SEAGC-AGSSEA CONFERENCE 2026
PROGRAM BOOKLET

Advancing Geotechnics for a Resilient and Sustainable Future:
Mitigating Multi-hazards amidst a Changing Climate

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SEAGC-AGSSEA CONFERENCE 2026

The 22nd Southeast Asian Geotechnical Conference (SEAGC), held jointly with the **5th AGSSEA Conference** and the **3rd PSSMGE National Conference**, will take place on **28–30 January 2026** at **Shangri-La The Fort**, **Bonifacio Global City, Taguig City, Philippines**

The conference program features a two-day technical symposium and a half-day technical site visit. The conference carries the theme "Advancing Geotechnics for a Resilient and Sustainable Future: Mitigating Multi-hazards amidst a Changing Climate." Geotechnical professionals from the region and around the world are invited to connect, exchange knowledge, and build strong professional networks and lasting collaborations.

HOST ORGANIZATIONS:

PHILIPPINE SOCIETY FOR SOIL MECHANICS AND GEOTECHNICAL ENGINEERING (PSSMGE)

PSSMGE is a non-profit organization established in 2017 open to all engineers, academics and contractors involved in geotechnical engineering.

It aims to promote technical advancement and research activities in geotechnical engineering by regularly organizing seminars, workshops, and conferences at both regional and international levels. The organization also encourages its members to publish high-quality research, with the objective of becoming a recognized platform for the dissemination of geotechnical research worldwide.

The organization has been a Member Society of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) since 2018.

INTERNATIONAL SOCIETY FOR SOIL MECHANICS AND GEOTECHNICAL ENGINEERING (ISSMGE)

The ISSMGE is the pre-eminent professional body representing the interests and activities of Engineers, Academics and Contractors all over the world that actively participate in geotechnical engineering. Its origin traces back to 1936 with Karl Terzaghi as the 1st President and Arthur Casagrande as the Secretary.

The aim of the International Society is the promotion of international co-operation amongst engineers and scientists for the advancement and dissemination of knowledge in the field of geotechnics, and its engineering and environmental applications.

SOUTHEAST ASIAN GEOTECHNICAL SOCIETY (SEAGS)

SEAGS is a regional organization focused on fostering collaboration and knowledge exchange in geotechnical engineering across Southeast Asia. It organizes conferences, workshops, and publications to advance geotechnical research, strengthen regional professional networks, and promote engineering solutions suited to Southeast Asian conditions.

WELCOME MESSAGE FROM THE PSSMGE PRESIDENT

As PSSMGE President and the Chair of the Organizing Committee, it is my honor to welcome all of you to the 22nd Southeast Asia Geotechnical Conference (SEAGC) and the 5th Association of Geotechnical Engineering Societies in Southeast Asia (AGSSEA) Conference. To our foreign participants, welcome to the Philippines.

It is a great pleasure to have you join us for these two days—distinguished guests, speakers, partners, and participants from different places and backgrounds, united by a shared interest in Soil Mechanics and Geotechnical Engineering. This conference has been designed to be a space for learning, collaboration, and meaningful exchange of ideas. Highlights of this edition of the SEAGC/AGSSEA Conference will be the 1st Dr. Za-Chieh Moh Honor Lecture, SEAGS/AGSSEA Panel Discussion, and ISSMGE Panel Discussion. Together with this, will be PSSMGE's 1st Emil Morales Memorial Lecture and 6th Dr. Salvador F. Reyes Honor Lecture. Post-conference events include a visit to the construction site of the Metro Manila Subway Project and the Joint Workshop between PSSMGE, CTGS, and KGS.

Over the course of two days, we look forward to insightful discussions, inspiring presentations, and opportunities to connect with experts and peers. We hope this event will spark new ideas, strengthen partnerships, and contribute to positive action beyond this gathering.

Thank you for being part of the 22nd SEAGC and 5th AGSSEA Conference. We wish you a productive, engaging, and enjoyable conference experience.

Again, a warm welcome and, as we say in the Philippines, Mabuhay!

Mark Albert H. Zarco, Ph.D.
President, Philippine Society of Soil Mechanics and Geotechnical Engineers (PSSMGE)

WELCOME MESSAGE FROM THE AGSSEA CHAIRMAN

On behalf of Association of Geotechnical in Southeast Asia, I would like to congratulate to the Philippine Society for Soil Mechanics and Geotechnical Engineering (PSSMGE) for hosting this 22nd Southeast Asian Geotechnical Society (SEAGS) and 5th Association of Geotechnical Societies in Southeast Asia (AGSSEA) Conference 2026. This conference is not just a professional conference, but it is a focal spot of our long-term relationship among nation members in Southeast Asia. The legacy of this conference date back for decades. New research has been shared. Advanced Geotechnical technics has been learned. Just to make our Geotechnical professional is useful to a mankind.

I wish all Geotechnical societies in our region flourish, competing and helping each other for the best and kindness among us all.

Suttisak Soralump, Ph.D.
Chairman, Association of Geotechnical Societies in Southeast Asia (AGSSEA)

WELCOME MESSAGE FROM THE SEAGS PRESIDENT

Dear distinguished guests, respected senior members, honored speakers, colleagues, ladies and gentlemen,

On behalf of the Southeast Asian Geotechnical Society, it is my great honor and pleasure to welcome you to the 22nd Southeast Asian Geotechnical Conference, the 5th AGSSEA Conference, and the 3rd PSSMGE National Conference, here in Manila.

I would like to express our sincere appreciation to the Philippine Society of Soil Mechanics and Geotechnical Engineers for hosting this important event. Organizing a conference of this scale requires tremendous dedication, and we are deeply grateful to the organizing committee, volunteers, sponsors, and partners who made this gathering possible.

SEAGS was founded more than half a century ago with a clear vision: to promote regional cooperation, knowledge exchange, and professional development among geotechnical engineers in Southeast Asia. From the very beginning, our founders believed that by learning from one another, we could all progress more effectively and responsibly.

Over the years, SEAGS has grown into a strong regional platform connecting national societies, universities, industry, and international partners. Through our conferences and activities, we have supported generations of engineers and contributed to safer and more resilient infrastructure across our region.

Today, this mission is more critical than ever. We are facing more challenges. Project issues such as climate change, rapid urbanization, smart Infrastructure, and the application of AI technology in engineering are becoming more complex. In this context, the theme of this conference — Advancing Geotechnics for a Resilient and Sustainable Future: Mitigating Multi-hazards amidst a Changing Climate — is both timely and meaningful.

Over the next few days, you will hear from distinguished speakers and participate in technical sessions, panel discussions, and memorial lectures to share their views and opinions on these issues. But this conference is not only about technical knowledge. It is also about people — about senior engineers sharing their wisdom, young engineers bringing fresh ideas, and all of us building lasting professional connections.

Before I conclude, let me thank all of you for being here, and I wish you all a productive and enjoyable conference.

Kuo-Chieh Chao, Ph.D., P.E.
President and Secretary-General, Southeast Asian Geotechnical Society (SEAGS)

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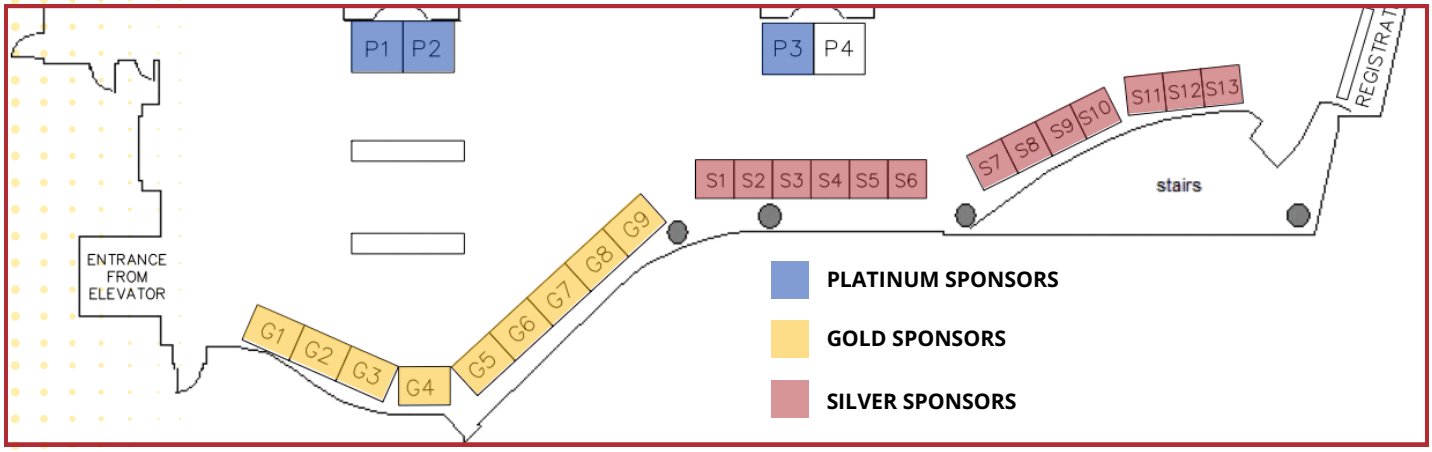

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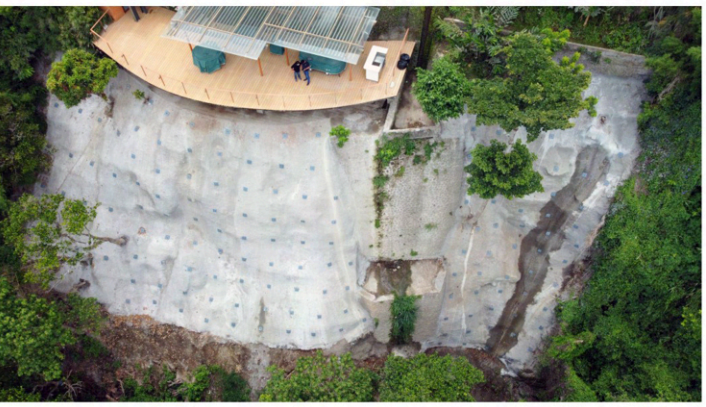

