

Geothermal Workshop 2019 Programme

Monday 25 November

8:00	Registration Open		
9:30	Housekeeping		
9:40	Welcome and Opening		
9:50	Keynote Patrick Walsh, ORMAT TECHNICAL AND ECONOMIC DEVELOPMENT OF HIGH ENTHALPY UPFLOW AND LOW ENTHALPY OUTFLOW IN VOLCANIC AND FRACTURE-CONTROLLED		
10:30	Morning Tea		
	Session 1.1 - Modelling & Simulation 1 Lecture Theatre OGGB 4	Session 1.2 - Geoscience 1 Lecture Theatre OGGB 5	Session 1.3 - Geothermal & Petroleum Case Room 2
10:50	80 NON-UNIQUENESS OF GEOTHERMAL NATURAL-STATE SIMULATIONS - Bjarkason	33 OVERVIEW OF THE GEOSCIENTIFIC UNDERSTANDING OF THE EGS UTAH FORGE SITE, UTAH, USA - Simmons	11 GEOTHERMAL ENERGY FROM PETROLEUM WELLS IN NEW ZEALAND-BENEFITS AND BARRIERS - Reyes
11:10	19 INTRODUCING THE VOLSUNG GEOTHERMAL SIMULATOR: BENCHMARKING AND PERFORMANCE - Franz	34 ORIGIN AND AGE OF FLUIDS AT THE CERRO PABELLÓN GEOTHERMAL SYSTEM, CHILE - Morata	66 WHAT OPPORTUNITIES ARE EVIDENT FOR GEOTHERMAL WITH THE LOSS OF KIWI GAS? - Rogers
11:30	20 INTRODUCING THE VOLSUNG GEOTHERMAL SIMULATOR: FEATURES AND APPLICATIONS - Clearwater	46 SUBSURFACE ALTERATION AND 3D MODELING IN ASAL-RIFT GEOTHERMAL FIELD, DJIBOUTI. - Aden	94 UTILIZATION OF ABANDONED OIL WELLS IN GEOTHERMAL APPLICATIONS - Jallinasrabady
11:50	7 NEW ZEALAND'S COLOMBO PLAN PROJECTS TO DEVELOP INDONESIA'S GEOTHERMAL FIELDS IN 1971 AND 1975. - Hochstein	48 THE CHARACTERISTICS OF HYDROTHERMAL ALTERATION AT STEAMING GROUNDS IN THE NORTHEASTERN PART OF TATUN VOLCANO GROUP, TAIWAN - Fujisaki	
12:10	Lunch and Poster session: 3 MILK PASTEURIZATION USING LOW-TEMPERATURE GEOTHERMAL FLUID IN DAUIN, NEGROS ORIENTAL, PHILIPPINES - Quinicot 47 COLOMBIA – A GEOTHERMAL OPPORTUNITY - Aguilera Bustos 51 ASSESSING FLUID FLOW IN LOW-ENTHALPY GEOTHERMAL FIELDS — AN EXAMPLE FROM THE WHATAROA VALLEY, SOUTH WESTLAND, NEW ZEALAND - Janku-Capova 55 INTEGRATION OF DRILLING AND WORKOVER SERVICES IN THE GEOTHERMAL PROJECT LAGUNA COLORADA - Garcia Antezana 57 GEOPHYSICAL IMAGING OF THE LIQUIÑE GEOTHERMAL SITE (39°S, CHILE) BY MEANS OF 3D GRAVITY INVERSION - Elizalde Guerrero 60 GEOTHERMAL DRILLING SYNERGISTIC APPROACH AND STRATEGY IN WEST JAVA - Agus 76 GEOTHERMAL CONCEPTUAL MODEL INFERRED FROM MAGNETOTELLURIC AND WELL LOGGING DATA IN THE SOUTH ILAN PLAIN, TAIWAN - Lin 78 NEW IMPLICATION OF WALL ROCK ALTERATION MINERALOGY IN THE HISHIKARI EPITHERMAL GOLD DEPOSIT, JAPAN - Gonoï 89 OVERVIEW OF HYDRAULIC FRACTURING DESIGN IN GEOTHERMAL ENVIRONMENT - Harahap 99 APPLICABILITY OF THE NA-K GEOTHERMOMETER IN SLATE FORMATIONS OF TAIWAN - Lu		
