

GRE2018 Preliminary Program

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Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-1	Numerical Modeling 6	20-Jun	9:00 - 10:15	304	Norihiro Watanabe (AIST, Japan)	Yasuhiro Fujimitsu (Kyushu University, Japan)	1	a90454	GEOCHEMICAL MODELING OF SILICA OVERSATURATED PERALKALINE VOLCANIC COMPLEX IN MENENGAI GEOTHERMAL SYSTEM, KENYA	Isaack Kiprono Kanda (Graduate School of Engineering, Kyushu University, Japan)
									2	a90163	ECLIPSE GEOTHERMAL, A NEXT GENERATION GEOTHERMAL SIMULATOR	Minh Pham (GeothermEx)
									3	a90456	NUMERICAL MODEL OF FUTSUKAICHI HOT SPRINGS, A LOW-ENTHALPY GEOTHERMAL SYSTEM IN JAPAN	Yasuhiro Fujimitsu (Department of Earth Resources Engineering, Faculty of Engineering, Kyushu University, Fukuoka, Japan)
									4	a90773	REMODEL OF GRID BLOCK SYSTEM OF CIWIDEY- PATUHA GEOTHERMAL SYSTEM	Welly Prabata (Geothermal Engineering Study Program, Institut Teknologi Bandung, Indonesia)
									5	a90778	AN IMPROVED NATURAL STATE MODEL OF ULUMBU GEOTHERMAL FIELD,EAST NUSA TENGGARA, INDONESIA	Iqbal Kurniawan (Geothermal Engineering Department, Institut Teknologi Bandung, Bandung, Indonesia)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-2	Power Generation and Direct use 5	20-Jun	10:45 - 12:00	304	Hirofumi Muraoka (Hirosaki University, Japan)	Norihiro Watanabe (AIST, Japan)	1	a90138	WATER BINARY POWER GENERATION FOR HOT SPRING WATER	CONSTANCE DJIATSA DEMANOU (COURSE OF MARINE SYSTEM ENGINEER,TOKYO UNIVERSITY OF MARINE SCIENCE AND TECHNOLOGY)
									2	a90786	CRITICAL SUCCESS FACTORS IN GEOTHERMAL DEVELOPMENT	Rosalind Archer (Geothermal Institute)
									3	a90606	UTILIZATION OF GEOTHERMAL HOT SPRING WATER FOR HYDROGEN PRODUCTION BY AI-H₂-O HYDROTHERMAL REACTION	Vani Novita Alviani (Graduate School of Environmental Studies, Tohoku University, 980-8579 Japan)
									4	a90795	APPRAISEMENT OF GEOTHERMAL WATER QUALITY ANALYSIS FOR INDUSTRIAL AND IRRIGATION PURPOSE IN UNAI GEOTHERMAL FIELD, GUJARAT, INDIA	Rajan Jayantilal Varsada (School of Petroleum Technology, Pandit Deendayal Petroleum University)
									5	a90551	MILK PASTEURIZATION BY RESIDUAL LOW ENTHALPY GEOTHERMAL WATER	Kriti Yadav (School of Petroleum Technology, Pandit Deendayal Petroleum University, Gujarat, India)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Invited Lecture	IL-Ge-1	Invited Lecture 1	20-Jun	13:30 - 14:00	304	Kasumi Yasukawa (AIST, Japan)		1	Invited9-1	HP/HT well logging and measurements as an immerging technology for geothermal development	Tae Jong Lee (KIGAM)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-3	Exploration	20-Jun	14:00 - 14:45	304	Toshihiro Uchida (AIST, Japan)	Kasumi Yasukawa (AIST, Japan)	1	a90217	ANALYSIS OF GRAVITY DATA FOR FIGURING OUT GEOTHERMAL RESERVOIR BORDER AND ASSESSMENT OF GEOTHERMAL POTENTIAL IN THE MUNICIPALITY OF ISA, KAGOSHIMA PREFECTURE	CARLOS OSMIN POCASANGRE (Department of Earth Resources Engineering, Graduate School of Engineering, Kyushu University, Japan)
									2	a90936	EVALUATION OF GEOTHERMAL RESERVOIR AND TL BEHAVIOR FOR GEOTHERMAL ENERGY RESOURCES	Alvaro Josue Amaya (Graduate School of Environmentak Studies, Tohoku University, Sendai, Japan)
