

# New Zealand Geothermal Workshop 2020 Programme Draft

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## 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	<b>Keynote 1</b>
9:45	Morning Tea

	Session 1.1 - TITLE Treaty Room 1	Session 1.2 - TITLE Treaty Room 2	Session 1.3 - TITLE Rangitira Room
10:15	105   INVESTING IN EXPLORATION GEOSCIENCE AND INNOVATION : A GIS-BASED GEOTHERMAL RESOURCE PRIORITISATION TOOL FOR TOHOKU REGION, JAPAN - Bignall	28   NUMERICAL PRESSURE TRANSIENT ANALYSIS USING THE VOLSUNG GEOTHERMAL RESERVOIR SIMULATOR - Mclean	80   ECOLOGICAL INFORMATION FOR GEOTHERMAL SITES IN WAIKATO REGION - Beadel
10:30	138   GEOLOGICAL MODEL & PERMEABILITY FRAMEWORK OF BUKIT DAUN GEOTHERMAL FIELD, INDONESIA - Ikhwan	116   REPRESENTATION OF UNKNOWN PARAMETERS IN GEOTHERMAL MODEL CALIBRATION - Bjarkason	37   CHANGING RESOURCE MANAGEMENT OF SURFACE WATER ALLOCATION TO MEET GEOTHERMAL DRILLING DEMANDS - Collins
10:45	42   A REVIEW OF THE HYDROGEOLOGY OF THE TAUHARA DOMESTIC BORES, TAUPŌ, NEW ZEALAND. - Lebe	123   THE ROLE OF THERMAL STRESS IN ENHANCING THE RESERVOIR PROPERTIES OF ENHANCED GEOTHERMAL SYSTEMS - Aliyu	47   SINTER-FORMING SPRINGS AND GEYSERS OF THE WAIKATO REGION - Luketina
11:00	9   THREE NEW HOT SPRING VENTS EXPOSED AT ORAKEI KORAKO GEOTHERMAL FIELD, NEW ZEALAND - Lynne	12   AN UPDATED COMPUTER MODEL OF ROTORUA GEOTHERMAL FIELD - Dekkers	44   GREENHOUSE GAS EMISSIONS FROM NEW ZEALAND GEOTHERMAL: POWER GENERATION AND INDUSTRIAL DIRECT USE - Mclean
11:15	25   IMAGING FEEDZONE DIVERSITY: CASE STUDIES FROM SUMATRA, INDONESIA AND THE TAUPŌ VOLCANIC ZONE, NEW ZEALAND - Wallis	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	51   ENVIRONMENTAL BASELINE SURVEY FOR GEOTHERMAL DEVELOPMENT AT KIBIRO GEOTHERMAL PROSPECT IN UGANDA - Ouma <b>INTERNATIONAL PRESENTATION</b>
11:30	50   BLACK TERRACE, ROTOMAHANA - White	124   A NEW NUMERICAL MODEL OF THERMAL APERTURE CHANGES IN AN ENHANCED GEOTHERMAL SYSTEM RESERVOIR - Aliyu	
11:45	122   FEEDZONE EVALUATION IN HULULAIS GEOTHERMAL FIELD, BENGKULU, INDONESIA - Arifin <b>INTERNATIONAL PRESENTATION</b>	43   PATCHING HELE-SHAW CELLS TO SIMULATE SILICA SCALE DEPOSITION IN DISCRETE FRACTURE NETWORKS - Aghajannezhad	
12:00	34   COMMON PRACTICE OF FORMATION EVALUATION PROGRAM IN GEOTHERMAL DRILLING - Chandra <b>INTERNATIONAL PRESENTATION</b>	101   SIMULATING INTERFERENCE EFFECT IN THE REINJECTION WELLS - Marastio <b>INTERNATIONAL PRESENTATION</b>	
12:15	<b>Lunch and Poster Session:</b> 18   NEW ZEALAND'S REGULATORY AND PLANNING FRAMEWORK FOR CONVENTIONAL GEOTHERMAL RESOURCE USE - Kissick 20   GEOCHEMISTRY OF EXTENSIONAL-TYPE GEOTHERMAL SYSTEMS IN UGANDA - Twesigye 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 - Mardiana		
1:15	<b>Keynote 2</b>		
	Session 2.1 - TITLE Treaty Room 1	Session 2.2 - TITLE Treaty Room 2	Session 2.3 - TITLE Rangitira Room
2:00			
2:15	83   B-VALUE MAPPING FOR VOLCANIC-RELATED GEOTHERMAL SYSTEM: A CASE STUDY FOR NEVADO DEL RUIZ VOLCANO, COLOMBIA - Bustos	16   GEOHEAT STRATEGY FOR AOTEAROA N.Z. – 2020 PROGRESS UPDATE - Carey	96   SIMULATING EFFECT OF INSULATED DRILLPIPE ON DOWNHOLE TEMPERATURE IN SUPERCRITICAL GEOTHERMAL WELL DRILLING - Ando <b>INTERNATIONAL PRESENTATION</b>
2:30	139   A CONCEPTUAL APPROACH TO "3-D PLAY FAIRWAY" ANALYSIS FOR GEOTHERMAL EXPLORATION AND DEVELOPMENT - O'Brien	17   OPTIMAL SETTINGS FOR DIRECT GEOTHERMAL USE INVESTIGATED WITH NUMERICAL MODELLING - Pearson-Grant	99   WELLTEC COMPLETION SOLUTIONS METAL EXPANDABLE PACKER AND 2ND STAGE CEMENTING FOR GEOTHERMAL WELL RE-LINING EDC PHILIPPINES - Jamieson <b>INTERNATIONAL PRESENTATION</b>
2:45	134   SURFACE HEAT LOSS ASSESSMENT OF ROTORUA GEOTHERMAL FIELD, NEW ZEALAND - Seward	14   CAN THE REYKJAVÍK DISTRICT HEATING SYSTEM (DHS) BE USED AS A MODEL FOR A ROTORUA DHS? A COMPARATIVE STUDY - Zuquim	98   DRILL BITS SELECTION IN NON-CONSIGNMENT PROCUREMENT ARRANGEMENT IN GEOTHERMAL DRILLING PROJECT - Kusumawardani <b>INTERNATIONAL PRESENTATION</b>
3:00	22   CONCEPTUAL MODEL OF OUTFLOW ZONE IN MOUNT UNGARAN GEOTHERMAL SYSTEM, SEMARANG, CENTRAL JAVA USING GEOLOGY AND GEOCHEMISTRY OF MANIFESTATION ANALYSIS - Kencana <b>INTERNATIONAL PRESENTATION</b>	4   FUTURE SUCCESS LOW TEMPERATURE MICRO GEOTHERMAL POWER GENERATION - Emrich <b>INTERNATIONAL PRESENTATION</b>	

