

ICGoES Day 1 (Thursday, 10 September 2026)

Venue: Smart and Green Learning Center (SGLC), Faculty of Engineering
Universitas Gadjah Mada, Yogyakarta, Indonesia

Time (UTC +7)	AUDITORIUM ROOM
07:30 - 08:00	Open Registration
08:00 - 08:05	Opening Ceremony
08:05 - 08:10	Welcoming address from Head of Geological Engineering UGM (Prof. Wahyu Wilopo)
08:10 - 08:15	Welcoming address from Dean Faculty of Engineering UGM (Prof. Selo)
08:15 - 08:25	Remarks from AUN/SEED-Net (Mr. Isamu HAMADA, JICA Expert)
08:25 - 08:45	Presentation AUN/SEED-Net Program (Ms. Tonghathai Likhitweerawong, AUN/SEED-Net Program Lead)
08:45 - 09:00	Presentation the ASEAN Engineering Journal (Assoc. Prof. Dr. Norhazlan Md Noor, ASEAN Engineering Journal Chief Editor)
09:00 - 09:15	Presentation 'STI Coordination' by JASTIP, Kyoto University (Dr. Taro Sonobe, Research Administrator)
09:15 - 09:30	Presentation 'STI Coordination' by JASTIC Fellow (Assoc. Prof. Dr. Hilya Mudrika Arini, UGM)
09:30 - 09:45	Presentation 'STI Coordination' by JASTIC Fellow (Asst. Prof. Dr. Nur Abdullah Siddiq, UGM)
09:45 - 10:05	Coffee & Tea Break, Poster Presentation
10:05 - 10:10	Remarks to Plenary Session 1 (Moderator: Hendy Setiawan, Ph.D.)
10:10 - 10:40	Keynote 1: Prof. Yosuke Higo (Kyoto University) "Advancing geotechnical disaster resilience: From microscale characterisation to numerical simulation"
10:40 - 11:00	Discussion / Q&A Session
11:00 - 11:30	Keynote 2: Prof. Sven Sindern (RWTH Aachen) "The role of carbonatite metasomatism for the formation of ultramafic, alkaline and carbonatite magmatic complexes"
11:30 - 11:50	Discussion / Q&A Session
11:50 - 12:55	Lunch Break & Poster Presentation

ROOM	Capacity	ZOOM Link
Auditorium	272	http://ugm.id/ICGoES2026
Meeting Room 1	80	http://ugm.id/ICGoESmr1
Meeting Room 2	60	http://ugm.id/ICGoESmr2
Multi Function 2	26	http://ugm.id/ICGoESmf2

11:50 - 12:55	Lunch Break & Poster Presentation		MEETING ROOM 1		MEETING ROOM 2	
Parallel Session 1 Stratigraphy, and Oil & Gas Resources			Parallel Session 2 Geothermal Resources		Parallel Session 3 Applied Geosciences: Petrology, geological structures, and geodynamics	
12:55 - 13:00	Opening	Moderator: Jarot Setyowiyoto, Ph.D.	Opening	Moderator: Dr. Haryo Edi Wibowo	Opening	Moderator: Gayatri Indah Marliyani, Ph.D.
