GEOMATE 2026

CONFERENCE PROGRAM & PRESENTATION SCHEDULE

THE 16th INTERNATIONAL CONFERENCE
on Geotechnique, Construction, Materials & Environment

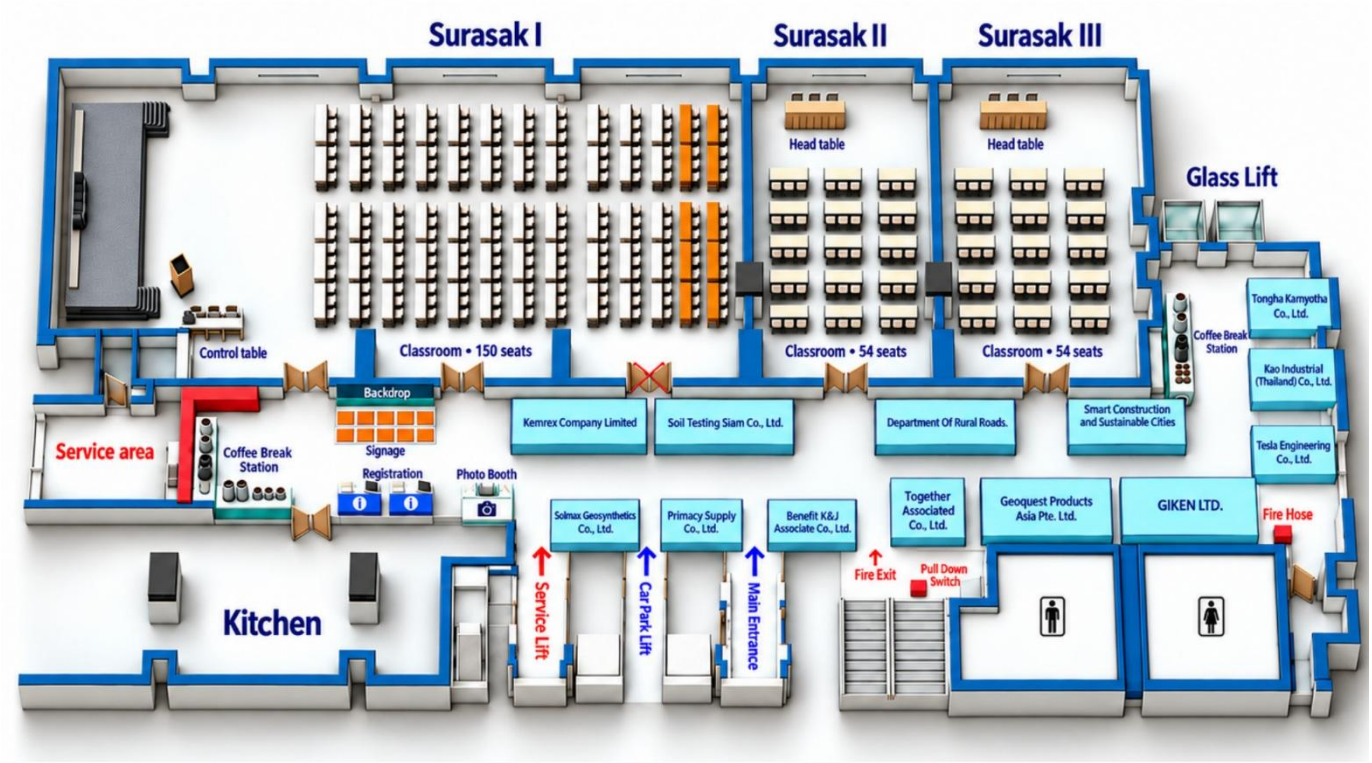


17–19 November 2026

Eastin Grand Hotel Sathorn, Bangkok, Thailand

GEOMATE
Society Thailand Chapter

Conference Venue Floor Plan



GEOMATE Society Thailand Chapter

GEOMATE 2026 / PROGRAM AT A GLANCE

Morning Program & Parallel Sessions

18–19 November 2026 • Eastin Grand Hotel Sathorn Bangkok

18 NOVEMBER / MORNING

09:15–11:50	Keynote and Industry Session	Surasak I

	Surasak I	Surasak II	Surasak III
18 NOVEMBER			
13:00–13:30	Invited Speaker Presentations	Invited Speaker Presentations	Invited Speaker Presentations
13:30–15:00	Parallel Technical Sessions	Parallel Technical Sessions	Parallel Technical Sessions
15:00–15:15	Poster Session		
15:20–17:00	Parallel Technical Sessions	Parallel Technical Sessions	Parallel Technical Sessions
19 NOVEMBER			
08:45–10:00	Parallel Technical Sessions Onsite / Online	Parallel Technical Sessions Onsite / Online	Parallel Technical Sessions Onsite / Online
10:20–12:00	Parallel Technical Sessions Onsite / Online	Parallel Technical Sessions Onsite / Online	Parallel Technical Sessions Onsite / Online
13:30–15:00	Parallel Technical Sessions Onsite / Online	Parallel Technical Sessions Onsite / Online	Parallel Technical Sessions Onsite / Online
15:20–17:00	Parallel Technical Sessions	Parallel Technical Sessions	Parallel Technical Sessions

Main events in Surasak I

18 Nov • Opening ceremony, keynotes, industry talks and banquet | 19 Nov • Closing ceremony

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GEOMATE 2026 PRESENTATION GUIDELINES

18–19 November 2026
Eastin Grand Hotel Sathorn Bangkok, Thailand

Onsite Oral Presentations

Each contributed oral presentation is allocated **15 minutes**, including **10 minutes for the presentation and 5 minutes for questions and discussion**. Please check the conference program for your assigned time and room (**Surasak I, II, or III**).

Bring your slides in PowerPoint or PDF format and load them onto the session-room computer at least **10 minutes before the session begins**. Session chairs and presenters should also be in their assigned rooms by that time. Keynote, industry, and invited speakers should follow the timings listed in the program.

Online Oral Presentations via Zoom

Online presentations are scheduled in designated hybrid technical sessions on **19 November**. Please check the conference program for your assigned time and use the Zoom details provided for your session.

Each presentation is allocated **10 minutes plus 5 minutes for questions and discussion**. Join Zoom at least **10 minutes before the session begins** to check your microphone and screen sharing. Set your display name to **Paper ID – Presenter Name** (e.g., **G00271 – Name-Surname**).

Onsite Poster Presentations

The **Poster Session** will take place on **18 November, 15:00–15:15 (Bangkok time at Surasak I)**. Please have your poster ready before the session and remain at your assigned display throughout the session to discuss your work and answer questions.

GEOMATE Society Thailand Chapter

THE 16TH INTERNATIONAL CONFERENCE ON GEOTECHNIQUE, CONSTRUCTION MATERIALS AND ENVIRONMENT

CONFERENCE PROGRAM & PRESENTATION SCHEDULE

DATE: 17–19 November 2026
VENUE: Eastin Grand Hotel Sathorn Bangkok
Bangkok, Thailand

All times are Bangkok time (UTC+7).

Date	Time	Activities	Room
17 Nov 2026	14:00 - 18:00	Conference Registration	Hotel Lobby
18 Nov 2026	08:00–08:45	Conference Registration	Registration desk, 11th floor
	08:45–09:15	Opening Ceremony and Conference Report: Associate Prof. Dr. Menglim Hoy Welcome Addresses: Prof. Dr. Suksun Horpibulsuk Prof. Dr. Zakaria Hossain	Surasak 1
	09:15–09:35	Keynote Address 1 — Prof. Dr. Chai Jaturapitakkul	Surasak 1
	09:35–09:55	Keynote Address 2 — Dr. Kakuta Fujiwara	Surasak 1
	09:55–10:05	Industry Presentation 1 — KEMREX CO., LTD.	Surasak 1
	10:05–10:15	Industry Presentation 2 — SOIL TESTING SIAM CO., LTD.	Surasak 1
	10:15–10:35	**— Tea Break and Sponsor Exhibition —**	
	10:35–10:55	Keynote Address 3 — Prof. Dr. Shui-Long Shen	Surasak 1