3:15	Afternoon Tea		
	Session 3.1 - TITLE Treaty Room 1	Session 3.2 - TITLE Treaty Room 2	Session 3.3 - TITLE Rangitira Room
3:45	27   GEOTHERMAL STEAM TURBINE DEPOSITION FUNDAMENTALS - Addison	117   OPTIMAL DATA COLLECTION AND DATA-WORTH-ANALYSIS FOR GEOTHERMAL MODEL CALIBRATION - Nicholson	126   GEOLOGY FAULT NETWORK OF HULULAIS GEOTHERMAL SYSTEM, BENGKULU, INDONESIA - Nurseto <b>INTERNATIONAL PRESENTATION</b>
4:00	26   NGATI TUWHARETOA GEOTHERMAL ASSETS LTD REBOILER PLANT WATER/STEAM CHEMISTRY IMPROVEMENTS TO RESOLVE ONGOING CORROSION ISSUES - Addison	28   NUMERICAL PRESSURE TRANSIENT ANALYSIS USING THE VOLSUNG GEOTHERMAL RESERVOIR SIMULATOR - Mclean	127   VOLCANOSTRATIGRAPHY OF HULULAIS GEOTHERMAL FIELD, BENGKULU, INDONESIA - Pratama <b>INTERNATIONAL PRESENTATION</b>
4:15	63   RATIONALE FOR SCIENTIFIC DRILLING AT THE OKATAINA VOLCANIC CENTRE: EXPLORING INTERACTIONS BETWEEN AN ACTIVE CALDERA, RIFT, FLUID CIRCULATION AND MICROBIOTA - Massiot	6   AN UPDATED COMPUTER MODEL OF MONTSERRAT GEOTHERMAL FIELD - O'Sullivan	55   GEOLOGY OF EXTENSIONAL-TYPE GEOTHERMAL SYSTEMS IN UGANDA. - Rusoke <b>INTERNATIONAL PRESENTATION</b>
4:30	56   GENERATOR EXCITATION SYSTEM REPLACEMENT IN GEOTHERMAL POWER STATIONS – MERITS AND PITFALLS - Paloso	11   DEVELOPMENT OF A TRANSIENT, MULTI-FEED GEOTHERMAL WELLBORE SIMULATOR - Tonkin	88   SIGNIFICANCE AND METHODOLOGY OF GEOTHERMAL RESOURCE POTENTIAL SURVEY IN JAPAN - Tano <b>INTERNATIONAL PRESENTATION</b>
4:45	97   DEI, DOUBLE ENERGY INPUT - Ramirez	10   ON THE CHOICE OF PRIMARY VARIABLES IN TRANSIENT GEOTHERMAL WELLBORE MODELLING - Tonkin	85   HYDROTHERMAL ALTERATION AND FLUID CHARACTERISTIC STUDY OF PANTI GEOTHERMAL FIELD, PASAMAN REGENCY, WEST SUMATRA, INDONESIA - Wibisono <b>INTERNATIONAL PRESENTATION</b>

