



# ITB INTERNATIONAL GEOTHERMAL WORKSHOP

March, 21 - 22

2018

TIME	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
SESSION	<b>RESERVOIR</b> Chairperson: Heru Berian Pratama, Jonathan Widiatmo	<b>LOW-MEDIUM ENTHALPY</b> Chairperson: Nursanty Elisabeth, Imbar Fitriadi	<b>MANAGEMENT &amp; INVESTMENT</b> Chairperson: Fitri Oktaviani, Milki Fabian	<b>EXPLORATION DEVELOPMENT</b> Chairperson: Prihadi Sumintadireja, Qodri Ramadhan	<b>GEOCHEMISTRY</b> Chairperson: Irwan Iskandar, Fikri Dermawan
08:40 – 09:00	Natural State Modeling of Sileri Area at Dieng Geothermal Field, Central Java, Indonesia (Rheza Akbar et al. - Mechanical and Industrial Engineering, Universitas Gadjah mada) <b>[ID 082]</b>	Experimental Design of Wellbore Heat Exchanger in Binary Optimization for Low - Medium Enthalpy to Utilize Non-Self Discharge Wells in Indonesia (Immanuel L. G. et al. – Geothermal, ITB) <b>[ID 007]</b>	How to Make Indonesian’s Geothermal Attractive in Investor’s Eye (Muhammad Rizaldi Farsah, Hadyan Pratama – Pertamina University) <b>[ID 083]</b>	The Application of Thermoluminescence Dosimeter for Determining Thermal History of Torro Geothermal Prospect, Central Sulawesi Province. (Dikdik Risdianto et al. - Center For Mineral, Coal, And Geothermal Resources) <b>[ID 156]</b>	Hydrogeochemistry Approach to Determine Fluids Reservoir Characteristic in Geothermal Field Simisuh, West Sumatra, Indonesia (Hasbi Fikru Syabi et al. - Geological Engineering, Padjajaran University) <b>[ID 095]</b>
09:00 – 09:20	Improved Natural State Simulation of Arjuno-Welirang Geothermal Field, East Java, Indonesia (Rio Pradana Manggala Putra et al. Petroleum Engineering, ITB) <b>[ID 149]</b>	Developing Low Temperature Geothermal Projects in Indonesia Using Pumped Well Technology (Ridwan Febrianto et al. – Jacobs Group Indonesia) <b>[ID 141]</b>	Ceiling Price Policy of Geothermal in Indonesia: Perspective of Monopsony Market (Putu Dede Udayana Laksmana Putra et al. – FEB, Universitas Indonesia) <b>[ID 130]</b>	Comparison of Magnetotelluric Model Results With Drilling Data in Patuha Geothermal Field (Chevy Iskandar et al. – Geo Dipa Energi) <b>[ID 166]</b>	Geochemical and Alteration Comparison of Geothermal Potential Field : Study Case Candi Umbul and Kawah Sikidang, Central Java (Petrus Aditya Ekananda et al. - Geological Engineering, University of Diponegoro) <b>[ID 123]</b>
09:20 – 09:40	Natural State Modeling of Mataloko Geothermal Field, Flores Island, East Nusa Tenggara, Indonesia Using TOUGH2 Simulator (Yehezkiel David Pradhipta et al. – Petroleum Engineering, ITB) <b>[ID 024]</b>	Wellhead Generating Turbine (Toshiba Asia Pacific Indonesia)	Design of PT Geo Dipa Energi Long Term Geothermal Development Plan (Supremlehaq Taqwim - Geo Dipa Energi) <b>[ID 177]</b>	Muara Laboh Development Drilling Execution (Supreme Energy)	Hydrochemistry Characteristic of Warm Spring in Kaliulo, Klepu, Semarang Regency and Benefits for The Society Welfare (Andrew Y. Siregar et al. - Geological Engineering, University Of Diponegoro) <b>[ID 088]</b>



