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GEO-REVOLUTION, BETTER LIFE FOR ALL

4th REGIONAL MEETING

SPONSORS:



SOUTH
KOREA
2023

8 - 10 November

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안녕하세요 ! HELLO !



A heartfelt gratitude to everyone who attended the 4th FIG Young Surveyors Asia & the Pacific Meeting (#4YSAPM) in conjunction with the Korea Smart Geo Expo 2023 in Seoul, Korea.



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안녕하세요 ! HELLO !

This momentous event brought together 25 young surveyors and professionals from 8 countries with different cultural backgrounds, diverse surveying traditions and varying professional experiences.

With the theme ‘Geo-revolution, Better Life for All,’ the success of this three-day event provided an avenue to discuss the issues facing their countries and plan for a better future, collaborate and learn the importance of geo-revolution and how it can be used to create a better life for all.

The FIG Young Surveyors Network and the Young Surveyors Network Asia & the Pacific jointly organized the meeting with the support and sponsorship from FIG, FIG Foundation, Leica Geosystems, Dabeco, Mobiltech and Wipco.





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DAY 1

November 8, 2023, Wednesday

Session 1: Preliminaries

Session 2: Orientation/Overview, Group Discussion, Docent Tour

Session 3: Special Lectures from 4YSAPM Sponsors

Session 4: Tech Tour and Networking Dinner Party



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Session 1: Preliminaries

The first session of the meeting started at 10 o'clock in the morning with an opening ceremony. The participants received a warm welcome with a keynote speech by Kelvin Tang Kang Wee, FIG YSN AP Chair, providing valuable insights about International Federation of Surveyors (FIG) and its Commissions, the FIG Foundation and its Board of Directors, the FIG Young Surveyors and its networks across the globe, past YSAPMs, this year's organizing committee, and recognizing the sponsors.

Followed afterwards was a recognition of this year's FIG Foundation grantees, photo session, and self-introduction.



FIG Foundation Grant Award Recipients

This year, we have received more than forty quality applications from around the globe, majority are from Asia & the Pacific Region. After going through the tedious review process, we present to you the eight (8) FIG Foundation Grant Award Recipients:





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Session 2: Orientation/Overview

The second session was an orientation of #4YSAPM, introduction to major events and precautions by Jeong-o John Kim, local MC and member of the organizing committee.





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Session 2: Group Discussion

The event overview as presented by Mr. Kelvin Tang on the theme ‘Geo-revolution, Better Life for All,’ discussed how geospatial information influence nearly everything and citing how geospatial professionals would gear towards a better future.

The participants were then divided into two groups and had a group discussion on the theme, likewise, answering the question: What’s our specialty and can we be superseded by technology? The group discussion resumed the following day.





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Session 2: Docent Tour

In the afternoon was an Exhibition Hall Docent Tour, participated by all the attendees featuring the latest technologies of GIS and surveying such as LiDAR, UAM/Drones, Geo-AI, Satellite, GNSS, among others, which was the highlight of the Smart GEO Expo 2023, the largest geospatial event in Asia partook by local and international companies and organizations.





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Session 3: Special Lectures from 4YSAPM Sponsors

The first lecture “Realistic Digital Twin for Smart City” was presented by Suk-Jin Young, COO of Mobiltech, a company specializing in 3D spatial information using innovative AI, wherein he featured the shift to spatial experience trends with its proprietary innovation ‘Replica City’ and its vision on revolutionizing geospatial services.





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Session 3: Special Lectures from 4YSAPM Sponsors

The second lecture “3D Scanning on Cultural Heritage” was presented by Si-Ro Kim, Vice President of Wipco, Ltd., one of the leading companies in 3D scanning technology in Korea. He shared how they dealt with developing contents using photogrammetry techniques for the ASEAN UNESCO World Heritage Digital Content Development Project and how this project aims to strengthen ROK-ASEAN relations through sharing digital archiving methods and technologies and establishing cooperation network for exchange and utilization of these digital archive materials.





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Session 3: Special Lectures from 4YSAPM Sponsors

The third lecture “Establishment of Digital Geo-Spatial Information Based on GEO-AI” was presented by Ju-Hum Park, CEO of Dabeeo, one of the leading companies in the spatial information industry. He discussed how Dabeeo’s expertise is focused on creating a Digital Twin Earth using artificial intelligence technology in maximizing production efficiency in collaboration with remote sensing professionals.

dabeeo





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Session 3: Special Lectures from 4YSAPM Sponsors

The fourth and the last lecture for the day with the topic entitled “More than Green at Leica Geosystems” was presented by Craig Hill, VP for Marketing and Services of Leica Geosystems, a company focused on revolutionizing the world of measurement and survey for 200 years, and a part of Hexagon. He featured how Leica invest in and develop green-tech projects with the vision to bring together cutting-edge tech driving the shift toward an autonomous and sustainable future.