13:00 - 13:15	Invited Speaker	Unlocking Indonesia's Subsurface Storage Opportunity: Geological Sequestration Potential Across Sedimentary Basins Dwandari Ralanarko (Pertamina NewEdge)	G18S	Identification of High-Permeability Zones in the Geothermal Area Around Mount Nagasari, Dieng Volcanic Complex, Through Spatial Interpolation of Soil Gas Anomalies from Radon, Thoron, and Carbon Dioxide Surveys Muhammad Alif Hudatullah (Universitas Gadjah Mada)	A16S	Diopside-Epidote-Actinolite Lenses within Serpentine from the Bayat Complex: Mineralogical Characteristics and Evidence for Ca Metasomatism Favian Mahdie Almer Anam (Universitas Gadjah Mada)
13:15 - 13:30			G25L	Geothermal Reservoir Temperature Prediction Based on Anion Cation Data Using Saturation Index (SI) Calculations of Hydrothermally Altered Minerals Palagan Paksina Sandhy (Universitas Indonesia)	A20S	From Individual Hills to Landscape Patterns: Population-Scale Karst Morphometry of Gunung Sewu UNESCO Global Geopark, Indonesia Yan Restu Freski (Universitas Gadjah Mada)
13:30 - 13:45	G21S	Determination of Water Saturation and Pay Zone Based on Petrophysical Analysis in Low Resistivity Reservoirs in the GAIA Field, Upper Cibulakan Formation, Northwest Java Basin Dayinta Sitaresmi Wibawa (Universitas Gadjah Mada)	G11S	Study of Radon, Thoron, and Carbon Dioxide Gas Distribution for Identifying High Permeability Zones in the Pakuwaja Geothermal Prospect Area, Dieng Volcanic Complex, Central Java Galih Hanim Mu'arofah (Universitas Gadjah Mada)	A04L	Reconstructing Tidal Depositional Architecture of the Miocene Wonosari Carbonate Platform, Indonesia: Integrated Evidence from Sedimentary Structures, Paleocurrents, Petrography, and Foraminiferal Biostratigraphy Ridho Alfarizi Rambe (Institut Teknologi Nasional Yogyakarta)
13:45 - 14:00	A21S	A Dynamic Best-in-Class Benchmarking Framework for Real-Time Drilling Performance Optimization Using Offset Well Analytics Yustian Ekky Rahanjani (Petrolink, Indonesia)	G26L	Comparison of Machine Learning Models for Subsurface Temperature Prediction in the Tulehu Geothermal Field Hengky Himawan Sadewo (Universitas Indonesia)	E10L	The Role of Rinjani Global UNESCO Geopark to Sustainable Tourism: Unveiling Economic, Social, and Environmental Footprints Nur Khaririyatun (Research Center for Cooperative, Corporation, and People & Economy, National Research and Innovation Agency, Indonesia (BRIN))
14:00 - 14:15	G20S	1D Geomechanical Modelling for Wellbore Stability Analysis in the ANM Field, Sunda Basin Reddy Setyawan (Diponegoro University)			E03S	Geodiversity Landscape Metrics: A Landscape Ecology-Inspired Framework for Quantifying the Spatial Configuration of Abiotic Diversity Anugrah Aditya Insani (Universitas Gadjah Mada)
14:15 - 14:25	Coffee & Tea Break, Poster Presentation		Coffee & Tea Break, Poster Presentation		Coffee & Tea Break, Poster Presentation	
Parallel Session 4 Stratigraphy, and Oil & Gas Resources			Parallel Session 5 Groundwater Resources		Parallel Session 6 Mineral Resources	
14:25 - 14:30	Opening	Moderator: Dr. Sarju Winardi	Opening	Moderator: Dr.rer.nat. Doni Prakasa Eka Putra	Opening	Moderator: Prof. Arifudin Idrus
14:30 - 14:45	Invited Speaker	From High-Quality to Low-Quality Reservoirs Opportunity: Geoscience Strategies for Sustainable and Economically Resilient Hydrocarbon Development Zikri Ramadhan Sulistyio (Pertamina NewEdge)	G19S	Groundwater Recharge Zone Delineation and MAR Site Selection Using AHP-GIS in the Pinrang–Sidenreng Groundwater Basin, South Sulawesi Rahmad Dwi Putra (Directorate of Irrigation and Lowland)	G12L	Prospects, Opportunities, Challenges, and Obstacles for Indonesia as a Major Holder of Raw Material Resources to Become a Global Lithium Battery Producer in the Future Harta Haryadi (Research Center for Mineral Technology, National Research and Innovation Agency, Indonesia (BRIN))