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<b>09:40 – 10:00</b>	A Natural State Model of Jaboi Geothermal Field, Nangro Aceh Darussalam, Indonesia (Rony P. Nugraha, John O'Sullivan - Department of Engineering Science, The University of Auckland) <b>[ID 031]</b>		Assessing The Options Value of Geothermal Power Project: Case Study in Indonesia (Bagus Mudiantoro et al. - University of Edinburgh Business School) <b>[ID 169]</b>		Using Hydrochemistry and Simple Visualization (Dasapta E. Irawan et al. – ITB) <b>[ID 154]</b>
<b>10:00 – 10:20</b>	<b>COFFEE BREAK</b>				

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SESSION	RESERVOIR Chairperson: Heru Berian Pratama, Jonathan Widiatmo	DRILLING Chairperson: Dimas Taha, Riviani Kusumawardhani	SOCIAL Chairperson: Fitri Oktaviani, F.X. Guwowijoyo	GEOPHYSICS/MT Chairperson: Hendra Grandis, Muhammad Hafidz	GEOLOGY Chairperson: Arif Susanto, Joshua Satriana
10:20 – 10:40	Geomechanical Modelling of A Geothermal Reservoir in Tanzania (Georgia George Mwaipopo, Cheng Yuanfang - Oil and Gas Well Engineering Department, China University of Petroleum) <b>[ID 063]</b>	Drilling Technology (Halliburton)	Understanding Social Acceptance of Geothermal Energy: A Case Study from Mt. Lawu, Indonesia (Abdillah Ibrohim et al. – UPNV Yogyakarta) <b>[ID 64]</b>	Geothermal Reservoir Boundary Delineation Using 3D Magnetotelluric Inversion Case Study: The “Delta” Geothermal Field of Indonesia (Riki Irfan, Yunus Daud - Physics Department, Universitas Indonesia) <b>[ID 017]</b>	Geothermal Exploration in Indonesia Based on Mineralogy and Hydrothermal Alteration (Fiorenza Deon et al. - Faculty of Geosciences and Engineering, Delft University of Technology) <b>[ID 162]</b>



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10:40 – 11:00	Resource Assessment of Ulumbu Geothermal Field, East Nusa Tenggara, Indonesia Based on Natural State Model (Iqbal Kurniawan et al. – Geothermal, ITB) <b>[ID 155]</b>		Empowerment of Disabled Woman in Geothermal Area: Case Study of Caang Village Program in Darajat-Garut West Java (Heri Mohamad Tohari et al. – The Creative Insitute) <b>[ID 157]</b>	Identification of Songa Wayaua Geothermal Area Based on 3D Inversion Model of Magnetotelluric Data (Wiwid Joni, Ahmad Zarkasyi - Center for Mineral, Coal, and Geothermal Resources) <b>[ID 048]</b>	Geological Control of Geothermal Surface Manifestation Occurrences in Pusuk Buhit and Simbolon-Samosir Geothermal Prospect: Preliminary Study (Betseba Sibarani et al. - Geothermal, ITB) <b>[ID 176]</b>
11:00 – 11:20	Resource Assessment of Tolehu Geothermal Area, Ambon, Indonesia Based on Natural State Model (Angga Ahmad et al. - Geothermal, ITB) <b>[ID 006]</b>	Leason Learned and Performance Improvement Drilling Case Study from Sarulla Geothermal Operation North Sumatra (Hadi Abdi Permana et al. - Halliburton Project Management) <b>[ID 029]</b>	Mitigating Social Risks for Candradimuka Area Exploration Through Social Mapping (Gloria G. Sondakh et al. – Geo Dipa Energi) <b>[ID 167]</b>	Subsurface Resistivity Model and its Relation with Hot Springs Based on Magnetotelluric Method at The Mt. Tampomas (Dio Yasril Zulfaris et al. - Geological Engineering, Padjajaran University) <b>[ID 066]</b>	Volcanostratigraphy Analysis for Geothermal Preliminary Survey in Volcanic Area, Study Case: Hululais Geothermal Field, Bengkulu, Indonesia (Grandy Danakusumah et al. – Geothermal, ITB) <b>[ID 175]</b>
11:20 – 11:40	Experimental Design and Response Surface Method Application in Resources Assessment: Case Study Karaha-Talaga Bodas, West Java, Indonesia (Welly Prabata et al. – Geothermal, ITB) <b>[ID 165]</b>	Basic Considerations in Minimizing The Uncertainty During Developing Geothermal Exploration Drilling Strategy in Indonesia (Dorman P. Purba et al. - University of Auckland) <b>[ID 086]</b>	Star Energy's Corporate Social Responsibility (Star Energy)	First Horizontal Derivative and Euler Deconvolution in Application for Reconstructing Structural Signature Over The Blawan-Ijen Geothermal Area (Yunus Daud et al. – University of Indonesia) <b>[ID 132]</b>	Tulehu Geothermal Update (PLN)
11.40 - 12.00	Dynamical Modeling of Patuha-Ciwidey Geothermal Field Using Numerical Simulation (Ali Ashat, Heru Berian Pratama - Geothermal, ITB) <b>[ID 171]</b>				
12:00 – 13:00	<b>LUNCH</b>				



