

Program of the 12th Asian Geothermal Symposium (AGS12)

Friday, 9 November

IEA-GIA Annex VIII (Direct Use) Workshop

*Shuttle bus leaves YouSung Hotel at 8:50 am.

Saturday, 10 November

9:00 - Bus trip to GSHP sites and Gapsa temple

*The tour bus leaves YouSung Hotel at 9am.

Sunday, 11 November

*Shuttle bus leaves YouSung Hotel at 8:50 am.

9:30 - 10:00 REGISTRATION

Time	ID	Presenter	Country	Affiliation	Paper title
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10:00 - 10:20 Opening Notes Chair: Yoonho Song

10:00 - 10:10	-	TBA	Korea	Korea Institute of Geoscience and Mineral Resources (KIGAM)	Welcome speech
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10:10 - 10:20	-	Kasumi YASUKAWA	Japan	National Institute of Advanced Industrial Science and Technology (AIST)	Opening note
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10:20 - 11:00 Power Generation Chair: Kasumi Yasukawa

10:20 - 10:40	001	Almas Ghaisani Sharina Faiza UTAMI	Indonesia	Bandung Institute of Technology (ITB)	Air cooled condenser and water cooled condenser performance comparison: case study for Organic Rankine Cycle for Wayang Windu geothermal field
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10:40 - 11:00	002	MAKSUWAN Atirat	Thailand	Pathumwan Institute of Technology	Time-evolution process of temperature for geothermal binary cycle power plant from low-temperature geothermal resource
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11:00 - 11:20 BREAK

11:20 - 12:40 Research Programs Chair: Arif Widiatmojo and Alfonso G. Gutierrez

11:20 - 11:40	003	Alfonzo GARCIA-GUTIERREZ	Mexico	Center for Scientific Research and Higher Education at Ensenada (CICESE)	The Mexican center for innovation in geothermal energy (CeMIE-Geo): research lines and services
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11:40 - 12:00	004	Kil Nam PAEK	Korea	Korea Energy Agency	New and renewable energy deployment programs and statistics of Korea
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12:00 - 12:20	005	Kristine Louise Alvarez	Philippines	Department of Energy	Philippine geothermal resource inventory and assessment project
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12:20 - 12:40	006	Bor-Shouh HUANG	China (Taiwan)	Institute of Earth Sciences, Academia Sinica	Seismic networks optimization design for a high-resolution monitoring of geothermal field
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12:40 - 13:25 LUNCH

13:25 - 14:20 KIGAM Campus Tour (Visiting GSHP Systems and Geology Museum)

14:20 - 15:40 Resource Assessment 1 Chair: Sheng-Rong Song and Fredolin Javino

14:20 - 14:40	007	Inga MOECK	Germany	Leibniz Institute for Applied Geophysics	Geothermal Play Typing – the development of a modern concept for geothermal resources assessment
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14:40 - 15:00	008	Fredolin JAVINO	Malaysia	Minerals & Geoscience Department	Main range granite geothermal potential in peninsular Malaysia
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15:00 - 15:20	009	Helmut DUERRAST	Thailand	Prince of Songkla University	Design methodology for assessment and ranking of geothermal resources: a case study of southern Thailand
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15:20 - 15:40	010	Sheng-Rong SONG	China (Taiwan)	National Taiwan University	Fluid and heat sources in the Chingshui geothermal system
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15:40 - 16:00 BREAK

16:00 - 17:50 Resource Assessment 2 Chair: Inga Moeck

16:00 - 16:20	011	NGUYEN Thac Cuong	Vietnam	Vietnam Institute of Geosciences and Mineral Resources (VIGMR)	Natural hot and mineral water resources of south central coast region of Vietnam in health tourism
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16:20 - 16:40	012	Asnawir Nasution	Indonesia	College (Polytechnic) of Geology and Mining	Active volcanic and geothermal gases case study of geothermal and Sorik Marapi volcanic area, Madina district, North Sumatra Indonesia
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16:40 - 17:00	013	Tae Jong LEE	Korea	KIGAM	Geothermal exploration in Ulleung Island, Korea
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17:00 - 17:20	014	Carl OZYER	Canada	Geological Survey of Canada	Geothermal energy development in Canada
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17:20 - 17:50	-	Discussion on geothermal play, led by Inga Moeck			
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18:00 - 20:00 Banquet by KIGAM (at Nuri Hall, KIGAM)