14:45 - 15:00			G09S	Preliminary Statistical Characterization of Groundwater Level Monitoring Data in the Yogyakarta-Sleman Groundwater Basin Atha Dhimas Putra (Universitas Gadjah Mada)	G04L	The Roles of Lithology and Morphology on Bauxite Metallogeny in Western of Schwaner Mountain, West Kalimantan Alan Matano (Universitas Gadjah Mada)
15:00 - 15:15	E07S	Reforming Indonesia's Production Sharing Contract Framework: Comparative Legal Lessons from Malaysia's Revenue-over-Cost PSC and the United Kingdom's Petroleum Investment Governance Gracia Josaphat Jobel Mambrasar (Executive Committee to the President of the Republic of Indonesia)	G06S	Unravelling Aquifer Architecture of Andesitic Volcanic Aquifer using Geological, Hydrogeological, Geomorphological Analysis and Geophysics: A Case Study of West Slope Mount Talang, West Sumatra Azwar Satrya Muhammad (Universitas Padjajaran)	G14L	An Integrated Remote Sensing Approach to the Exploration of Karst and Lateritic Bauxite Deposits in the Philippines Jillian Aira Gabo-Ratio (University of the Philippines)
15:15 - 15:30	E06S	Sequence Stratigraphy for Supporting Indonesia's Second NDC Mitigation Objectives: Anticipating CO ₂ Leaking in Injection Target Zone Requirement under Article 37 of MEMR Regulation No. 16 of 2024 Lovetta Kiendra Octora (Universitas Gadjah Mada)	G10S	Preliminary Assessment of Groundwater Vulnerability using DRASTIC in Pajangan District, Bantul Regency, DIY Savikri Misbahul Umar (Universitas Gadjah Mada)	A15L	Synergizing Multispectral Mapping and Subsurface Profiling for Nickel Laterite Regional Prospectivity in Halmahera Region, North Maluku Ludovicus Damardika Jasaputra (PT. Halmahera Sukses Mineral)
15:30 - 15:45	E15S	Reforming Indonesia's Geological Carbon Storage Regulatory Framework: Cross-Border Carbon Importation and Injection Target Zone Regulation for Supporting Indonesia's SNDC Eka Anugrah Widiyanto S (Universitas Gadjah Mada)				
16:00	Closing of Day 1		Closing of Day 1		Closing of Day 1	

ICGoES Day 2 (Friday, 11 September 2026)

**Venue: Smart and Green Learning Center (SGLC), Faculty of Engineering
Universitas Gadjah Mada, Yogyakarta, Indonesia**

Time (UTC +7)		AUDITORIUM ROOM		ROOM		Capacity	ZOOM Link	
07:45 - 08:05		Room Open and Preparation		Auditorium		272	http://ugm.id/ICGoES2026	
08:05 - 08:10		Remarks to Plenary Session 2 (Moderator: Dr. Esti Handini)		Meeting Room 1		80	http://ugm.id/ICGoESmr1	
08:10 - 08:40		Keynote 3: Prof. Tsutomu Sato (Hokkaido University) "From Negative to Positive Assets in Mining: A New Paradigm for Tailings and Acid Mine Drainage"		Meeting Room 2		60	http://ugm.id/ICGoESmr2	
08:40 - 09:00		Discussion / Q&A Session		Multi Function 2		26	http://ugm.id/ICGoESmf2	
09:00 - 09:40		Keynote 4: Prof. Kotaro Yonezu (Kyushu University) "Mitigation Concept of Silica Scale by Inhibitor: Insight from chemistry, on-site experiment and AI"						
09:40 - 10:00		Discussion / Q&A Session						
10:00 - 10:10		Coffee & Tea Break, Poster Presentation						
Parallel Session 7 Stratigraphy, and Oil & Gas Resources				MEETING ROOM 1 Parallel Session 8 Applied Geosciences: Petrology, geological structures, and geodynamics		MEETING ROOM 2 Parallel Session 9 Mineral Resources		
10:10 - 10:15	Opening	Moderator: Rahmadi Hidayat, Ph.D.		Opening	Moderator: Salahuddin , Ph.D.		Opening Moderator: Anastasia Dewi Titisari, Ph.D.	