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SESSION	RESERVOIR & PRODUCTION Chairperson: Waldy Aufar, Welly Prabata	DRILLING Chairperson: Dimas Taha, Immanuel Lumban Gaol	DIRECT USE Chairperson: Nursanty Elisabeth, Bramono	EXPLORATION REMOTE SENSING Chairperson: Hendro Wibowo, Citra Aulian Chalik	ADVANCED EXPLORATION 2 Chairperson: Andri Hendriana, Indra A. Nugroho
13:00 – 13:20	<p>Comparisson of Resources Assessment Method with Numerical Reservoir Model Between Heat Stored and Experimental Design: Case Study Ciwidey-Patuha Geothermal Field (Ali Ashat, Heru Berian Pratama – Geothermal, ITB) [ID 163]</p>	<p>Deep Slim Hole Performance Evaluation for Geothermal Exploration Well by Using Wellbore Modelling (Fauzan Makarim - ITB) [ID 173]</p>	<p>Thermal Design of 5 Kg Capacity Coffe Bean Dryer Simulator Using Geothermal Energy (J. Hendrarsakti, M.R. Firmansyah - Faculty of Mechanical and Aerospace Engineering &amp; Geothermal ITB) [ID 159]</p>	<p>Determining Mercury Distribution Based on Matérn Model of Geostatistical Analysis to Identify Geothermal Permeabilty Zone: Case Study of Lainea, South Konawe, Southeast Sulawesi (Stephen Simamora et al. - Geological Engineering, Padjajaran University ) [ID 131]</p>	<p>Update The Status of Indonesian Exploration (IGCOE)</p>
13:20 – 13:40	<p>Production Engineering: Case Study Dieng Geothermal Field (Geo Dipa Energi)</p>	<p>Key Considerations for Utilizing Acidic Water Source for Water Drilling Distribution System in Geothermal Exploration Activity (Arvin Putranto et al. – Jacobs Group Indonesia) [ID 139]</p>	<p>Process Control of Milk Pasteurization Using Geothermal Brine Under Brine Temperature and Flow Rate Disturbance (Jonathan Widiatmo et al. – Geothermal, ITB) [ID 161]</p>	<p>Remote Sensing of Surface Hydrothermal Alteration, Identification of Minerals and Thermal Anomalies at Sveifluháls-Krýsuvík High-Temperature Geothermal Field, SW Iceland (Lucía Magali Ramírez-González et al. - Institute of Earth Sciences, University of Iceland) [ID 076]</p>	