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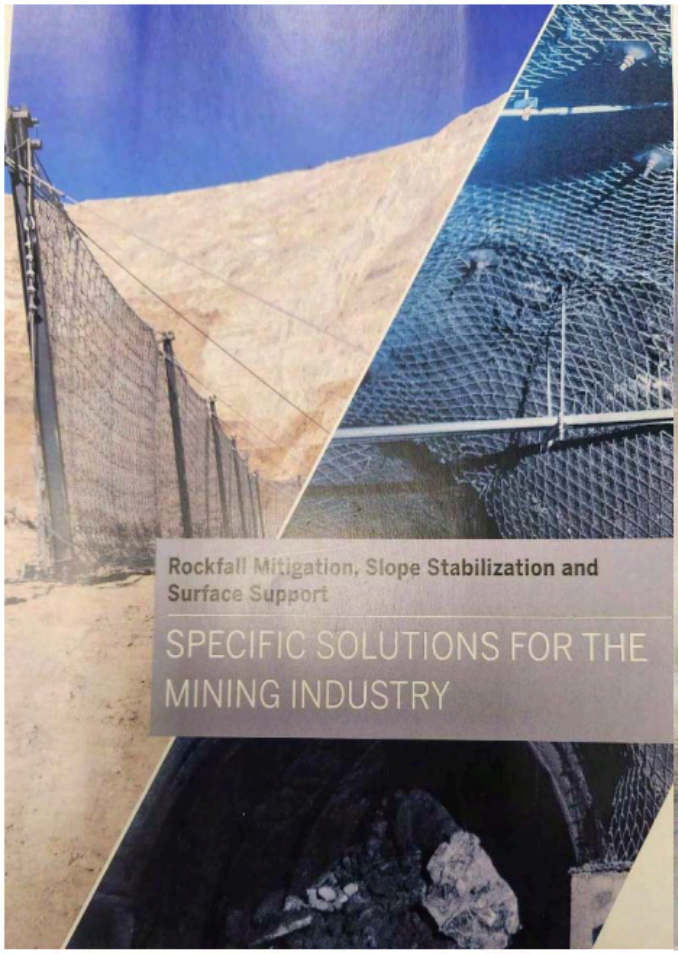

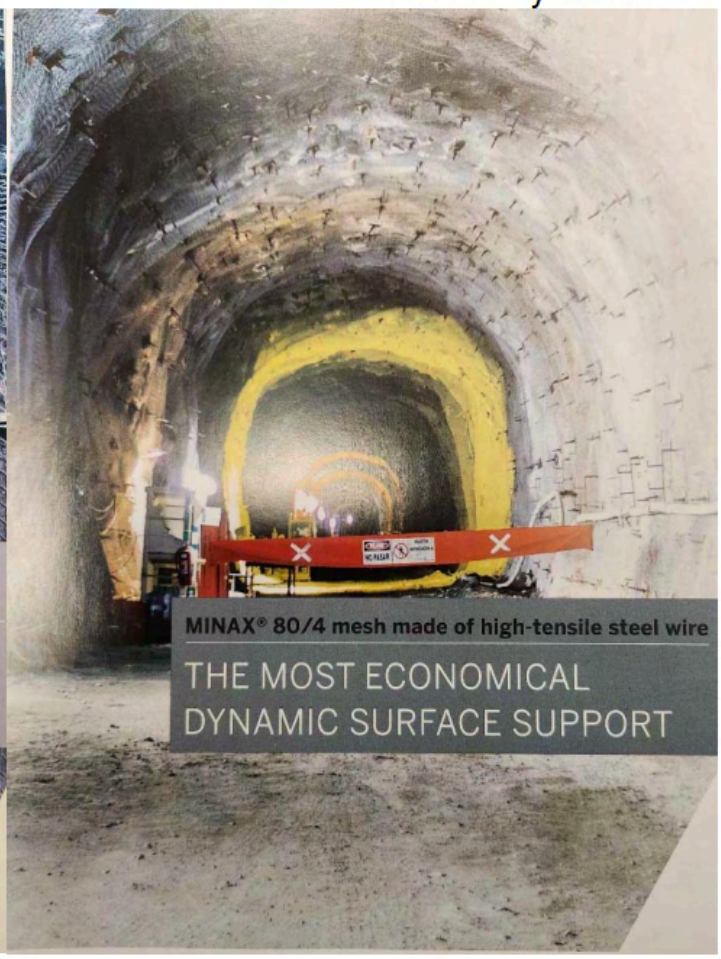

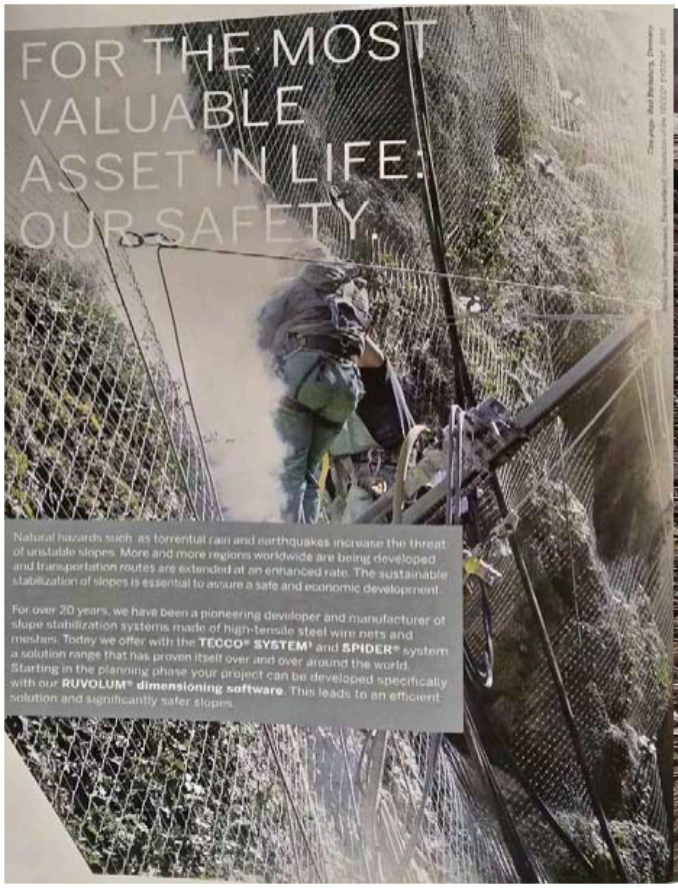

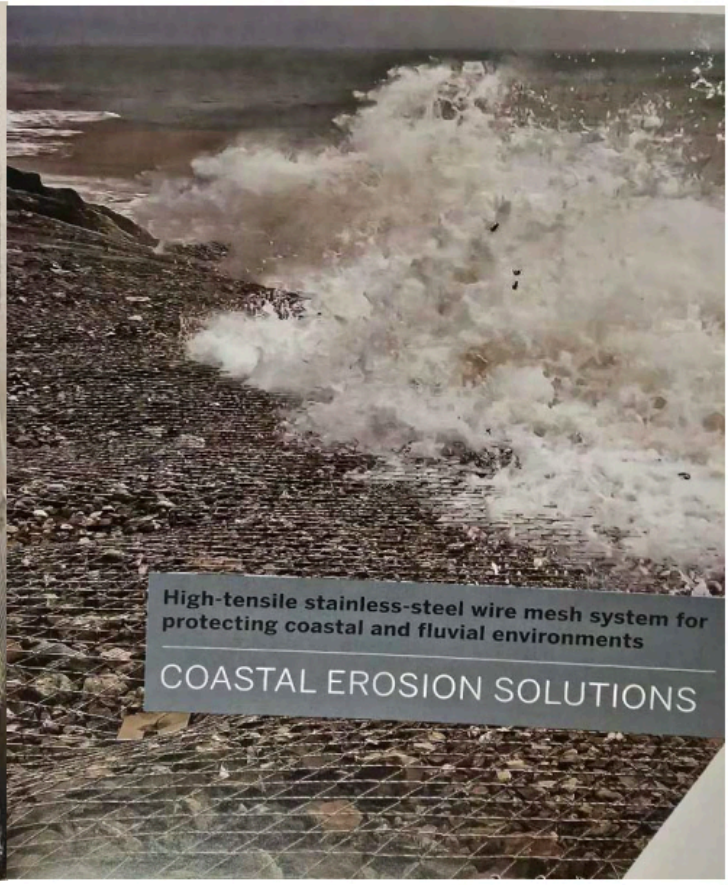

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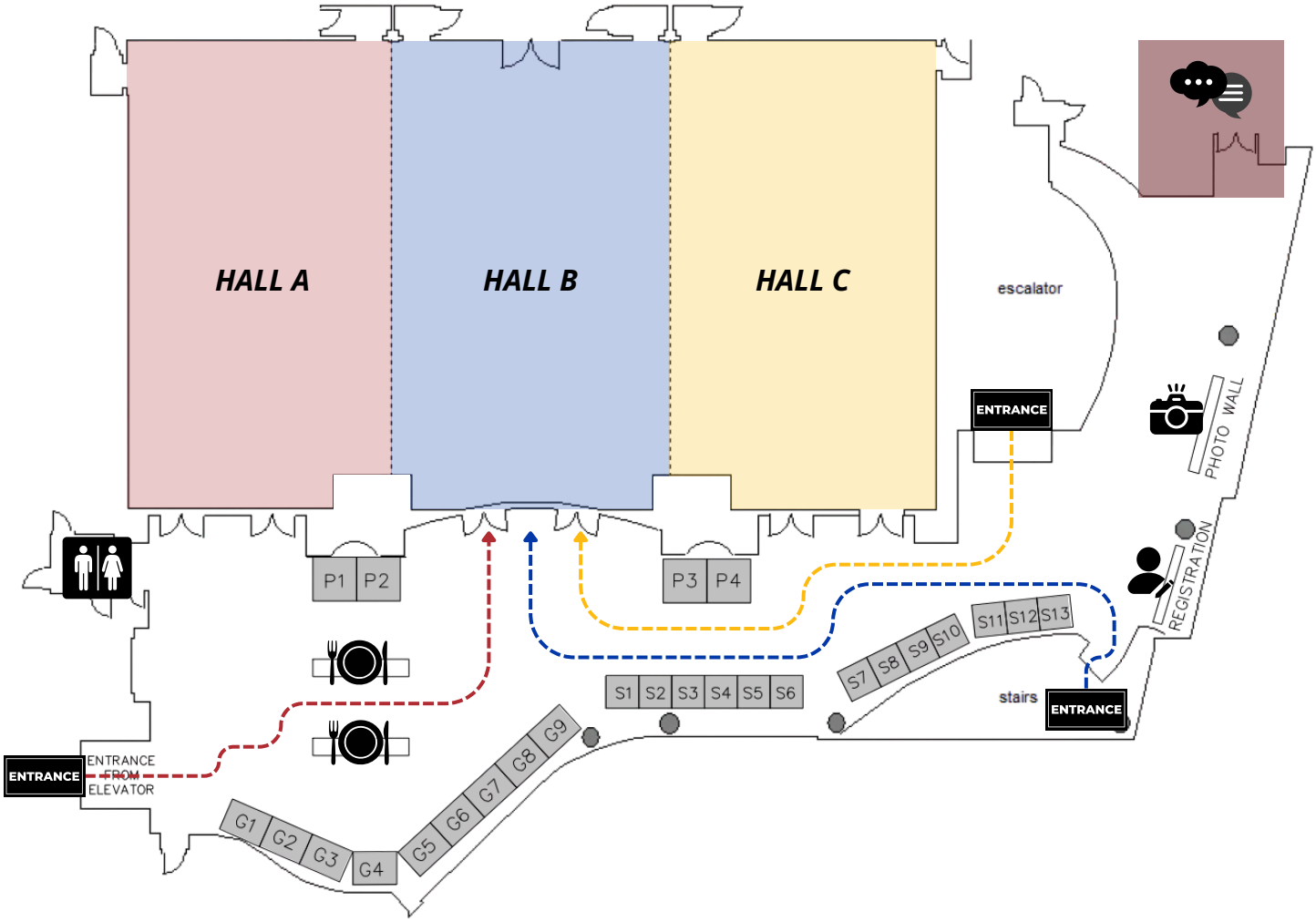
CONFERENCE AND EXHIBIT AREA FLOOR MAP