Program of the 12th Asian Geothermal Symposium (AGS12)

Monday, 12 November					
*Shuttle bus leaves YouSung Hotel at 8:50 am.					
9:15 - 9:30 REGISTRATION					
Time	ID	Presenter	Country	Affiliation	Paper title
9:30 - 10:50 GSHP Chair: Seongkyun Kim and Takeshi Ishihara					
9:30 - 9:50	015	Takeshi ISHIHARA	Japan	AIST	Simple evaluation of ground-source heat pump system installation using shallow subsurface geological information in the Aizu Basin, Northeast Japan
9:50 - 10:10	016	Yoonho SONG	Korea	KIGAM	Calculating energy production and saving of GSHP in terms of load characteristics
10:10 - 10:30	017	Arif WIDIATMOJO	Japan	AIST	Ground source heat pump application in tropical countries
10:30 - 10:50	018	Seongkyun KIM	Korea	KIGAM	Monitoring systems for the long-term performance assessment of geothermal heat pump systems in KIGAM
10:50 - 11:10 BREAK					
11:10 - 12:10 Heat Use Chair: Tae Jong Lee					
11:10 - 11:30	019	Peter MEIER	Switzerland	Geo-Energie Suisse AG	Economic comparison of seasonal heat-storage in combination with a deep geothermal doublet with two doublets, example from the pilot project in Bern, Switzerland
11:30 - 11:50	020	Chris BROMLEY	New Zealand	GNS Science	Wairakei-Tauhara, New Zealand: a two-part story on 60 years of geophysical monitoring and direct geothermal use
11:50 - 12:10	021	Agnes REYES	New Zealand	GNS Science	Geothermal energy from abandoned petroleum wells in New Zealand
12:10 - 12:20 Group Photo (Picture Taking)					
12:20 - 13:20 LUNCH					
13:20 - 14:20 Social Aspect Chair: Toshihiro Uchida					
13:20 - 13:40	022	Adele MANZELLA	Italy	National Research Council (CNR)	Dissemination and social studies for geothermal market uptake in Italy
13:40 - 14:00	023	Thomas JAHRFELD	Germany	SWM Stadtwerke München	Social aspects of implementing geothermal projects in Germany
14:00 - 14:20	024	Kasumi YASUKAWA	Japan	AIST	Quantification of barriers and advantages of geothermal energy use in east and southeast Asia
14:20 - 14:40 BREAK					
14:40 - 15:40 EGS 1 Chair: Tran Trong Thang					
14:40 - 15:00	025	Sehoek PARK	Korea	Seoul National University	Development of a hydraulic stimulation simulator toolbox for enhanced geothermal system design
15:00 - 15:20	026	Takuya ISHIBASHI	Japan	AIST	Coupled mechanical and hydraulic laboratory experiment of shearing on granite fracture
15:20 - 15:40	027	Jiri MULLER	Norway	Institute for Energy Technology	Laboratory studies of organic and inorganic geothermal tracers at superhot and supercritical conditions
15:40 - 16:00 BREAK					
16:00 - 16:40 EGS 2 Chair: Takuya Ishibashi					
16:00 - 16:20	028	TRAN Trong Thang	Vietnam	VIGMR	Estimate of enhanced geothermal system (EGS) potential in mainland red river basin, Vietnam
16:20 - 16:40	029	CHENCHEN	Indonesia	ITB	Study of key parameters in enhanced geothermal system to improve electricity production
16:40 - 16:55 Closing Note Chair: Kasumi Yasukawa					
16:40 - 16:55	-	Yoonho SONG	Korea	KIGAM	Closing note
16:55 ADJORNMENT					