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13:40 – 14:00		<p>Using Deep-Shear Waves to Image Fracture Corridors up to 60 Feet from The Borehole in Geothermal Fields (Cahyo Nugroho et al. – Baker Hughes) <b>[ID 008]</b></p>	<p>Integrated Geothermal Direct Use Facility as an Alternative Approach in Community Engagement at Early Exploration Phase in Indonesia (Daniel Adityatama et al. – University of Auckland) <b>[ID 077]</b></p>	<p>Fault-Related Fractures Characteristic of Kijang Fault at Wayang Windu Geothermal Field (Wahyuddin Diningrat et al. – FMIPA, Universitas Indonesia) <b>[ID 110]</b></p>	<p>Measurements of The Density, Porosity and Resistivity Properties of Arjuno-Welirang Geothermal Field (Anik Hilyah et al. - Geophysical Engineering, Sepuluh November Institute of Technology) <b>[ID 121]</b></p>
14:00 – 14:20	<p>Modelling of Completion Tests in Two Wells in The Wairakei – Tauhara Geothermal System, New Zealand (Sylvania Marchellina et al. – University of Auckland) <b>[ID 051]</b></p>	<p>Experimental Study of Water Jet Ejector for Geothermal Power Plant (Bhakti Nuryadin - BPPT) <b>[ID 174]</b></p>	<p>Greenhouse Gas Emission Reduction Initiative Program at Darajat Geothermal Plant (Muhyidin – Star Energy Geothermal Darajat II) <b>[ID 152]</b></p>	<p>Recognition of Geothermal Potential at Cubadak Area Based on FFD And SMF Method (Gilang Suryawan et al. - Geological Engineering, Padjajaran University) <b>[ID 113]</b></p>	<p>Seismicity and Frequency-Magnitude Distribution Analysis of Desert Peak Geothermal Field (Nanda Hanya Maulida et al. Geothermal, ITB) <b>[ID 164]</b></p>
14.20- 14.40	<p>Study of Hydraulic Fracturing in Water Dominated Geothermal Field Using Experimental Design and STAR CMG Simulator (Luthfan Hafizha et al. - Faculty of Mining and Petroleum Engineering, ITB) <b>[ID 069]</b></p>	<p>Mode Shape and Vibration Level Investigation of A Vertical Separator With Application of Damping Layer (Ilham Perdana Sayuti et al. – Mechanical and Industrial Engineering, Universitas Gadjah mada) <b>[ID 062]</b></p>	<p>Study of Geothermal Brine Direct Use for Crude Palm Oil (CPO) Factory in Indonesia (Almas G.S.F. Utami et al. – Geothermal, ITB) <b>[ID 002]</b></p>	<p>Comparison of Application Faults and Fracture Density (FFD) Method Using SRTM 90-m, SRTM 30-m and ASTER GDEM 30-m for Geothermal Exploration: A Case of Ile Ange Prospect (Husin Setia Nugraha et al. - Directorate of Geothermal, DGNREEC) <b>[ID 056]</b></p>	<p>Preliminary Results of Micro Seismic Survey in Patuha Geothermal Field (Akhmad Fanani Akbar et al. – Geo Dipa Energi) <b>[ID 168]</b></p>
14:40 – 15:00	<b>COFFEE BREAK</b>				