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Date	Time	Activities	Room
	10:55–11:15	Keynote Address 4 — Prof. Dr. Peerapong Jitsangiam	Surasak 1
	11:15–11:25	Industry Presentation 3 — Department of Rural Roads (DRR), Thailand	Surasak 1
	11:25–11:35	Industry Presentation 4 — GIKEN LTD.	Surasak 1
	11:35–11:50	Industry Presentation 5 — GEOQUEST PRODUCTS AISIA PTE. LTD.	Surasak 1
	11:50–12:00	Guidance on Publication in the International Journal of GEOMATE — Prof. Zakaria Hossain	Surasak 1
	12:00–13:00	**— Buffet Lunch — (Glass House, 5th floor)**	
	13:00–13:30	Invited Speaker Presentation	Surasak 1, 2 and 3
	13:30–15:00	Parallel Technical Sessions	Surasak 1, 2 and 3
	15:00–15:20	**Refreshments (Tea Break) + Sponsor Exhibition + Poster Presentation**	
	15:20–17:00	Parallel Technical Sessions	Surasak 1, 2 and 3
	18:00–22:00	**Banquet and Awards Ceremony**	**Surasak 1**
19 Nov 2026	08:00–08:45	Registration and Check-in	Registration desk, 11th floor
	8:45–10:00	Parallel Technical Sessions (Onsite / Online)	Surasak 1, 2 and 3

Date	Time	Activities	Room
	10:00–10:20	**— Refreshments (Tea Break) + Sponsor Exhibition**	
	10:20–12:00	Parallel Technical Sessions (Onsite / Online)	Surasak 1, 2 and 3
	12:00–13:00	**— Buffet Lunch — (Glass House, 5th floor)**	
	13:30–15:00	Parallel Technical Sessions (Onsite / Online)	Surasak 1, 2 and 3
	15:00–15:20	**Refreshments (Tea Break) + Sponsor Exhibition**	
	15:20–17:00	Parallel Technical Sessions	Surasak 1, 2 and 3
	17:10 – 17:20	Closing Ceremony	Surasak 1
20 Nov 2026	Technical visit (Bangkok)		

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GEOMATE Society Thailand Chapter

Keynote - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 18th November 2026 / **Time:** 9:30 - 12:00 / **Room:** Surasak 1
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
09:15–09:35	Keynote Address	UTILIZATION OF WASTE AND RECYCLED MATERIALS FOR SUSTAINABLE CONCRETE	**Prof. Dr. Chai Jaturapitakkul** Department of Civil Engineering, Faculty of Engineering, King Mongkut's University of Technology Thonburi (KMUTT), Thailand
09:35–09:55	Keynote Address	FULL-SCALE EXPERIMENTS AND EVALUATION OF MEMBER FORCES IN BRACED RETAINING WALLS FOR SMALL-SCALE EXCAVATIONS	**Dr. Kakuta Fujiwara** Department of Architecture and Civil Engineering, Graduate School of Engineering, Tokai University, Japan
09:55–10:05	Industry Presentation	GREEN FOUNDATION FOR SUSTAINABLE INFRASTRUCTURE: BUILDING THE FUTURE FROM THE GROUND UP	**Mr. Pravaruj Thammanoonkul** Sales and Marketing Director & Chief Technology officer **KEMREX Co., Ltd.**
10:05–10:15	Industry Presentation	INTRODUCTION TO SOIL TESTING SIAM	**SOIL TESTING SIAM CO., LTD.**
10:15–10:35	**— Tea Break and Sponsor Exhibition —**		

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Time	Paper ID	Paper Title	Presenting Author
10:35–10:55	Keynote Address	PERFORMANCE OF COMPOSITE SEALING MATERIALS OF SHIELD TUNNEL	**Prof. Dr. Shui-Long Shen** Dean and Professor, College of Engineering, Shantou University, China
10:55–11:15	Keynote Address	ADVANCING SUSTAINABLE AND RESILIENT RAILWAY INFRASTRUCTURE IN THAILAND THROUGH TRANSPORTATION GEOTECHNICS RESEARCH	**Prof. Dr. Peerapong Jitsangiam** Department of Civil Engineering, Faculty of Engineering, Chiang Mai University; Deputy Director, Multidisciplinary Research Institute (MDRI), Chiang Mai University, Thailand
11:15–11:25	Industry Presentation	INFRASTRUCTURE DEVELOPMENT, ENGINEERING SOLUTIONS, AND SUSTAINABILITY	**Mr. Panapan Luengjitvatana** Representative Officer **DEPARTMENT OF RURAL ROADS (DRR), THAILAND**
11:25–11:35	Industry Presentation	INNOVATIVE ENGINEERING SOLUTIONS USING PRESS-IN METHOD WITH A FOCUS ON CONCRETE SHEET PILES	**Mr. Asasak Wetvimon** Representative Office Manager Giken Seisakusho Asia Pte., Ltd. Thailand Representative Office **GIKEN SEISAKUSHO ASIA PTE., LTD.**
11:35–11:50	Industry Presentation	INNOVATIVE SOLUTIONS WITH ADVANCED PRODUCTS	**Mr. Saikat Chatterjee** Business Unit Manager

Time	Paper ID	Paper Title	Presenting Author
			GEOQUEST PRODUCTS AISIA PTE. LTD.
11:50–12:00	**Guidance on Publication in the International Journal of GEOMATE** **Prof. Zakaria Hossain**		
12:00–13:00	**— Buffet Lunch — (Glass House, 5th floor)**		

GEOMATE Society Thailand Chapter

A1 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session A1: Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 18th November 2026 / **Time:** 13:00 - 15:00 / **Room:** Surasak 1
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
13:00–13:15	Invited Speaker #1	CASE STUDY OF AN AIRPORT LAND RECLAMATION PROJECT	**Prof. Arul Arulrajah** Swinburne University of Technology, Melbourne, Australia
13:15–13:30	Invited Speaker #2	INTEGRATING MACHINE LEARNING SUSCEPTIBILITY MAPPING WITH LIVE GSM-BASED SLOPE MONITORING FOR RAINFALL-INDUCED LANDSLIDE EARLY WARNING	**Prof. Dr. Ahmad Safuan A. Rashid** Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia
13:30–13:45	G00113	TAG_FLOW SENSITIVITY ANALYSIS: STRATEGIC SOIL DATA SELECTION IN WIDE-AREA LANDSLIDE PREDICTION	**Mr. Chaiyasit Pornpratan** Faculty of Civil Engineering, Chiang Mai University, Thailand
13:45–14:00	G00108	EXTENDING UBC3D-PLM FROM SEISMIC TO RAILWAY LOADING FOR LIQUEFACTION ANALYSIS IN PLAXIS 2D	**Mr. Neerawich Deawsurin** Department of Civil Engineering, Faculty of Engineering, Chiang Mai University, Thailand
14:00–14:15	G00107	DISTRIBUTION OF MAJOR ELEMENTS AND HEAVY METAL ELEMENTS IN PLANTS IN MINING AND NON-MINING AREAS	**Ms. Natsumi Ueno** Graduate School of Systems Engineering, Wakayama University, Japan

Time	Paper ID	Paper Title	Presenting Author
14:15–14:30	G00270	COMPARATIVE STUDY OF CEMENT GRAVEL AND SOIL–CEMENT COLUMNS UNDER CYCLIC LOADING	**Teerawut Pansuwannakun, Prof. Panich Voottipruex** Department of Teacher Training in Civil Engineering, Faculty of Technical Education, King Mongkut's University of Technology North Bangkok, Bangkok, 10800, Thailand
14:30–14:45	G00296	PERFORMANCE ENHANCEMENT OF EXPANSIVE SOILS USING DUAL ADDITIVES: A CBR EVALUATION ON RICE HUSK ASH AND SEASHELL POWDER	**Ms. Rufayda Jannat** Department of Environmental Science and Technology, Mie University, Japan
14:45–15:00	G00226	NUMERICAL STUDY ON INITIAL DEFORMATION OF AN EARLY-STAGE PRESTRESSED REINFORCING BAR INSERTION METHOD	**Dr. Kakuta Fujiwara** Department of Civil Engineering, Tokai University, Japan
15:00–15:20	**Refreshments (Tea Break) + Sponsor Exhibition + Poster Presentation**		