LEGEND:

- Bonifacio Hall
- Conference Hall A
- Conference Hall B
- Conference Hall C
- Kawayan Room (SEAGS-AGSSEA Council Meeting)
- Exhibitors' Booth
- ENTRANCE — Entrance Option
- Registration / Information
- Photo Wall
- Restroom / Toilet
- Buffet Area

NOTES:

1. *Bonifacio Hall is located at the 4th floor of Shangri-La the Fort. Please note that the venue can be accessed through multiple entrances, including through the elevator, escalator, and stairs.*
2. *Conference Halls A, B, and C form Bonifacio Hall, which is a single large room that will be divided into separate halls using movable partitions.*

THEME 1:

UNDERGROUND STRUCTURES AND GROUND IMPROVEMENT

28 – 29 JANUARY | HALL A

This theme covers the design, construction, and performance of underground structures, including tunnels and deep excavations. It highlights innovative ground improvement methods, soil–structure interaction, and safe, sustainable practices in challenging ground conditions.

THEME 2:

GEOTECHNICAL INVESTIGATION AND SLOPE STABILIZATION

28 JANUARY | HALL B • 29 JANUARY | HALL C

Focus is placed on modern site investigation techniques, field data interpretation, and slope stability analysis. The theme addresses the role of geotechnical investigation and soil characterization for the stabilization of natural and engineered slopes.

THEME 3:

GEO-ENVIRONMENTAL ENGINEERING AND DISASTER MITIGATION

29 JANUARY | HALL B

Topics include sustainable geotechnical solutions, geotechnical hazards and disaster risk monitoring, and application of geotechnical engineering in challenging environments.

THEME 4:

DIGITAL TECHNOLOGIES AND NUMERICAL MODELLING

28 JANUARY | HALL C

This theme highlights the application of numerical modelling and digital tools, including AI, BIM, and advanced monitoring systems, to improve analysis, design, and decision-making in geotechnical engineering.

KEYNOTE SPEAKERS

Dr. Keh-Jian (Albert) Shou
ISSMGE Vice President for Asia

Prof. Ikuo Towhata
Former ISSMGE Vice President for Asia

SPECIAL LECTURE GUEST SPEAKERS

ZA-CHIEH MOH MEMORIAL LECTURE:
Prof. Suttisak Soralump
AGSSEA Chairman

SALVADOR F. REYES HONOR LECTURE:
Prof. Rolando Orense
Professor at University of Auckland

E. M. MORALES MEMORIAL LECTURE:
Dr. Dennes Bergado
Former Secretary-General of SEAGS

PLENARY SPEAKERS

Prof. Askar Zhussupbekov
Kazakhstan Geotechnical Society President

Dr. Anil. Joseph
Indian Geotechnical Society President

Prof. Marolo Alfaro
Professor at University of Manitoba

Prof. Jong-Sub Lee
Korean Geotechnical Society Vice President

Prof. Feng Zhang
Professor at Tongji University

SALVADOR F. REYES HONOR LECTURE

JANUARY 28, 2026 (WEDNESDAY) | 11:00 - 11:30 AM

The **Dr. Salvador F. Reyes Honor Lecture** is a distinguished annual event organized by the **Philippine Society of Soil Mechanics and Geotechnical Engineering (PSSMGE)**. Established in honor of **Dr. Salvador F. Reyes**, a respected pioneer and leader in Philippine geotechnical engineering, the lecture recognizes his lasting contributions to the advancement of soil mechanics, foundation engineering, and professional practice in the country.

Dr. Salvador Reyes

This honor lecture features a **renowned expert in geotechnical engineering or a related field**, invited to deliver an address on emerging developments, significant research findings, or critical challenges facing the profession. The lecture serves as a platform for knowledge exchange, professional inspiration, and reflection on excellence in engineering practice, education, and research.

Through the Dr. Salvador F. Reyes Honor Lecture, PSSMGE reaffirms its commitment to **technical excellence, professional leadership, and the continued development of the geotechnical engineering community** in the Philippines.

ZA-CHIEH MOH MEMORIAL LECTURE

JANUARY 28, 2026 (WEDNESDAY) | 10:30 - 11:00 AM

Prof. Za-Chieh Moh

The **Za Chieh Moh Memorial Lecture** is a special lecture organized to honor the life and professional legacy of **Professor Za Chieh Moh**, an internationally respected geotechnical engineer and a **founding leader of the Southeast Asian Geotechnical Society (SEAGS)**, whose contributions significantly shaped the development of geotechnical engineering in the region.

Modeled after the Dr. Salvador F. Reyes Honor Lecture, it features a **distinguished expert in geotechnical engineering or related fields** who shares insights on advanced research, innovative engineering practice, or emerging challenges in the profession, reflecting PSSMGE's commitment to **technical excellence and regional and global knowledge exchange.**

E. M. MORALES MEMORIAL LECTURE

JANUARY 29, 2026 (THURSDAY) | 01:10 - 01:40 PM

The **E. M. Morales Memorial Lecture** is a commemorative lecture organized in honor of **Engr. Emil Morales**, whose life and work exemplified dedication, integrity, and service to the geotechnical engineering profession. Remembered for his commitment to sound engineering practice, mentorship, and the quiet advancement of professional excellence, Engr. Morales made a meaningful and lasting contribution to the Philippine geotechnical community.

Engr. Emil Morales

The memorial lecture serves as a tribute to his legacy, featuring a **distinguished expert in geotechnical engineering or related fields** whose presentation encourages reflection, learning, and the continued pursuit of excellence in the spirit of Engr. Morales' professional values.

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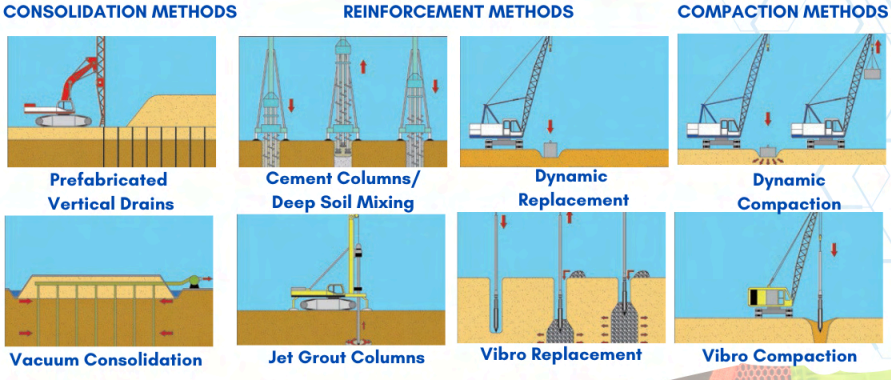

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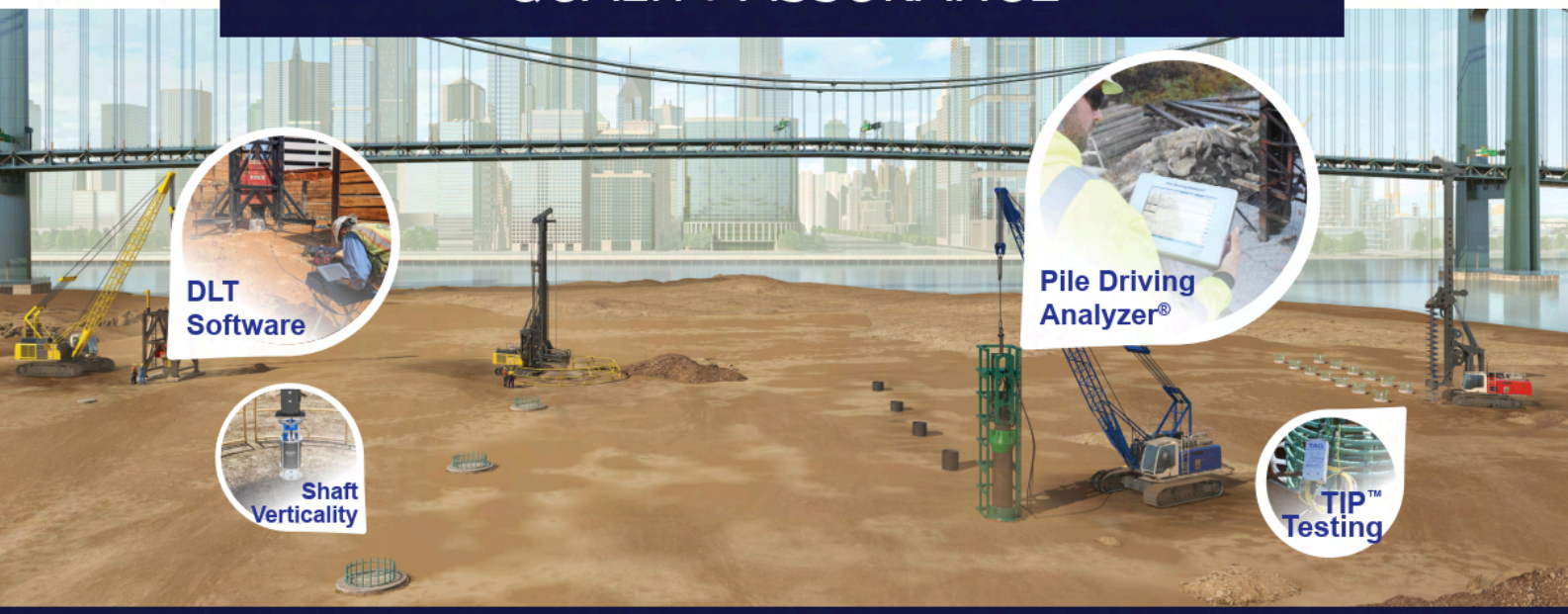

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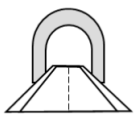
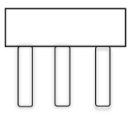


TUNNELING AND MINING

Analyze each phase of tunnel construction including the excavation and installation of supports.



