

New Zealand Geothermal Workshop 2020 Programme Draft

Version as 18.11.2020

Monday 23 November

3:00	Registration Open
5:30	Welcome Reception Waitangi Treaty Grounds
7:00	

Tuesday 24 November

8:00	Registration Open
8:30	Housekeeping
8:45	Welcome and Opening

9:00	GLOBAL GEOTHERMAL MOVEMENTS: WHAT'S HAPPEN IN THE WORLD OF GEOTHERMAL, CURRENT FOCUS, LATEST THINKING, AND GLOBAL TRENDS Keynote Speaker Andrea "Andy" Blair		
9:45	Morning Tea		

	Session 1.1 - Environmental Treaty Room 1	Session 1.2 - Reservoir Engineering 1 Treaty Room 2	Session 1.3 - Geoscience 1 Rangitira Room
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10:15		28 SWANHILD: NUMERICAL PRESSURE TRANSIENT ANALYSIS USING THE VOLSUNG GEOTHERMAL RESERVOIR SIMULATION PACKAGE - Mclean	105 INVESTING IN EXPLORATION GEOSCIENCE AND INNOVATION : A GIS-BASED GEOTHERMAL RESOURCE PRIORITISATION TOOL FOR TOHOKU REGION, JAPAN - Bignall
10:30	80 ECOLOGICAL INFORMATION FOR GEOTHERMAL SITES IN WAIKATO REGION - Beadel	116 REPRESENTATION OF UNKNOWN PARAMETERS IN GEOTHERMAL MODEL CALIBRATION - Nicholson	42 A REVIEW OF THE HYDROGEOLOGY OF THE TAUHARA DOMESTIC BORES, TAUPŌ, NEW ZEALAND. - Lebe
10:45	37 CHANGING RESOURCE MANAGEMENT OF SURFACE WATER ALLOCATION TO MEET GEOTHERMAL DRILLING DEMANDS - Collins	123 THE ROLE OF THERMAL STRESS IN ENHANCING THE RESERVOIR PROPERTIES OF ENHANCED GEOTHERMAL SYSTEMS - Aliyu	9 THREE NEW HOT SPRING VENTS EXPOSED AT ORAKEI KORAKO GEOTHERMAL FIELD, NEW ZEALAND - Lynne
11:00	47 SINTER-FORMING SPRINGS AND GEYSERS OF THE WAIKATO REGION - Luketina	12 AN UPDATED COMPUTER MODEL OF ROTORUA GEOTHERMAL FIELD - Dekkers	25 IMAGING FEEDZONE DIVERSITY: CASE STUDIES FROM SUMATRA, INDONESIA AND THE TAUPŌ VOLCANIC ZONE, NEW ZEALAND - Wallis
11:15	44 GREENHOUSE GAS EMISSIONS FROM NEW ZEALAND GEOTHERMAL: POWER GENERATION AND INDUSTRIAL DIRECT USE - Mclean	140 ESTIMATING WAIRAKEI'S 50 YEARS AND 100 YEARS MWE POTENTIAL CAPACITY FROM A CALIBRATED NATURAL STATE MODEL USING EXPERIMENTAL DESIGN (ED) AND RESPONSE SURFACE METHODOLOGY (RSM) - Ciriaco	50 BLACK TERRACE, ROTOMAHANA - White
11:30	NTGA INDUSTRY UPDATE	124 A NEW NUMERICAL MODEL OF THERMAL APERTURE CHANGES IN AN ENHANCED GEOTHERMAL SYSTEM RESERVOIR - Aliyu	142 CONCEPTUAL MODEL EVOLUTION OF THE TAUHARA GEOTHERMAL RESERVOIR FROM 1960-2020 - Sepulveda
11:45	EASTLANDS INDUSTRY UPDATE	43 PATCHING HELE-SHAW CELLS TO SIMULATE SILICA SCALE DEPOSITION IN DISCRETE FRACTURE NETWORKS - Aghajannezhad	138 GEOLOGICAL MODEL & PERMEABILITY FRAMEWORK OF BUKIT DAUN GEOTHERMAL FIELD, INDONESIA - Ikhwan INTERNATIONAL PRESENTATION