GEOMATE Society Thailand Chapter

A1.1 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Poster Presentation

Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand

Date: 18th November 2026 / **Time:** 15:00 - 15:15 / **Room:** Surasak 1

Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
15:00–15:15	G00112	PLANKTON DIVERSITY ASSESSMENT USING AQUATIC MODEL ECOSYSTEM UNDER CALCIA-IMPROVED SOIL EFFECT	**Prof. Kazuhito Murakami** Chiba institute of Technology, Chiba, Japan
15:00–15:15	G00199	SUSTAINABLE STABILISATION OF RIVER SLUDGE FOR SUBGRADE APPLICATIONS USING RICE HUSK ASH-CEMENT BLENDS	**Mr. Md Yachin Islam** Graduate School of Bioresources, Mie University, Japan
15:00–15:15	G00241	EVALUATION OF BEARING FAILURE STRENGTH IN ALUMINUM SQUARE PIPE JOINTS WITH INSERTS	**Mr. Kenshin Ichikawa** Osaka Metropolitan University, Japan
15:00–15:15	G00219	A STUDY ON DEEP LEARNING-BASED METHODS FOR ESTIMATING THE DISTRIBUTION OF AQUATIC PLANTS	**Assoc. Prof. Dr. Masaaki Kondo** Graduate School of Bioresources, Mie University, Japan
15:00–15:15	G00164	VERTICAL DISTRIBUTION OF LIANAS FROM THE VIEWPOINT OF VEGETATION RECOVERY AND DAMAGE IN MOUNTAIN AREAS	**Dr. Teruo Arase** Faculty of Agriculture, Shinshu University, Japan
15:00–15:15	G00140	STRENGTH CHARACTERISTICS OF VARIOUS BENTONITES UNDER DIFFERENT TEMPERATURE CONDITIONS	**Mr. ZIHAO LIU** Graduate School of Science and Technology, Niigata University, Japan

Time	Paper ID	Paper Title	Presenting Author
15:00–15:15	G00124	Development of Olive Pomace-Derived Adsorbent for the Removal of Multiple Heavy Metals and Toxic Elements	**Ms. Nanaka Sakamura** Graduate School of Science for Creative Emergence, Kagawa University, Japan
15:00–15:15	G00297	INVESTIGATION ON SUPERPLASTICIZER DEMAND AND MECHANICAL PERFORMANCE OF DI-MINERAL ADMIXTURE MODIFIED CONCRETE	**Mr. MD Soybur Rahman** Graduate School of Bioresources, Mie University, Japan
15:00–15:15	G00290	ANALYSIS OF THE CAUSES OF RESERVOIR EUTROPHICATION AND THE EFFECTIVENESS OF COUNTERMEASURES BASED ON DEEP LEARNING	**Dr. Shengping Zhang** Faculty of Urban Science, Meijo University, Japan
15:00–15:15	G00213	STUDY ON TECHNOLOGIES TO REDUCE THE RISK OF OVERFLOW EROSION AND SEEPAGE FAILURE IN RIVER EMBANKMENTS BY COMBINING DRAINAGE STRUCTURES AND COATING MATERIALS	**Mr. Taito Hattori** Graduate School of Science and Technology, Niigata University, Japan

GEOMATE Society Thailand Chapter

B1 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session B1: Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 18th November 2026 / **Time:** 15:20 - 17:00 / **Room:** Surasak 1
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
15:20–15:35	G00224	FRACTIONAL-ORDER DYNAMICS OF HEAVY METAL CONTAMINATION IN FRACTURED AQUIFERS	**Prof. Dalal Adnan Maturi** Department of Mathematics, Faculty of Science, King Abdulaziz University, Jeddah, Saudi Arabia
15:35–15:50	G00202	DENSITY DEPENDENCE OF THE ANGLE OF REPOSE FOR LUNAR REGOLITH SIMULANT FJS-1	**Mr. Tomoya Haraguchi** Graduate School of Science and Engineering, Chuo University, Japan
15:50–16:05	G00201	ENERGY-BASED EVALUATION OF PILE INSTALLATION CONSIDERING LATERAL RESISTANCE: MODEL EXPERIMENTS USING DRY SAND	**Ms. Nana Shinhara** Graduate School of Science and Engineering, Chuo University, Japan
16:05–16:20	G00193	MODEL EXPERIMENTS ON THE HORIZONTAL RESISTANCE OF LOCALLY SCOURED EMBEDDED SPREAD FOUNDATIONS	**Dr. Yuki Yamakuri** School of Science and Engineering, Chuo University, Japan
16:20–16:35	G00188	MICROMECHANICAL MECHANISMS OF SUBSURFACE CAVITY FORMATION IN UNSATURATED-SATURATED SOILS USING COUPLED MPS-DEM ANALYSIS	**Mr. Takuto Hongo, Prof. Shinya Inazumi** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan

Time	Paper ID	Paper Title	Presenting Author
16:35–16:50	G00185	EXPERIMENTAL EVALUATION OF A COUNTERMEASURE AGAINST MANHOLE UPLIFT IN LIQUEFIED SAND DEPOSITS	**Mr. Daiki Fujita, Prof. Shinya Inazumi** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
16:50–17:00	Session Wrap-up		

GEOMATE Society Thailand Chapter

A2 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session A2: Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 18th November 2026 / **Time:** 13:00 - 15:00 / **Room:** Surasak 2
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
13:00–13:15	Invited Speaker #1	ENHANCING MICP INFILTRATION USING SMALL-MOLECULE INHIBITORS FOR GRANITE RESIDUAL SOIL SLOPES	**Prof. Yanning Wang** College of Engineering, Shantou University, China
13:15–13:30	Invited Speaker #2	A UNIFIED PREDICTION MODEL FOR JET GROUTING COLUMN DIAMETER IN THREE JET GROUTING SYSTEMS	**Assoc. Prof. Linshuang Zhao** College of Engineering, Shantou University, China
13:30–13:45	G00220	EFFECT OF REFERENCE CONDITION ON TIME—LAPSE RESISTIVITY INTERPRETATION DURING RAINFALL IN A LANDSLIDE AREA	**Dr. Keisuke INOUE** Institute for Rural Engineering, National Agriculture and Food Research Organization, Japan
13:45–14:00	G00200	AN EFFICIENT METHOD FOR CREATING METAVERSE MODELS FOR LANDSCAPE SIMULATION	**Mr. Ren FUKADA** Graduate School of Science for Creative Emergence, Kagawa University, Japan
14:00–14:15	G00218	DEM MODELING OF FULL—SCALE ROCKFALL PROTECTION SOIL EMBANKMENTS UNDER ROTATING MASS IMPACT	**Mr. Shota Tanigawa** Toyohashi University of Technology, Toyohashi, Japan

Time	Paper ID	Paper Title	Presenting Author
14:15–14:30	G00216	INFLUENCE OF DROP HEIGHT ON LWD MODULUS OF RAILWAY BALLAST: LABORATORY AND FIELD EVALUATION	**Mr. Jompoompong Bunlert** Department of Civil Engineering, Faculty of Engineering, Chiang Mai University
14:30–14:45	G00215	EXPERIMENTAL STUDY ON SEISMIC RACKING COEFFICIENT OF UNDERGROUND BOX TRUCTURES: EFFECT OF INTERFACE ROUGHNESS	**Mr. Kensei Takahashi** Faculty of Science and Engineering, Chuo University, Japan
14:45–15:00	G00211	STRUCTURAL PERFORMANCE ASSESSMENT OF THAI RAILWAY TRANSITION ZONE UNDER MOVING LOADS USING 3D FEM	**Ms. Wannaporn Ardsangeam** Department of Civil Engineering, Faculty of Engineering, Chiang Mai University
15:00–15:20	**Refreshments (Tea Break) + Sponsor Exhibition + Poster Presentation**		

GEOMATE Society Thailand Chapter

B2 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session B2: Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 18th November 2026 / **Time:** 15:20 - 17:00 / **Room:** Surasak 2
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
15:20–15:35	G00306	OPERATIONAL COST-BENEFIT ANALYSIS OF FILTERED VS. SLURRY TAILINGS	**Dr. Gino Calderon Vizcarra** School of Civil Engineering, Universidad Catolica San Pablo, Peru, Knight Piesold, Australia
15:35–15:50	G00146	INVERSE ANALYSIS FRAMEWORK FOR QUANTIFYING CONSTRUCTION JOINT PARAMETERS IN CEMENT-IMPROVED GROUND AND ITS APPLICATION TO QUALITY EVALUATION	**Ms. Miu Kanagawa, Prof. Shinya Inazumi** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
15:50–16:05	G00144	REDUCING MATERIAL USAGE AND CO2 EMISSIONS IN PILE DESIGN FOR WEAK ROCKS USING UCS-BASED EQUATIONS	**Mr. Ketkaewngoen Mahakhotchasenichai, Prof. Shinya Inazumi** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
16:05–16:20	G00141	EVALUATION OF LIQUEFACTION MITIGATION USING SOIL SQUEEZING TECHNOLOGY (SST) FOR GROUND IMPROVEMENT	**Mr. Tomohiro Ichikawa, Prof. Shinya Inazumi** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan

