

Geological Society of the Philippines  
**GeoCon 2023 Our Natural Resources: Fueling the Energy Transition Journey**

December 5-6, 2023  
 Monet Grand Ballroom, Novotel Manila, Araneta City, Quezon City

**Scientific Program**  
**DAY 2: DECEMBER 6, 2023 (WEDNESDAY)**

SCIENTIFIC SESSIONS									
Session No	ROOM 1				Session No	ROOM 2			
0800	0820	Preliminaries/Announcements/Program in each Room				0800	0820	Preliminaries/Announcements/Program in each Room	

**11 Current Events in the Anthropocene**

Moderators: Dr. Kevin Garas and Lee Ann Joy Bayan

11.1	0820	0840	Jayson Gabriel Pinza	University of Antwerp and Katholieke Universiteit Leuven	Can compaction of even sandy subsoils impact the vadose zone hydrology? Insight from soil water models of pilot-scale plots
11.2	0840	0900	John Frederick D. Santos	MGB	The effects of relative sea-level changes, tectonics and anthropogenic activities on the coastal hazards situation of eastern Central Cebu
11.3	0900	0920	Kezia E. Villareal	AMH Philippines, Inc.	Importance and Application of Structural Analyses in Tunnel Design and Construction
11.4	0920	0940	Manilyn V. Casa	UPLB	Heavy metal concentrations in freshwater fish species present in the Lower Agno Watershed

0940 0955

**12 Advanced Analytics Techniques in Earth Science**

Moderators: Eric Andal and Florence Annette Labis

12.1	0955	1015	Dr. Decibel V. Faustino-Eslava	UPLB	Big Data, Artificial Intelligence, and Citizen Science: The nexus of smarter systems for earth sciences?
12.2	1015	1035	Roy Kittrell	Bell Geospace	Leveraging Full Tensor Gravimetry (FTG) Technology for Enhanced Exploraton Complex Geological Terrain
12.3	1035	1055	Ricardo M. Saturay, Jr.	PhiSci - CAR	Leveraging AI and open geospatial data for landslide inventories

**14 Powering the World in Transition**

Moderators: Mia Camila Urbano-Africa and Cielo Bastero

14.1	0820	0840	Abel Angel R. Ablang	Batangas State University	L.E.O.N.I.D.A.S: Leveraging Energy Optimization through Novel Integrated Design of Advanced Storage - A Photovoltaic Concrete Sculpture that Stores Energy Through Gravity Energy Storage System for Sustainable Electricity Generation
14.2	0840	0900	Lyrna Esmeralda-Hewitt	Aboitiz Power Corp.	O&G and RE Investment Environment, a Philippine Context
14.3	0900	0920	Angela Arcilla Flores	Fugro Philippines Inc.	Intelligent offshore renewable energy systems development: Gearing towards sustainable site characterisation to operations in the Philippines
14.4	0920	0940	Dr. Guillermo R. Balce	Private Consultant	Coal Power Phasedown: A Technology Review

AM BREAK

**15 Earth Moves: Sliding, Slumping, Sinking**

Moderators: Dr. Leo Armada and Jeffrey Perez

15.1	0955	1015	Dr. Arturo S. Daag	PHIVOLCS/DOST	Modeling the Critical Acceleration for Co-Seismic Landslide Susceptibility using Geotechnical, Geophysical, and Geospatial Data
15.2	1015	1035	Bianca Maria Laureanna P. Pedrezuela	UPLB	Physical and Mineralogical Properties of Soils from Landslide-Prone Areas in Mineralized and Non-Mineralized Zones
15.3	1035	1055	Clarence Joyce D. Landingin	Mapua University	Liquefaction Hazard Mapping Based on Regional Geology, Local Geotechnical Data, and Cyclic Stress Ratio (CSR) Values: Dagupan City, Pangasinan, Philippines

**13 Uncovering What Lies Beneath**

**16 Earth Moves: Jiggling, Wobbling, Swaying**

Moderators: Dr. Carla Dimalanta and Dr. Mel Casulla

Moderators: Dr. John Dale Dianala and Dr. Arturo Daag

13.1	1100	1120	Keanu Jershon S. Sarmiento	Marine Science Institute -UP Diliman	A complex transtensional fault system in the eastern Verde Island Passage (Philippines) remapped through existing datasets	16.1	1100	1120	Dr. Leo T. Armada	UP-NIGS	Mechanical structure, strain rates, and seismogenic potential within the Manila Trench region		
	13.2	1120	1140	Jerson Nael	CEXCI		Drone Magnetic and Gravity Survey in Malabeg Prospect, Zambales	16.2	1120	1140	Deo Carlo E. Llamas	PHIVOLCS	Slip Characteristics of the Masbate Segment of the Philippine Fault: Insights from the 2020 Mw 6.6 Masbate Earthquake
	13.3	1140	1200	Dr. Carla B. Dimalanta	UP-NIGS		Imaging offshore deformation features in western Luzon from gravity anomalies	16.3	1140	1200	Jeffrey S. Perez	PHIVOLCS	Small but Terrible: Impacts of the 2023 Magnitude (Ms) 5.3 Leyte, Leyte Earthquake
1200	1300	POSTER PRESENTATIONS				&	LUNCH						

Moderators: Dr. Rogel Santos and Ciceron Angeles, Jr.

KEYNOTE	1300	1330	Eillen Grace Dela Cruz	S&P Global Philippines Inc.	Assessing Philippines' Potential in the Global Green Metals' Revolution
	1330	1400	James Daniel	SLB	Accelerating Decarbonization through Innovation and Science
	1400	1430	Dr. Renato Bobis	Bobis Geoconsulting	Demystifying the High-Sulphidation to Porphyry Copper Transition Zone
1430		1445		PM BREAK	
KEYNOTE	1445	1515	Douglas Kirwin	Consultant	Future Exploration Trends for Large Copper Projects
	1515	1545	Dr. Graciano P. Yumul, Jr.	CEXCI	The Future of Work Landscape and the Philippine Minerals Industry