Lunch and Poster Session:			
12:00-1:30	18 NEW ZEALAND'S REGULATORY AND PLANNING FRAMEWORK FOR CONVENTIONAL GEOTHERMAL RESOURCE USE - Kissick		
	23 A REVIEW OF SMALL-SCALE GEOTHERMAL POWER PLANTS IN JAPAN AND ITS OPPORTUNITIES FOR NEW ZEALAND'S GEOTHERMAL BUSINESS. - Imamura		
	31 A NEW NUMERICAL MODEL OF AMATITLAN GEOTHERMAL SYSTEM, GUATEMALA - Xicara		
	40 A COMPARATIVE WATER GEOCHEMISTRY STUDY OF FIVE GEOTHERMAL FIELDS IN THE TAUPŌ VOLCANIC ZONE: ATIAMURI, MOKAI, NGATAMARIKI, WAIKITE, AND WAIOTAPU. - Lebe		
	75 USE OF ICE PLUGS IN GEOTHERMAL ANTI-SCALANT TUBING SYSTEMS - Duque		
	121 CHARACTERIZATION OF HULULAIS SUBSURFACE ROCK FORMATION AND ITS IMPLICATION TO STRATOVOLCANO FACIES MODEL. HULULAIS GEOTHERMAL FIELD, INDONESIA - Nusantara		
	126 GEOLOGY FAULT NETWORK OF HULULAIS GEOTHERMAL SYSTEM, BENGKULU, INDONESIA - Nurseto		
	127 VOLCANOSTRATIGRAPHY OF HULULAIS GEOTHERMAL FIELD, BENGKULU, INDONESIA - Pratama		

1:00	NZGA AGM
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1:30	NZGA INDUSTRY UPDATE		
1:45	MB CENTURY INDUSTRY UPDATE		
	Session 2.1	Session 2.2 - Culture and Community	Session 2.3 - Geoscience 2
	Treaty Room 1	Treaty Room 2	Rangitira Room
2:00			
2:15	WESTERN ENERGY INDUSTRY UPDATE	66 A HOLISTIC AND CULTURALLY RESPONSIVE APPROACH TO GEOTHERMAL PLANNING, MONITORING AND MANAGEMENT - Clubb	83 B-VALUE MAPPING FOR VOLCANIC-RELATED GEOTHERMAL SYSTEM: A CASE STUDY FOR NEVADO DEL RUIZ VOLCANO, COLOMBIA - Bustos
2:30	MERCURY ENERGY INDUSTRY UPDATE	130 HE PUNA I RAWEKE, HE PUNA WHAKATŌTŌ - Severne	139 A CONCEPTUAL APPROACH TO "3-D PLAY FAIRWAY" ANALYSIS FOR GEOTHERMAL EXPLORATION AND DEVELOPMENT - O'Brien
2:45	WING INDUSTRY UPDATE	48 TWENTY-FIVE YEARS OF GEOTHERMAL MONITORING BY WAIKATO REGIONAL COUNCIL: EMBRACING CHANGE, COLLABORATION, AND INNOVATION - Luketina	63 RATIONALE FOR SCIENTIFIC DRILLING AT THE OKATAINA VOLCANIC CENTRE: EXPLORING INTERACTIONS BETWEEN AN ACTIVE CALDERA, RIFT, FLUID CIRCULATION AND MICROBIOTA - Massiot
3:00	GOETHERMAL NEW ZEALAND INDUSTRY UPDATE	128 TE AHI TIPUA KI TĀHORAKURI A130: ESTABLISHING AN ECONOMIC DEVELOPMENT PLAN FOR WHANAU & HAPŪ IN DEGRADED GEOTHERMAL ENVIRONMENTS - Kora	
3:15	Afternoon Tea		
	Session 3.1 - Above Ground Technology 1	Session 3.2 - Reservoir Engineering 2	Session 3.3
	Treaty Room 1	Treaty Room 2	Rangitira Room
3:45	27 GEOTHERMAL STEAM TURBINE DEPOSITION FUNDAMENTALS - Addison	117 OPTIMAL DATA COLLECTION AND DATA-WORTH-ANALYSIS FOR GEOTHERMAL MODEL CALIBRATION - Nicholson	SEEQUENT INDUSTRY UPDATE
4:00	26 NGATI TUWHARETOA GEOTHERMAL ASSETS LTD REBOILER PLANT WATER/STEAM CHEMISTRY IMPROVEMENTS TO RESOLVE ONGOING CORROSION ISSUES - Addison	6 AN UPDATED COMPUTER MODEL OF MONTSERRAT GEOTHERMAL FIELD - O'Sullivan	JACOBS INDUSTRY UPDATE
4:15	56 GENERATOR EXCITATION SYSTEM REPLACEMENT IN GEOTHERMAL POWER STATIONS – MERITS AND PITFALLS - Paloso	11 DEVELOPMENT OF A TRANSIENT, MULTI-FEED GEOTHERMAL WELLBORE SIMULATOR - Tonkin	TN2T INDUSTRY UPDATE
4:30	97 DEI, DOUBLE ENERGY INPUT. A NOVEL MODEL FOR ELECTRICITY GENERATION - Ramirez	10 ON THE CHOICE OF PRIMARY VARIABLES IN TRANSIENT GEOTHERMAL WELLBORE MODELLING - Tonkin	DOBBIE INDUSTRY UPDATE
4:45			
5:00-6:00	Virtual Networking on Virtual Conference Platform		