Time	Paper ID	Paper Title	Presenting Author
16:20–16:35	G00155	COASTAL HIGHWAY SLOPE ASSESSMENT AND REMEDIATION IN RESPONSE TO EXTREME WEATHER IMPACT	**Dr. John Victor Smith, Mr. Ramindu Kulatunga** Geoinventions Consulting Services, Australia
16:35–16:50	G00120	FRACTURE PATTERNS IN GRANITE AND GNEISS OF THE HIGH PLAINS OF THE AUSTRALIAN ALPS	**Dr. John Victor Smith, Mr. Patrea Smith** Geoinventions Consulting Services, Australia
16:50–17:05	G00127	DETERMINISTIC MODELING OF RAINFALL-INDUCED SHALLOW AND DEEP-SEATED LANDSLIDES WITH CERTAINTY FACTOR OPTIMIZATION: THE 2022 EVENT IN YAMAGATA, JAPAN	**Dr. Sartsin Phakdimek** School of Geotechnology, Institute of Engineering, Suranaree University of Technology, Thailand
17:05–17:10	Session Wrap-up		

A3 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session A3: Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 18th November 2026 / **Time:** 13:00 - 15:00 / **Room:** Surasak 3
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
13:00–13:15	Invited Speaker #1	BEYOND LOW CARBON: ENGINEERING CEMENTITIOUS MATERIALS FOR CARBON CAPTURE AND SELF-HEALING	**Prof. Piti Sukontasukkul** Department of Civil Engineering, King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand
13:15–13:30	Invited Speaker #2	CROSS-SCALE ASSESSMENT OF MONOLITHIC STEEL PIPE PILE-PIER SYSTEMS FOR BRIDGE SUBSTRUCTURES	**Assoc. Prof. Nguyen Thi Tuyet Trinh** Faculty of Civil and Environmental Engineering, University of Transport and Communications, Vietnam
13:30–13:45	G00244	PRELIMINARY INVESTIGATION OF BACTERIAL CONSORTIA FOR MICP UNDER SIMULATED CONCRETE CRACK CONDITIONS	**Ms. Ploytabtim Nurak** Faculty of Engineering, King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand
13:45–14:00	G00126	CLOGGING MECHANISM AND SOIL TORTUOSITY EVOLUTION DURING	**Mr. Jemy Chua** Graduate School of Integrative Science and

Time	Paper ID	Paper Title	Presenting Author
		PERMEATION GROUTING USING DEM	Engineering, Tokyo City University, Japan
14:00–14:15	G00211	STRUCTURAL PERFORMANCE ASSESSMENT OF THAI RAILWAY TRANSITION ZONE UNDER MOVING LOADS USING 3D FEM	**Ms. Wannaporn Ardsangeam** Department of Civil Engineering, Faculty of Engineering, Chiang Mai University, Thailand
14:15–14:30	G00209	EXPERIMENT STUDY ON THE BEARING CAPACITY OF SHALLOW FOUNDATION ON SLOPE SUBJECTED TO INCLINED LOADING USING ALUMINUM RODS	**Mr. Sotaro Okada** Graduate School of Science, Engineering and Society, Chuo University, Japan
14:30–14:45	G00208	EXPERIMENTAL EVALUATION OF GRANULAR FLOW REGIME AND DYNAMICS USING TRANSPARENT SOIL	**Ms. Moe Abe** Graduate School of Engineering, Toyohashi University of Technology, Japan
14:45–15:00	G00206	PLANE STRAIN COMPRESSION TESTS OF ALUMINUM ROD ASSEMBLIES	**Ms. Yuri Egoshi** Faculty of Science and Engineering, Chuo University, Japan
15:00–15:20	**Refreshments (Tea Break) + Sponsor Exhibition + Poster Presentation**		

B3 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session B3: Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 18th November 2026 / **Time:** 15:20 - 17:00 / **Room:** Surasak 3
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
15:20–15:35	G00151	INVESTIGATION OF THE PENETRATION MECHANISM OF SCREW DRIVING SOUNDING USING A TRANSPARENT SOIL MODEL	**Mr. Shin Takahashi** Graduate School of Integrative Science and Engineering, Tokyo City University, Japan
15:35–15:50	G00152	EXPERIMENTAL INVESTIGATION OF LIQUEFACTION EFFECTS ON MONOPILE FOUNDATIONS USING CENTRIFUGE SHAKING TABLE TESTS	**Ms. Yui ISHIHARA** Graduate School of Integrative Science and Engineering, Tokyo City University, Japan
15:50–16:05	G00154	SEISMIC STABILITY OF STEEL SHEET PILE REVETMENTS REINFORCED BY CHEMICAL GROUTING TECHNIQUE	**Mr. Masahiro Kimura** Graduate School of Integrative Science and Engineering, Tokyo City University, Japan
16:05–16:20	G00132	BOREHOLE CURVATURE IN BACKFILLED GROUND AFTER EXISTING PILE REMOVAL	**Mr. Zhiyuan Chang, Prof. Dr. Shinya Inazumi** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan

Time	Paper ID	Paper Title	Presenting Author
16:20–16:35	G00131	FIELD APPLICATION OF NON-WOVEN GEOTEXTILE AND TERRAMESH FOR ROAD EMBANKMENT REPAIR	**Mr. Ratanachai Meeampol, Prof. Dr. Shinya Inazumi** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
16:35–16:50	G00128	GLASS-BASED ALKALI-ACTIVATED MATERIALS FOR ENVIRONMENTALLY FRIENDLY GROUND IMPROVEMENTS	**Ms. Khin Nyein Chan Kyaw, Prof. Dr. Shinya Inazumi** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
16:50–17:00	G00203	UNCONFINED COMPRESSIVE STRENGTH OF SOFT BANGKOK CLAY STABILIZED WITH BAGASSE ASH AND POLYVINYL ALCOHOL FOR LANDFILL LINERS	**Kriangsak Pruemphonchai** Department of Civil Engineering, Faculty of Engineering and Technology, Thailand
17:00–17:10	Session Wrap-up		

GEOMATE Society Thailand Chapter

C1 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session C1: Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 08:45 - 10:00 / **Room:** Surasak 1
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
08:45–09:00	G00197	CONSOLIDATION BEHAVIOR OF CLAY WITH SURFACEINSTALLED PBDS UNDER INSTALLATION CONDITIONS	**Asst. Prof. Dr. Hirohisa Okada** Graduate School of Engineering, Osaka Metropolitan University, Japan
09:00–09:15	G00174	CORRELATION BETWEEN UNDRAINED SHEAR STRENGTH AND LIQUIDITY INDEX OF SOFT BANGKOK CLAY FOR CROSSSTANDARD GEOTECHNICAL INTERPRETATION	**Assoc. Prof. Nutthachai PRONGMANEE** Department of Science and Engineering, Faculty of Science and Engineering, Kasetsart University Chalermphrakiat Sakon Nakhon Province Campus, Thailand
09:15–09:30	G00173	COMPARISON OF THE SOIL INVESTIGATION REPORT AND THE ACTUAL SOIL PROFILE ENCOUNTERED DURING PRE-BORING FOR BORED PILE WORK	**Assoc. Prof. Nutthachai PRONGMANEE** Department of Science and Engineering, Faculty of Science and Engineering, Kasetsart University Chalermphrakiat Sakon Nakhon Province Campus, Thailand

Time	Paper ID	Paper Title	Presenting Author
09:30–09:45	G00166	COUPLED FINITE ELEMENT–FINITE DIFFERENCE ANALYSIS OF FLUID FLOW AND VISCO-PLASTIC SOIL DEFORMATION UNDER DYNAMIC LOADING	**Prof. Dalal Maturi** Department of Mathematics, Faculty of Science, King Abdulaziz University, Jeddah, Saudi Arabia
09:45–10:00	G00165	ASSESSMENT OF TUNNEL OVERBREAK BEHAVIOR UNDER DIFFERENT GEOLOGICAL CONDITIONS USING HIGH RESOLUTION 3D POINT CLOUDS	**Ms. Atchara Intham** Department of Civil Engineering, Faculty of Engineering, King Mongkut's University of Technology Thonburi, Thailand
10:00–10:20	**Refreshment Break and Sponsor Exhibition**		

