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

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: Assoc. Prof. Dr. Dr. Menglim Hoy Welcome Addresses: Prof. Dr. Dr. Suksun Horpibulsuk Prof. Dr. Dr. Zakaria Hossain	Surasak 1
	09:15–09:35	Keynote Address 1 — Prof. Dr. 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 —**	

Date	Time	Activities	Room
	10:35–10:55	Keynote Address 3 — Prof. Dr. Dr. Shui-Long Shen	Surasak 1
	10:55–11:15	Keynote Address 4 — Prof. Dr. 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 ASIA PTE. LTD.	Surasak 1
	11:50–12:00	Guidance on Publication in the International Journal of GEOMATE — Prof. Dr. 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

Date	Time	Activities	Room
			1, 2 and 3
	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
	17:00–17:30	**Closing Ceremony**	**Surasak 1**
20 Nov 2026	**Technical visit (Bangkok)**		

GEOMATE Society Thailand Chapter

KEYNOTE - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

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

Session Chair / Time: 9:15 - 10:15

Chair: Prof. Dr. Piti Sukontasukkul
King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand

Co-Chair: Assoc. Prof. Dr. Nutthachai Prongmanee
Faculty of Science and Engineering,
Kasetsart University, Thailand

Session Chair / Time: 10:35 - 11:50

Chair: Prof. Dr. Yanning Wang
College of Engineering,
Shantou University, China

Co-Chair: Assoc. Prof. Dr. Linshuang Zhao
College of Engineering,
Shantou University, China

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**

Time	Paper ID	Paper Title	Presenting Author
			Sales and Marketing Director & Chief Technology Officer **KEMREX Co., Ltd.**
10:05–10:15	Industry Presentation	SOIL TESTING SIAM: ENGINEERING TESTING EQUIPMENT AND TECHNOLOGY	**Mr. Jirawat Suppitayahorn, Mrs. Naphaphat Wilalak** Sales and Marketing Officers **SOIL TESTING SIAM CO., LTD.**
10:15–10:35	**— Tea Break and Sponsor Exhibition —**		
10:35–10:55	Keynote Address	PERFORMANCE OF COMPOSITE SEALING MATERIALS OF SHIELD TUNNEL	**Prof. Dr. 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. 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

Time	Paper ID	Paper Title	Presenting Author
			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 LTD.**
11:35–11:50	Industry Presentation	INNOVATIVE SOLUTIONS WITH ADVANCED PRODUCTS	**Mr. Saikat Chatterjee** Business Unit Manager **GEOQUEST PRODUCTS ASIA PTE. LTD.**
11:50–12:00	**Guidance on Publication in the International Journal of GEOMATE** **Prof. Dr. 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
Chair: **Prof. Dr. Arul Arulrajah**
Swinburne University of Technology, Melbourne, Australia
Co-Chair: **Prof. Dr. Dr. Ahmad Safuan A. Rashid**
Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia
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. Dr. 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

Time	Paper ID	Paper Title	Presenting Author
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
14:15–14:30	G00270	COMPARATIVE STUDY OF CEMENT GRAVEL AND SOIL–CEMENT COLUMNS UNDER CYCLIC LOADING	**Mr. Teerawut Pansuwannakun** 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. Dr. 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
15:00–15:15	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

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
Chair: **Professor Dr. Dalal Adnan Maturi**
King Abdulaziz University, Jeddah, Saudi Arabia
Co-Chair: **Assoc. Prof. Dr. Cherdsak Suksiripattanapong**
Rajamangala University of Technology Isan, Thailand
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
15:20–15:35	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
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-	**Mr. Takuto Hongo**

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

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
Chair: **Prof. Dr. Yanning Wang**
College of Engineering, Shantou University, China
Co-Chair: **Assoc. Prof. Dr. Linshuang Zhao**
College of Engineering, Shantou University, China
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. Dr. 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. Dr. 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

Time	Paper ID	Paper Title	Presenting Author
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
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**		