Leica
Geosystems



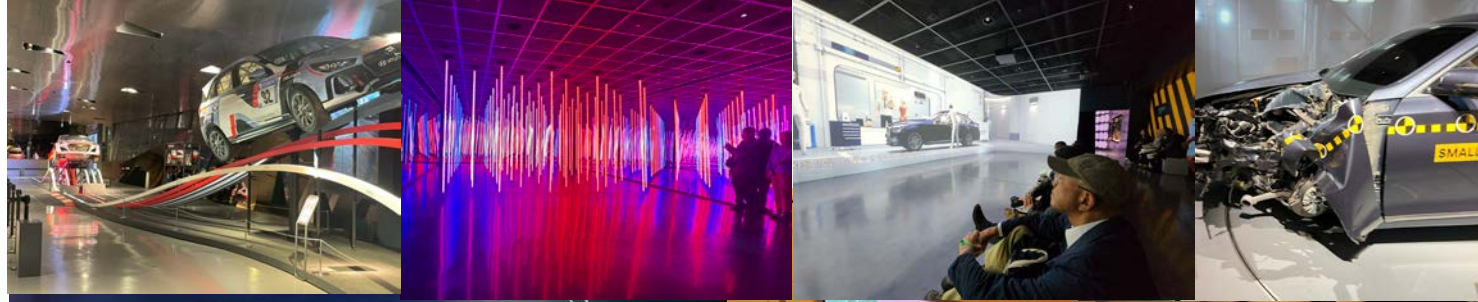


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Session 4: Tech Tour

Afterwards, the participants embarked on a special tech tour at the nearby Hyundai Motorstudio Goyang, the largest mobility theme park in South Korea, wherein they learned about how cars are manufactured and how they function – a unique kind of automotive journey seeing, hearing, and touching mobility.





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Session 4: Networking Dinner Party

Day 1 concluded with a sumptuous dinner at the 'Kitchen by Haevichi', an open kitchen bistro inside the motorstudio. This served as a welcome slash networking dinner party for all the #4YSAPM attendees hosted by Leica HQ.





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DAY 2

November 9, 2023, Thursday

- Session 1: Special Presentations from Survey Professionals
- Session 2: Group Discussion and Presentation of Insights
- Session 3: K-Pop Dance and World Address Conference 2023
- Session 4: Special Presentations from Young Surveyors
- Session 5: Let's Make Our Own Map
- Chimac Dinner Party



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Session 1: Special Presentations from Survey Professionals



The first presentation for Day 2 was discussed by Kazuaki Fujii, Director of JSF, and Kenta Ishii, both from Japan, with the topic “Accuracy Verification of Estimated Boundary Maps Based on Remote Sensing Data and the Potential for High-Accuracy General Boundary Map Compilation” providing insights on the Japanese Cadastre and cadastral surveying project, and acceleration of the creation of maps and updating of necessary information toward “Multipurpose Cadastre” and “Fit-for-Purpose Land Administration”.



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Session 1: Special Presentations from Survey Professionals



The second presentation was discussed by Michael Cobilla, one of the FIG Foundation Grantees from the Philippines and Proprietor of McGeoLand Surveying Services, with the topic "Integration of Geomatics in Research: The Philippine Setting". He shared how geomatics proved advantageous in their conducted research on themes such as agriculture and food security and cultural heritage mapping. He also shared how survey camps in the Philippines helped young surveying students get acquainted with different actual survey fieldworks.



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Session 2: Group Discussion and Presentation of Insights

Followed afterwards is the sequel of the Group Discussion held yesterday which were then presented by each group highlighting the pros and cons of geo-revolution in the surveying profession.

The first group was represented by Syed Ahmad Fadhli Syed Abdul Rahman while the second group was represented by Sanchitna Witharana. During the presentation, they stressed how technology revolutionized surveying especially in multi-aspect project planning, disaster and risk reduction management, among others. They also shared how crowdsourcing of data leads to faster, mostly reliable, and flexible data resulting to a wider range and larger database for research purposes, etc.





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Session 2: Group Discussion and Presentation of Insights

While it may be true that there are a lot of advantages, the groups also stressed that these large data require longer data processing time, more complex hardware, and software to process and analyze such as billions of cloud points.