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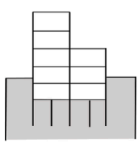
EXCAVATIONS AND OPEN PIT

Analyze each stage of the excavation sequence along with the permanent and temporary structures

SLOPE STABILITY

Perform 3D finite element analysis of slopes to generate more accurate and efficient results



SOIL-STRUCTURE INTERACTION

Consider the different soil behavior factors influencing the structures' response

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Earthquake Engineering
Seismic Hazard Analysis | Nonlinear Site Response Analysis | Seismic Velocity Logging Test

Structural Engineering
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Geotechnical Engineering
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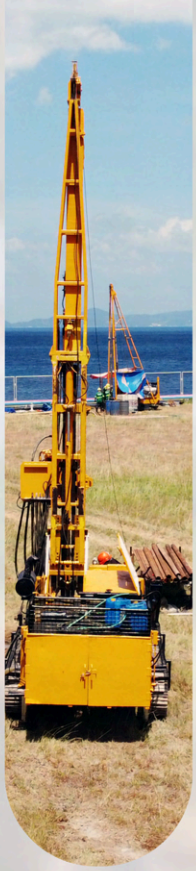
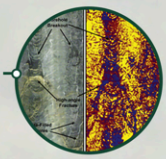


Onshore & OffshoreDrilling

Cone Penetration Test



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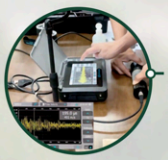
PS Suspension Logging



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High-strain Dynamic Pile Load Test

Low-strain Dynamic Pile Integrity Testing

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PSSMGE

PHILIPPINE SOCIETY FOR SOIL MECHANICS AND GEOTECHNICAL ENGINEERING

A non-profit organization established in 2017 open to all engineers, academics and contractors involved in geotechnical engineering aimed at the advancement of knowledge in the field of geotechnics and its engineering applications, at the local or international level.

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GENERAL PROGRAM: DAY 1
JANUARY 28, 2026 (WEDNESDAY)

TIME	ACTIVITY		
	BONIFACIO HALL FOYER		
08:00 – 08:30 AM	**REGISTRATION**		
	BONIFACIO HALL		
08:30 – 09:30 AM	**OPENING CEREMONY:** **WELCOME REMARKS FROM THE HOST ORGANIZATIONS** Prof. Mark Albert Zarco, *PSSMGE President* Prof. Kuo Chieh Chao, *SEAGS President and Secretary-General* Prof. Suttisak Soralump, *AGSSEA Chairman* Prof. Maria Antonia Tanchuling, *Dean of UP Diliman College of Engineering* **OPENING KEYNOTE ADDRESS** Dr. Teresito Bacolcol, *DOST-PHIVOLCS Director* **MESSAGE FROM THE ISSMGE** Dr. Marc Ballouz, *ISSMGE President*		
09:30 – 09:50 AM	**KEYNOTE LECTURE** **On the Advances of Trenchless Technologies for Underground Infrastructures** Dr. Keh-Jian (Albert) Shou, *ISSMGE Vice President for Asia*		
09:50 – 10:10 AM	**KEYNOTE LECTURE** **Report from Damage Reconnaissance after the 2025 Mandalay Earthquake in Myanmar** Prof. Ikuo Towhata, *Former ISSMGE Vice President for Asia*		
10:10 – 10:30 AM	**COFFEE BREAK**		
10:30 – 11:00 AM	**ZA-CHIEH MOH MEMORIAL LECTURE** **Risk and Uncertainty Analysis of Unusual Geotechnical-related Failure** Prof. Suttisak Soralump, *AGSSEA Chairman*		
11:00 – 11:30 AM	**SALVADOR F. REYES HONOR LECTURE** **Geotechnical Engineering in New Zealand's Geologically Challenging Environment** Prof. Rolando Orense, *Professor at the University of Auckland*		
11:30 – 11:50 AM	**PLENARY LECTURE** **Research on Soil-Water Coupling Deformation Behavior of Piled Raft Foundation Built in Unsaturated Ground Subjected to Vertical Vibration Load** Prof. Feng Zhang, *Professor at Tongji University*		
11:50 AM – 12:50 PM	**LUNCH**		
12:50 – 01:10 PM	**PLENARY LECTURE** **The Experience with the Vibration Monitoring Method for Driving Piles in an Existing Building on Pavlodar City and GIS of Kazakhstan** Prof. Askar Zhussupbekov, *Kazakhstan Geotechnical Society President*		
01:10 – 01:30 PM	**PLENARY LECTURE** **Building Resilience in Geotechnics: Case Studies and Insights from the Field** Prof. Anil Joseph, *Indian Geotechnical Society President*		
01:30 – 01:50 PM	**PLENARY LECTURE** **Creep-Induced Delayed Instability of Earthfill Dams** Prof. Marolo Alfaro, *Professor at the University of Manitoba*		
01:50 – 02:10 PM	**COFFEE BREAK**		
	CONFERENCE HALL A	***CONFERENCE HALL B***	***CONFERENCE HALL C***
02:10 – 04:30 PM	**PARALLEL SESSION 1:** Underground Structures and Ground Improvement	**PARALLEL SESSION 1:** Geotechnical Investigation and Slope Stabilization	**PARALLEL SESSION 1:** Digital Technologies and Numerical Modelling
	KAWAYAN ROOM		
04:00 – 06:00 PM	**SEAGS-AGSSEA Council Meeting**		

GENERAL PROGRAM: DAY 2
JANUARY 29, 2026

TIME	ACTIVITY		
	BONIFACIO HALL FOYER		
08:00 – 08:30 AM	REGISTRATION		
	CONFERENCE HALL A	**CONFERENCE HALL B**	**CONFERENCE HALL C**
08:30 – 10:00 AM	PARALLEL SESSION 2: Underground Structures and Ground Improvement	PARALLEL SESSION 2: Geo-Environmental Engineering and Disaster Mitigation	PARALLEL SESSION 2: Geotechnical Investigation and Slope Stabilization
10:00 – 10:20 AM	COFFEE BREAK		
10:20 – 11:50 AM	PARALLEL SESSION 3: Underground Structures and Ground Improvement	PARALLEL SESSION 3: Geo-Environmental Engineering and Disaster Mitigation	PARALLEL SESSION 3: Geotechnical Investigation and Slope Stabilization
11:50 AM – 12:50 PM	LUNCH		
	BONIFACIO HALL		
12:50 – 01:10 PM	PLENARY LECTURE **Void Ratio Estimation of Iron Mine Tailings Dam using Elastic Waves** Prof. Jong-Sub Lee, *Korean Geotechnical Society Vice President*		
01:10 – 01:40 PM	E. M. MORALES MEMORIAL LECTURE Dr. Dennes Bergado, *Former Secretary-General of SEAGS*		
01:40 – 02:40 PM	SEAGC-AGSSEA PANEL DISCUSSION **Towards the Advancement of Geotechnical Engineering Practice**		
02:40 – 03:00 PM	COFFEE BREAK		
03:00 – 04:00 PM	ISSMGE PANEL DISCUSSION **Foundations of the Future: Vision for ISSMGE**		
04:00 – 04:30 PM	CLOSING CEREMONY: **ANNOUNCEMENT OF NEXT CONFERENCE AND NEW AGSSEA CHAIR** **CLOSING REMARKS** Prof. Kuo Chieh Chao, *SEAGS President and Secretary-General* Prof. Suttisak Soralump, *AGSSEA Chairman* Engr. Roy Anthony Luna, *PSSMGE Vice President*		
04:30 – 07:00 PM	FREE TIME		
07:00 – 07:30 PM	COCKTAILS AND NETWORKING		
07:30 – 10:00 PM	CONFERENCE DINNER		

CONFERENCE DINNER

Cocktails and Networking: 07:00 – 07:30 PM | **Dinner Program:** 07:30 – 10:00 PM
Venue: Bonifacio Hall, Shangri-La the Fort

The Conference Dinner is a formal, ticketed event offering delegates and invited speakers an opportunity to network in an elegant setting. The evening will begin with a cocktails and networking session at 07:00 PM, followed by dinner service, accompanied by cultural performances and live music.

Dress code: *Business formal attire is recommended.*

Admission Policy: *Ticket is required for entry.*

GENERAL PROGRAM: DAY 3
JANUARY 30, 2026 (FRIDAY)

TIME	ACTIVITY
	SHANGRI-LA THE FORT LOBBY
08:00 – 08:30 AM	**ASSEMBLY AND REGISTRATION**
08:30 – 09:30 AM	**TRAVEL TIME**
	METRO MANILA SUBWAY PROJECT (MMSP)
09:30 – 11:00 AM	**TECHNICAL TOUR** **Contract Package (CP) 101 Site - North Avenue Station** Implemented by the Department of Transportation (DOTr) In coordination with Shimizu-Fujita-Takenaka-EEI Joint Venture (SFTE-JV) **Contract Package (CP) 103 Site - Camp General Emilio Aguinaldo Station** Implemented by the Department of Transportation (DOTr) In coordination with Sumitomo Mitsui Construction Company (SMCC)
11:00 – 11:15 AM	**ASSEMBLY FOR DEPARTURE**
11:15 AM – 12:15 PM	**TRAVEL TIME**

METRO MANILA SUBWAY PROJECT (MMSP)

Philippines' first underground rapid transit system, designed to transform mobility across Metro Manila. The fully underground line will span **~33 km**, running from **Valenzuela City to Parañaque City**, with a spur to **NAIA Terminal 3**.

- **17 stations** and **1 depot**
- Travel time cut to **~35–45 minutes end-to-end**
- Capacity of **500,000+ passengers per day**
- Funded through **Official Development Assistance (ODA)** from the **Japan International Cooperation Agency (JICA)**, delivered by Filipino–Japanese joint ventures

CONTRACT PACKAGE (CP) 101: NORTH AVENUE STATION

CP101 represents the opening civil works segment of the Metro Manila Subway and is critical to establishing the project's northern infrastructure.