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
Chair: **Dr. Gino Calderon Vizcarra**
Universidad Catolica San Pablo, Peru, Knight Piesold, Australia
Co-Chair: **Assoc. Prof. Dr. Cherdsak Suksiripattanapong**
Rajamangala University of Technology Isan, Thailand
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** 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** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
16:05–16:20	G00141	EVALUATION OF LIQUEFACTION MITIGATION USING SOIL	**Mr. Tomohiro Ichikawa**

Time	Paper ID	Paper Title	Presenting Author
		SQUEEZING TECHNOLOGY (SST) FOR GROUND IMPROVEMENT	Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
16:20–16:35	G00155	COASTAL HIGHWAY SLOPE ASSESSMENT AND REMEDIATION IN RESPONSE TO EXTREME WEATHER IMPACT	**Dr. John Victor Smith** Geoinventions Consulting Services, Australia
16:35–16:50	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
17:50–17:00	**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
Chair: **Prof. Dr. Piti Sukontasukkul**
King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand
Co-Chair: **Assoc. Prof. Dr. Nguyen Thi Tuyet Trinh**
University of Transport and Communications, Vietnam
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. Dr. 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. Dr. 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 PERMEATION GROUTING USING DEM	**Mr. Jemy Chua** Graduate School of Integrative Science and

Time	Paper ID	Paper Title	Presenting Author
			Engineering, Tokyo City University, Japan
14:00–14:15	G00103	REMOVAL OF BORATE FROM AQUEOUS SOLUTION VIA LAYERED DOUBLE HYDROXIDE SYNTHESIS USING BITTERN	**Asst. Prof. Dr. Takaaki Wajima** Graduate School of Engineering, Chiba University, Japan
14:15–14:30	G00209	EXPERIMENTAL 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**		

GEOMATE Society Thailand Chapter

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
Chair: **Assoc. Prof. Dr. Nutthachai Prongmanee**
Faculty of Science and Engineering, Kasetsart University, Thailand
Co-Chair: **Asst. Prof. Dr. Amorndech Noulmanee**
Faculty of Science and Engineering, Kasetsart University, Thailand
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** Graduate School of Engineering and Science,

Time	Paper ID	Paper Title	Presenting Author
			Shibaura Institute of Technology, Japan
16:20–16:35	G00131	FIELD APPLICATION OF NON-WOVEN GEOTEXTILE AND TERRAMESH FOR ROAD EMBANKMENT REPAIR	**Mr. Ratanachai Meeampol** 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** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
16:50–17:05	G00203	UNCONFINED COMPRESSIVE STRENGTH OF SOFT BANGKOK CLAY STABILIZED WITH BAGASSE ASH AND POLYVINYL ALCOHOL FOR LANDFILL LINERS	**Mr. Kriangsak Pruemphonchai** Department of Civil Engineering, Faculty of Engineering and Technology, Thailand
17:05–17:10	**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
Chair: **Prof. Dr. Panich Voottipruex**
King Mongkut's University of Technology North Bangkok, Thailand
Co-Chair: **Assoc. Prof. Dr. Raksiri Sukkarak**
King Mongkut's University of Technology North Bangkok, Thailand
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
08:45–09:00	G00197	CONSOLIDATION BEHAVIOR OF CLAY WITH SURFACE-INSTALLED 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 CROSS-STANDARD GEOTECHNICAL INTERPRETATION	**Ms. Rujira Pholtrai** 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	**Mr. Amorndech Noulmanee** 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
09:30–09:45	G00166	COUPLED FINITE ELEMENT–FINITE DIFFERENCE ANALYSIS OF FLUID FLOW AND VISCO-PLASTIC SOIL DEFORMATION UNDER DYNAMIC LOADING	**Prof. Dr. 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
Chair: **Dr. Sien Ti Kok**
Geoinventions Consulting Services Pty Ltd, Australia
Co-Chair: **Assoc. Prof. Dr. Linshuang Zhao**
College of Engineering, Shantou University, China
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	**Mr. Urtnasan Erdenebaatar** 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	**Mr. Rintarou Doi**