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SESSION	PRODUCTION Chairperson: Prihadi Setyo Darmanto, Almas Ghaisani	PRODUCTION Chairperson: Dimas Taha, Qanitah	SURFACE FACILITIES Chairperson: Angga Alfandi Ahmad, Faisal Ahmad	ADVANCED EXPLORATION Chairperson: Angga Bakti Pratama, Ribka Asokawaty	INTERGRATED EXPLORATION METHOD Chairperson: Rachmat Sule, Nanda Hanyfa Maulida
15:00 – 15:20	A Study of Brine Supply System to Binary Cycle Unit at Namora I Langit Geothermal Power Plant (Arnaldo Napitu – Medco Geothermal Sarulla) <b>[ID 039]</b>	Surface Monitoring, Groundwater Monitoring, and Production-Injection Strategies for Geothermal Reservoir Management (Almas G.S.F. Utami - Geothermal, ITB) <b>[ID 001]</b>	Pump Application for Geothermal (KSB Indonesia)	Sokoria Exploration Drilling Update (Sokoria Geothermal Indonesia)	Analyze on Boiling Control and Exploration Probability in Awibengkok Geothermal System by Andesite and Breccia Hydrothermal Microstructure with Pore Pressure, Temperature and Dry Shear Modulus Value Using Electrical Resistivity Measurement and Ultrasonic Velocity (Farhan Rijal Giffari, Ahmad Lutfi – Geological Engineering, Padjajaran University) <b>[ID 012]</b>
15:20 – 15:40	Steam Well Spinner Data Analysis Using Conversion Factor from Known Wellbore Diameter and Mass Rate Data (Denni Fariz Sbekt, Mapriansyah – Star Energy Wayang Windu) <b>[ID 013]</b>	Work Over Breakthrough : Coiled Tubing Unit Cleaned Out Totally Plugged Scales (Redha Bhawika Putra et al. – Star Energy Geothermal) <b>[ID 079]</b>			Integrated of Geological, and Geochemistry Data Analysis of Kadidia Geothermal Area, Sigi, Central Sulawesi (Faiz Akbar et al. – UPNV Yogyakarta) <b>[ID 072]</b>



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<p><b>15:40 – 16:00</b></p>	<p>Thermodynamic Analysis of Steam Ejector and Hybrid Systems at Lahendong Geothermal Power Plant, North Sulawesi Indonesia (Dhanimsya Hudasaputra et al. – Mechanical and Industrial Engineering, Universitas Gadjah Mada) <b>[ID 100]</b></p>	<p>Study of Hydraulic Fracturing Stimulation to Improve Geothermal Wells Productivity (Riviani Kusumawardani et al. – Geothermal, ITB) <b>[ID 004]</b></p>	<p>Development of Algorithms for Designing Computer Application of Geothermal-Based Absorption Refrigeration System (J. Hendrarsakti, R.A. Guntara - Faculty of Mechanical and Aerospace Engineering &amp; Geothermal ITB) <b>[ID 160]</b></p>	<p>Comparative Study of Microearthquake Hypocenter Relocation Using GAD, SED and Double Difference Methods in Wayang Windu Geothermal field, West Java, Indonesia (Naraswari Probowat – Geothermal Master Program, Universitas Indonesia) <b>[ID 080]</b></p>	<p>Modeling of Parang Wedang Geothermal System on Bantul Regency, Yogyakarta Based on Geological, Geomagnetic and Geochemical Data (Bella Restu Juliarka et al. - University of Lampung) <b>[ID 042]</b></p>
<p><b>16:00 – 16:20</b></p>	<p>Sarulla Geothermal Combined Cycle Operation (Sarulla Operation Limited)</p>	<p>Interference Test Simulation in Geothermal Two Phase Field Using PTA Software and TOUGH2 (Fidya Varayesi et al. – Geothermal, ITB) <b>[ID 009]</b></p>	<p>Implementation of Plant Information Management System (PIMS) as Condition Based Monitoring Approach in Strengthening Non-Intrusive Maintenance Strategy in Star Energy Geothermal Salak (Ilham Kurniawan et al. - Star Energy Geothermal Salak) <b>[ID 098]</b></p>	<p>Identification of Permeability Structures Using Moment Tensor and Focal Mechanism Analysis of MEQ Data at Wayang Windu Geothermal Field (Nur Inna Alfianinda – Geothermal Master Program, Universitas Indonesia) <b>[ID 085]</b></p>	<p>Identification of Geothermal Reservoir Zone Using Integrated Magnetotelluric, Geological and Geochemical Data Analysis of Danau Ranau, Lampung, Indonesia (Faiz Akbar Prihutama et al. – UPNV Yogyakarta) <b>[ID 133]</b></p>
<p><b>16.20- 16.40</b></p>		<p>Revisiting Liquid Loading: Application of Liquid Loading Concept in Liquid Dominated Geothermal Reservoir to Inflow Performance Curve (Steven Chandra - Well Stimulation Laboratory, ITB) <b>[ID 015]</b></p>	<p>Development of Flores as A Geothermal Island (Iwan Nursahan et al. - Geological Agency of Indonesia) <b>[ID 081]</b></p>	<p>Estimation of Prospect Areas of Volcanic and Intrusion Hosted Geothermal Fields: A combination of geostatistics methods, HG anomalies, and fault fracture density (Meilani - Geological Engineering, ITB) <b>[ID 055]</b></p>	<p>Hot Springs Manifestation Identification by Blawan Fault Structure and Temperature Measured Using Bouguer Anomaly, Landsat Thermal Imagery and Magnetotelluric to Determine Geothermal System in Blawan-Ijen Area (Mirza Muhajir et al. – Geological Engineering, Padjajaran University) <b>[ID 011]</b></p>
<p><b>16:40 – 17:00</b></p>	<p><b>CLOSING</b></p>				