Location: Valenzuela City – Quezon City

Scope Length: ~7.3 km

Scope of Works:

- Construction of the **central depot and operations facilities** in Valenzuela City
- Three (3) underground stations: **Quirino Highway, Tandang Sora, and North Avenue**
- **Twin bored tunnels** connecting the stations and depot. **TBMs and shield tunneling methods** are used for excavation and tunneling works.

CONTRACT PACKAGE (CP) 103: CAMP GENERAL EMILIO AGUINALDO STATION

CP103 expands the subway through central Quezon City, connecting major urban corridors and supporting seamless integration with other transport modes.

Location: Quezon City

Scope Length: ~6.6 km

Scope of Works:

- Construction of **associated tunnels and underground structures** between qualifying segments of the mainline.
- Two (2) underground stations: **Anonas** and **Camp Aguinaldo (Katipunan)**
- Tunneling works integrating both **Tunnel Boring Machine (TBM) excavation** and the **New Austrian Tunnelling Method (NATM)** where required

Once operational, the MMSP will significantly reduce congestion, improve connectivity, and strengthen Metro Manila's integrated transport network.

PARALLEL SESSIONS 1
DAY 1 (HALL A & B)

PARALLEL SESSION 1 / CONFERENCE HALL A:
UNDERGROUND STRUCTURES AND GROUND IMPROVEMENT

CHAIRMAN: Dr. Anil Joseph	*CO-CHAIRMAN: Engr. Brian Tan*

TIME	PRESENTATION
02:10 - 02:20 PM	**TAM GROUTING PREVENT UPLIFT FOR DEEP EXCAVATION OF MRTA PURPLE LINE PROJECT** *Morris I-Min Wang, Kuo Chieh Chao, Shih Hao Cheng, Ricky K. N. Wong, Prakin Arunotong, Satit Plengsuriyarasamee*
02:20 - 02:30 PM	**MECHANICAL PERFORMANCE OF WATER HYACINTH FIBER GEONETS FOR SUSTAINABLE SUBGRADE REINFORCEMENT** *Mary Ann Adajar, Patricia Gwenn Ang, Judith Dungca, Julia Dominic Espinola, Nicole Gabrielle Tan*
02:30 - 02:40 PM	**EVALUATION OF GROUND IMPROVEMENT METHODS FOR CHALLENGING LOOSE, FINE-GRAINED SANDS IN HIGH WATER TABLE ENVIRONMENTS** *Diandri Fakhri Alditra, Suttisak Soralump, Susit Chaiprakaikeow, Suriyon Prempramote*
02:40 - 02:50 PM	**ASSESSMENT OF THE NATURAL FREQUENCY OF A MONOPILE-SUPPORTED OFFSHORE WIND TURBINE SYSTEM CONSIDERING GEOLOGICAL UNCERTAINTY** *Ya-Han Hsu, Louis Ge, Jin-Hung Hwang*
02:50 - 03:00 PM	**SEISMIC ANALYSES OF A GRID-SHAPED SOIL IMPROVEMENT FOUNDATION (TNF) SUPPORTED BY WOODEN PILES** *Han Vo-Cong, Kinji Takeuchi, Chuong Le-Duc-Duy, Yasuo Tomono, Tatsunori Matsumoto*
03:00 - 03:10 PM	**COMPARATIVE ANALYSIS OF PILE LOAD TESTING METHODS FOR LOAD-DISPLACEMENT CHARACTERIZATION** *Oh Yong Ping, Jon Sinnreich, Mohd Ashraf Mohamad Ismail, Ooi Poh Hai, Claire Oh, Toh Chin Wei*
03:10 - 03:20 PM	**COMBINED USE OF CONVENTIONAL RAMMED AGGREGATE PIERS AND RIGID INCLUSIONS FOR A MOUNDED TANK BULLET FARM** *Allen N. Atienza, Ted Kim Michael Q. Pagdonsolan, Aidam Luiz C. Cayanan, Rajiv Eldon E. Abdullah, Mark K. Morales*
03:20 - 03:30 PM	**BEHAVIOR OF VERY LONG BORED PILES IN BANGKOK SOIL** *Siam Aunmongkonmit, Thayanan Boonyarak, Zaw Zaw Aye, Aye Yadana Aung*
03:30 - 03:40 PM	**NUMERICAL SIMULATION FOR DIGITAL TWIN SYSTEM OF ARTIFICIAL GROUND FREEZING IN BANGKOK TUNNEL RESTORATION** *Jie Zhou, Chengjun Liu, Chao Ban, Zeyao Li, Xinmin Shang, Zhenming Shi*
03:40 - 03:50 PM	**Question and Answer**

PARALLEL SESSION 1 / CONFERENCE HALL B:
GEOTECHNICAL INVESTIGATION AND SLOPE STABILIZATION

CHAIRMAN: Dr. Feng Zhang	*CO-CHAIRMAN: Prof. Alexis Acacio*

TIME	PRESENTATION
02:10 - 02:20 PM	**DEVELOPING LOW-CARBON BINDERS FOR RESILIENT GEOTECHNICS: SUSTAINABLE USE OF CALCINED BENTONITE SLURRY** *Siau Chen Chian, Yue Ying Fu*
02:20 - 02:30 PM	**HYBRID SOLUTIONS: MECHANICALLY STABILIZED EARTH (MSE) WALLS AND SLOPES SUPPORTED BY IMPROVED GROUND** *Mark K. Morales, M.Sc., Emilio M. Morales*
02:30 - 02:40 PM	**NUMERICAL SIMULATION OF SOIL ARCHING IN TRAPDOOR TESTS** *Ying-Hsuan Chen, Der-Wen Chang, Louis Ge, and Yu-Wei Hwang*
02:40 - 02:50 PM	**RAINFALL-INDUCED SLOPE STABILITY ASSESSMENT VIA NUMERICAL ANALYSIS OF VARIABLE RAINFALL PATTERNS** *Ratchadakorn Chumkhiao, Shinya Inazumi*
02:50 - 03:00 PM	**EFFECTS OF REPETITIVE LOADING ON SMALL-TO-LARGE STRAIN RESPONSE OF MARINE SEDIMENTS** *Jinwook Kim, Jongchan Kim, Dong Geon Son, Jong-Sub Lee*
03:00 - 03:10 PM	**PERFORMANCE OF CHAIRED EARTH RETAINING AND STABILIZING STRUCTURE SYSTEM** *P. H. Lim, J. J. Loo*
03:10 - 03:20 PM	**TENSILE STRENGTH CHARACTERISTICS OF THE VETIVER ROOT IN TROPICAL AREAS** *Agus Setyo Muntohar, Rahmat Nurcahyo, Desi Prasiska, Lis Noer Aini*

TIME	PRESENTATION
03:20 - 03:30 PM	**EFFECT OF DRYING METHOD ON THE SOIL WATER CHARACTERISTIC CURVE OF EXPANSIVE SOIL** *Fathiyah Hakim Sagitaningrum, Abdul Halim Hamdany, Okinawa Surya*
03:30 - 03:40 PM	**NUMERICAL SIMULATION OF IN SITU DIRECT SHEAR TEST USING DISCRETE ELEMENT METHOD: EFFECTS OF GRAVEL PARTICLE ROTATION ANGLES** *Pei-Yun Shu, Tai-Tien Wang*
03:40 - 03:50 PM	**A HYDRAULIC CONDUCTIVITY-GUIDED APPROACH TO STRAIN RATES SELECTIONS FOR CONSTANT RATE OF STRAIN CONSOLIDATION TESTS** *Yu-Chiao Wang, Shih-Hao Cheng, Kuo-Chieh Chao, Ricky K.N. Wong, Louis Ge*
03:50 - 04:00 PM	**COMPACTION MANAGEMENT USING THE EMBEDDED ELASTIC WAVE MEASUREMENT SYSTEM** *Younggeun Yoo, Junghee Park, Dong-Ju Kim, Jong-Sub Lee*
04:00 - 04:10 PM	**A LABORATORY SANDBOX INVESTIGATION OF SUBSOIL CORROSIVITY DUE TO STEEL PILE CORROSION USING 3D ELECTRICAL RESISTIVITY IMAGING** *A. Puttiwongrak, Y. Chunhakamolrat, and T. Suteerasak*
04:10 - 04:20 PM	**Question and Answer**

PARALLEL SESSION 1 / CONFERENCE HALL C:

DIGITAL TECHNOLOGIES AND NUMERICAL MODELLING

CHAIRMAN: Prof. Marolo Alfaro	***CO-CHAIRMAN: Dr. Jonathan Dungca***

TIME	PRESENTATION
02:10 - 02:20 PM	**USE OF A HIERARCHICAL BAYESIAN ENSEMBLE FRAMEWORK FOR PREDICTING DEEP EXCAVATION PERFORMANCE** *Ari Surya Abdi, Jianye Ching*
02:20 - 02:30 PM	**SOCKET ROUGHNESS MEASUREMENT DEVICE USING ULTRASONIC WAVE REFLECTION IMAGING** *Junho Kim, Min-Chul Park, Younghoon Lee, Jong-Sub Lee*
02:30 - 02:40 PM	**DISCRETE ELEMENT MODELLING OF SLOPE MOVEMENTS AND SURFACE RUNOFF OF AN EARTH FILL DAM** *Joash Bryan Adajar, Marolo Alfaro*
02:40 - 02:50 PM	**APPLICATION OF POROELASTICITY THEORY IN SEEPAGE AND SETTLEMENT ANALYSIS OF EARTHFILL DAMS: NUMERICAL SIMULATION AND FIELD INVESTIGATION** *Ekkapong Nanudorn, Suttisak Soralump, Suriyon Prempramote*
02:50 - 03:00 PM	**ENHANCE CONVERGENCE MONITORING IN NATM CONSTRUCTION BY COMPUTERVISION** *Anurak Puengrostham, Suttisak Soralump*
03:00 - 03:10 PM	**A METHOD FOR DELINEATING DEEP-SEATED LANDSLIDE ZONES BASED ON SURFACE DEFORMATION RATES** *Kuo-Lung Wang, Jun-Tin Lin*
03:10 - 03:20 PM	**COMPARATIVE STUDY OF DIAPHRAGM WALL DEFLECTION IN SOFT CLAY USING FEM, DATABASE AND FIELD DATA** *Zaw Zaw Aye, Aye Yadana Aung, Thayanan Boonyarak, Viroon Kamchoom*
03:20 - 03:30 PM	**BRIDGING THE GAP BETWEEN FIELD AND LABORATORY WORKFLOWS: ENHANCING SUBSURFACE CONFIDENCE THROUGH CONNECTED DIGITAL PLATFORMS** *Earl Arnoco, David Adcock*
03:30 - 03:40 PM	**APPLICATION OF UNSUPERVISED MACHINE LEARNING TO SHIELD MACHINE OPERATING PARAMETERS TO PREDICT CUTTER WEAR STATES** *Hesbon Moriasi Okari, Bin-Chen Benson Hsiung, Yi Sian He, Rex Teng*
03:40 - 03:50 PM	**NON-INVASIVE SOIL MOISTURE CHARACTERIZATION USING MACHINE LEARNING AND COLOR SPACE ANALYSIS: ADVANCING GEOTECHNICAL MONITORING TECHNOLOGIES** *Kai Wang, Yu Cheng Lien*
03:50 - 04:00 PM	**INVESTIGATION ON WALL DISPLACEMENT OF STRUT-FREE EXCAVATION SYSTEM WITH BUTTRESS WALLS IN SANDY SOILS USING FINITE ELEMENT AND SPRING-BEAM ELEMENT METHOD** *Muhammad Dwiyanto Agung Prakasa, Ari Surya Abdi, Zi-Yu Guo, Benson Bin-Chen Hsiung*
04:00 - 04:10 PM	**COMPARATIVE STUDY OF MACHINE LEARNING AND REGRESSION MODELS FOR PREDICTING INTERNAL EROSION IN SOILS** *Ahmed Khalil, Mousa Attom, Rami Hawileh, Mohammad Yamin, Hiba Faisal*
04:10 - 04:20 PM	**Question and Answer**