13:10	Keynote Katherine Young, National Renewable Energy Laboratory INNOVATING GEOTHERMAL WELLS		
	Session 2.1 - Modelling & Simulation 2 Lecture Theatre OGGB 4	Session 2.2 - Geoscience 2 Lecture Theatre OGGB 5	Session 2.3 - Silica & Corrosion 1 Case Room 2
13:50	42 AN UPDATE ON THE WAIWERA GEOTHERMAL FLOW SIMULATOR: DEVELOPMENT AND APPLICATIONS - Croucher	81 HYDROGEOLOGICAL CONTROLS ON STRATOVOLCANIC GEOTHERMAL SYSTEMS - Alexander	45 MATERIAL CORROSION TEST USING ACID AT VARYING PH AT A GEOTHERMAL FIELD IN JAPAN - Yanagisawa
14:10	44 LEAPFROG 3D TEMPERATURE DISTRIBUTION BASED ON TOUGH2 NUMERICAL MODELING IN ATADEI GEOTHERMAL FIELD, INDONESIA. - Supijo	93 GEOTHERMAL SUBSIDENCE AND INFLATION IN TAUPO: A COMPARISON OF DETECTION METHODS - Harvey	29 TWO VIEWPOINTS FOR REMOVAL OF SILICIC ACID FROM GEOTHERMAL WATER TO PREVENT SILICA SCALING - Yonezu
14:30	64 CHARACTERISTICS OF FLOWS IN Pervasively FRACTURED ANDESITES, ROTOKAWA GEOTHERMAL FIELD, NEW ZEALAND - Kissling	84 THICK SILICIC VOLCANIC SEQUENCES AT MUARA LABOH AND RANTAU DEDAP GEOTHERMAL FIELDS, SUMATRA, INDONESIA: IMPLICATIONS FOR RESERVOIR ARCHITECTURE AND PERMEABILITY - Mussofan	36 PROGRESS IN THE CALCIUM SILICATE TECHNOLOGY DEVELOPMENT TO PREVENT SILICA DEPOSITION AND FACILITATE ENHANCED ENERGY RECOVERY FROM A GEOTHERMAL RESOURCE - Johnston
14:50	73 AN UPDATED CONCEPTUAL MODEL OF THE TOMPASO GEOTHERMAL FIELD USING NUMERICAL SIMULATION - Lesmana	95 GEOCHRONOLOGY TO REFINE THE STRATIGRAPHY AND STRUCTURE OF THE ROTOKAWA GEOTHERMAL SYSTEM, TAUPO VOLCANIC ZONE, NEW ZEALAND - Milicich	39 REMOVING SILICA FROM GEOTHERMAL WATER - RE-DESIGN OF THE PILOT PLANT AND INVESTIGATION OF OPERATION AT ELEVATED PRESSURE - Borrmann
15:10	74 USE OF GRAVITY, MICROEARTHQUAKE, AND TRACER INJECTION TEST DATA IN CALIBRATING THE TIWI NUMERICAL RESERVOIR MODEL - Cinco	58 SUPERHOT FLUIDS: THE ORIGIN AND FLUX OF NATURAL GREENHOUSE GASES IN VOLCANIC AREAS - Chambeft	27 ONLINE GEOTHERMAL WELL STIMULATION AND SILICA DEPOSIT REMOVAL - Muller