									3	a90384	TEMPERATURE, PRESSURE AND WELL TEST ANALYSIS OF ALUTO LANGANO GEOTHERMAL FIELD, ETHIOPIA	Teka Nigusie Gebru (Aluto Geothermal Project, Addiss Abeba, Ethiopia)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-4	Geophysical Aspects 1	20-Jun	15:00 - 16:00	304	Kyosuke Okamoto (AIST, Japan)	Toshihiro Uchida (AIST, Japan)	1	a90374	EFFECTS OF WATER SATURATION, FRACTURE AND SALINITY ON ELECTRIC AND ELASTIC PROPERTIES OF FRACTURED GEOTHERMAL ROCKS	Kazuki Sawayama (Department of Earth Resources Engineering, Graduate school of Engineering, Kyushu University, Fukuoka, Japan)
									2	a90514	DISCOVERY OF EARTHQUAKE-INDUCED BOILING FOUNTAINS IN ONIKOBE CALDERA, NORTHEASTERN JAPAN	Hirofumi Muraoka (Hirosaki University)
									3	a90605	CHARACTERIZATION OF GEOTHERMAL ENERGY RESOURCE IN EBURRU, KENYA USING MAGNETOTELLURIC (MT) TECHNIQUE.	Justus Mutuku Maithya (Department of Earth Resources Engineering, Kyushu University, 819-0395 Japan)
									4	a90236	PRECISE MICROEARTHQUAKE HYPOCENTER DETERMINATION BY USING DETONATION SHOTS IN WELL	Hideshi Kaieda (Central Research Institute of Electric Power Industry, Japan)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-5	Geophysical Aspects 2	20-Jun	16:15 - 17:15	304	Hideshi Kaieda (Central Research Institute of Electric Power Industry, Japan)	Yusuke Yamaya (FREA, AIST, Japan)	1	a90128	IMPROVEMENT IN ACCURACY OF HYPOCENTER DETERMINATIONSUSING BOREHOLE SENSORS IN OKUAIZU GEOTHERMAL FIELD	Kyosuke Okamoto (Advanced Industrial Science and Technology)
									2	a90699	PRECISION GRAVITY MONITORING OF SALAK GEOTHERMAL FIELD: INSIGHT AND CONSTRAINTS FOR NUMERICAL SIMULATION	Muhamad Wildan Perdana (Star Energy Geothermal)
									3	a91139	THERMALLY INDUCED SEISMICITY	Masami Nakagawa (Colorado School of Mines)
									4	a90326	MICROSEISMIC INVESTIGATION OF A JAPANESE GEOTHERMAL FIELD	Alan Lucas (International Earth Sciences IESE Ltd (IESE))
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-6	Supercritical geothermal resources	21-Jun	9:00 - 10:30	304	Yusuke Yamaya (FREA, AIST, Japan)	Hiroshi Asanuma (FREA, AIST, Japan)	1	a90137	CURRENT STATUS OF STUDIES ON SUPERCRITICAL GEOTHERMAL DEVELOPMENT IN JAPAN	Hiroshi Asanuma (FREA, AIST, Koriyama, Japan)
									2	a90614	SUPERCRITICAL GEOTHERMAL RESOURCES-GEOLOGICAL MODEL AND ITS ENGINEERED PERSPECTIVE-	Noriyoshi Tsuchiya (Graduate School of Environmental Studies, Tohoku University)
									3	a90328	NUMERICAL EXPERIMENTS OF SILICA TRANSPORT IN SUBCRITICAL AND SUPERCRITICAL WATER	Norihiro Watanabe (Geothermal Energy Team, National Institute of Advanced Industrial Science and Technology, Fukushima, Japan)
									4	a90354	AE MEASUREMENT DURING HYDRAULIC FRACTURING OF INADA GRANITE AT 400°C VIA THE NOVEL TRUE TRIAXIAL SYSTEM AT TOHOKU UNIVERSITY	Takuya Ishibashi (Fukushima Renewable Energy Institute, AIST, Fukushima, Japan)
									5	a90511	DISTRIBUTION OF SUPERCRITICAL GEOTHERMAL RESOURCESBASED ON RESISTIVITY STRUCTURE AT VOLCANIC AREAS IN JAPAN	Yusuke Yamaya (Fukushima Renewable Energy Institute, AIST, Japan)