Time	Paper ID	Paper Title	Presenting Author
		DISPLACEMENT AND STRESS STATES	Graduate School of Integrative Science and Engineering, Tokyo City University, Japan
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)**		

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
Chair: **Prof. Dr. Fauzan**
Engineering Faculty, Andalas University, Indonesia
Co-Chair: **Dr. Sachi Furukawa**
Osaka Metropolitan University, Japan
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. Dr. 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. Dr. 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. Dr. 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. Dr. Fauzan** Engineering Faculty, Andalas University, Indonesia

Time	Paper ID	Paper Title	Presenting Author
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
Chair: **Assoc. Prof. Dr. Nutthachai Prongmanee**
Faculty of Science and Engineering, Kasetsart University, Thailand
Co-Chair: **Dr. Srikulnath Nilnoree**
School of Civil Engineering, Suranaree University of Technology, Thailand
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	**Mr. Wai Yan Ko Ko** Faculty of Engineering, Mahidol University, Thailand

Time	Paper ID	Paper Title	Presenting Author
		FOR A 25-STORY RC BUILDING IN BANGKOK	
11:20–11:35	G00176	PREDICTING YIELD AND ULTIMATE TENSILE STRENGTH OF REINFORCING STEEL BARS USING DIAMETER, RELATIVE MASS DEVIATION, AND GRADE-TREATMENT CLASS	**Thawatchai Suppaso** 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. Dr. 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
Chair: **Dr. Sartsin Phakdimek**
School of Geotechnology, Suranaree University of Technology, Thailand
Co-Chair: **Mr. Mark Paulo S.D. Alcala**
Faculty, University of the Philippines, Los Baños, Laguna, Philippines
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. Dr. Dalal Adnan 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. Dr. Dalal Adnan 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** 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** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan

Time	Paper ID	Paper Title	Presenting Author
09:45–10:00	G00183	INFLUENCE OF SEALED STORAGE PERIOD ON PH EVOLUTION DURING AERATION CURING OF CEMENT- AND LIME-STABILIZED EXCAVATED SOILS	**Mr. Kantaro Kojima** Graduate School of Engineering and Science, Shibaura Institute of Technology, Japan
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
Chair: **Prof. Dr. Panich Voottipruex**
King Mongkut's University of Technology North Bangkok, Thailand
Co-Chair: **Assoc. Prof. Dr. Raksiri Sukkarak**
King Mongkut's University of Technology North Bangkok, Thailand
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. Dr. 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

Time	Paper ID	Paper Title	Presenting Author
			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** Department of Civil Engineering, Nagoya Institute of Technology, Japan
11:35–11:50	G00171	THERMAL AND VENTILATION PERFORMANCE OF A GREEN WALL INTEGRATED SOLAR CHIMNEY FOR BUILDING ENVELOPE APPLICATIONS	**Mr. Napath Sakarthornsub** Program in Innovation and Designing for Sustainability, Faculty of Architecture and Design, King Mongkut's University of Technology North Bangkok, Thailand
11:50–12:05	G00169	DEVELOPMENT AND EXPERIMENTAL INVESTIGATION OF A VENTILATED DAYLIGHTING DUCT SYSTEM INTEGRATED INTO OPAQUE BUILDING WALLS	**Mr. Kitti Raiykhuntod** Program in Innovation and Designing for Sustainability, Faculty of Architecture and Design, King Mongkut's University of Technology North Bangkok, Thailand
12:00–13:00	**— Buffet Lunch — (Glass House, 5th floor)**		

E1 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session E1: Geotechnical Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 13:00 - 15:00 / **Room:** Surasak 1
Chair: **Dr. Chutipong Paraphantakul**
Civil Engineer, Senior Professional Level
Co-Chair: **Dr. Avirut Thongsuriyapong**
Civil Engineer, Senior Professional Level
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	**Ms. Koonwalee Pota**