15:30	Afternoon Tea		
	Session 3.1 Lecture Theatre OGGB 4 - Modelling and Simulation 3	Session 3.2 - Reservoir Characterisation Lecture Theatre OGGB 5	Session 3.3 - Silica & Corrosion 1 Case Room 2
16:00	98 EXPERIMENTS WITH VORONOI GRIDS FOR GEOTHERMAL MODELS - Michael	16 SEISMIC STUDIES OF GEOTHERMAL AREAS IN NEW ZEALAND - Savage	67 MECHANISM OF SILICA DEPOSITION IN FORMATION AND THE MANAGEMENT OPTIONS INVESTIGATED IN THE LABORATORY STUDY - Siega
16:20	83 NUMERICAL SIMULATION UPDATE OF DIENG GEOTHERMAL FIELD, CENTRAL JAVA, INDONESIA - Ashat	24 NOVEL APPLICATION OF CONTINUOUS GRAVITY AND GPS TO UNDERSTAND EFFECTS OF LIQUID SATURATION CHANGES ON YIELDING DEFORMATION - Bromley	82 FORMATION MECHANISM OF SILICA SCALE IN DIENG GEOTHERMAL POWER PLANT, INDONESIA - Juhri
16:40	86 MODELLING GEOTHERMAL POWER GENERATION FROM THE WAIOTAPU – WAIKITE – REPOROA GEOTHERMAL FIELDS - Pauline	52 DATA FUSION FOR GEOTHERMAL RESERVOIR CHARACTERIZATION - Gudjonsdottir	38 MECHANISM AND KINETICS OF CASIL PRECIPITATION - Fraser
17:00	85 CONCEPTUAL MODEL AND NUMERICAL SIMULATION UPDATE OF PATUHA GEOTHERMAL FIELD, WEST JAVA, INDONESIA - Ashat		56 APPLICATIONS OF CALCIUM SILICATES DERIVED FROM GEOTHERMAL RESOURCES - Cairns
17:20 19:00	Welcome Reception		
Tuesday 26 November			
9:00	Housekeeping		
9:20	Keynote Sara Montomoli, Enel Green Power GEOTHERMAL EXPLOITATION IN ENEL GREEN POWER – A HISTORY OF SUSTAINABLE DEVELOPMENT AND NEW CHALLENGES FOR THE FUTURE		
10:00	Morning Tea		
	Session 4.1 - Drilling and above ground technology 1 Lecture Theatre OGGB 4	Session 4.2 - Geothermal & Society Lecture Theatre OGGB 5	Session 4.3 - International Updates Case Room 2
10:30		32 MEDIA FRAMING ON SOCIAL ACCEPTANCE OF GEOTHERMAL DEVELOPMENT IN INDONESIA - Yogandari	NZTE Indonesia Wini Rizkingingayu
10:50	62 BREAKTHROUGH ON A ROTARY STEERABLE SYSTEM FOR GEOTHERMAL DRILLING IN A WEST JAVA FIELD - Agus	53 VOLCANOES AS A GATEWAY FOR YOUNG PEOPLE TO THE GEOTHERMAL WORLD - Otero	NZTE Philippines Hernando Banal
11:10	49 EXPERIMENTAL AND NUMERICAL STUDY OF GEOTHERMAL WELLBORE HEAT EXCHANGER IN ABANDONED GAS WELLS: A CASE STUDY FROM TAIWAN - Hsieh	70 AN HOLISTIC APPROACH TO IMPACT ASSESSMENT: REVITALISING THE PRESENCE OF MĀORI VALUES FOR CULTURAL SUSTAINABILITY IN GEOTHERMAL DEVELOPMENT - Taute	MFAT Brian White
11:30	8 MODIFICATION OF UNIT 1 COOLING TOWER (CT) TO IMPROVE THE CT PERFORMANCE IN STAR ENERGY GEOTHERMAL (WAYANG WINDU) LTD - Zein	10 GEOTHERMAL ENERGY AND ETHICAL RISK ASSESSMENT - Krieger	Bay of Plenty Regional Council Penny Doorman
11:50	21 COMMON CHARACTERISTICS OF PUMPED WELLS IN GEOTHERMAL POWER PROJECTS - Yearsley	5 THE DIGITAL UPGRADE - A NEW OPPORTUNITY FOR GEOTHERMAL ORGANIZATIONS? - Rumberg	
12:00	Lunch		
13:10	Keynote Novi Ganefianto, PT Supreme Energy CURRENT STATUS AND FUTURE PLANNING OF PT SUPREME ENERGY GEOTHERMAL WORKING AREAS, INDONESIA		

