

# 新南向國土之海洋地球環境變遷暨未來可再生能源

## Changing Ocean and Earth Environments and Future Renewable Energy in New Southbound Policy Territory

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2025 年 6 月 24 日至 25 日

June 24<sup>th</sup>-25<sup>th</sup>, 2025

海洋大學行政大樓第二演講廳

The Second Auditorium(二講) in the Administration Building  
at National Taiwan Ocean University



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Changing Ocean and Earth Environments and Future Renewable Energy  
in New Southbound Policy Territory

## Agenda



Time	June 24 (Tuesday), 2025
07:45~08:00	Group pick up (invited speaker only) at Kodak Hotel and transport to NTOU
08:30~09:00	Registration (The Second Auditorium [ 第二演講廳 ], NTOU)
09:00~09:15	Welcome speech by the host and conveners / Take group photos
	<b><u>Session 1 (keynote)</u></b>
	<i>Chair: Min-Te Chen</i>
09:15~09:40	<b>Prakrit Noppradit (Prince of Songkla University, Thailand)</b> Songkhla lagoon: the origin and current situation
09:40~10:05	<b>Ban To Xuan (University of Mining and Geology, Vietnam)</b> The erosion and accretion of Day River mouth, Ninh Binh province, Vietnam
10:05~10:30	Coffee Break
	<b><u>Session 2 Coastal &amp; Offshore Geo-Engineering and Risk Management</u></b>
	<i>Chair: Effi Helmy Ariffin &amp; Chih-Yu Liu</i>
10:30~10:50	<b>Effi Helmy Ariffin (Universiti Malaysia Terengganu, Malaysia)</b> Employing Dune Vegetation as Nature Based Solution to Rehabilitate Coastal Erosion
10:50~11:10	<b>Habibah Hanan Mat Yusoff (Universiti Malaysia Terengganu, Malaysia)</b> Late Quaternary continental shelf-to-slope of Sunda Shelf: Implications for offshore asset planning and potential for offshore groundwater exploration
11:10~11:30	<b>Chih-Yu Liu 劉芷妤 (National Taiwan Ocean University, Taiwan)</b> Artificial Intelligence for Assessing Liquefaction Risk in Taiwan Offshore Wind Farms
11:30~11:50	<b>Ting-Chieh Lin 林鼎傑 (National Taiwan Ocean University, Taiwan)</b> (presented by Chun-Yuan Lin 林俊遠) Laboratory and numerical study of the interaction between extreme water-waves and offshore deck structure
11:50~14:00	Lunch (lunch box)
	<b><u>Session 3 Geo-reservoir Characterization and Slope/Turbidity Dynamics</u></b>
	<i>Chair: Muhd Nur Ismail Abdul Rahman &amp; Huei-Fen Chen</i>
14:00~14:20	<b>Muhd Nur Ismail Abdul Rahman (Universiti Malaysia Terengganu, Malaysia)</b> Elucidating Pore Geometry, Connectivity, and Adsorption in a Neogene Paralic Hydrocarbon Reservoir Outcrop in North Sarawak, Malaysia: A Hydrogen Geostorage Analogue
14:20~14:40	<b>Muhamad Zaki Zulkifli (Universiti Malaysia Terengganu, Malaysia)</b> Cracking the Code of Delta Front Slope Failure: Uncovering Insights through Detailed Monitoring
14:40~15:00	<b>Huei-Fen Chen 陳惠芬 (National Taiwan Ocean University, Taiwan)</b> Integrated Geological and Geophysical Approaches to Assess the Carbon Sink Capacity of the Sun Moon Lake Reservoir
15:00~15:20	<b>Mohd Amir (National Sun Yat-sen University, Taiwan)</b> Records of the turbidites from the Beinan River estuary and upper Taitung Canyon off east Taiwan: Inferences on triggering mechanisms of the turbidity currents
15:20~16:00	Coffee Break



Time

**June 24 (Tuesday), 2025**

**Session 4 Poster flash, welcome short presentation by young researchers and students (3-5mins)**

*Chair: Hui-Juan Pan*

**#1 Pai-Sen Yu 尤柏森 (Taiwan Ocean Research Institute, Taiwan)**

Unraveling dispersal patterns of modern marine sediments offshore eastern Taiwan  
based on physical properties from non-destructive analysis

**#2 Ting-Ting Chen 陳婷婷 (Taiwan Ocean Research Institute, Taiwan)**

Source-to-sink dispersal of modern marine sediments in the Taiwan Strait and offshore southwestern  
Taiwan: Evidence from non-destructive analysis of physical properties

**#3 Nur Khatibah Md Yunus (Universiti Malaysia Terengganu, Malaysia)**

Colour variation of ceramic assemblages from the Bidong Shipwreck

**#4 Hsuan-Cheng Liu 劉軒誠 (National Taiwan Ocean University, Taiwan)**

Quantify Biogenic Sedimentary Proxies in Marine Sediments Using VIS-NIR Reflectance Spectra