Wednesday 25 November

8:45	Housekeeping		
9:00	GEOTHERMAL RESEARCH IN COLOMBIA: LESSONS LEARNED AND FUTURE PERSPECTIVES Keynote Speaker Daniela Blessent (INTERNATIONAL PRESENTATION)		
9:45	GNS INDUSTRY UPDATE		
10:00	Morning Tea		
	Session 4.1 - Above Ground Technology 2	Session 4.2 - Direct Use / Culture and Community	Session 4.3
	Treaty Room 1	Treaty Room 2	Rangitira Room
10:30	90 INJECTIVITY CHANGES AT NGATAMARIKI - Potter	134 SURFACE HEAT LOSS ASSESSMENT OF ROTORUA GEOTHERMAL FIELD, NEW ZEALAND - Seward	WORKSAFE INDUSTRY UPDATE
10:45	64 SUCCESSFUL TURBINE GENERATOR OUTAGE EXECUTION - Krige	16 GEOHEAT STRATEGY FOR AOTEAROA N.Z. – 2020 PROGRESS UPDATE - Carey	SUEZ IXOM INDUSTRY UPDATE
11:00	62 DIGITAL TWINS FOR THE GEOTHERMAL INDUSTRY: THEORY AND PRACTICE - Young	17 OPTIMAL SETTINGS FOR DIRECT GEOTHERMAL USE INVESTIGATED WITH NUMERICAL MODELLING - Pearson-Grant	SCHLUMBERGER INDUSTRY UPDATE
11:15	67 POIHIPI COOLING WATER SYSTEM - TAKING A HOLISTIC APPROACH TO INVESTIGATING PROBLEMS AND IMPLEMENTING SOLUTIONS - Young	14 CAN THE REYKJAVÍK DISTRICT HEATING SYSTEM (DHS) BE USED AS A MODEL FOR A ROTORUA DHS? A COMPARATIVE STUDY - Zuquim	ARA AKE INDUSTRY UPDATE
11:30	15 PENTANE EVACUATION FOR BINARY PLANTS - Mclellan	24 GENDER MAINSTREAMING IN THE DEVELOPMENT OF DIENG AND PATUHA GEOTHERMAL FIELD, INDONESIA - Yogandari INTERNATIONAL PRESENTATION	NALCO INDUSTRY UPDATE
11:45	81 WELL PERFORMANCE DIAGNOSTICS AND FORECASTING USING THE GUDRUN WELLBORE SIMULATOR - A CASE STUDY FROM KAWERAU, NEW ZEALAND - Quinao		SOLENIS INDUSTRY UPDATE
12:00	71 MANAGING DEBRIS IN GEOTHERMAL PRODUCTION FLUID - Rivera Diaz		THORNDON COOK INDUSTRY UPDATE
12:15	Lunch		
1:15	NGAWHA GEOTHERMAL FIELD DEVELOPMENT Keynote Speaker Russell Shaw		
2:00	CONTACT ENERGY INDUSTRY UPDATE		