	Session 5.1 - Drilling and above ground technology 1 Lecture Theatre OGGB 4	Session 5.2 - International Projects Lecture Theatre OGGB 5	Session 5.3 - Geothermal Resources Case Room 2
13:50	79 PREDICTING SUCCESS OF WELL DISCHARGE AND AIR COMPRESSION OF TIWI WELLS USING AF/AC RATIO METHOD - Bravo	102 A COMBINED APPLICATION OF HIGH-RESOLUTION THERMAL INFRARED AND MAGNETIC DRONE-BASED SURVEYS OVER LARGE AREAS FOR GEOTHERMAL AND ELEMENT EXPLORATION IN WESTERN CANADA - Eyre	15 OHAAKI RESOURCE ASSESSMENT IN THE UNITED NATIONS FRAMEWORK CLASSIFICATION FOR RESOURCES (UNFC-2009) AND PROPOSAL TO CLASSIFY ALL NZ GEOTHERMAL SYSTEMS - Van Campen
14:10	13 MANAGING THE CYCLING EFFECT ON WELL EPT-L/1 - Cici	18 CLIMATE- AND WEATHER-RELATED FACTORS IN MAIBARARA GEOTHERMAL OPERATIONS - Delfin	101 GREENHOUSE GAS EMISSIONS FROM NEW ZEALAND GEOTHERMAL FIELDS IN CONTEXT - Mclean
14:30	23 CONDENSATION INDUCED WATER HAMMER, NEW ZEALAND GEOTHERMAL STEAMFIELD PIPING CASE STUDIES - Koorey		6 STRATIGRAPHIC RESERVOIRS: A SIGNIFICANT FUTURE RESOURCE IN THE U.S IN ADDITION TO EGS AND UNDISCOVERED HYDROTHERMAL RESERVOIRS - Allis
14:50	40 EXERGY ANALYSIS OF THE SOUTHERN NEGROS GEOTHERMAL POWER PLANT, PHILIPPINES - Bacus		59 GEOTHERMAL: THE NEXT GENERATION - Chambefort
3:10	Afternoon Tea		
15:40	Industry updates coordinated by the NZGA		
15:40	Geothermal NZ/ WGC Mike Allen		
16:00	Waikato Regional Council Katherine Luketina		
18:15	Travel to Dinner Venue		
18:30	NZGW Conference Dinner		
22:00	THE WHARF		

Wednesday 27 November

8:50	Housekeeping	
9:00	NZGA Welcome	
9:15	Mercury Nick Clarke	
9:30	Contact Mike Dunstall	
9:45	GNS Anya Seward	
10:00	Western Karl Spinks	
10:15	NTGA Jaime Quinao	
10:30	Morning Tea	
10:50	MacDermaid Institute Omid Taheri	
11:05	Ormat Patrick Walsh	
11:20	WING Abbie Dean	
11:35	MTL Leighton Taylor	
11:50	Industry Panel NZ Geothermal	
12:20	Lunch	
13:10	NZGA AGM	
13:40	Best paper awards	
13:50	Nalco Karl Barrie	
14:05	Seequent Jeremy O'Brien	
14:20	IGA Marit Brommer	
14:35	Geothermal institute Rosalind Archer	
14:50	Afternoon Tea	
15:20	Eastland (Video) Ben Gibson	
15:30	Jacobs Scott Henderson	
15:40	Solenis Logan Muller	
15:50	Mitchell Daysh Stephen Daysh	