GEOMATE Society Thailand Chapter

D1 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session D1: Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 10:20 - 12:00 / **Room:** Surasak 1
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
10:20–10:35	G00162	RAINFALL-INDUCED LANDSLIDE EARLY WARNING BASED ON GEOTECHNICAL AND STATISTICAL MODELS IN NORTHERN THAILAND	**Mr. Haseem Kodae** Department of Civil Engineering, Kasetsart University, Bangkok, Thailand
10:35–10:50	G00161	MODEL TESTS ON THE INFLUENCE OF SIDEWALL FRICTION ON THE UPLIFT OF BOX TUNNEL INDUCED BY GROUND HEAVE DURING ADJACENT EXCAVATION	**Ms. Moe Yagawa** Department of Civil, Human and Environmental Science and Engineering, Chuo University, Japan
10:50–11:05	G00139	POST-LANDSLIP ASSESSMENT AND RESTORATION OF CRITICAL RURAL ROAD SLOPE	**Dr.Sien Ti Kok** Geoinventions Consulting Services Pty Ltd, Australia
11:05–11:20	G00138	DEVELOPMENT AND APPLICATION OF A FROST SUSCEPTIBILITY EVALUATION SYSTEM FOR SUBGRADE SOILS IN ULAANBAATAR, MONGOLIA	**Prof. Dai Nakamura** Graduate School of Engineering, Kitami Institute of Technology, Japan
11:20–11:35	G00133	EFFECT OF ELASTIC AND ELASTO-PLASTIC MODELS OF TUNNEL SUPPORTS ON FACE DISPLACEMENT AND STRESS STATES	**Mr. Rintarou Doi** Graduate School of Integrative Science and Engineering, Tokyo City University, Japan

Time	Paper ID	Paper Title	Presenting Author
11:35–11:50	G00130	DIRECT MEASUREMENT OF IMPACT-RESPONSE WAVES IN STEEL PIPES FOR LANDSLIDE PREVENTION PILES	**Mr. Masayoshi YOSHIZAWA** Institute for Rural Engineering, National Agriculture and Food Research Organization, Japan
12:00–13:00	**— Buffet Lunch — (Glass House, 5th floor)**		

GEOMATE Society Thailand Chapter

C2 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session C2: Structural Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 08:45 - 10:00 / **Room:** Surasak 2
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
08:45–09:00	G00278	SEISMIC PERFORMANCE OF A HOTEL BUILDING IN PADANG CITY, INDONESIA USING PUSHOVER ANALYSIS	**Prof. Fauzan Fauzan** Engineering Faculty, Andalas University, Indonesia
09:00–09:15	G00277	RETROFITTING OF DPRD OFFICE SHELTER BUILDING OF WEST SUMATERA FOR THE MITIGATION OF THE MENTAWAI-SIBERUT MEGATHRUST, INDONESIA	**Prof. Fauzan Fauzan** Engineering Faculty, Andalas University, Indonesia
09:15–09:30	G00276	STRUCTURAL BEHAVIOR OF EARTHQUAKE-RESISTANT PERMANENT HOUSING USING ECC MASONRY MATERIAL WITH FERROCEMENT LAYER	**Prof. Fauzan Fauzan** Engineering Faculty, Andalas University, Indonesia
09:30–09:45	G00274	SEISMIC VULNERABILITY EVALUATION AND RETROFITTING OF THE WEST SUMATRA BPBD BUILDING USING EXTERIOR STEEL BRACING	**Prof. Fauzan Fauzan** Engineering Faculty, Andalas University, Indonesia
09:45–10:00	G00245	CYCLIC LOADING TESTS OF 500-MM-DIAMETER STEEL PIPE PILE-HEAD CONNECTIONS UNDER CONSTANT AXIAL FORCE	**Dr. Sachi Furukawa** Lecturer, Osaka Metropolitan University, Japan
10:00–10:20	**Refreshment Break and Sponsor Exhibition**		

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GEOMATE Society Thailand Chapter

D2 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session D2: Structural Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 10:20 - 12:00 / **Room:** Surasak 2
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
10:20–10:35	G00242	ESTIMATION OF THE ELASTIC LIMIT COMPRESSIVE STRENGTH OF STEEL PIPE PILE-HEAD CONNECTIONS	**Mr. Akito Katsuta** Department of Architecture and Building Engineering, Osaka Metropolitan University, Japan
10:35–10:50	G00212	Evaluating the Performance of Carbonated Recycled Concrete Powder as a Low-Carbon Alternative to Ordinary Portland Cement	**Mr. Husam Al Dughaishi** Department of Civil Engineering, Faculty of Engineering, Universiti Malaya, 50603 Kuala Lumpur, Malaysia
10:50–11:05	G00207	A COMPARATIVE STUDY OF SOIL–STRUCTURE INTERACTION AND BASE ISOLATION OF SINGLE-STOREY BUILDINGS UNDER SOFT SOIL CONDITIONS AND FIXED-BASE MODELING	**Dr. Srikulnath NILNOREE** School of Civil Engineering, Suranaree University of Technology, Thailand
11:05–11:20	G00191	GROUND-MOTION PARAMETER-DRIFT DEMAND CORRELATIONS FOR A 25-STORY RC BUILDING IN BANGKOK	**Mr. Wai Yan Ko Ko** Faculty of Engineering, Mahidol University, Thailand
11:20–11:35	G00176	PREDICTING YIELD AND ULTIMATE TENSILE STRENGTH OF REINFORCING STEEL BARS USING	**Assoc. Prof. Nutthachai PRONGMANEE**

Time	Paper ID	Paper Title	Presenting Author
		DIAMETER, RELATIVE MASS DEVIATION, AND GRADE-TREATMENT CLASS	Department of Science and Engineering, Faculty of Science and Engineering, Kasetsart University, Chalermphrakiat Sakon Nakhon Province Campus, Thailand
11:35–11:50	G00175	SCREENING LCA OF MICP-DERIVED SODIUM CARBONATE FLY ASH GEOPOLYMER MORTAR	**Assoc. Prof. Nutthachai PRONGMANEE** Department of Civil Engineering, Faculty of Science and Engineering, Kasetsart University, Thailand
12:00–13:00	**— Buffet Lunch — (Glass House, 5th floor)**		

GEOMATE Society Thailand Chapter

C3 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session C3: Environmental Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 08:45 - 10:00 / **Room:** Surasak 3
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
08:45–09:00	G00224	FRACTIONAL-ORDER DYNAMICS OF HEAVY METAL CONTAMINATION IN FRACTURED AQUIFERS	**Prof. Dalal Maturi** Department of Mathematics, Faculty of Science, King Abdulaziz University, Jeddah, Saudi Arabia
09:00–09:15	G00221	ECOLOGICAL MEMORY IN AQUATIC ECOSYSTEMS FRACTIONAL PREDATOR-PREY DYNAMICS OF NILE PERCH AND CICHLIDS	**Prof. Dalal Maturi** Department of Mathematics, Faculty of Science, King Abdulaziz University, Jeddah, Saudi Arabia
09:15–09:30	G00187	LOW-CARBON GROUND IMPROVEMENT BINDER USING BIOCHAR, SLAG, AND SILICA ACTIVATOR	**Mr. Ikuto Moriyama, Prof. Dr. Shinya Inazumi** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
09:30–09:45	G00184	ECO-FRIENDLY BINDER USING WASTE GLASS AND SLAG FOR DEBRIS-FLOW EMBANKMENTS	**Mr. Kohta Tezuka, Prof. Dr. Shinya Inazumi** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
09:45–10:00	G00183	INFLUENCE OF SEALED STORAGE PERIOD ON PH EVOLUTION	**Mr. Kantaro Kojima, Prof. Dr. Shinya Inazumi**

Time	Paper ID	Paper Title	Presenting Author
		DURING AERATION CURING OF CEMENT- AND LIME-STABILIZED EXCAVATED SOILS	Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
08:45–09:00	G00179	DEVELOPMENT OF A LOW-COST SOLAR HEATED VENTILATED WALL FOR DOMESTIC HOT WATER AND PASSIVE VENTILATION IN TROPICAL BUILDINGS	**Mr. Praparat Hengsapkool, Assoc. Prof. Thana Ananacha** Program in Innovation and Designing for Sustainability, Faculty of Architecture and Design, King Mongkut's University of Technology North Bangkok, Thailand
09:00–09:15	G00171	THERMAL AND VENTILATION PERFORMANCE OF A GREEN WALL INTEGRATED SOLAR CHIMNEY FOR BUILDING ENVELOPE APPLICATIONS	**Ms. Napath Sakarthornsub, Assoc. Prof. Thana Ananacha** Program in Innovation and Designing for Sustainability, Faculty of Architecture and Design, King Mongkut's University of Technology North Bangkok, Thailand
09:15–09:30	G00170	EXPERIMENTAL EVALUATION OF A SOLAR CHIMNEY SKYLIGHT ROOF FOR DAYLIGHTING ENHANCEMENT AND PASSIVE THERMAL REDUCTION IN TROPICAL BUILDINGS	**Mr. Kornphavit Kusuporncharoen, Assoc. Prof. Thana Ananacha** Program in Innovation and Designing for Sustainability, Faculty of Architecture and Design, King Mongkut's University of Technology North Bangkok, Thailand