10:15 - 10:30	A22S	Geoscience-Guided Benchmarking: Integrating Formation Tops and Offset Well Intelligence for Sustainable Drilling Performance Optimization Yustian Ekky Rahanjani (Petrolink, Indonesia)		A12S	Structural Control on Landform Development in Bumiharjo, Wonogiri Regency, Indonesia : A reconstruction Model Based on Integrated Geological Analysis Gamaliel Marcelo Aginta Perangin-Angin (Universitas Pembangunan Nasional "Veteran" Yogyakarta)		E13L The Paradox of Mineral Downstreaming: Evaluating Copper Ore Reserve Resilience and Structural Industrial Challenges in Indonesia Triswan Suseno (Research Center for Geological Resources, National Research and Innovation Agency (BRIN))	
10:30 - 10:45	G17L	Stratigraphic Variability of Total Organic Carbon in the Eocene Mallawa Formation, South Sulawesi Muhammad Al Izza Hizbullah (Hasanuddin University)		A14L	Development patterns of the Middle Eocene Kalumpang delta system in West Sulawesi as the primary source rock in the Lariang-Karama basin Lauti Dwita Santy (Universitas Padjadjaran, Bandung)		G07L Integrated Lithogeochemical, SWIR Spectral, and Soil Anomaly Mapping for Prospecting Applied to the Atlas Porphyry Cu-Au Deposit, Cebu, Philippines Bernadette M. Buladaco (Department of Environment and Natural Resources - Mines and Geosciences Bureau, Philippines)	
10:45 - 11:00	G24S	Geological Analyses in Kendel, Boyolali Regency : Insight for Hydrocarbon Development Xavier Ernst Fritz Wagey (Universitas Pembangunan Nasional "Veteran" Yogyakarta)		A13S	Imaging the Subsurface Architecture of the Berbah Pillow Lava Geosite Through Integrated Shear-Wave Velocity and Electrical Resistivity Imaging, Yogyakarta, Indonesia Ennita Riana (Universitas Gadjah Mada)		G13L Indonesia's abundant nickel resources and reserves serving as raw materials for lithium batteries, are largely exported solely to support the lithium battery industries of China, Japan, and South Korea. Harta Haryadi (Research Center for Mineral Technology, National Research and Innovation Agency, Indonesia (BRIN))	
11:00 - 11:15	E16L	Multi-Indicator Seismic Hazard Screening of 20 Southwestern Iran Oil and Gas Fields for Site-Specific Prioritization and Operational Continuity Amin Mohammadali (Islamic Azad University, Tehran, Iran)		A03L	Sedimentary Facies and Depositional Processes of the Sambipitu Formation: Implications for Middle Miocene Submarine-Fan Development in Southern Java Nicholas Kristian Kurniawan (Institut Teknologi Nasional Yogyakarta)		G23L Constraint in Law Enforcement to Illegal Gold Mining Teuku Ishlah (Research Center for Geological Resources, National Research and Innovation Agency (BRIN))	
11:15 - 11:30				A18L	Reservoir Quality Characterization of Braided Fluvial Deposits in the Damar Formation, Kencana Jaya Canyon, Western Kendeng Salsabila Qurratul'ain Sitepu (Universitas Diponegoro)			
11:30 - 12:55	Lunch Break & Poster Presentation			Lunch Break & Poster Presentation		Lunch Break & Poster Presentation		
Parallel Session 10 Computational Geosciences				Parallel Session 11 Applied Geosciences: Petrology, geological structures, and geodynamics				Parallel Session 12 Environmental Geosciences, Geological Hazard Mitigation
13:10 - 13:15	Opening	Moderator: Dr. rer.nat. I Wayan Warmada.		Opening	Moderator: Dr.Ing. Donatus Hendra Amijaya		Opening Moderator: Prof. Wahyu Wilopo	