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**BAGUS SATREPS Session**

Thursday, 22 March 2018

TIME	Paper Title	Paper ID
13.00-13.20	Research Progress of the BAGUS Project by Kyoto University Team <b>(Koike K – Kyoto University)</b>	--
13.20-13.40	Research Progress of the BAGUS Project by ITB Team <b>(Notosiswoyo S. and Nurheryawan M. – ITB)</b>	--
13.40-14.00	Research Progress of the BAGUS Project by Kyoto University Team <b>(Taiki Kubo – Kyoto University)</b>	--
14.00-14.20	Detection of Ground Thermal Anomaly Under Dense Vegetation Based on ASTER TIR Images <b>(Citra Aulian Chalik, Asep Saepuloh – Geothermal ITB)</b>	ID 037
14.20-14.40	Environmental Activity Monitoring at Wayang Windu Geothermal Field Using A Remote Sensing Application <b>(Ahmad D. Abdurrahman, Arie N.H. Hede, M. Nur Heriawan. - ITB)</b>	ID 120
14.40-15.00	<b>COFFEE BREAK</b>	
15.00-15.20	Alteration Study Using Landsat 8 Image of Densely Vegetated Areas of The Wayang Windu Geothermal Field, West Java <b>(Kristian E. Salamba, Arie N.H. Hede, M. Nur Heriawan – ITB)</b>	ID 125
15.20-15.40	Identifying Thermal Features of Mineralization Zones Based on Thermal Infrared and XRD Analysis <b>(Andi Fahdli Heriansyah, Asep Saepuloh, M. Nur Heriawan – ITB)</b>	ID 140
15.40-16.00	Surface Deformation Analysis at Geothermal Field Using Atmospherically Corrected D-INSAR to Predict Reservoir Zones <b>(Hibban H. Siddieq, Asep Saepuloh – Geothermal ITB)</b>	ID 172