Geo-revolution and innovation also pose threat on the data integrity and data security, and even to the surveying profession where people with no background on surveying fundamentals are practicing surveying. They also pointed out that geo-revolution does not necessarily replace the survey professionals entirely since a Data Manager is vital in checking the integrity and accuracy of the data. Likewise, with these surveying innovations, 'once young' surveyors are skeptical and hesitant on using these modern technologies who still prefer and insist on using traditional instruments and techniques. This predicament can be addressed through knowledge-sharing among surveyors with the aid of the young ones who are adept at using survey innovations knowing that the surveying profession is constantly evolving.



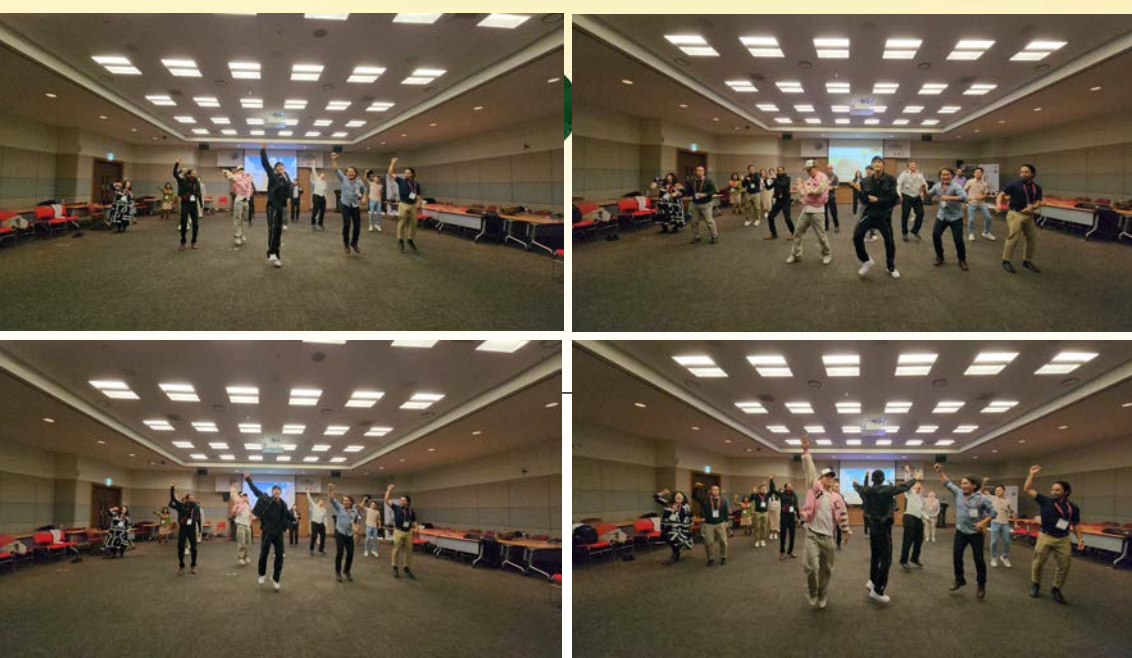


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Session 3: Let's Learn K-Pop Dance!

After the scrumptious lunch, K-Pop dance was introduced to the participants. Led by professional instructors, they got the chance to learn and experience some choreographed steps of the K-Pop song 'God of Music', which topped the iTunes Top Song charts in 29 regions around the world, popularized by the K-pop group Seventeen. K-Pop or Korean pop music originates in South Korea as part of South Korean culture which has a faster tempo than most old-school lyrical hip hop songs.





World Address Conference 2023

Later, the participants attended the opening ceremony for the World Address Conference at KINTEX 2 and heeded to the Keynote Speech by Scott Simmons, Chief Standards Officer at Open Geospatial Consortium. Simmons provided insights on open data and its advantages, open standards that are F.A.I.R. (Findable, Accessible, Interoperable and Reusable) and a framework for unified resources. “Data is not the new oil – there is an infinite amount of data that can be produced. What we can do with the data depends on how we understand its quality,” he emphasized.



The 2023 World Address Conference, bearing the theme “Connecting the World with K-Address!” was attended by 21 countries hosted by the Ministry of the Interior and Safety (MOIS) of the Republic of Korea. It’s also a sub-event of the Smart Geo EXPO 2023 that aims to standardize and modernize the global address system.



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Session 4: Special Presentations from Young Surveyors



The third presentation was discussed by Syed Ahmad Fadhli Syed Abdul Rahman, FIG Foundation Grantee and Assistant Director of Survey of the Department of Survey and Mapping in Malaysia, with the topic “Cultivating Geospatial Talents in Aging Societies: A Digital Revolution”. He gave emphasis on how geospatial growth among the new generation affects supply of geospatial talents thru mentorship programs, connecting with global talents, partnerships with educational institutions, among others.