Time	Paper ID	Paper Title	Presenting Author
09:30–09:45	G00169	DEVELOPMENT AND EXPERIMENTAL INVESTIGATION OF A VENTILATED DAYLIGHTING DUCT SYSTEM INTEGRATED INTO OPAQUE BUILDING WALLS	**Mr. Kitti Raiykhuntod, Assoc. Prof. Thana Ananacha** Program in Innovation and Designing for Sustainability, Faculty of Architecture and Design, King Mongkut's University of Technology North Bangkok, Thailand
09:45–10:00	G00167	EXPERIMENTAL INVESTIGATION OF A VENTILATED CONCRETE BLOCK WALL FOR PASSIVE COOLING AND NATURAL VENTILATION IN TROPICAL CLIMATE	**Mr. Patcharin Maneerat, Assoc. Prof. Thana Ananacha** Program in Innovation and Designing for Sustainability, Faculty of Architecture and Design, King Mongkut's University of Technology North Bangkok, Thailand
10:00–10:20	**Refreshment Break and Sponsor Exhibition**		

GEOMATE Society Thailand Chapter

D3 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session D3: Environmental Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 10:20 - 12:00 / **Room:** Surasak 3
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
10:20–10:35	G00172	CO_2 MINERALIZATION POTENTIAL OF GABBRO FROM THE BUNCHAKIT QUARRY, NORTHERN THAILAND	**Mr. Anukun Puttaluk** Department of Mining and Petroleum Engineering, Chiang Mai University, Thailand
10:35–10:50	G00168	Mineral CO_2 sequestration of olivine-bearing gabbro observed through various experimental conditions	**Mr. Thanakon Khatecha** Department of Mining and Petroleum Engineering, Chiang Mai University, Thailand
10:50–11:05	G00143	IOT-BASED AIR FILTRATION SYSTEM FOR INDOOR PM2.5 MONITORING AND AIR QUALITY IMPROVEMENT	**Asst. Prof. Suphattharachai Chomphan** Faculty of Engineering at Sriracha, Kasetsart University, Thailand
11:05–11:20	G00135	Phenology and Reproductive Success of an Isolated Viola vaginata	**Mr. Teruki Kurisu** Teruki Kurisu, Michiko Masuda Department of Civil Engineering, Nagoya Institute of Technology, Japan
11:20–11:35	G00134	GLM Analysis of Environmental Factors Affecting Transplanted Ajuga shikotanensis var. hirsuta	**Ms. Mei Takeoka**

Time	Paper ID	Paper Title	Presenting Author
			Department of Civil Engineering, Nagoya Institute of Technology, Japan
11:35–11:50	G00118	FACTORS CONTRIBUTING TO LONGITUDINAL CRACKING IN ASPHALT PAVEMENTS IN SNOWY COLD REGIONS	**Dr. Hiroyasu NAKAMURA** Dept of Civil and Environmental Engineering Hokkaido University of Science, Japan
11:50–12:05	G00237	Evaluation of Marshall Properties and Asphalt Film Thickness Using Confocal Microscopy in Bottom Ash Cold Mix Asphalt Concrete	**Mr. Sakultien Tientongsiri** Institute of Engineering, Suranaree University of Technology, Thailand
12:00–13:00	**— Buffet Lunch — (Glass House, 5th floor)**		

GEOMATE Society Thailand Chapter

E1 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session E1: 13:00–15:00 Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 13:00 - 15:00 / **Room:** Surasak 1
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
13:00–13:15	G00129	Evaluation of Failure Risk of Irrigation Ponds Based on Case Studies of Debris-Flow Inflow	**Dr. Daisuke Shoda** Institute for Rural Engineering, NARO, Japan
13:15–13:30	G00123	EVALUATION OF THE APPLICABILITY AND PERFORMANCE OF EICP-BASED REMEDIATION FOR DAMAGED ROCK MASSES	**Mr. Haruhiko Hirai** Graduate school of Engineering, Hokkaido University, Sapporo, Japan
13:30–13:45	G00122	SLaDEE METHOD: A RAPID AND PHYSICALLY TRANSPARENT APPROACH FOR ESTIMATING EARTHQUAKE-INDUCED LANDSLIDE DISPLACEMENT	**Mr. Takeshi KUSUMOTO** National Agriculture and Food Research Organization, Japan
13:45–14:00	G00119	THE INFLUENCE OF SPOIL DISCHARGE SIZE AND NOZZLE ROTATION OF JET GROUTING USING CENTRIFUGE MODELING	**Ms. Kumi Imamura** Graduate School of Integrated Science and Engineering, Tokyo City University, Japan
14:00–14:15	G00116	SLOPE STABILITY OF PHOTOVOLTAIC PANEL INSTALLATIONS UNDER RAINFALL EVENT USING CENTRIFUGE MODEL TEST	**Ms. Koonwalee Pota** Faculty of Civil Engineering, Chiang Mai University, Thailand
14:15–14:30	G00115	REGIONAL SLOPE STABILITY ASSESSMENT OF TRANSMISSION	**Ms. Naphatsorn Thipuan**

Time	Paper ID	Paper Title	Presenting Author
		TOWERS IN MAE SOT, THAILAND USING TAG-FLOW MODEL	Faculty of Civil Engineering, Chiang Mai University, Thailand
14:30–14:45	G00114	A FEASIBILITY STUDY ON INDUSTRIAL BY-PRODUCT-DERIVED DCPD FOR BIO-CEMENTATION OF SAND	**Mr. Jathursan Singarasa** Division of Sustainable Resources Engineering, Graduate School of Engineering, Hokkaido University, Sapporo 060-8628, Japan
14:45–15:00	G00312	SURFACE PGA ASSESSMENT VIA SITE RESPONSE ANALYSIS FOR THE SOGIP AREA, SIPITANG, SABAH	**Dr. Afiqah Ismail** Civil Engineering Faculty, Universiti Teknologi Malaysia, Malaysia
15:00–15:20	**Refreshments (Tea Break) + Sponsor Exhibition**		

GEOMATE Society Thailand Chapter

F1 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session F1: Water Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 15:20 - 17:00 / **Room:** Surasak 1
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
15:20–15:35	G00150	Assessing Near-Term Climate Change Impacts on Streamflow Dynamics in 1 the Mun River Basin, Thailand, Using CMIP6 and GR4J Models	**Mr. Virun Chulkaivalsucharit** Department of Civil Engineering, School of Engineering, King Mongkut's Institute of Technology Ladkrabang, 6 Bangkok, Thailand
15:35–15:50	G00136	INVESTIGATION OF COLLISIONS BETWEEN BOTTOM-FIXED OFFSHORE WIND TURBINES AND TSUNAMI DEBRIS IN PORTS	**Mr. Kenya Ota** Graduate School of Engineering Science, Akita University, Japan
15:50–16:05	G00117	APPLICATION OF A HEC-RAS (QUASI-1D) HYDRODYNAMIC MODEL FOR IDENTIFYING CRITICAL FLOOD HOTSPOTS IN CHIANG RAI PROVINCE, THAILAND	**Asst. Prof. Dr. Pinit Tanachaichoksirikun** Department of Civil Engineering, School of Engineering, King Mongkut's Institute of Technology Ladkrabang, Thailand
16:05–16:20	G00103	REMOVAL OF BORATE FROM AQUEOUS SOLUTION VIA LAYERED DOUBLE HYDROXIDE SYNTHESIS USING BITTERN	**Asst. Prof. Takaaki Wajima** Graduate School of Engineering, Chiba University, Japan

Time	Paper ID	Paper Title	Presenting Author
16:20–16:35	G00305	INFLUENCES OF DIFFERENT BASALT GEOSYNTHETICS ON SOIL SHEAR STRENGTH	**Mr. Mohamed Eltaher** Graduate School of Bioresources, Mie University, Japan
16:35–16:50	Session Wrap-up		