PARALLEL SESSIONS 2
DAY 2 (HALL A & B)

PARALLEL SESSION 2 / CONFERENCE HALL A:
UNDERGROUND STRUCTURES AND GROUND IMPROVEMENT

CHAIRMAN: Prof. Widjojo Prakoso	*CO-CHAIRMAN: Engr. Jose Carlo Eric Santos*

TIME	PRESENTATION
08:30 - 08:40 AM	**APPLICATIONS OF SOIL NAILINGS AND ANTI-SLIDE PILES FOR THE EXCAVATION WORKS FOR THE RISE OF MONTERRAZAS DE CEBU PROJECT, PHILIPPINES** *Allan E. Botuyan*
08:40 - 08:50 AM	**IMPACT ASSESSMENT OF SHIELD TUNNEL CROSSING BENEATH AN EXISTING METRO TUNNEL** *S.Z. Kyaw, F. Rochili, Y.Y. Liu, C. R. Chou, S.R. Wang, S.E. Huang, S.E. Huang, C.C. Chao*
08:50 - 09:00 AM	**UNDERSTANDING THE GUADALUPE TUFF FORMATION: IMPLICATIONS FOR THE PHILIPPINES' FIRST UNDERGROUND TRANSIT SYSTEM** *Roy Anthony C. Luna, Elaine Marie Z. Peña, Patrick Adrian Y. Selda*
09:00 - 09:10 AM	**EXPERIMENTAL STUDY ON EVALUATION OF DAMPING RATIO OF DRY SAND REINFORCED WITH GEOFOAM-A RESONANT COLUMN STUDY** *Sandyapogu Peddaiah, Jyant Kumar*
09:10 - 09:20 AM	**INSTRUMENTATION AND SETTLEMENT ANALYSIS OF PVD-IMPROVED SOFT CLAY USING THE ASAOKA METHOD: A CASE STUDY** *Anna G. Bilaro, Mark K. Morales, Darren James D. Docdocil*
09:20 - 09:30 AM	**GEOTECHNICAL CHALLENGES IN DEEP EXCAVATIONS NEAR MAJOR INFRASTRUCTURE: TAIPEI METRO CIRCULAR LINE** *Watchirawit Laopongcharoen, Tseng Hsiao-Chin, Qiu Chen-You, Huang Yi-Chao*
09:30 - 09:40 AM	**INTERACTIONS OF ADJACENT, INDEPENDENT PILE GROUPS IN SOFT SOILS** *Muhammad Janitramahanyana, Widjojo A. Prakoso*
09:40 - 09:50 PM	**Question and Answer**

PARALLEL SESSION 2 / CONFERENCE HALL B:
GEO-ENVIRONMENTAL ENGINEERING AND DISASTER MITIGATION

CHAIRMAN: Dr. Keh-Jian "Albert" Shou	*CO-CHAIRMAN: Prof. Mark Albert Zarco*

TIME	PRESENTATION
08:30 - 08:40 AM	**THE INFLUENCES OF INPUT GROUND MOTIONS ON GROUND DISPLACEMENTS** *Der-Wen Chang, Yi Chen, Shih-Hao Cheng, Louis Ge, Askar Zhussupbekov*
08:40 - 08:50 AM	**A COMPARATIVE STUDY ON LIQUEFACTION: SIMPLIFIED VS NONLINEAR SIMULATION OF SITE RESPONSE** *Patrick Adrian Y. Selda, Francis Jenner T. Bernales, Enrico Luis M. Abcede, Roy Anthony C. Luna*
08:50 - 09:00 AM	**IMPACT OF RAINFALL INTENSITY CLASSIFICATION ON LANDSLIDE HAZARD ASSESSMENT** *Terdkiad Nontapot, Kuo Chieh Chao, Suttisak Soralump, Shinya Inazumi*
09:00 - 09:10 AM	**DYNAMIC CENTRIFUGE MODEL TESTS ON SEISMIC RESISTANCE OF DETERIORATED DRY-STONE MASONRY RETAINING WALL** *Kentaro Uemura, Sokkheang Sreng Suzuki, Takeshi Nomura, Masatake Tsuda*
09:10 - 09:20 AM	**DYNAMIC CENTRIFUGE MODEL TESTS CONSIDERING COMPLEX DISASTERS CAUSED BY EARTHQUAKES AND HEAVY RAINS ON IRRIGATION DAMS** *Kentaro Fukuda, Sokkheang Sreng Suzuki, Tatsuki Ito, Takeshi Nomura*
09:20 - 09:30 AM	**T-BAGS SYSTEM: A LOW-COST BASE ISOLATION AND VIBRATION CONTROL SYSTEM USING STACKED LAYERS OF SANDBAGS** *Joshua Panganiban, Ali Vakilazadsarabi, Kinji Takeuchi, Yasuo Tomono, Tatsunori Matsumoto*
09:30 - 09:40 AM	**ANALYZING THE IMPACT OF CLIMATE-INDUCED RAINFALL EXTREMES ON SLOPE STABILITY: A CASE STUDY OF TYPHOON KRISTINE'S EFFECT ON A SLOPE IN MATABUNGKAY, BATANGAS** *Christian G. Seso*
09:40 - 09:50 AM	**PERFORMANCE AND APPLICATION OF GEOSYNTHETICS IN RESILIENT LAND DEVELOPMENT STRUCTURES** *John Michael Gargullo*
09:50 - 10:00 AM	**Question and Answer**

PARALLEL SESSION 2 / CONFERENCE HALL C:

GEOTECHNICAL INVESTIGATION AND SLOPE STABILIZATION

CHAIRMAN: Prof. Meng-Chia Weng	*CO-CHAIRMAN: Dr. Mary Ann Adajar*

TIME	PRESENTATION
08:30 - 08:40 AM	**IMPLEMENTING A NOVEL APPROACH FOR THE REHABILITATION OF A SCOUR-AFFECTED SLOPE ADJACENT TO A BRIDGE ABUTMENT** *Darren James D. Docdocil, Jann Rheynald G. Cañeda, Sir Mel S. Manansala, Mark K. Morales*
08:40 - 08:50 AM	**THE ROLE OF VEGETATION IN SLOPE STABILITY UNDER A CHANGING CLIMATE: A REVIEW** *Muthusamy Karthikeyan*
08:50 - 09:00 AM	**PRELIMINARY STUDY OF THE PERFORMANCE OF CONSUMER-GRADE LIDAR ON MONITORING** *Virgil Lee, Chia-Chi Chiu, Meng-Chia Weng*
09:00 - 09:10 AM	**EVALUATION OF SLAKING-INDUCED SLOPE FAILURE: A CASE STUDY FROM THE MAE MOH MINE, THAILAND** *Kittisak Kasempanyavat, Kuo Chieh Chao, Apipat Chaiwan*
09:10 - 09:20 AM	**VALIDATION OF PULLOUT CAPACITY OF SOIL NAILS FROM FIELD TESTING AND INTERNATIONAL DESIGN CODES** *Jashwin Benedict C. Ullal, John Samson B. Banagbanag, Jansen Michael J. Badlis, Mark Jayson Bilog, Vrayan More N. Baltazar, Mark K. Morales*
09:20 - 09:30 AM	**DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH (MSE) WALLS APPLIED TO BRIDGE APPROACHES** *Allan Botuyan, Marolo Alfaro, Joash Bryan Adajar*
09:30 - 09:40 AM	**GEOTECHNICAL ASSESSMENT OF SLOPE REINFORCEMENT FOR SUSTAINABLE TOURISM DEVELOPMENT IN LOMBOK : A CASE STUDY OF RETAINING WALLS AND DEEP FOUNDATIONS** *Gabriel Chintya Grace Hutahaean*
09:40 - 09:50 AM	**Question and Answer**

PARALLEL SESSION 3 / CONFERENCE HALL A:

UNDERGROUND STRUCTURES AND GROUND IMPROVEMENT

CHAIRMAN: Prof. Azkar Zhussupbekov	*CO-CHAIRMAN: Prof. Jongwon Jung*

TIME	PRESENTATION
10:20 - 10:30 AM	**VALIDATION OF LOWER-BOUND CAPACITY PREDICTIONS OF PRECAST JACKED PILES IN THE PHILIPPINES** *Benjamin B. Buensuceso III, Charles Kevin B. Taran, Rei Antoine Hernandez*
10:30 - 10:40 AM	**DEEP EXCAVATION IN LOESS IN NORTHEASTERN THAILAND** *Thayanan Boonyarak, Zaw Zaw Aye, Siam Aunmongkonmit, Aye Yadana Aung*
10:40 - 10:50 AM	**RE-EVALUATING BUCKLING CONCERNS IN DEEP FOUNDATION: INSIGHTS FROM RECENT STATIC LOAD TESTS** *Freddy Lopez, Miguel Dimadura, Roldan Sangrador*
10:50 - 11:00 AM	**THE SEISMIC RESPONSE OF A SOIL-FOUNDATION-BUILDING SYSTEM WITH VARIOUS THICKNESSES OF LIQUEFIABLE SOIL** *Jung-Jung Yang, Kuo-Chieh Chao, Ya-Han Hsu, Louis Ge, Der-Wen Chang*
11:00 - 11:10 AM	**ACCURACY OF AN SPT-BASED METHOD FOR PREDICTING THE AXIAL CAPACITY OF CAST-IN-SITU PILE FOUNDATIONS** *K. Sotheara, M. A. H. Zarco, A. P. A. Acacio, L. V. Torio-Kaimo*
11:10 - 11;20 AM	**SAVING ENERGY WITH PRECAST ENERGY PILE IN FINLAND** *Anthony Gunawan, Jorma Leino, Olli Palvas*
11:20 - 11:30 AM	**Question and Answer**