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Session 4: Special Presentations from Young Surveyors



The fourth presentation was discussed by Amalina Izzati Abdul Hamid, FIG Foundation Grantee from Malaysia and a Faculty of Built Environment and Surveying of Universiti Teknologi Malaysia, with the topic “Advancing Coastal Vulnerability Assessment through Incorporation of Space Geodetic and Optical Imaging Missions”. She tackled how the research highlighted the physical aspect of coastal characterization using advanced satellite techniques and GIS in providing efficient and low-cost data management on coastal vulnerability and sustainability.



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Session 4: Let's Make Our Own Map!

Afterwards, Seung-Hee, Cho, from Tomtom Korea, led a short workshop for the participants using their own laptop on navigating OpenStreetMap (OSM), a map of the world – crowdsourced and free to use under an open license. Tomtom is a company that delivers mapping and location technology and is among the organizations like Humanitarian OpenStreetMap Team, with a mission of building a relationship with the community and improve OSM.





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Chimac Dinner Party



After some free time, participants then proceeded to have a Chimac Party for dinner. Koreans love the combo so much they've dedicated a whole word to it. Pretty much inspired by the national dining culture and pastime, Chimac comes from “chi”, short for “chicken” plus “mac” from “maekju”, Korean for beer.



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DAY 3

November 10, 2023, Friday

1. Cultural Heritage Tour in Korea Territorial Development Exhibition Hall & Deoksugung Palace
2. Shopping in Myeongdong and Namdaemun Market
3. Farewell Dinner Party



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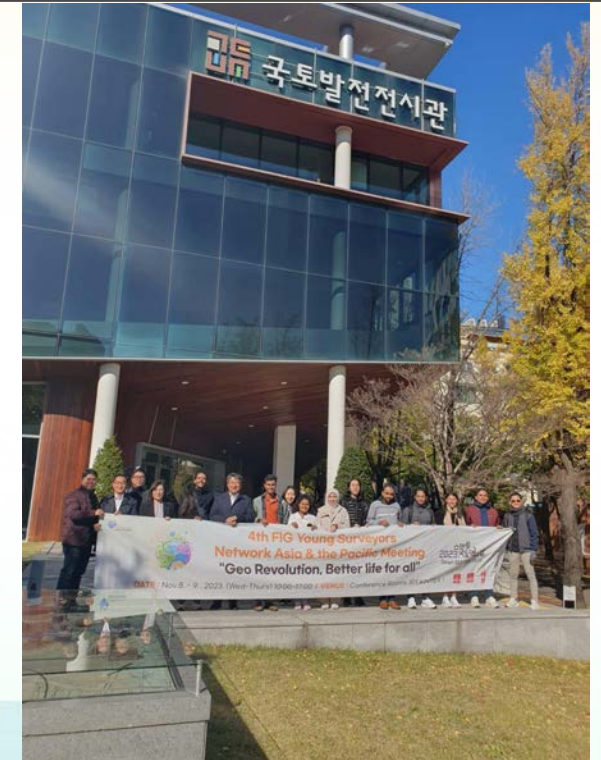


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Cultural Heritage Tour



After an hour of travel from KINTEX to Seoul, participants' first stop was at the Korea Territorial Development Exhibition Hall.



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Then, a hearty meal for lunch called Samgye-tang, or ginseng chicken soup, meaning ginseng-chicken soup in Korean, consists primarily of a whole young chicken filled with garlic, rice, jujube, and ginseng. Samgye-tang is a Korean traditional soup for body health – perfect for the cold weather at the time which was around 2°C-13°C.





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Cultural Heritage Tour



Second stop was at the Deoksugung Palace, which means “Palace of virtue and longevity” in the spirit of praying for long life for Emperor Gojong, located at the corner of Seoul's busiest downtown intersection.



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Shopping in Myeongdong and Namdaemun Market



Third stop was at Myeongdong Market, one of the most popular tourist shopping destinations in Seoul and at Namdaemun Market, the largest traditional market in Korea, where participants had free time to explore and shop for souvenirs.



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Farewell Dinner Party

Finally, a farewell dinner party featuring Galbijim, a Korean delicacy of braised beef short ribs typically served on traditional holidays and special occasions in Korea, and Makgeolli, an unfiltered traditional rice wine and is the oldest known Korean alcoholic beverage that has fruity, sweet and slightly sour.





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