Time	Paper ID	Paper Title	Presenting Author
		EVENT USING CENTRIFUGE MODEL TEST	Faculty of Civil Engineering, Chiang Mai University, Thailand
14:15–14:30	G00115	REGIONAL SLOPE STABILITY ASSESSMENT OF TRANSMISSION TOWERS IN MAE SOT, THAILAND USING TAG-FLOW MODEL	**Ms. Naphatsorn Thipuan** 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
15:00–15:20	**Refreshments (Tea Break) + Sponsor Exhibition**		

GEOMATE Society Thailand Chapter

F1 - DETAILS CONFERENCE PROGRAM & PRESENTATION SCHEDULE

Parallel Session F1: Water Engineering / Environmental Engineering
Venue: Eastin Grand Hotel Sathorn Bangkok, Thailand
Date: 19th November 2026 / **Time:** 15:20 - 17:00 / **Room:** Surasak 1
Chair: **Dr. Chutipong Paraphantakul**
Civil Engineer, Senior Professional Level
Co-Chair: **Dr. Avirut Thongsuriyapong**
Civil Engineer, Senior Professional Level
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 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, 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

Time	Paper ID	Paper Title	Presenting Author
16:05–16:20	G00305	EFFECT OF TWO-LAYER CONFIGURATION ON THE SHEAR STRENGTH OF SOIL REINFORCED WITH BASALT GEOSYNTHETICS	**Mr. Mohamed Eltaher** Graduate School of Bioresources, Mie University, Japan
16:20–16:35	G00179	DEVELOPMENT OF A LOW-COST SOLAR HEATED VENTILATED WALL FOR DOMESTIC HOT WATER AND PASSIVE VENTILATION IN TROPICAL BUILDINGS	**Ms. Praparat Hengsapkool** Program in Innovation and Designing for Sustainability, Faculty of Architecture and Design, King Mongkut's University of Technology North Bangkok, Thailand
16:35–16:50	G00170	EXPERIMENTAL EVALUATION OF A SOLAR CHIMNEY SKYLIGHT ROOF FOR DAYLIGHTING ENHANCEMENT AND PASSIVE THERMAL REDUCTION IN TROPICAL BUILDINGS	**Mr. Kornphavit Kusuporncharoen** Program in Innovation and Designing for Sustainability, Faculty of Architecture and Design, King Mongkut's University of Technology North Bangkok, Thailand
16:50–17:05	G00167	EXPERIMENTAL INVESTIGATION OF A VENTILATED CONCRETE BLOCK WALL FOR PASSIVE COOLING AND NATURAL VENTILATION IN TROPICAL CLIMATE	**Mr. Patcharin Maneera** Program in Innovation and Designing for Sustainability, Faculty of Architecture and Design, King Mongkut's University of Technology North Bangkok, Thailand
17:05–17:10	**Session Wrap-up**		

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
Chair: **Assoc. Prof. Dr. Keeratikan Piriyakul**
King Mongkut's University of Technology North Bangkok, Bangkok, Thailand
Co-Chair: **Assoc. Prof. Dr. Tanakorn Phoo-ngernkham**
Rajamangala University of Technology Isan (RMUTI) in Nakhon Ratchasima, Thailand
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

Time	Paper ID	Paper Title	Presenting Author
13:45–14:00	G00177	COMPETITIVE BIDDING BEHAVIOR IN PUBLIC CONSTRUCTION PROCUREMENT: A CASE STUDY OF LOCAL ADMINISTRATIVE ORGANIZATIONS IN THAILAND	**Ms. Titaporn Pobutdee** Department of Science and Engineering, Faculty of Science and Engineering, Kasetsart University 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. Rupali Sarmah** 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
Chair: **Assoc. Prof. Dr. Keeratikan Piriyakul**
King Mongkut's University of Technology North Bangkok, Bangkok, Thailand
Co-Chair: **Assoc. Prof. Dr. Tanakorn Phoo-ngernkham**
Rajamangala University of Technology Isan (RMUTI) in Nakhon Ratchasima, Thailand
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