PARALLEL SESSIONS 3
DAY 2 (HALL B & C)

PARALLEL SESSION 3 / CONFERENCE HALL B:
GEO-ENVIRONMENTAL ENGINEERING AND DISASTER MITIGATION

CHAIRMAN: Prof. Rolando Orense	*CO-CHAIRMAN: Engr. Roy Anthony Luna*

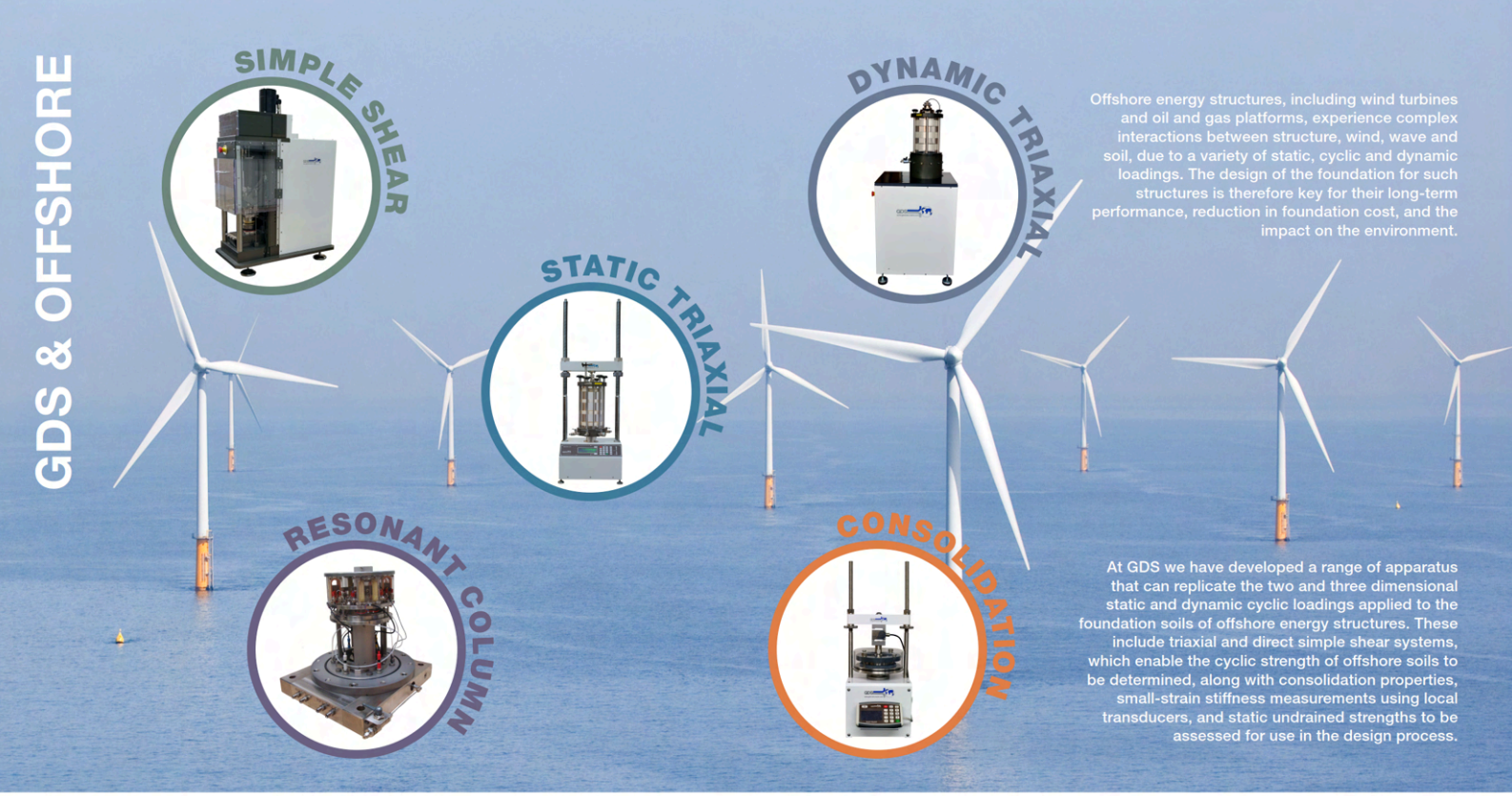
TIME	PRESENTATION
10:20 - 10:30 AM	**ASSESSMENT OF SITE EFFECTS AND LIQUEFACTION POTENTIAL USING THE HORIZONTAL-TO-VERTICAL SPECTRAL RATIO OF STRONG MOTION– A CASE STUDY OF TAIPEI BASIN, TAIWAN** *Yung-Yen Ko, Wei-Zhou Ang*
10:30 - 10:40 AM	**EFFECTS OF CLIMATE CHANGE ON THE LONG-TERM STABILITY OF A CONSTRUCTED BUILDING ON NATURAL SLOPES** *Earl de Guzman, Marolo Alfaro, Allan Botuyan*
10:40 - 10:50 AM	**GEOTECHNICAL RISK ASSESSMENTS IN TROPICAL AND HIGH SEISMICITY MINE SITES IN SOUTHEAST ASIA** *Eugene Lapore, Henry Munoz*
10:50 - 11:00 AM	**COMPARISON OF LIQUEFACTION SUSCEPTIBILITY AND TRIGGERING ANALYSES COMMONLY USED IN THE PHILIPPINES** *Alitking Anongphouth, Irene Olivia Ubay-Anongphouth, Lessandro Estelito Garciano, Joenel Galupino*
11:00 - 11:10 AM	**A SIMPLE HEURISTIC METHOD FOR ASSESSING LANDSLIDE RISK: AN EXPERIENCE FROM SOUTHERN SUMATRA, INDONESIA** *Dedi Apriadi, Halida Yunita, Suparman, Nela Aprinda, Imanullah Rafi Priambodo, Suched Likitlersuang*
11:10 - 11;20 AM	**HOW GCCM'S CAN BE USED IN EROSION CONTROL APPLICATIONS REDUCING CARBON FOOTPRINTS AND MITIGATING CLIMATE CHANGE** *Flavio Cosma, Darren Hughes, Lee Church*
11:20 - 11:30 AM	**GEOTECHNICAL ENGINEERING CHALLENGES IN MARINE PROJECTS** *Julian Sandoval*
11:30 - 11:40 AM	**Question and Answer**

PARALLEL SESSION 3 / CONFERENCE HALL C:
GEOTECHNICAL INVESTIGATION AND SLOPE STABILIZATION

CHAIRMAN: Prof. Suttisak Soralump	*CO-CHAIRMAN: Engr. Mark Morales*

TIME	PRESENTATION
10:20 - 10:30 AM	**DETERMINATION OF WATER CONTENT OF CLAYEY SOILS USING TIME DOMAIN REFLECTOMETRY (TDR)** *Wooseok Choi, Byeong Hwi Ryu, Jiseok Oh, Hyunwook Choo*
10:30 - 10:40 AM	**FIELD DEMONSTRATION OF SUSTAINABLE STABILIZATION FOR SHALLOW SLOPE FAILURES IN SOUTHEAST ASIA** *Shota Yoshida, Yudai Ochi*
10:40 - 10:50 AM	**ENERGY-BASED LIQUEFACTION ASSESSMENT OF SILICA-GROUTED SAND USING STRAIN-CONTROLLED CYCLIC TESTING** *Khin Nyein Chan Kyaw, Kuo Chieh Chao and Shinya Inazumi*
10:50 - 11:00 AM	**FLOWSLIDE MECHANISM IN PETOBO, PALU, INDONESIA, DURING THE 2018 PALU EARTHQUAKE: INSIGHTS FROM FIELD AND LABORATORY TESTING** *Togani Cahyadi Upomo, Muhammad Farhan Syahputra, Alfa Narendra, Kiti Widayanti, Valerinaya Fasya, Hari Dwi Wahyudi, Ricky Polas Istianto*
11:00 - 11:10 AM	**EVOLUTION OF THE COEFFICIENT OF LATERAL STRESS AT REST UNDER REPETITIVE LOADING: EFFECTS OF PARTICLE SHAPE** *Heerym Han, Noeul Kim, Jang-Un Kim, Hyunwook Choo*
11:10 - 11;20 AM	**CONSIDERATION OF REDUCTION FACTORS TO ENHANCE THE SAFETY OF STRUCTURES USING MULTI-LINEAR DRAINAGE GEOCOMPOSITES** *Florent Sygall and Pascal Saunier*
11:20 - 11:30 AM	**INFLUENCE OF CORE STIFFNESS ON THE PERFORMANCE OF ASPHALT CORE DAMS** *Thanakorn Nateeprasittibhorn, Tanawan Wannawong, Zaw Zaw Aye, Anthony Gunawan, Viroon Kamchoom*
11:30 - 11:40 AM	**Question and Answer**

GDS & OFFSHORE



Offshore energy structures, including wind turbines and oil and gas platforms, experience complex interactions between structure, wind, wave and soil, due to a variety of static, cyclic and dynamic loadings. The design of the foundation for such structures is therefore key for their long-term performance, reduction in foundation cost, and the impact on the environment.

At GDS we have developed a range of apparatus that can replicate the two and three dimensional static and dynamic cyclic loadings applied to the foundation soils of offshore energy structures. These include triaxial and direct simple shear systems, which enable the cyclic strength of offshore soils to be determined, along with consolidation properties, small-strain stiffness measurements using local transducers, and static undrained strengths to be assessed for use in the design process.

Shear Testing

The Electromechanical Dynamic Cyclic Simple Shear Device (EMDCSS) is for simple shear testing, which can be upgraded to direct shear. It is capable of carrying out dynamic cyclic tests from small to large strain (10% shear strain amplitude), as well as extremely accurate quasi-static testing. This is the choice for a no-compromise simple shear machine with the greatest range of testing capability.

Resonant Column

The Resonant Column Apparatus (RCA) is used to estimate values of the shear modulus, G, and damping ratio, D, for soil specimens across the small to medium strain range (< 1 %). The variation in these parameters with increasing strain magnitude allows engineers to conduct dynamic response analysis which enable performance assessment of natural and engineered structures subjected to dynamic and cyclic loadings.