GEOMATE Society Thailand Chapter

E2 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session E2: Construction Materials
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 13:00 - 15:00 / **Room:** Surasak 2
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
13:00–13:15	G00257	STRENGTH DEVELOPMENT AND DURABILITY OF ALKALI-ACTIVATED CEMENT PASTE CONTAINING CLAY RESIDUE AND DOLOMITE	**Assoc. Prof. Dr. Sakonwan Hanjitsuwan** Department of Survey and Geomatics Engineering, Faculty of Engineering and Technology, Rajamangala University of Technology Isan, Thailand
13:15–13:30	G00264	INFLUENCE OF SUPPLYING CALCIUM AUXILIARY SOLUTIONS TO CARBONATED MORTAR ON CL^- INTRUSION INHIBITION BY SILICATE TYPE SURFACE PENETRANTS	**Dr. Takuya Kondo** National Institutes of Technology, Kochi College, Japan
13:30–13:45	G00205	LONG-TERM RELAXATION BEHAVIOR OF PRESTRESSING STRANDS UNDER SUSTAINED ELEVATED TEMPERATURES: EXPERIMENTAL VALIDATION AND PREDICTIVE MODELING FOR CLINKER SILOS	**Dr. Kirati Nitichote** Department of Civil Engineering, Faculty of Engineering, Rajamangala University of Technology Krungthep, Thailand
13:45–14:00	G00177	COMPETITIVE BIDDING BEHAVIOR IN PUBLIC CONSTRUCTION PROCUREMENT: A CASE STUDY OF LOCAL ADMINISTRATIVE ORGANIZATIONS IN THAILAND	**Assoc. Prof. Nutthachai PRONGMANEE** Department of Science and Engineering, Faculty of Science and Engineering, Kasetsart University

Time	Paper ID	Paper Title	Presenting Author
			Chalermphrakiat Sakon Nakhon Province Campus, Thailand
14:00–14:15	G00295	MECHANICAL INTEGRITY AND FAILURE BEHAVIORS OF RECYCLED FINE AGGREGATE CONCRETE MORTARS	**Mr. Muhammad Ali Fardoush Siddquy** Graduate School of Bioresources, Mie University, Tsu City, Japan
14:15–14:30	G00292	SYNERGISTIC EFFECTS OF RICE HUSK ASH AND SEASHELL POWDER ON WORKABILITY AND STRENGTH DEVELOPMENT IN LOW-CARBON CONCRETE	**Mr. MD SOYBUR RAHMAN** Graduate School of Bioresources, Mie University, Japan
14:30–14:45	G00178	FULL-SCALE FIELD EXPERIMENT ON PRESS-IN PILING OF CONCRETE PILES IN BANGKOK CLAY	**Dr. Yukihiro Ishihara** GIKEN LTD., Japan
14:45–15:00	G00258	PROPERTIES OF THE MODIFIED LAYER FORMED BY SILICATE SURFACE IMPREGNATION IN CL-CONTAMINATED MORTAR	**Mr. Eito Takeuchi** Department of Social Design Engineering, civil engineering, National Institutes of Technology, Kochi College Advanced Course, Japan
15:00–15:20	**Refreshments (Tea Break) + Sponsor Exhibition**		

GEOMATE Society Thailand Chapter

F2 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session F2: Construction Materials
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 15:20 - 17:00 / **Room:** Surasak 2
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
15:20–15:35	G00256	INFLUENCE OF ADMIXTURE TYPES ON STRENGTH OF CONSTRUCTION MATERIALS WITH WOOD ASH AND SLAG POWDER	**Mr. Koshi Yamamoto** Department of Social Design Engineering, National Institute of Technology, Kochi College, Japan
15:35–15:50	G00255	COMPARISON OF INITIAL AND LONG-TERM CORROSION RATE OF REINFORCING STEEL CORRODED BY CHLORIDE AND CARBONATION	**Mr. Natthawat Sooksomklin** School of Civil Engineering and Technology, Sirindhorn International Institute of Technology, Thammasat University, Pathum Thani, Thailand
15:50–16:05	G00195	LINKING BURNED AREA PATTERNS WITH ECONOMIC CROP CULTIVATION IN CHIANG MAI PROVINCE, THAILAND	**Dr. Nutnaree Thongrueang** Department of Geography, Faculty of Social Sciences, Kasetsart University, Thailand
16:05–16:20	G00263	ANALYSIS OF PEDESTRIAN OVERPASSES AS URBAN INFRASTRUCTURE	**Mr. Ryunosuke Komatsu** Graduate School of Engineering, Osaka Institute of Technology, Japan
16:20–16:35	G00262	HETEROGENEITY OF PEDESTRIAN BEHAVIOR IN SPATIAL EVALUATION-BASED PEDESTRIAN SIMULATION	**Ms. Chika Ichimiya** Graduate School of Engineering, Architecture, Civil Engineering and Urban

Time	Paper ID	Paper Title	Presenting Author
			Design, Osaka Institute of Technology, Japan
16:35–16:50	G00273	MECHANICAL PROPERTIES OF MORTAR INCORPORATING SUGARCANE BAGASSE ASH AND SISAL FIBER	**Mr. Chokchai Khomobklang** Faculty of Engineering and Technology, Rajamangala University of Technology Isan, Nakhon Ratchasima, Thailand
16:50–17:00	Session Wrap-up		

GEOMATE Society Thailand Chapter

E3 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session E3: AI in Civil Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 13:00 - 15:00 / **Room:** Surasak 3
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
13:00–13:15	G00261	A STUDY ON METHODS FOR ESTABLISING EVACUATION ROUTES BASED ON RESIDENTS' SPATIAL PERCEPTION	**Prof. Dr. Kazunari Tanaka** Faculty of Engineering, Osaka Institute of Technology, Japan
13:15–13:30	G00272	Experimental and Machine Learning Investigation of Fly Ash–Based Geopolymer Mortar Incorporating Crumb Rubber and Sisal Fiber	**Mr. Thanapon Jachoneram** Infrastructure and Rail Transportation Techologies Research Unit, Department of Civil Engineering, Faculty of Engineering and Technology, Rajamangala University of Technology Isan, Nakhon Ratchasima, Thailand
13:30–13:45	G00148	ANOMALY DETECTION FOR EXCAVATION SLOPES USING ENSEMBLE BACKGROUND SUBTRACTION METHODS	**Ms. Masoho Ide** Graduate School of Integrative Science and Engineering, Tokyo City University, Japan
13:45–14:00	G00147	ESTIMATION OF POSTERIOR PROBABILITY DISTRIBUTION OF GEOTECHNICAL PARAMETERS USING PARAMETERIZED PHYSICS-INFORMED NEURAL NETWORKS AND BAYESIAN INFERENCE	**Mr. Ryusei Fukunaga** Graduate School of Science and Engineering, Ritsumeikan University, Japan

Time	Paper ID	Paper Title	Presenting Author
14:00–14:15	G00308	PREDICTING CAPWAP PILE CAPACITY USING ANN, GA REGRESSION, AND GAANN	**Dr. Harnedi Maizir** Civil Engineering Department, Sekolah Tinggi Teknologi Pekanbaru, Indonesia
14:15–14:30	G00210	MECHANICAL & PHYSICAL PROPERTIES OF SEAWATERMIXED LCC WITH COAL BOTTOM ASH AND FLY ASH CENOSPHERES	**Ms. Tongzhou Cai** Department of Civil Engineering, Faculty of Engineering, Universiti Malaya, 50603 Kuala Lumpur, Malaysia
14:30–14:45	G00200	AN EFFICIENT METHOD FOR CREATING METAVERSE MODELS FOR LANDSCAPE SIMULATION	**Mr. Ren FUKADA** Graduate School of Science for Creative Emergence, Kagawa University, Japan
14:45–15:00			
15:00–15:20	**Refreshments (Tea Break) + Sponsor Exhibition**		