	Session 5.1 - Drilling	Session 5.2 - Above Ground Technology 3	Session 5.3
	Treaty Room 1	Treaty Room 2	Rangitira Room
2:15			
2:30	13 ACCURATE LOCATION OF FEED ZONES: ASSESSING OBSCURATION BY THE LINER IN GEOTHERMAL WELLS - Goble	129 MICROBIALLY INDUCED DEGRADATION OF FIBRE REINFORCED PLASTIC (FRP) IN THE COOLING TOWER OF A GEOTHERMAL POWER STATION - Clark	19 NEW ZEALAND'S SUPERCRITICAL OPPORTUNITY: MOVING FROM POTENTIAL RESOURCE TO DEPLOYED TECHNOLOGY - Blair
2:45	35 CUSTOM PDC BITS SIGNIFICANTLY INCREASE DRILLING PERFORMANCE IN TAUHARA GEOTHERMAL DRILLING PROJECT - Lock	76 INTEGRATION OF THE CALCIUM SILICATE (CASIL) TECHNOLOGY INTO GEOTHERMAL POWER GENERATION TO PREVENT SILICA DEPOSITION, AND CASIL APPLICATIONS: AN UPDATE. - Johnston	GEOTHERMAL NEXT GENERATION WORKSHOP
3:00	3 USING AIR-CAP TESTING TO MONITOR AND MEASURE GEOTHERMAL WELL CASING INTEGRITY - Winmill	131 CFD MODELLING OF CORROSION TEST LOOPS FOR GEOTHERMAL FLUID APPLICATIONS - Lichti	
3:15	106 STUCK PIPE FREEING PROBABILITY OF SUCCESS IN GEOTHERMAL DRILLING OPERATION: A CASE STUDY IN WEST JAVA - Alamsyah INTERNATIONAL PRESENTATION	103 GEOTHERMAL STEAM PURITY MODELLING – THEORY AND PRACTICE - Mills	
3:30	111 CHALLENGES IN PROVIDING A RELIABLE WATER DISTRIBUTION SYSTEM FOR GEOTHERMAL DRILLING OPERATION IN INDONESIA - Agustino INTERNATIONAL PRESENTATION	70 INVESTIGATION AND APPLICATION OF FLASHING FLOW NOZZLES TO MITIGATE GEOTHERMAL TURBINE LIFE REDUCTION AT TE MIHI STATION - Misa	
3:45	Afternoon Tea		
	Session 6.1	Session 6.2 - Future Technologies and Projects	Session 6.3 - Geochemistry
	Treaty Room 1	Treaty Room 2	Rangitira Room
4:15	NZTE UPDATE INDONESIA INTERNATIONAL PRESENTATION	137 A ROBUST SUPERCRITICAL GEOTHERMAL SIMULATOR - O'Sullivan	8 A PRACTICAL APPLICATION OF CHLORIDE MASS BALANCE METHOD TO THE EVALUATION OF A GEOTHERMAL STEAM GENERATION SYSTEM IN INDONESIA - Dong
4:30	NZTE UPDATE PHILIPPINES INTERNATIONAL PRESENTATION	5 FUTURE GEOTHERMAL GENERATION STACK: FACTORS INFLUENCING NEW GEOTHERMAL PROJECTS IN NZ TO 2060 - Lawless	136 TURBULENCE MEDIATED RAPID ALUMINIOSILICATE FORMATION IN HYDROTHERMAL VEIN BRECCIA: NGATAMARIKI GEOTHERMAL POWERSTATION, NEW ZEALAND - Newton
4:45	NZTE UPDATE JAPAN INTERNATIONAL PRESENTATION	141 BUOYANCY VORTEX POWER FROM LOW-TEMPERATURE HEAT: PROGRESS - Hawkes	21 EXPERIMENTAL DETERMINATION OF RATE CONSTANTS FOR THE BREAKDOWN OF THE TRACERS 2-NSA, 2,6-NDS, 2,7-NDS, 1,5-NDS AND 1,6-NDS UNDER GEOTHERMAL CONDITIONS - Sajkowski
5:00	NZTE UPDATE TAIWAN INTERNATIONAL PRESENTATION	89 GEOTHERMAL DEVELOPMENT: A GAME OF CHANCE AND WIT - Potter	52 CO2 DISCHARGE FROM LAKE ROTOITI, NEW ZEALAND - Yang
6:15	Travel to Dinner Venue via Ferry from Cophorne Wharf		
7:00	NZGW Conference Dinner		
10:30	The Duke of Marlborough Hotel Russell		