# Wednesday 25 November

8:45	Housekeeping		
9:00	Keynote 3		
9:45	Morning Tea		
	Session 4.1 - TITLE Treaty Room 1	Session 4.2 - TITLE Treaty Room 2	Session 4.3 - TITLE Rangitira Room
10:15	90   SEASONAL INJECTIVITY CHANGES AT NGATAMARIKI - Potter	66   A HOLISTIC AND CULTURALLY RESPONSIVE APPROACH TO GEOTHERMAL PLANNING, MONITORING AND MANAGEMENT - Clubb	107   DISCRETE VS INTEGRATED PROJECT MANAGEMENT (IPM) AND INTEGRATED DRILLING SERVICE (IDS) CONTRACT FOR GEOTHERMAL DRILLING IN INDONESIA - Agustino <b>INTERNATIONAL PRESENTATION</b>
10:30	64   SUCCESSFUL TURBINE GENERATOR OUTAGE EXECUTION - Krige	130   HE PUNA I RAWEKE, HE PUNA WHAKATŌTŌ - Severne	59   PRE INDEPENDENT AFRICA: A LOST OPPORTUNITY FOR GEOTHERMAL RESOURCE DEVELOPMENT - Bacwa <b>INTERNATIONAL PRESENTATION</b>
10:45	62   DIGITAL TWINS FOR THE GEOTHERMAL INDUSTRY: THEORY AND PRACTICE - Young	48   TWENTY-FIVE YEARS OF GEOTHERMAL MONITORING BY WAIKATO REGIONAL COUNCIL: EMBRACING CHANGE, COLLABORATION, AND INNOVATION - Luketina	57   COMPARISON OF WELLHEAD COMPLETION DESIGNS FOR GEOTHERMAL OPERATIONS IN INDONESIA: EXPANSION SPOOL AND CASING HEAD COMPLETIONS IN INDONESIA - Putri <b>INTERNATIONAL PRESENTATION</b>
11:00	67   POIHIPI COOLING WATER SYSTEM - TAKING A HOLISTIC APPROACH TO INVESTIGATING PROBLEMS AND IMPLEMENTING SOLUTIONS - Young	128   TE AHI TIPUA KI TĀHORAKURI A130: ESTABLISHING AN ECONOMIC DEVELOPMENT PLAN FOR WHANAU & HAPŪ IN DEGRADED GEOTHERMAL ENVIRONMENTS - Kora	91   NON-PRODUCTIVE TIME ANALYSIS FROM GEOTHERMAL DRILLING CAMPAIGN IN WEST JAVA TO IMPROVE FUTURE DRILLING PLANNING - Rachmadani <b>INTERNATIONAL PRESENTATION</b>
11:15	15   PENTANE EVACUATION FOR BINARY PLANTS - Mclellan	89   GEOTHERMAL DEVELOPMENT: A GAME OF CHANCE AND WIT - Hunter	92   DRILLING ACTIVITIES AND PARAMETERS ANALYSIS TO OPTIMIZE STUCK PIPE PREVENTION IN A GEOTHERMAL FIELD - Yuswandari <b>INTERNATIONAL PRESENTATION</b>
11:30	81   WELL PERFORMANCE DIAGNOSTICS AND FORECASTING USING THE GUDRUN WELLBORE SIMULATOR - A CASE STUDY FROM KAWERAU, NEW ZEALAND - Quinao	32   COMMUNITY ENGAGEMENT IN GEOTHERMAL DEVELOPMENT IN UGANDA. CASE STUDY OF KIBIRO GEOTHERMAL PROSPECT. - Aijuka <b>INTERNATIONAL PRESENTATION</b>	94   UTILISATION AND SEQUESTRATION OF SUPERCRITICAL CARBON DIOXIDE IN THE GEOTHERMAL FIELD - Tosha <b>INTERNATIONAL PRESENTATION</b>
11:45	71   MANAGING DEBRIS IN GEOTHERMAL PRODUCTION FLUID - Rivera Diaz	24   GENDER MAINSTREAMING IN THE DEVELOPMENT OF DIENG AND PATUHA GEOTHERMAL FIELD, INDONESIA - Yogandari <b>INTERNATIONAL PRESENTATION</b>	86   THE PROVISIONAL RESULTS OF EGS APPLICATION ON GEOTHERMAL POWER PLANT IN JAPAN - Yoshimatsu <b>INTERNATIONAL PRESENTATION</b>
12:00	87   OPPORTUNITIES FOR ELECTRICITY GENERATION WITH BINARY CYCLE POWER PLANTS IN LUMUT BALAI GEOTHERMAL AREA - Gunawan <b>INTERNATIONAL PRESENTATION</b>		
12:15	Lunch		
1:15	Keynote 4		
	Session 5.1 - TITLE Treaty Room 1	Session 5.2 - TITLE Treaty Room 2	Session 5.3 - TITLE Rangitira Room
2:00	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	141   BUOYANCY VORTEX POWER FROM LOW-TEMPERATURE HEAT: PROGRESS - Hawkes
2:15	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	84   WELL INTERVENTION AND ENHANCEMENT IN DIENG GEOTHERMAL FIELDS, INDONESIA - Elfajrie <b>INTERNATIONAL PRESENTATION</b>
2:30	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	30   SIGNIFICANCE OF PRESSURE LET DOWN STATION IN MITIGATING EFFECTS OF SILICA PRECIPITATION IN STEAM PIPELINES. A CASE STUDY OF OLKARIA - Chumari <b>INTERNATIONAL PRESENTATION</b>
2:45	106   STUCK PIPE FREEING PROBABILITY OF SUCCESS IN GEOTHERMAL DRILLING OPERATION: A CASE STUDY IN WEST JAVA - Alamsyah <b>INTERNATIONAL PRESENTATION</b>	103   GEOTHERMAL STEAM PURITY MODELLING – THEORY AND PRACTICE - Mills	
3:00	111   CHALLENGES IN PROVIDING A RELIABLE WATER DISTRIBUTION SYSTEM FOR GEOTHERMAL DRILLING OPERATION IN INDONESIA - Adityatama <b>INTERNATIONAL PRESENTATION</b>	70   INVESTIGATION AND APPLICATION OF FLASHING FLOW NOZZLES TO MITIGATE GEOTHERMAL TURBINE LIFE REDUCTION AT TE MIHI STATION - Misa	
3:15	Afternoon Tea		