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## Poster Session

Wednesday – Thursday, 21-22 March 2018

No.	Paper Title	Paper ID
1	Magnetotellurics Survey Design and its Implication to Geothermal Exploration. Case Study: Geothermal Area "X" <b>(Riki Irfan, Saiful Primasatya – University of Indonesia)</b>	018
2	Study of Groundwater Quality in Area of Geothermal Manifestations and Potential Impacts of Water Use on Environment and Public Health Aspect: Case Study of Derekan Village, Klepu, Semarang Regency <b>(Sinatrya Diko Prayudi et al. – Diponegoro University)</b>	026
3	Identification Potential and Geothermal System of West Mandala, Central Sulawesi Region for Diversification of Future Energy <b>(Amran, Chairul Umam, Ariel Afrandi Tatawu – Institut Sains &amp; Teknologi AKPRIND Yogyakarta)</b>	027
4	Surian Geothermal System Characteristic Based on The Geological and Geochemical Data <b>(Aulia Bunga Arini et al. - Diponegoro University)</b>	036
5	The Impact of Semangko Fault on Geothermal Potential in Bonjol Region, Pasaman Regency, West Sumatera <b>(Khairul Fajri, Farhan Deo Febriadin, Euginia Felicia – Padjajaran University)</b>	038
6	Geochemical Fluid Manifestation Analysis Using Geothermometers and The Suitability With Smectite Clays Analysis Data in Namora-I-Langit Geothermal Field <b>(Josua Washington Sihotang – Padjajaran University)</b>	041
7	Integrated Research for Geothermal Prospect Zone of Lawu Mountain Based on Geothermal Manifestation, Rock Alteration, Geochemical Analysis of Fluid, Fault Fracture Density and Magnetotelluric Data <b>(Nindyan Agna Ramadhan, Rinaldo Siagian, Garindra Yogiswara - IndoGeo Social Enterprise &amp; Diponegoro University)</b>	044
8	Direct Utilization Prospect of Geothermal Energy in Indonesia Geothermal Fields <b>(Untung Sumotarto, Fajar Hendrasto, Suyanto – Trisakti University)</b>	047
9	Tectonic Control to Geothermal Manifestation on Non-Related Young Volcanic Setting in Sumenep-Madura, East Java <b>(Kevin Jordan et al. - Institut Sains &amp; Teknologi AKPRIND Yogyakarta)</b>	052



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No.	Paper Title	Paper ID
10	Custom-Social-Culture (CSC) Integration Through Action Research Approach to Giving Education to The Communities as Efforts to Geothermal Energy Development in Indonesia <b>(Riksa Thabrani-UNDIP)</b>	058
11	Seismic Hazard Analysis Using Probabilistic Methods to Support HSE on Geothermal Exploration Activity in The Region of Papua <b>(Kathana Didin Fakhruhin, M. Agni Gustama, Asadullah Yahya Mujahidin - UPN"V"Yogyakarta)</b>	060
12	Geothermal Prospect Determination of Mount Kramat by Using Geological and Geochemical Methods <b>(Wisnu Harimurti et al. - UPN"V"Yogyakarta)</b>	068
13	Identification of Geothermal System Using Integrated Geology, Geophysics and Geochemistry Data in Gedongsongo, Ungaran, Central Java <b>(Baharuddin Fahmi, Novia S. Wulandari, Faiz A. Prihatmoko - UPN"V"Yogyakarta)</b>	073
14	Investigation of Geothermal Potential with Geological and Geochemical Methods in Sipoholon, North Tapanuli Regency, North Sumatra <b>(Nabilah Afifah Habni Harahap, Saifullah Fattah Al Ayyubi, Jihan Almira Fauzia – Diponegoro University)</b>	075
15	An Overview of Hidden Geothermal System Exploration Using Geophysical Methods <b>(Puspita Dian Maghfira, Sintia Windhi Niasari – Gadjah Mada University)</b>	087
16	Innovation of Silica Deposition Conversion into Silicon <b>(Abdul Ghofur, Clinton Sihombing – Institute of Energy and Mineral)</b>	090
17	Effectiveness of Fault and Fracture Density (FFD) Method in Geothermal Study in Kalimantan, Indonesia: Case Study of Sebakis, Semolon, and Mengkuasar Geothermal Area in North Kalimantan <b>(Rifqi A. Sentosa et al. – Padjajaran University)</b>	091
18	Analysis Tracer Flow Test by Measure Chloride Contains of Brine Flow <b>(Clinton Sihombing et al. - Institute of Energy and Mineral)</b>	093
19	Identify Two-Phase Reservoir Well Performance and Maintain Integrated Geothermal Combined Cycle Power Plant (IGCCPP) <b>(Arbima Busro – Medco Geothermal Sarulla)</b>	094
20	Fluid Evolution of Umbul-Telomoyo Geothermal System in Central Java, Based on Ctl-1 And Ctl-2 Well <b>(Hiskia Ulinuha Annisa, Niniek Rina Herdianita, Dudi Hermawan – Institut Teknologi Bandung &amp; PSDMBP)</b>	099