Thursday 26 November

8:45	Housekeeping		
9:00	THE FUTURE FOR HYDROGEN IN NZ Keynote Speaker Linda Wright		
9:45	Morning Tea		
	Session 7.1	Session 7.2	Session 7.3
	Treaty Room 1	Treaty Room 2	Rangitira Room
10:15	GEOTHERMAL INSTITUTE INDUSTRY UPDATE	96 SIMULATING EFFECT OF INSULATED DRILLPIPE ON DOWNHOLE TEMPERATURE IN SUPERCRITICAL GEOTHERMAL WELL DRILLING - Ando INTERNATIONAL PRESENTATION	
10:30	WAIKATO REGIONAL COUNCIL INDUSTRY UPDATE	99 WELLTEC COMPLETION SOLUTIONS METAL EXPANDABLE PACKER AND 2ND STAGE CEMENTING FOR GEOTHERMAL WELL RE-LINING EDC PHILIPPINES - Jamieson INTERNATIONAL PRESENTATION	86 THE PROVISIONAL RESULTS OF EGS APPLICATION ON GEOTHERMAL POWER PLANT IN JAPAN - Yoshimatsu INTERNATIONAL PRESENTATION
10:45	BAY OF PLENTY REGIONAL COUNCIL INDUSTRY UPDATE	98 DRILL BITS SELECTION IN NON-CONSIGNMENT PROCUREMENT ARRANGEMENT IN GEOTHERMAL DRILLING PROJECT - Alamsyah INTERNATIONAL PRESENTATION	104 COVID-19 AND OIL PRICE DROP'S IMPACTS TO THE GEOTHERMAL DRILLING PROJECT IN INDONESIA - Agustino INTERNATIONAL PRESENTATION
11:00	WHAKAREWAREWA INDUSTRY UPDATE	84 WELL INTERVENTION AND ENHANCEMENT IN DIENG GEOTHERMAL FIELDS, INDONESIA - Elfajrie INTERNATIONAL PRESENTATION	87 OPPORTUNITIES FOR ELECTRICITY GENERATION WITH BINARY CYCLE POWER PLANTS IN LUMUT BALAI GEOTHERMAL AREA - Gunawan INTERNATIONAL PRESENTATION
11:15	HALLIBURTON INDUSTRY UPDATE	88 SIGNIFICANCE AND METHODOLOGY OF GEOTHERMAL RESOURCE POTENTIAL SURVEY IN JAPAN - Tano INTERNATIONAL PRESENTATION	29 HYDROGEOCHEMICAL CHARACTERISTICS OF GEOTHERMAL WATER IN MOUNT LAWU, INDONESIA - Sahdarani INTERNATIONAL PRESENTATION
11:30	DEMETER INDUSTRY UPDATE	85 HYDROTHERMAL ALTERATION AND FLUID CHARACTERISTIC STUDY OF PANTI GEOTHERMAL FIELD, PASAMAN REGENCY, WEST SUMATRA, INDONESIA - Wibisono INTERNATIONAL PRESENTATION	59 PRE INDEPENDENT AFRICA: A LOST OPPORTUNITY FOR GEOTHERMAL RESOURCE DEVELOPMENT - Bacwa INTERNATIONAL PRESENTATION
11:45	UPFLOW INDUSTRY UPDATE		
12:00	Lunch		
1:15	Industry Panel		
	Session 8.1	Session 8.2	Session 8.3
	Treaty Room 1	Treaty Room 2	Rangitira Room
2:15			
2:30	BASELOAD CAPITAL INDUSTRY UPDATE	107 DISCRETE VS INTEGRATED PROJECT MANAGEMENT (IPM) AND INTEGRATED DRILLING SERVICE (IDS) CONTRACT FOR GEOTHERMAL DRILLING IN INDONESIA - Agustino INTERNATIONAL PRESENTATION	122 FEEDZONE EVALUATION IN HULULAIS GEOTHERMAL FIELD, BENGKULU, INDONESIA - Arifin INTERNATIONAL PRESENTATION
2:45	MTL INDUSTRY UPDATE	4 FUTURE SUCCESS LOW TEMPERATURE MICRO GEOTHERMAL POWER GENERATION - Knight INTERNATIONAL PRESENTATION	91 NON-PRODUCTIVE TIME ANALYSIS FROM GEOTHERMAL DRILLING CAMPAIGN IN WEST JAVA TO IMPROVE FUTURE DRILLING PLANNING - Alamsyah INTERNATIONAL PRESENTATION
3:00	PUKEORA LAKEFRONT HOLDINGS INDUSTRY UPDATE	57 COMPARISON OF WELLHEAD COMPLETION DESIGNS FOR GEOTHERMAL OPERATIONS IN INDONESIA: EXPANSION SPOOL AND CASING HEAD COMPLETIONS IN INDONESIA - Alamsyah INTERNATIONAL PRESENTATION	
3:15	Workshop close and awards		