MAIPO, CENTRAL ANDES, CHILE - Anselmo	88 INVESTIGATING THE EFFECTS OF NON-ISOTHERMAL RESERVOIR CONDITION ON PRESSURE TRANSIENT ANALYSIS OF AN INJECTION/FALL-OFF TEST USING NUMERICAL MODELLING - O'Sullivan	47 ALUMINIUM-RICH SILICA SCALING: SAN JACINTO-TIZATE GEOTHERMAL ENERGY PROJECT, NICARAGUA - Newton
10:50	19 INJECTION MANAGEMENT AT DARAJAT FIELD, INDONESIA: IMPACT OF MOVING INFIELD INJECTION TO EDGEFIELD - Paramitasari	4 NUMERICAL AND ANALYTICAL MODELING OF PRESSURE DROP THROUGH A GEOTHERMAL TWO-PHASE ORIFICE PLATE - Mubarok	49 ELIMINATION OF THE PROBLEMATIC DEPOSITION OF SILICA FROM SEPARATED GEOTHERMAL BRINE - Johnston
11:10	38 RESTORING WELLBORE INTEGRITY IN A COLD BRINE AND CONDENSATE INJECTOR, MAK-BAN GEOTHERMAL FIELD, PHILIPPINES - Ng	89 JOINT INVERSION FOR THERMAL CONDUCTIVITY AND BASAL HEAT FLUX - Guzman	23 REMOVING SILICA FROM GEOTHERMAL WATER - YEAR ONE OF PILOT PLANT OPERATION WITH A FOCUS ON CARBONATE AND SILICA ANALYSIS - Borrmann
11:30	73 PREDICTIONS OF AVERAGE SILICA PARTICLE SIZE OVER TIME UNDER GEOTHERMAL CONDITIONS - Chen	51 EVALUATING EFFECTIVENESS OF CALCITE ANTISCALANT FOR FIELD APPLICATION - Siega	50 LAMELLA SEPARATORS FOR RECOVERING NANO-STRUCTURED CALCIUM SILICATE HYDRATE FROM GEOTHERMAL BRINE - Schweig
11:50	20 ALTERATION OF GRANITE AND MONZONITE FROM THE NORTHERN BLACK FOREST, GERMANY – EVIDENCE FROM HYDROTHERMAL EXPERIMENTS AT 70°C AND 200°C - Stober		86 ACID STIMULATION OF KAWERAU INJECTION WELL PK4A USING HYDROFLUORIC ACID - Richardson
12:00	Lunch		
13:10	Keynote Andy Bloomer WAIRAKEI 60 YEARS: THE PEOPLE WHO MADE IT SUCCESSFUL		
	<p>Session 5.1</p> <p>Geothermal Geochemistry</p> <p>Karapiti Room</p> <p>Session Chair: Bruce Mountain</p>	<p>Session 5.2</p> <p>Wairakei</p> <p>Waikato Room</p> <p>Session Chair: Fabian Sepulveda</p>	<p>Session 5.3</p> <p>Scaling and Corrosion</p> <p>Heritage Room</p> <p>Session Chair: Claire Newton</p>
13:50			74 MODELLING OF IN SITU SILICA PARTICLE GROWTH AND ITS DEPOSITION UNDER GEOTHERMAL CONDITIONS - Chen
14:10	18 CONNECTIVITY OF WELLS IN THE EAST SALAK STEAM CAP: RESULTS OF NCG INTERFERENCE TESTING - Putri	65 OVER 60 YEARS OF DIRECT GEOTHERMAL USE AT WAIRAKEI - TAUHARA AND GROWING STRONGER - Carey	85 CHEMICAL CLEANING AT MERCURY'S GEOTHERMAL POWER PLANTS - Richardson
14:30	8 INSIGHTS INTO THE CHEMISTRY OF WATERS BEYOND THE TE AROHA DOMAIN Luketina	22 WAIRAKEI – STILL GOING AFTER ALL THESE YEARS - Morris	60 EVALUATION OF PERFORMANCE PROBLEMS OF CALCITE INHIBITORS - Bluemle
14:50	75 AN EXPLANATION FOR THE UNEXPECTED INTERACTIONS OF SILICA NANOPARTICLES USING THE SOFT PARTICLE MODEL - Chen	102 PHYSICAL MODEL OF THE WAIRAKEI GEOTHERMAL FIELD, CIRCA 1960 - White	61 DEVELOPMENT OF A SYNERGISTIC BLEND OF CORROSION INHIBITORS FOR ACID CLEANING - Todd
15:10	57 CONCEPTUAL MODEL AND RECHARGE AREA OF GEOTHERMAL SYSTEM GEDE-PANGRANGO AND PANCAR BASED ON GEOCHEMICAL AND HYDROGEOLOGICAL DATA - Sirait	122 HISTORICAL REVIEW OF GEOPHYSICAL MONITORING AT WAIRAKEI-TAUHARA : WHAT HAVE WE LEARNED? - Bromley	62 EVALUATION OF CORROSION INHIBITORS FOR ACIDIC GEOTHERMAL WELLS - Todd
15:30	39 PREDICTING THE EVOLUTION OF RIA-RIA TRAVERTINE DEPOSIT IN THE SIPOHOLON AREA, NORTH SUMATERA USING GEOCHEMISTRY ANALYSIS - Sibarani	80 AN UPDATE ON NUMERICAL MODELLING OF THE WAIRAKEI-TAUHARA GEOTHERMAL SYSTEM - O'Sullivan	63 CAUSTIC CLEANING OF GEOTHERMAL PREHEATER HEAT EXCHANGERS AT NGATAMARIKI POWER STATION - Lawson
15:50	Afternoon Tea		
16:20	Industry Panel		
18:15	Travel to Dinner Venue		
18:30	NZGW Conference Dinner		
22:30			

Friday 16 November

8:50	Housekeeping
9:00	NZGA Welcome - Stephen Daysh
9:10	IGA - Alex Richter
9:30	Contact Energy - Mike Dunstall
9:40	Eastland - Ben Gibson
9:50	Mitchell Daysh - Noel Kortright
10:00	MB Century - Marcel Manders
10:10	BOPRC - Penny Doorman
10:20	Waikato Regional Council - Katherine Luketina
10:30	Mercury - Nick Clarke
10:40	Geothermal NZ - Mike Allen
10:50	Tuwharetoa Spence McClintock
11:00	Morning Tea
11:20	Geothermal Institute - Rosalind Archer
11:30	Western Energy - Karl Spinks
11:40	Seequent - Jeremy O'Brien
11:50	GNS - German Orozco
12:00	MTL - Chris Mann
12:10	SLB - Marcus Jensen or Charbel Oieus
12:20	Jacobs - Scott Henderson
12:30	AECOM - Peter Geoghegan
12:40	Wing - Andy Blair
12:50	Award Best Student
13:00	Lunch
13:30	NZGA AGM - Stephen Daysh
14:00	NZTE Japan - Yoshifumi Imamura
14:10	NZTE Indonesia - Wini Rizkingayu
14:20	NZTE Philippines - Hernando Banal
14:30	MBIE - Alvin D'Almida
14:40	Dobbie Engineers - Greg Moore
14:50	Nalco - Karl Barrie
15:00	IESE - Nic Pennington
15:10	Solenis - Logan Muller
15:20	Award Best New Zealand Author