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No.	Paper Title	Paper ID
21	Application of Self-Potential, Electrical Resistivity, and Induced Polarization for Hydrothermal Identification in Songgoriti, Batu <b>(Anggi Arwin Pratama, Tricahyo Agung Budiharjo – Institut Teknologi Sepuluh Nopember)</b>	103
22	Integration Analysis of Geological Structure, Volcanic Materials and Surface Manifestation Using Optical and Remote Sensing in Salak Geothermal Field <b>(Muhammad Shofi Hidayatullah et al. – Padjajaran University)</b>	105
23	Investigation of Ungaran's Schematic Geothermal System Based on the Geophysical Study <b>(Naufal Zuhdi Mahmuda et al. - UPN "V" Yogyakarta)</b>	106
24	The Importance of Setting Depth for Casing in Geothermal <b>(Wega Maulana, Mutiara Dewi - UPN "V" Yogyakarta)</b>	109
25	Conceptual Model of Great Sumatran Fault Geothermal System, Indonesia: Based on Geology, Geophysics, and Geochemistry Data <b>(After Pasaribu, Jubilate Sihombing, Anik Hilyah – Institut Teknologi Sepuluh Nopember)</b>	112
26	The Determination of Geothermal System Based on the Characteristics of Geochemistry Water of Rajabasa Mountain and Its Surrounding Area <b>(Muhammad Hafiz Prasetyo et al. - Sriwijaya University)</b>	116
27	Study of Static Shift Correction for Magnetotelluric (MT) Data using Averaging and Cokriging Methods upon 3-Dimensional Forward Model of Geothermal Field <b>(Diajeng Liati et al. – University of Indonesia)</b>	118
28	Comparison between Magnetotelluric Short-Sounding and Full-Sounding Data during High Sunspot Activity Cycle <b>(Fitrianita Harahap et al. – University of Indonesia)</b>	119
29	Two-Dimensional Gravity Inversion Constrained by MT Data for Delineating The Subsurface Structure Controlling Geothermal System <b>(Mohamad Lutfi Ismail et al. – University of Indonesia)</b>	122
30	Three-Dimensional Gravity Forward Modeling using GRAV3DX By Newquest Geotechnology <b>(Mohamad Lutfi Ismail et al. – University of Indonesia)</b>	124
31	Geophysical Exploration for Geothermal Resources: An Application Of MCT Method for Identification Geothermal System and Role for Prospecting in Geothermal Exploration <b>(EM.Rifqi Wilda Pradana, Ulyl Aidi Abshor, Dwiqie Riaviano - UPN "V" Yogyakarta)</b>	138



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No.	Paper Title	Paper ID
32	Life Cycle Assessment Framework for Environmental Impact Assessment of Geothermal Power Generation (Case Study: Star Energy Geothermal Wayang Windu, Ltd) <b>(Rina Annisa – Institut Teknologi Bandung)</b>	147
33	Life Cycle Inventory of Geothermal Power Generation (Case Study: Star Energy Geothermal Wayang Windu, Ltd) <b>(Benno Rahardyan – Institut Teknologi Bandung)</b>	148
34	Application of Tracer Study for Injection in Hot Dry Rock System and Enhanced Geothermal System <b>(Teguh Rahat Prabowo et al. –Geothermal ITB)</b>	170
35	The Study of Rock Element Composition of Warm and Streaming Ground Geothermal Manifestation in Lahendong North Sulawesi (Cyrke A.N. Bujung, Donny R. Wenas – Universitas Negeri Manado)	178