Static Triaxial Testing

The Triaxial Automated System (GDSTAS) is a load frame based triaxial testing system. The system is configured by choosing from a range of load frames, triaxial cells, pressure controllers and software. The system can be configured as a multi-station commercial testing apparatus. Common upgrades for these systems include Bender Elements (Horizontal and Vertical), Mid-Height Pore Pressure measurement, and Local Strain measurement.

Consolidation System

The Automated Oedometer System (AOS) is a self-contained stepper motor driven unit that can be controlled either manually using its Smart Keypad or from a PC using the USB interface. There is no requirement for compressed air or manually placed weights. When used with the GDSLAB control and data acquisition software, the AOS can be used for a complete array of tests beyond those which a hanging weight oedometer can perform.

Dynamic Triaxial Testing

The Advanced Dynamic Triaxial Testing System (DYNTTS) is a high-end, no compromise testing apparatus combining a triaxial cell with a dynamic actuator capable of applying load, deformation and stresses up to 5Hz. The cell itself is screw-driven from an integral base unit housing the motor drive. Axial force and axial deformation are applied through the base of the cell. The system can be combined with a dynamic cell pressure actuator such that cell pressures may be applied dynamically up to fundamental frequency of 5Hz.

Find out more about our offshore testing systems here

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Macro Industrial Packaging Products Corporation (MIPPC), established in March 2006, is a leading manufacturer of Expandable Polystyrene (EPS) in the Philippines. As one of the country's largest EPS block producers, MIPPC is also the sole local manufacturer of EPS Geofoam that complies with ASTM international standards. The company operates a state-of-the-art, in-house testing laboratory for both EPS and EPS Geofoam, ensuring consistent quality and performance.

Geofoam has been used as a geotechnical material since the 1960s. EPS Geofoam is approximately 1% the weight of soil and less than 10% the weight of other lightweight fill alternatives.

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The **PGATECH Group**, is a Filipino-owned engineering organization that has endeavored to be at the forefront of specialty geo-construction and materials testing in the Philippines since 1981.

Our commitment to excellence and innovation has enabled us to bring the world's best geotechnical systems to the Philippines, while also showcasing the expertise of our Filipino engineers and professionals. We have always endeavored to be a “one-stop service provider” for specialized geotechnical works, ranging from soil and construction materials testing to design-and-build slope protection and ground improvement solutions.

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ABOUT US

Philippine GeoAnalytics, Inc. is a **private Civil Engineering and Testing Laboratory** engaged in **Soil and Material Testing and Consultancy**. It is a corporation originally founded as a proprietorship in 1981

July **1994, the company was awarded ISO Guide 25 Certification**, becoming the **first Materials and Soil Testing Laboratory in the country** to receive this certification

PGAI was also the **first Soil and Material Testing Laboratory in the country to be accredited** under the **PNS ISO/IEC 17025:2017 Accreditation** and formally **recognized by Philippine Accreditation Bureau (PAB)** for its competence.

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Conceptualize and design various civil infrastructure projects using these solutions: **iTwinCapture** for reality modeling, **OpenRoads** & **CivilCAD** for design of roads, **OpenBridge** for design of bridges, **OpenTunnels** for design of tunnels, and **OpenRail** for design of railways.

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Perform advanced 2D finite element analysis of soil and rock deformation and stability. Consider ground-structure interaction, groundwater flow, heat flow, or seismic activity.

PLAXIS 2D is used in geotechnical challenges ranging from excavations, embankments, slope and/or flood protections, onshore or offshore foundations to tunneling, mining, and reservoir geomechanics.

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GEO5 is a comprehensive software suite designed for geotechnical engineering, providing solutions for any task from geological survey to advanced geotechnical design.

It integrates geological data modeling and helps engineers analyze and design various geotechnical tasks, using both analytical and finite element methods to analyze and solve geotechnical problems.

About infrasys

Trusted for more than a decade in providing architectural and engineering software solutions, trainings and services all over the country.

Infrasys is a multi-awarded Bentley Platinum Channel Partner, distributor of **Bentley** & **Seequent** solutions, the exclusive supplier of **Fine Software**'s GEO5 throughout the Philippines, an accredited partner of **Transoft Solutions**, **ZWSoft**, **Graphisoft**, **SivanDesign**, and the sole distributor of **CYPE** solutions in the Philippines.

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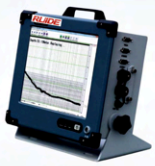
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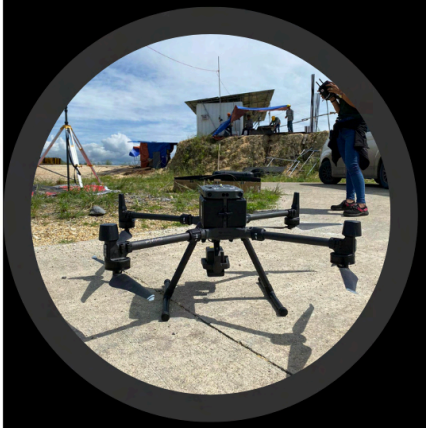

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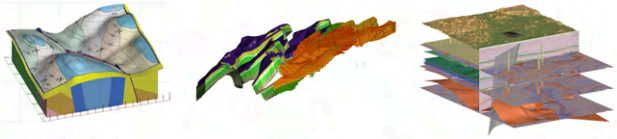

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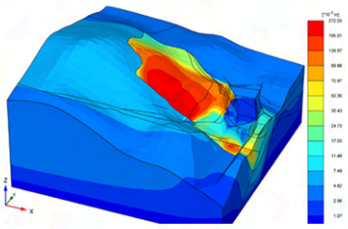
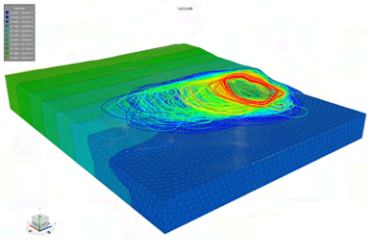
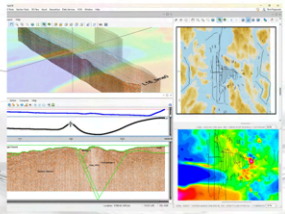




Finite element analysis software for geotechnical projects

Geotechnical analysis software suite for modelling slope stability, groundwater flow, ground deformation, and more in soil and rock.



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Geophysical software for processing, filtering, and interpreting survey data.

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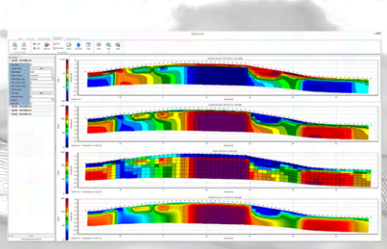

2D and 3D resistivity and IP software for subsurface modelling

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BGC MAP

One of Metro Manila's largest upscale malls, offering diverse dining from fast food to fine dining, entertainment options, and plenty of shops where visitors can buy local souvenirs.

LEGEND

- Shangri-La The Fort, Manila
- Malls
- Parks and Recreation
- Serendra Mall (Location of Abe Restaurant)

N
W E
S

MUST-TRY RESTAURANTS

1. **George and Onnie's**
   Filipino Restaurant
   G/F World Plaza
2. **Canton Road**
   Chinese Restaurant
   Level 3, Shangri-La Hotel
3. **Terraza Martinez**
   Spanish Restaurant
   Ground Floor, Shangri-La Hotel
4. **Lore by Chef Tatung**
   Filipino Fine Dining Restaurant
   3rd floor, One Bonifacio High Street Mall
5. **L'Opera Ristorante**
   Italian Fine Dining Restaurant
   Ground Floor, Seven Neo
6. **Eesome**
   Cafe-Restaurant
   Unit C Bellagio Towers, Forbestown Center
7. **Marker & Made**
   Australian-style Brunch
   Milestone at 5th Avenue
8. **Manam**
   Filipino Restaurant
   B7 Bonifacio High Street
9. **Abe**
   Filipino Restaurant
   G/F Serendra
10. **Serendra**
    Home Kitchen
    Serendra
11. **El Born**
    Spanish Restaurant
    Second Floor, Mitsukoshi Mall

PHILIPPINES

A quick guide to local travel destinations

SAN JUAN, LA UNION
- ~4–5 hrs by car/bus
- Surf town with beach cafés and nightlife
- *Delicacies: local seafood, grape wine*

VIGAN CITY, ILOCOS SUR
- ~8–9 hrs by car; ~1 hr flight + land travel
- UNESCO-listed Spanish colonial town
- *Delicacies: empanada, bagnet*

BAGUIO CITY
- ~4–6 hrs by car/bus
- Cool mountain climate, pine trees, colonial-era parks
- *Delicacies: strawberry taho, ube jam*

BANAUE RICE TERRACES
- ~9–10 hrs by car/bus
- UNESCO World Heritage Site
- 2,000-year-old hand-carved mountain terraces
- *Delicacies: tinawon rice, native rice wine*

BGC
TAGUIG CITY

MANILA
- 30 minute ride from BGC
- Historic Intramuros, museums, modern malls

TAAL VOLCANO (BATANGAS)
- ~2–3 hrs by car
- One of the world's smallest active volcanoes, lake views
- *Delicacies: tawilis, bulalo*

MAYON VOLCANO (ALBAY)
- ~1 hr flight from Manila
- Iconic "perfect cone" volcano
- *Delicacies: bicol express, laing, pili nuts*

CORON ISLAND (PALAWAN)
- ~1 hr flight
- WWII shipwreck diving, clear lakes
- *Delicacies: cashew products*

BORACAY
- ~1 hr flight + short boat ride
- White-sand beaches, vibrant nightlife
- *Delicacies: chori burger, calamansi muffins*

EL NIDO (PALAWAN)
- ~1 hr flight + 5–6 hrs land/boat
- Limestone cliffs, lagoons, island hopping
- *Delicacies: fresh seafood*

PUERTO PRINCESA (PALAWAN)
- ~1 hr flight
- UNESCO World Heritage Site
- Underground River and nature tours
- *Delicacies: tamilok, seafood*

SIQUIJOR
- ~1.5 hrs flight + ferry
- Mystical island, waterfalls, quiet beaches
- *Delicacies: local rice cakes*

CHOCOLATE HILLS (BOHOL)
- ~1.5 hr flight + short land travel
- Over 1,000 cone-shaped limestone hills
- *Delicacies: peanut kisses, calamay*

SIARGAO
- ~2 hrs flight (often via Cebu)
- Surfing capital, laid-back island vibe
- *Delicacies: coconut-based dishes*

CAMIGUIN
- ~1.5 hrs flight + ferry
- Island born of volcanoes, hot springs
- *Delicacies: pastel (sweet buns), lanzones*

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