

Wednesd	ay 18th November				
8.30am	Housekeeping				
8.40am	Welcome & Opening				
9.20am	Keynote 1: Manuel Ogena "The Growth of Philippine Geothermal Energy Development". Chair: Rosalind Archer				
10.00am	Morning Tea				
	Technical Session 1A: Technical Session 1B: Technical Session 1C:				
	Reservoir Engineering/Modelling	Above Ground	Dick Glover Memorial Session on Geochemistry		
	Karapiti Room. Chair: John O'Sullivan	Graham Room 1. Chair: Brian Carey	Heritage Room. Chair: Ed Mroczek		
10.30am	71: Geothermal Supermodels Project: an Update on Flow Simulator Development (Croucher)	Introduction to Direct Use Initiative by Brian Carey	161: Geochemical Response of the Rotokawa Reservoir to the First 5 Years of Nga Awa Purua (Addison)		
10.50am	48: Paiwera – a Robust Wellbore Simulator for Geothermal Applications (Franz)	53: Aerodynamic Design of Radial Inflow Turbine for Medium Scale Organic Rankine Cycle System (Chen)	76: Use of Isotopic Analysis to Distinguish Between Biological and Geothermal Soil CO₂ Flux at Tauhara and Te Mihi Geothermal Areas (Harvey)		
11.10am	89: Numerical Model of the Deep Hydrothermal Convection in the Taupo Volcanic Zone, New Zealand (Kaya)	126: The Conceptual Development of an Expert Process Design Tool for Above Ground Power Generation Technologies (Habib)	162: Rotokawa Reservoir Tracer Test History (Addison)		
11.30am	47: Probabilistic Resource Assessment Using the Ngatamariki Numerical Model Through Experimental Design and Response Surface Methods (ED and RSM) (Quinao)	141: Mineral Extraction From New Zealand's Geothermal Brines: Where to Next? (Climo)	116: Borehole Testing of Calcite Dispersion and Dissolution Chemicals at Tauhara Geothermal Field, Taupo, New Zealand (Seastres)		
11.50am	120: Numerical Experiments With Computer Models of Geysers (O'Sullivan, M)	110: Development of a Field-based Materials Test-rig (Heinzel)	135: Modeling of Alcohol Tracer Test in Vapor- dominated Geothermal Reservoir (Adrianto)		
12.10pm	 Lunch and Poster Session 12. A Monitoring of Hot Spring Aquifer Using Repeated Microgravity Measurements in the Northern Part of Beppu, Japan (Naritomi) 99. A Re-evaluation of Gravity Changes in the Early Stages of Exploitation at the Yanaizu-nishiyama Geothermal Field, Japan (Sugihara) 102. Implementation of the "new Tariff" for Geothermal Energy Development in Indonesia (Purwaningsih) 103. Characteristics of Geothermal Manifestations In/around the Buyan-bratan Caldera, Central Bali, Indonesia (Okamura) 132. Infrastructure Preparation of Geothermal Energy Development in Indonesia (Arifianto) 				
1.10pm	Keynote 2: Pri Utami "The Growth of Philippine Geothermal Energy Development". Chair: Juliet Newson				



	Technical Session 2A: GRN Karapiti Room. Chair: Bruce Mountain	Technical Session 2B: Above Ground Graham Room 1. Chair: E	Boaz Habib	Technical Session 2C: Environmental Issues Heritage Room. Chair: Kerin Brockbank
1.50pm	30: A 3-D Geological Model of the Rotorua Geothermal Field (Alcaraz)		o Phase Flows in Geothermal s: Field Trials Results (Sisler)	160: Personal Gas Detection Selection and Operation for Geothermal Power at Mighty River Power (Addison)
2.10pm	142: Monitoring and Quantifying Heat-loss from Significant Geothermal Areas via Remote-Sensing (Bromley)	41: Measurement of Two Pipelines using Radio Fre Measurements: Experim		43: Development of a Geothermal Resource Policy for Papua New Guinea (Chrisp)
2.30pm	17: An Integrated Approach to Geological and Fluid Flow Modeling: from a 3D Geological Model to TOUGH2 (Milicich)	137: Design of Heat Exch (Siwach)	angers – a CFD Approach	68: Effective Environmental Decision Making in the Pacific – Takara Geothermal Project, Efate, Vanuatu (Daysh)
2.50pm	67: Experimental Simulation of Re-injection of Non- condensable Gases Into Geothermal Reservoirs: Greywacke-fluid Interaction (Passarella)	158: Moisture Removal S Plants (Zarrouk)	System in Geothermal Steam	133: The Emissions Trading Scheme: Challenges and Future Impacts for Geothermal Power Plants (Lawson)
3.10pm	80: Toward Magmatic Source Models for Ngakuru Graben, Taupo Rift, New Zealand (Kissling)	159: Scrubbing Lines in G Generation Systems (Zar		109: Onekeneke Stream, Taupo: Historical Changes and Their Causes (Luketina)
3.30pm	Afternoon Tea			
	Technical Session 3A: GRN Karapiti Room. Chair: Bruce Mountain		Technical Session 3B: Above Ground (Binary - ORC) Graham Room 1. Chair: Lei Chen	
4.00pm	83: Electro-Fenton and Electrocoagulation for Small Scale Removal of H₂S from Geothermal Gas Streams (Mroczek)		88: Turboden ORC – Latest T Relevance to New Zealand Applications (N	echnology for Large-scale Binary Power Plants, With Minini)
4.20pm	70: Using Radiometric Dating Techniques to Constrain the Age and Duration of Geothermal Activity at the Extinct Ohakuri Hydrothermal System, Taupo Volcanic Zone, New Zealand (Rae)		<u> </u>	sibility Study for a Binary Geothermal Power Plant perature Heat Sources (Budisulistyo)
4.40pm	82: Geothermal Systems and Epithermal Deposits of New Zealand: a Fluid Chemistry Comparison (Simpson)		23: Effect of Organic Rankine Cycle Modification to System Performance (Hasan Baragbah)	
5.00pm	65: Geological Structures of the Okauia Low-T Geothermal System (Hauraki Rift Zone, New Zealand) Investigated Using Gravity Data and Digital Topographic Model (Soengkono)		·	lation of Annular Finned Tubes Evaporator for Cross- s - R245fa ORC System (Abbas)
5.20pm	Workshop Reception in association with Geothermal F	Resources New Zealand		