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									6	a90613	EVALUATION OF DEEP GEOTHERMAL RESERVOIR AND MAGMA PROCESS REVEALED BY MELT INCLUSION -EXAMPLE IN FUKANO CALDERA, NE JAPAN-	Fajar Febiani Amanda (Tohoku University)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-7	Geochemistry	21-Jun	10:45 - 11:30	304	Noriyoshi Tsuchiya (Tohoku University, Japan)	Hideshi Kaieda (Central Research Institute of Electric Power Industry)	1	a90057	COMPREHENSIVE MATERIAL QUALIFICATION TEST FOR LOW pH GEOTHERMAL WELL REQUIREMENTS	Richard Catindig de Guzman (Energy Development Corporation)
									2	a90337	THE MATERIAL CORROSION PROBLEM FOR SUPERCRITICAL GEOTHERMAL SURVEY	Norio Yanagisawa (AIST-FREA,Fukushima,Japan)
									3	a90277	ASSESSMENT OF SILICA SINTER DEPOSITS OF THE TOKAANU-WAIHI VOLCANIC GEOTHERMAL SYSTEM (TAUPO VOLCANIC ZONE -NEW ZEALAND)	Maria Fernanda Soto (International Earth Sciences IESE Ltd, 29 East Street, Auckland, 1010, New Zealand)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Invited Lecture	IL-Ge-2	Invited Lecture 2	21-Jun	13:30 - 14:00	304	Kasumi Yasukawa (AIST, Japan)		1	a90499	THE CHALLENGES OF GEOTHERMAL ENERGY EDUCATION	Juliet Ann Newson (Iceland School of Energy, Reykjavik University, Iceland)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-8	Social and Environmtl	21-Jun	14:00 - 15:30	304	Aki Suwa (Kyoto Women's University, Japan)	Anbumozhi Venkatachlam (ERIA, Indonesia)	1	a90201	Overcoming Barriers to Geothermal Energy Development in Indonesia	Anbumozhi Venkatachlam (Economic Research Institute for ASEAN and East Asia (ERIA))
									2	a90168	BARRIERS TO GEOTHERMAL ENERGY USE IN EAST AND SOUTHEAST ASIA	Toshihiro Uchida (National Institute of Advanced Industrial Science and Technology, Japan)
									3	a90093	EXPECTED BENEFIT OF GEOTHERMAL ENERGY USE IN EAST AND SOUTHEAST ASIA	Kasumi Yasukawa (National Institute of Advanced Industrial Science and Technology)
									4	a90253	GEOTHERMAL ENERGY AND COMMUNITY SUSTAINABILITY	Aki Suwa (Kyoto Women's University, Kyoto, Japan)
									5	a90449	AN EU INITIATIVE TO ESTABLISH A RISK ASSESSMENT FRAMEWORK FOR HIGH TEMPERATURE GEOTHERMAL WELLS	Mohammad Mansouri Majoumerd (International Research Institute of Stavanger (IRIS))
									6	a90482	Geothermal energy and UNU-GTP: Contribution to the UN SDGs	Malfridur Omarsdottir (United Nations University Geothermal Training Programme)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-9	GSHP: Assessment and mapping	21-Jun	15:45 - 16:30	304	Youhei Uchida (AIST, Japan)	Katsunori Nagano (Hokkaido University, Japan)	1	a90167	SUITABILITY ASSESSMENT FOR INSTALLATION OF GROUND-SOURCE HEAT PUMP SYSTEM	Gaurav Shrestha (National Institute of Advanced Industrial Science and Technology, Japan)
									2	a90896	Estimation of Groundwater Velocity Using Thermal Response Test Result	Takao Katsura (Graduated School of Hokkaido University, Japan)
									3	a90880	NATION SCALE POTENTIAL OF CO ₂ EMISSION REDUCTION BY GROUND SOURCE HEAT PUMP SYSTEM IN JAPAN WITH GEOLOGIC COMPLEXITY	Yoshitaka Sakata (Hokkaido University, Sapporo, Japan)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-10	GSHP: Cooling	21-Jun	16:30 - 17:30	304	Thang Tran (Vietnam Institute of Geosciences and Mineral Resources)	Gaurav Shrestha (AIST, Japan)	1	a90924	CCOP GROUNDWATER PROJECT AND APPLICATION OF GROUND SOURCE HEAT PUMP SYSTEM	Youhei Uchida (National Institute of Advanced Industrial Science and Technology)