13:15 - 13:30	A19S	Rapid Lithological Mapping in Poorly Exposed Lithologies using Sentinel-2 Satellite Data: Kulon Progo Mountains, Indonesia Bayu Raharja (Universitas Gadjah Mada)		E08S	From Caldera Evolution to Hydrothermal Alteration: Genesis and Conceptual Block Models of Geosites in the Bogor Halimun Salak Geopark Helmi Setia Ritma Pamungkas (Universitas Pembangunan Nasional "Veteran" Yogyakarta)		E17L Optimum Geometric Design and Field-Validated Performance of Prefabricated Vertical Drains for Accelerating Consolidation of Soft Ground Afikah Rahim (Universiti Teknologi Malaysia, Malaysia)	
13:30 - 13:45	A08S	A 2-Phase Semi Implicit Material Point Method with Implicit Drag Force Faikar Razan Ediansjah (Kyoto University, Japan)		A11L	An Integrated Machine Learning Workflow for Three-Dimensional Acid Mine Drainage Domain Modelling Using Multi-Element Portable X-Ray Fluorescence Data Friska Putri Ayunda (Universitas Pembangunan Nasional "Veteran" Yogyakarta)		E19L Integrated Physicochemical Characterisation of Low Ranked Coal for Coalbed Methane Potential and Utilisation of Coal Ash in Cementitious Materials Afikah Rahim (Universiti Teknologi Malaysia, Malaysia)	
13:45 - 14:00	A10S	Evaluation of Bed Entrainment Effects in an Enhanced Multiphase Landslide Model Using Observed Landslide Case Studies Dyah Wahyu Apriani (Universitas Gadjah Mada)		E14L	Application of Microtremor Data Autopicking Using HVSrpy With Window Rejection for Interpolation Analysis of f0, A0, Kg, and Vs30 Parameters In The Meulaboh - Johan Pahwalan, Aceh Wien Lestari (Institut Teknologi Sepuluh Nopember, Surabaya)		E02S Geological Role of Deep Weathered Sibolga Granite on Landslide-Induced Debris Flow in Central Tapanuli: Insights from the 2025 Sumatra Hydrometeorological Disaster Agung Rizki Perdana (Directorate General of Water Resources, Ministry of Public Works)	
14:00 - 14:15	A01L	Rock Mass Characterization and Kinematic Stability Analysis of Granite Quarry Slopes Using Geomapping Techniques: A Case Study in Kangkar Pulau, Johor, Malaysia Afikah Rahim (Universiti Teknologi Malaysia, Malaysia)		E09L	Mineralization Enrichment Processes and Landslide/Deposition Potential Due to Erosion Nendaryono Madiutomo (National Research and Innovation Agency, Indonesia (BRIN))		A23L Anisotropy and Relict Joint Control on Slope Stability in Tropical Granitic Residual Soils Mohd Ashraf Mohamad Ismail (Universiti Sains Malaysia, Malaysia)	
14:15 - 14:30	E18L	Integrated Machine Learning and Finite Element Analysis Framework for TBM Performance Prediction in Granite Tunnelling Afikah Rahim (Universiti Teknologi Malaysia, Malaysia)		E12L	Geoscience in Coal Extraction – Environmental Geochemistry in Acid Mine Drainage Prediction Retno Damayanti (Research Center for Geological Resources, National Research and Innovation Agency, Indonesia (BRIN))			
14:30 - 14:45	Coffee & Tea Break, Poster Presentation			Coffee & Tea Break, Poster Presentation		Coffee & Tea Break, Poster Presentation		
14:45 - 15:00	Closing Ceremony							
15:00 - 15:30	Best Presenter Announcement							
15:30 - 15:45	Announcement about Full Papers and Publication							
15:45 - 16:00	Closing Remarks							
16:15	Closing of Day 2							