Thursday 19	November 2015		
8.50am	Housekeeping		
9.00am	Keynote 3: Greg Ussher. Chair: Manfred Hochstein		
	Technical Session 4A: Reservoir Engineering/Modelling Karapiti Room. Chair: Mike O'Sullivan	Technical Session 4B: Reservoir Engineering/Drilling Graham Room 1. Chair: Andy Bloomer	Technical Session 4C: Geothermal Geology Heritage Room. Chair: Andrew Rae
9.40am	51: Recent Developments in the PyTOUGH Scripting Library for TOUGH2 Simulations (Croucher)	10: Well Examination in New Zealand (Finnegan)	165: Relict and Modern Epidote: Lessons From Rantau Dedap, Sumatera (White)
10.00am	96: Predictive Uncertainty Estimates in Geothermal Reservoir Model by Linear Analysis (Omagbon)	140: Application of Coiled Tubing for Live Well Workovers (Aranas)	22: Trace Metals and Volatiles 3D Zoning in Active Geothermal Systems (Chambefort)
10.20am	Morning Tea		
	Technical Session 5A:	Technical Session 5B:	Technical Session 5C:
	Reservoir Engineering/Modelling	Reservoir Engineering/Drilling	Next 10,000MW
	Karapiti Room. Chair: David Dempsey	Graham Room 1. Chair: Hagen Hole	Heritage Room. Chair: Phil White
10.50am	122: Numerical Simulations of Hypothetical Enhanced Geothermal Systems (O'Sullivan, M)	78: Durability of the Cement in Geothermal Wells (Milestone)	54: Obstacles and Strategies of Achieving Geothermal Energy Target of 1000 MW in Ecuador: a Techno-Political Overview (Moya)
11.10am	121: Reservoir Modelling of the Geothermal System in Lahendong (O'Sullivan, J)	66: Optimising Silica Additions in a Durable Geothermal Cementing Formulation (Sharp)	91: Surface Exploration at Grenada Geothermal Field (Urzua)
11.30am	147: Hybrid Search of Global Solutions for Highly Non-linear Problems Using Treed Gaussian Process and Adaptive Sampling (Vidal)	27: Surface Analysis of Carbon Steel and Corrosion- Resistant Alloys Exposed to Acid-SO4= Chloride Type Geothermal Fluid (Zarrouk)	90: Results of Geothermal Surface Exploration of the Island of Grande Comore, Union of Comoros (Brotheridge)
11.50am	86: Modelling Fluid Flow Through Fractured Rock: Examples Using TVZ Geothermal Reservoirs (Kissling)	79: Slimhole Drilling: Maricaban Island (Tingloy) Low-enthalpy Geothermal Prospect (Halcon)	154: Kaitiakitanga and The Next 10,000 Megawatts (Bradshaw)
12.10pm	115: Improved Sensitivity Calculations (Bjarkason)		153: Exploration of Strato-Volcanic Geothermal Systems (Paradigms) (Hochstein)
12.30pm	Lunch		