GEOMATE Society Thailand Chapter

F3 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session F3: Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 13:00 - 15:00 / **Room:** Surasak 3
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
15:20–15:35	G00280	SUSTAINABLE REINFORCEMENT OF CEMENT-STABILIZED MARGINAL LATERITIC SOIL WITH COIR FIBER: UNCONFINED COMPRESSIVE STRENGTH AND SMALL-STRAIN SHEAR MODULUS	**Assoc. Prof. Keeratikan Piriyakul** King Mongkut's University of Technology North Bangkok, Bangkok, Thailand
15:35–15:50	G00225	COMPACTION CHARACTERISTICS OF BOTTOM ASH-GGBS GEOPOLYMER-STABILIZED LATERITE SOIL	**Favour Chukwuebuka Egwu** Sirindhorn International Institute of Technology, Thammasat University, Pathum Thani, Thailand
15:50–16:05	G00204	EFFECT OF THE ADDITION RATE OF GEOPOLYMER MODIFIERS USING RICE HUSK ASH AS AN ACTIVE FILLER ON THE STRENGTH OF SOIL MATERIALS	**Assoc. Prof. Taichi Hyodo** Faculty of Science and Engineering, Toyo University, Japan
16:05–16:20	G00294	Development and Experimental Validation of the Bolt Lock Connection System for Spun Micropiles: Structural Behaviour Field Performance, and Ground Vibration Response	**Ms. Siviluck Ladkhamkrung** Graduate Program in Civil Engineering and Construction Management, Suranaree University of Technology, Thailand
16:20–16:35	G00243	PERFORMANCE OF CO_2-CURED LOW-CARBON PRECAST	**Ms. Kamonchanok Adisorn**

Time	Paper ID	Paper Title	Presenting Author
		CONCRETE INCORPORATING RICE HUSK ASH AND STEEL SLAG	Graduate Program in Civil Engineering and Construction Management, Suranaree University of Technology, Thailand
16:35–16:50	G00315	PARAMETRIC ASSESSMENT OF GEOGRID-REINFORCED SLOPE STABILITY AND DEFORMATION USING SITE-INFORMED SOIL PROPERTIES FROM DOI INTHANON, THAILAND	**Mr. Suta Tongbut** Graduate Program in Civil Engineering and Construction Management, Suranaree University of Technology, Thailand
16:50–17:00	Session Wrap-up		

GEOMATE Society Thailand Chapter

DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

ONLINE PRESENTATION

Zoom: Meeting ID: 965 7901 5143 / Passcode: 928565

Date: 19th November 2026 / **Time:** 08:45 - 10:00

Session Chair: **Dr. Apichat Suddeepong**
King Mongkut's University of Technology North Bangkok, Thailand

Session Co-Chair: **Dr. Kongsak Akkharawongwhatthana**
King Mongkut's University of Technology North Bangkok, Thailand

Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
Breakout Room 1			
08:45–09:00	G00106	DYNAMIC TRAFFIC SIGNAL SYSTEMS FOR EFFICIENT ROAD CONGESTION MANAGEMENT	**Mr. Mark Joren Crisologo** College of Engineering, Mapua University, 658 Muralla St., Intramuros, Manila, 1002 Philippines
09:00–09:15	G00289	COMMUNITY ENGAGEMENT AND FLOOD RISK PERCEPTION LARGE LANGUAGE MODEL	**Wei-Wei Zhao** College of Engineering, Shantou University, China
09:15–09:30	G00240	STATIC AND DYNAMIC PERFORMANCE OF LOW-QUALITY LATERITIC SUBBASE MATERIAL STABILIZED WITH CALCIUM CARBIDE RESIDUE	**Mr. Pitiphon Arriauea** Graduate Program in Civil Engineering and Construction Management, Suranaree University of Technology, Thailand
09:30–09:45	G00235	DEVELOPMENT AND EVALUATION OF A LOCALIZED ASPHALT PAVEMENT TEMPERATURE PREDICTION MODEL FOR	**Ms. Kanchana Hiranwatthana** Graduate Program in Civil Engineering and

Time	Paper ID	Paper Title	Presenting Author
		PERFORMANCE GRADE BINDER SELECTION IN THAILAND	Construction Management, Suranaree University of Technology, Thailand
09:45–10:00	G00314	OPTIMIZING BAMBOO-REINFORCED WORKING PLATFORMS ON SOFT MINE SLUDGE USING 3D FEM	**Mr. Sirawit Sawasdee** Graduate Program in Civil Engineering and Construction Management, Suranaree University of Technology, Thailand
10:00–10:15	G00239	EVOLUTION OF THE CUMULATIVE RAINFALL–EVENT RAINFALL–DURATION (CED) THRESHOLDS FRAMEWORK	**Prof. Avirut Chinkulkijniwat** Suranaree University of Technology, Thailand
Breakout Room 2			
08:45–09:00	G00287	INVESTIGATION OF PERFORMANCE OF COMPOSITE EPDM GASKETS UNDER HIGH-PRESSURE SEAWATER	**Prof. Shuilong Shen** College of Engineering, Shantou University, China
09:00–09:15	G00271	ANALYTICAL MODELS FOR SEAWATER INTRUSION IN SLOPING-BED COASTAL AQUIFERS	**Dr. Linshuang Zhao** College of Engineering, Shantou University, China
09:15–09:30	G00254	INNOVATIVE PROTOTYPE OF CELLULAR LIGHTWEIGHT ALUMINUM METAL-PARA WOOD FLY ASH-LIGNITE FLY ASH GEOPOLYMER MORTAR	**Assoc. Prof. Dr. Patimapon Sukmak** Walailak University, Thailand
09:30–09:45	G00253	CERAMIC SLAG CELLULAR LIGHTWEIGHT WALL PANELS	**Assoc. Prof. Dr. Patimapon Sukmak** Walailak University, Thailand

Time	Paper ID	Paper Title	Presenting Author
09:45–10:00	G00252	INNOVATIVE OF BRICKS BIOMASS ASH GEOPOLYMER	**Assoc. Prof. Dr. Patimapon Sukmak** Walailak University, Thailand
10:00–10:15	G00248	A STUDY ON THE USE OF RICE STRAW ASH AS A PARTIAL CEMENT REPLACEMENT IN CONCRETE BLOCK PRODUCTION	**Dr. Teerasak Yaowarat** Program in Civil and Infrastructure Engineering, Suranaree University of Technology, Thailand
10:15–10:30	G00288	HYDRO-HYDROLOGICAL MODELLING OF INUNDATION AREA AND DEPTH IN URBAN AREA	**Prof. Shuilong Shen** College of Engineering, Shantou University, China
Breakout Room 3			
08:45–09:00	G00251	TEMPERATURE-DEPENDENT INDIRECT TENSILE STRENGTH OF POWDER NATURAL RUBBER MODIFIED ASPHALT CONCRETE	**Dr. Apinun Buritatum** Program in Civil and Infrastructure Engineering, Suranaree University of Technology, Thailand
09:00–09:15	G00228	ENGINEERING PERFORMANCE OF GEOPOLYMER BLOCKS WITH KAOLIN WASTE FOR FOOTPATH APPLICATIONS	**Mr. Kitisak Vongsook** Graduate Program in Civil Engineering and Construction Management, Suranaree University of Technology, Thailand
09:15–09:30	G00250	STRENGTH RETENTION OF POWDER NATURAL RUBBER MODIFIED ASPHALT CONCRETE UNDER SODIUM CHLORIDE EXPOSURE	**Dr. Apinun Buritatum** Program in Civil and Infrastructure Engineering, Suranaree University of Technology, Thailand

Time	Paper ID	Paper Title	Presenting Author
09:30–09:45	G00249	PERFORMANCE EVALUATION OF POWDER NATURAL RUBBER MODIFIED ASPHALT CEMENT FOR SUSTAINABLE PAVEMENT APPLICATIONS	**Dr. Apinun Buritatum** Program in Civil and Infrastructure Engineering, Suranaree University of Technology, Thailand
09:45–10:00	G00247	NATURAL RUBBER LATEX–MODIFIED CEMENTITIOUS MATERIALS FOR SUSTAINABLE PAVEMENT INFRASTRUCTURE: MECHANICAL PERFORMANCE, MICROSTRUCTURAL MECHANISMS, AND DESIGN IMPLICATIONS	**Dr. Teerasak Yaowarat** Program in Civil and Infrastructure Engineering, Suranaree University of Technology, Thailand
10:00–10:15	G00246	OPTIMUM NATURAL RUBBER LATEX DOSAGE FOR STRENGTH–DUCTILITY BALANCE IN CEMENTITIOUS PAVEMENT LAYERS	**Dr. Teerasak Yaowarat** Program in Civil and Infrastructure Engineering, Suranaree University of Technology, Thailand
10:15–10:30	G00227	PERFORMANCE OF RIGID POLYURETHANE FOAM FOR INJECTION IN PAVEMENT REPAIR APPLICATIONS	**Assoc. Prof. Dr. Aroondet Boonsung** Uttaradit Rajabhat University, Thailand



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