									2	a90518	GENERAL ASSESSMENT FOR POTENTIAL OF GROUND SOURCE HEAT PUMP INSTALLATION IN RED RIVER DELTA, VIETNAM	Thang Trong Tran (Vietnam Institute of Geosciences and Mineral Resources, Hanoi, Vietnam)
									3	a90251	EXPERIMENTAL INVESTIGATION OF GROUND SOURCE HEAT PUMP SYSTEM FOR SPACE COOLING IN THAILAND	Sasimook Chokchai (Department of Geology, Chulalongkorn University, Bangkok, Thailand)
									4	a90287	GROUND SOURCE HEAT PUMP APPLICATION IN THAILAND AND VIETNAM	Arif Widiatmojo (National Institute of Advanced Industrial Science and Technology)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-11	GSHP: Thermal conductivity and optimal design 1	22-Jun	9:00 - 10:30	304	Kastunori Nagano (Hokkaido University, Japan)	Youhei Uchida (AIST, Japan)	1	a90254	Comparison of effective thermal conductivity and thermal conductivity of core samples in the Sendai Plain, Japan	Shohei Kaneko (Fukushima University, Fukushima, Japan)
									2	a90837	ANALYSIS OF THERMAL RESPONSE TEST IN GRAVEL AQUIFER WITH FAST GROUNDWATER VELOCITY	HOBYUNG CHAE (Division of Human Environmental System, Hokkaido University, Sapporo, Japan)
									3	a90225	Comparison of geological structure with effective thermal conductivity of ground in the Aizu Basin, northeast Japan	Takeshi Ishihara (National Institute of Advanced Industrial Science and Technology, Fukushima, Japan)
									4	a90183	Operating high-efficiency Aquifer Thermal Energy Storage (ATES) cooling and heating system and recovering the temperature of aquifers using solar collectors	Jun Inoue (Japan Groundwater Development CO.,LTD)
									5	a90075	Study on the Heat Source System Utilizing Combined Underground Heat(Part1)The Outline of the Building plan and the Heat Source System	Hisashi Wakayama (Department of Architecture, Chiba Institute of Technology, Chiba, Japan)
									6	a90127	Study on the Heat Source System Utilizing Combined Underground Heat(Part2)The Result of First Year Operation	Takashi Sakabe (Environmental and MEP Engineering Dept., Nihon Sekkei, Tokyo, Japan)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Oral Session	O-Ge-12	GSHP: Thermal conductivity and optimal design 2	22-Jun	10:45 - 12:15	304	Gaurav Shrestha (AIST, Japan)	Arif Widiatmojo (AIST, Japan)	1	a90966	THE NEW HEAT EXCHANGER OF GROUND SOURCE FOR RENEWABLE ENERGY	Hisao Yamanobe (PRESIDENT OF VIRTUAL HARMONY Co. Ltd, IWAKI CITY, JAPAN)
									2	a90346	A STUDY ON FLUID CHARACTERISTICS FOR OPTIMAL DESIGN OF DOUBLE PIPE GEOTHERMAL HEAT EXCHANGER	Youngwook Jung (Seoyoung Engineering Co., Ltd., Seoul, Korea)
									3	a90526	STUDY ON HYBRID HEAT PUMP SYSTEM COUPLING AIR-SOURCE AND GROUND-SOURCE FOR AIR-CONDITIONING SYSTEMESTIMATION FOR CAPACITY BALANCE OF HEAT-SOURCE IN EARLY DESIGN PHASE	Gyuyoung Yoon (Nagoya City University, Nagoya, Japan)

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									4	a90564	Relationship between ground temperature performance and ground surface coverage in Slinky-coil type horizontal ground heat exchanger	Shunsuke Tsuya (Graduate School of International Resource Sciences, Akita University, Akita, Japan)
									5	a91062	NUMERICAL SIMULATIONS ON THERMAL PERFORMANCE OF GROUND HEAT EXCHANGER WITH DIFFERENT U-TUBE CROSS SECTIONS	Ahmed A. Serageldin (Environmental System Research Laboratory Graduate School of Engineering, Hokkaido University, Division of Human Environmental Systems)