Reservoir Engineering/Well Testing Karapiti Room. Chair: Sadiq Zarrouk 1.30pm 1.2: Standardised Reservoir Model Design for Simulating Pressure Transients in Geothermal Wells (McLean) 1.50pm 1.3: Simulating Pressure Transients in Geothermal Wells (McLean) 1.50pm 1.3: Impact of Cold Water Injection on Geothermal Pressure Transient Analysis: a Reservoir Modelling Assessment (McLean) 2.1: Thermal Infrared Cameras and Drones: a Match Made in Heaven for Cost-effective Geothermal Exploration, Monitoring and Development (Harvey) 2.10pm 1.4: Linear Impermeable Boundary in Geothermal Pressure Transient Analysis: a Reservoir Modelling Assessment (McLean) 2.10pm 1.4: Linear Impermeable Boundary in Geothermal Pressure Transient Analysis: a Reservoir Modelling Assessment (McLean) 2.30pm Afternoon Tea Technical Session 7A: Reservoir Engineering/Production Karapiti Room. Chair: Sadiq Zarrouk 3.00pm 1.1: Turbine Scaling (Morris) 1.1: Instrumentation for Geothermal Water and Steam Measurement – Ultrasonic, Vortex, & Radar Level (Pearl) 3.4: Dim Workshop Dinner' (Buses depart Wairakei Resort to Huka Prawn Park)		Technical Session 6A:	Technical Session 6B:		Technical Session 6C:
1.30pm		Reservoir Engineering/Well Testing	Geothermal Geophysics	S	Next 10,000MW
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4.20pm NZGA Annual General Meeting	4.00pm			· · · · · · · · · · · · · · · · · · ·	
5.45pm Workshop Dinner (Buses depart Wairakei Resort to Huka Prawn Park)	4.20pm				,
5.45pm Workshop Dinner (Buses depart Wairakei Resort to Huka Prawn Park)		-			
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Friday 20 N	ovember 2015		
8.50am	Housekeeping		
9.00am	Keynote 4: Isabelle Chambefort "The Magmatic-Hydrothermal Transition of The Taupo Volcanic Zone, New Zealand". Chair: Kevin Brown		
	Technical Session 8A: Geology Karapiti Room. Chair: Paul Bixley (TBC)	Technical Session 8B: Reservoir Engineering/Production Graham Room 1. Chair: Thomas Ratouis	
9.40am	73: Three Dimensional Conceptual Model of Orakeikorako and Te Kopia Geothermal Fields, Taupo Volcanic Zone, New Zealand (Alcaraz)	58: Adapting Surface Facilities to Changes in Rotokawa Reservoir in the First 5 Years of Nga Awa Purua (Hoepfinger)	
10.00am	100: Subsidence at Kawerau Geothermal Field, New Zealand (Kelly)	36: Rotokawa: Reservoir Response of 172 MW Geothermal Operation (Hernandez)	
10.20am	Morning Tea		
	Technical Session 9A: Geology	Technical Session 9B: Reservoir Engineering/Production	
40.50	Karapiti Room. Chair: Bridget Lynne	Graham Room 1. Chair: Justin Pogacnik	
10.50am	13: The Waitoa Low Enthalpy Geothermal System, New Zealand (Luketina)	7: Reservoir Tracer Test at the Ngatamariki Geothermal Field (Buscarlet)	
11.10am	8: Computerised Tomography (Ct) Scanning of Core From Tauhara Geothermal Field, New Zealand: a Pilot Study (Lynne)	152: Foam Slurry for Cementing Casing in Geothermal Wells (Perez)	
11.30am	98: Rotokawa Conceptual Model Update 5 Years After Commissioning of the 138 MWe NAP Plant (Sewell)	52: Perspectives on Geothermal Permeability (Wallis)	
11.50am	157: Geological Agency of Indonesia's Exploration Strategy on Non Volcanic Geothermal Areas (Wahyuningsih)	169: Catchments of Groundwater and Geothermal Systems in the Upper Waikato Area, Taupo Volcanic Zone, New Zealand (White, Paul)	
12.10pm	Lunch		
	NZGA Industry Updates		
1.10pm	Contact Energy – Mike Dunstall or Ted Montague		
1.20pm	Mighty River Power – Paul Ware		
1.30pm	Eastland Group – Ben Gibson		
1.40pm	Ngati Tuwharetoa Geothermal Assets – Daniel Britten		
1.50pm	WinG - Sue King		



2.00pm	Waikato Regional Council – Katherine Luketina
2.10pm	Bay of Plenty Regional Council – Penny Doorman
2.20pm	Hawkins - Bernard Hill
2.30pm	MB Century – Marcel Manders
2.40pm	Geothermal New Zealand – Mike Allen
2.50pm	NZGW Committee
3.10pm	Afternoon Tea
	NZGA Industry Updates
3.40pm	AECOM – Warwick Cutfield
3.50pm	Jacobs – Tracy Mills
4.00pm	Thorndon Cook – Roger Hudson
4.10pm	University of Auckland – Rosalind Archer
4.20pm	GNS Science – Greg Bignall
4.30pm	MBIE - Kennie Tsui
4.40pm	Paper awards and closure - Sadiq Zarrouk
5.00pm	Finish