	Session 6.1 - TITLE Treaty Room 1	Session 6.2 - TITLE Treaty Room 2
3:45	8   A PRACTICAL APPLICATION OF CHLORIDE MASS BALANCE METHOD TO THE EVALUATION OF A GEOTHERMAL STEAM GENERATION SYSTEM IN INDONESIA - Dong	19   NEW ZEALAND'S SUPERCRITICAL OPPORTUNITY: MOVING FROM POTENTIAL RESOURCE TO DEPLOYED TECHNOLOGY - Blair
4:00	136   TURBULENCE MEDIATED RAPID ALUMUINOSILICATE FORMATION IN HYDROTHERMAL VEIN BRECCIA: NGATAMARIKI GEOTHERMAL POWERSTATION, NEW ZEALAND - Newton	137   A ROBUST SUPERCRITICAL GEOTHERMAL SIMULATOR - O'Sullivan
4:15	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   FUTURE GEOTHERMAL GENERATION STACK: FACTORS INFLUENCING NEW GEOTHERMAL PROJECTS IN NZ TO 2060 - Lawless
4:30	52   CO2 DISCHARGE FROM LAKE ROTOITI, NEW ZEALAND - Yang	59   PRE INDEPENDENT AFRICA: A LOST OPPORTUNITY FOR GEOTHERMAL RESOURCE DEVELOPMENT - Bacwa <b>INTERNATIONAL PRESENTATION</b>
4:45	29   HYDROGEOCHEMICAL CHARACTERISTICS OF GEOTHERMAL WATER IN MOUNT LAWU, INDONESIA - Sahdarani <b>INTERNATIONAL PRESENTATION</b>	104   COVID-19 AND OIL PRICE DROP'S IMPACTS TO THE GEOTHERMAL DRILLING PROJECT IN INDONESIA - Fininda <b>INTERNATIONAL PRESENTATION</b>

6:00	Travel to Dinner Venue   via Ferry
7:00	NZGW Conference Dinner
10:30	The Duke of Marlborough Hotel   Russell

## Thursday 26 November

8:50	Housekeeping
9:00	NZGA Welcome
9:10	Industry Updates
9:20	
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10:30	Morning Tea
11:00	Industry Updates
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12:40	Lunch
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15:00	Afternoon Tea
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