Time	Paper ID	Paper Title	Presenting Author
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 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
Chair: **Prof. Dr. Kazunari Tanaka**
Faculty of Engineering, Osaka Institute of Technology, Japan
Co-Chair: **Assoc. Prof. Dr. Nutthachai Prongmanee**
Faculty of Science and Engineering, Kasetsart University, Thailand
Time Zone: Bangkok Time (UTC+7)

Time	Paper ID	Paper Title	Presenting Author
13:00–13:15	G00261	A STUDY ON METHODS FOR ESTABLISHING 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

Time	Paper ID	Paper Title	Presenting Author
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
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	G00265	ANALYSIS OF NON-PURPOSEFUL STOPPING LOCATIONS FOCUSING ON GAZE DIRECTION	**Mr. Ryuga Toda** Graduate School of Engineering, Architecture, Civil Engineering and Urban Design, Osaka Institute of Technology, Japan
14:45–15:00	G00293	GEOSPATIAL MONITORING OF IRRIGATION CANAL PROJECTS USING REMOTE SENSING TECHNIQUES: UPPER PAMPANGA BASIN	**Mr. Mark Paulo S.D. Alcala** Faculty, University of the Philippines, Los Baños, Laguna, Philippines
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:** 15:20 - 17:00 / **Room:** Surasak 3
Chair: **Assoc. Prof. Dr. Nutthachai Prongmanee**
Faculty of Science and Engineering, Kasetsart University, Thailand
Co-Chair: **Asst. Prof. Dr. Amorndech Noulmanee**
Faculty of Science and Engineering, Kasetsart University, Thailand
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	**Mr. Sakeereen Pattani** 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	**Mr. 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. Dr. 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:	**Ms. Siviluck Ladkhamkrung** Graduate Program in Civil Engineering and

Time	Paper ID	Paper Title	Presenting Author
		STRUCTURAL BEHAVIOUR FIELD PERFORMANCE, AND GROUND VIBRATION RESPONSE	Construction Management, Suranaree University of Technology, Thailand
16:20–16:35	G00243	PERFORMANCE OF CO_2-CURED LOW-CARBON PRECAST CONCRETE INCORPORATING RICE HUSK ASH AND STEEL SLAG	**Ms. Kamonchanok Adisorn** 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 - 10:30

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	G00120	FRACTURE PATTERNS IN GRANITE AND GNEISS OF THE HIGH PLAINS OF THE AUSTRALIAN ALPS	**Dr. John Victor Smith** Geoinventions Consulting Services, Australia
09:15–09:30	G00289	COMMUNITY ENGAGEMENT AND FLOOD RISK PERCEPTION LARGE LANGUAGE MODEL	**Mr. Wei-Wei Zhao** College of Engineering, Shantou University, China
09:30–09:45	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

Time	Paper ID	Paper Title	Presenting Author
09:45–10:00	G00235	DEVELOPMENT AND EVALUATION OF A LOCALIZED ASPHALT PAVEMENT TEMPERATURE PREDICTION MODEL FOR PERFORMANCE GRADE BINDER SELECTION IN THAILAND	**Ms. Kanchana Hiranwatthana** Graduate Program in Civil Engineering and Construction Management, Suranaree University of Technology, Thailand
10:00–10:15	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
10:15–10:30	G00239	EVOLUTION OF THE CUMULATIVE RAINFALL–EVENT RAINFALL–DURATION (CED) THRESHOLDS FRAMEWORK	**Prof. Dr. 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. Dr. 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

Time	Paper ID	Paper Title	Presenting Author
09:30–09:45	G00253	CERAMIC SLAG CELLULAR LIGHTWEIGHT WALL PANELS	**Assoc. Prof. Dr. Patimapon Sukmak** Walailak University, Thailand
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. Dr. 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	**Dr. Apinun Buritatum**

Time	Paper ID	Paper Title	Presenting Author
		UNDER SODIUM CHLORIDE EXPOSURE	Program in Civil and Infrastructure Engineering, Suranaree University of Technology, Thailand
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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