**#5 Liang-Chi Wang 汪良奇 (National Chung Cheng University, Taiwan)**

(presented by Abdur Rahman)

Holocene Environmental Changes of Pinqing Lagoon, South China

**#6 Min-Chia Huang 黃敏嘉 (National Taiwan Ocean University, Taiwan)**

East Asian Monsoon Variability and Extreme Climatic Events Recorded in East China Sea Shelf  
Sediments Over the Past Two Millennia

**#7 Andi Suci Islameini Husain (National Chiayi University, Taiwan)**

Effects of Electrolyzed Water on Water Quality for Shrimp Culture in Controlled Environments

**#8 Shun-Wen Yu 俞舜文 (CPC Corporation, Taiwan)**

Sea level and climate controls on deep marine carbon accumulation – An example from a deep marine  
core in the lower Gaoping Slope

**#9 Hung-Lin Tsai 蔡宏霖 (National Taiwan Ocean University, Taiwan)**

Late Quaternary Monsoon Variability: Insights from Indo-Pacific Warm Pool Organic Biomarker  
Hydrographic Reconstructions with Time-Series Analysis Focused at the Precession Cycles

**#10 Yen-Cheng Liang 梁晏甄 (Freshwater Aquaculture Research Center, Fisheries Research  
Institute Ministry of Agriculture, Taiwan)**

Development of Two Photovoltaic On-Site Modules in Aquaculture Applications

**#11 Fujung Tsai 蔡富容 (Department of Marine Environmental Informatics, National Taiwan  
Ocean University, Taiwan)**

Influence of Indian Dust and Southeast Asian Biomass Burning on the East Asian Coastal Atmosphere

17:00

Invitation-only Banquet (Kodak Hotel)



Time	June 25 (Wednesday), 2025
08:00~08:30	Group pick up (invited speaker only) at Kodak Hotel and transport to NTOU
08:30~09:00	Registration (The Second Auditorium [第二演講廳], NTOU)
09:00~09:15	Meeting logistics
	<b><u>Session 5 (keynote)</u></b>
	<i>Chair: Fatin Izzati Minhat</i>
09:15~09:40	<b>Babu Nallusamy (Central University of Karnataka, India)</b> Amphistegina the Symbiont-bearing foraminifera dominant Island, Kavaratti, Lakshadweep Archipelago, India: Environment and Climate Indicators
09:40~10:05	<b>Fatin Izzati Minhat (Universiti Malaysia Terengganu, Malaysia)</b> Examining the Relationship Between Planktonic Foraminifera Preservation and Gypsum Deposition in the Deep Sea of Sarawak
10:05~10:30	Coffee Break
	<b><u>Session 6 Sea-Level and Marine Environmental Change</u></b>
	<i>Chair: Hafeez Jeofry &amp; Min-Te Chen</i>
10:30~10:50	<b>Hafeez Jeofry (Universiti Malaysia Terengganu, Malaysia)</b> Projections of 21st Century Sea Level Change in Southeast Asia: Insights from CMIP6 SSP3-7.0
10:50~11:10	<b>Thilina Munasinghe (National Sun Yat-sen University, Taiwan)</b> Deglacial Laminated Diatom Mats and Their Role in Shaping Western Pacific Bottom Water Redox Conditions Over the 18.4 ka BP
11:10~11:30	<b>Min-Te Chen 陳明德 (National Taiwan Ocean University, Taiwan)</b> Half-precessional dynamics of western equatorial Pacific temperature records: insight from biomarker proxies over the past 800 ka
11:30~11:50	<b>Jih-Pai Lin 林日白 (National Taiwan University, Taiwan)</b> Echinoid stratigraphy: biofacies and biostratigraphy
11:50~14:00	Lunch (lunch box)
	<b><u>Session 7 Marine Geology &amp; Marine Heritage</u></b>
	<i>Chair: Muhammad Afiq Md Ali &amp; Hasrizal Shaari</i>
14:00~14:20	<b>Muhammad Afiq Md Ali (Universiti Malaysia Terengganu, Malaysia)</b> Formation of a Highly Arcuate Trench During the Retreat of the Paleo-Pacific Subduction Zone
14:20~14:40	<b>Dony Adryansyah (Universiti Malaysia Terengganu, Malaysia)</b> Characteristics and Assessment of Rocky Coasts in Terengganu, Malaysia: A Geological Heritage Perspective
14:40~15:00	<b>Hasrizal Shaari (Universiti Malaysia Terengganu, Malaysia)</b> Ancient Shipwrecks: Evidence of the Past Active Trade in the South China Sea
15:00~15:20	<b>Hui-Juan Pan 潘惠娟 (National Taiwan Ocean University, Taiwan)</b> Illuminating Sunken Histories: Rapid VIS-NIR Spectroscopic Screening of Shipwreck Ceramics
15:20	Free Evening / Dinner on Your Own (at Keelung Night Market)