

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

<b>11.1</b>	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	
<b>11.2</b>	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	
<b>11.3</b>	0900	0920	Kezia E. Villareal	AMH Philippines, Inc.	Importance and Application of Structural Analyses in Tunnel Design and Construction	
<b>11.4</b>	0920	0940	Manilyn V. Casa	SESAM-UPLB	Heavy metal concentrations in freshwater fish species present in the Lower Agno Watershed	
	<b>0940</b>	<b>0955</b>				

**12 Advanced Analytics Techniques in Earth Science**

Moderators: Lourdes Stephanie Leido and Florence Annette Labis

<b>12.1</b>	0955	1015	Dr. Decibel V. Faustino-Eslava	UPLB	Big Data, Artificial Intelligence, and Citizen Science: The nexus of smarter systems for earth sciences?
<b>12.2</b>	1015	1035	Roy Kittrell	Bell Geospace	Leveraging Full Tensor Gradiometry (FTG) Technology for Enhanced Exploration in Complex Geological Terrain

**14 Powering the World in Transition**

Moderators: Mia Camila Urbano-Africa and Atty. Marissa Cerezo

<b>14.1</b>	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
<b>14.2</b>	0840	0900	Lyrna Esmeralda-Hewitt	Aboitiz	O&G and RE Investment Environment, a Philippine Context
<b>14.3</b>	0900	0920	Angela Arcilla Flores	Fugro	Intelligent offshore renewable energy systems development: Gearing towards sustainable site characterisation to operations in the Philippines
<b>14.4</b>	0920	0940	Dr. Guillermo R. Balce	Private Consultant	Coal Power Phasedown: A Technology Review
<b>AM BREAK</b>					

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

Moderators: Dr. Leo Armada and Jeffrey Perez

<b>15.1</b>	0955	1015	Arturo S. Daag	PHIVOLCS	Modeling the Critical Acceleration for Co-Seismic Landslide Susceptibility using Geotechnical, Geophysical, and Geospatial Data
<b>15.2</b>	1015	1035	Bianca Maria Laureanna P. Pedrezuela	UPLB	Physical and Mineralogical Properties of Soils from Landslide-Prone Areas in Mineralized and Non-Mineralized Zones

12.3

1035	1055	Ricardo M. Saturay, Jr.	PhiSci - CAR	Leveraging AI and open geospatial data for landslide inventories
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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
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**13 Uncovering What Lies Beneath**

Moderators: Dr. Carla Dimalanta and Dr. Mel Casulla

13.1

1100	1120	Keanu Jershon S. Sarmiento	Marine Institute -UP Diliman	A complex transtensional fault system in the eastern Verde Island Passage (Philippines) remapped through existing datasets
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13.2

1120	1140	Jerson Nael	CEXCI	Drone Magnetic and Gravity Survey in Malabeg Prospect, Zambales
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13.3

1140	1200	Dr. Carla B. Dimalanta	UP-NIGS	Imaging offshore deformation features in western Luzon from gravity anomalies
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1200	1300	POSTER PRESENTATIONS		
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**16 Earth Moves: Jiggling, Wobbling, Swaying**

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

16.1

1100	1120	Dr. Leo T. Armada	UP-NIGS	Mechanical structure, strain rates, and seismogenic potential within the Manila Trench region
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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
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16.3

1140	1200	Jeffrey S. Perez	PHIVOLCS	Small but Terrible: Impacts of the 2023 Magnitude (Ms) 5.3 Leyte, Leyte Earthquake
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1200	1300	POSTER PRESENTATIONS		&	LUNCH	
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Moderators: Dr. Rogel Santos and Ciceron Angeles, Jr.

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		
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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

1545	1600	PM BREAK		
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GSP General Membership Assembly and Business Meeting				
1600	1615	Treasurer's Report		



1615	1630	President's Report and Ratification of the Board Resolutions
1630	1645	Ammendment of Articles of Incorporation
1645	1700	Announcement of new Trustees
1700	1715	Awarding of Winners for Best Oral and Best Poster Awards
1715	1730	Presentation of Certificates of Appreciation to Sponsors
1730	1740	Closing Remarks
1740	Onwards	Networking & Cocktails