									6	a91108	Cloud-Type Software for Designing and Performance Prediction for Complex Ground Source Heat Pump System	Kastunori Nagano (Hokkaido University, Sapporo, Japan)
Area IX: Geothermal Energy & Ground-Source Heat Pump	Poster Session	P-Ge	Geothermal Energy & Ground-Source Heat Pump	21-Jun	12:20 - 13:20	foyer			1	a90089	UNDERSTANDING GEOTHERMAL RESERVOIRS USING 3D MODELLING TECHNIQUES: A CASE STUDY OF THE EBINO PROSPECT, SOUTHERN JAPAN	Hugh Barry O'Keefe (Geothermal Development & Investment, 2-5-10 Minato-ku, Shibakoen ND Bldg 6F, Tokyo 105-0014 Japan)
									2	a90192	Identification of polarized microearthquake reflections with time-frequency domain representation	Li Yi (Fukushima Renewable Energy Institute, National Institute of Advanced Industrial Science and Technology, Fukushima, Japan)
									3	a90283	GEOCHEMICAL CHARACTERISTICS OF BOILING FOUNTAINS IN ONIKOBE CALDERA, NORTHEASTERN JAPAN	Seiichiro Ioka (North Japan Research Institute for Sustainable Energy, Hirosaki University, Aomori, Japan)
									4	a90403	EXPLORATION AND MONITORING OF HATCHOBARU-OTAKE GEOTHERMAL FIELD USING ASTER SATELLITE IMAGES	Md. Bodruddoza Mia (Department of Earth Resources Engineering, Kyushu University, Fukuoka, Japan)
									5	a91005	A DENSITY STRUCTURE INFERRED FROM AIRBORNE GRAVITY GRADIOMETRY DATA IN KUJU GEOTHERMAL FIELD, CENTRAL KYUSHU, JAPAN	Jun Nishijima (Department of Earth Resources Engineering, Kyushu University, Fukuoka, Japan)
									6	a90271	THE SEISMOGENIC POTENTIAL OF WITHDRAWAL-REINJECTION CYCLES: NUMERICAL MODELLING AND IMPLICATION ON INDUCED SEISMICITY	Renato Somma (Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Vesuviano 80124 Italy)
									7	b90045	DEVELOPMENT AND FIELD DEMONSTRATION OF BINARY POWER GENERATION SYSTEM USING WATER AS WORKING FLUID	Taro Kawamura (Research and Development Division, The Institute of Applied Energy, Japan)
									8	a90098	ENVIRONMENTAL AND COST EVALUATION OF INTRODUCTION OF GROUND SOURCE HEAT PUMP IN BANGKOK, THAILAND	Yutaro Shimada (College of Engineering, Shibaura Institute of Technology, Tokyo, Japan)
									9	a90471	Evaluation of the Module for HVAC System Combining with Ground-source Heat Pump	Sungryong Bae (School of Design and Architecture, Nagoya City University, Nagoya, Japan)
									10	a90176	EMPLOYING THE CLIMATE BASED APPROACH FOR DETERMINING EARTH-AIR HEAT EXCHANGER FEASIBILITY IN THE CONTEXT OF CANADIAN CLIMATES	Andrew Marian Zajch (Department of Physical and Environmental Sciences, University of Toronto Scarborough Campus, Canada)
									11	b90041	RESERVOIR CHARACTERIZATION USING WELL TESTING RESULTS OF ALUTO-LANGANO GEOTHERMAL FIELD, ETHIOPIA	Dejene Mulugeta Bekele (Department of Cooperative Resources Engineering, Kyushu University, Japan)
									12	a90276	RESERVOIR PROPERTIES OF SANDSTONE AQUIFER IN DEZHOU, NORTHERN CHINA	Tingting Zheng (University of Iceland, 101 Iceland)
									13	b90063	COOLING PERFORMANCE OF GROUND-SOURCE HEAT PUMP SYSTEM USING SURFACE WATER HEAT EXCHANGER (SWHE)	Byonghu Sohn (Department of Living and Built Environment Research, Korea Institute of Civil Engineering and Building Technology, Goyang, Korea)