

WORKSHOP ON MARINE SCIENCE AND SUSTAINABLE DEVELOPMENT

Workshop Date: November 14-15, 2025

Location: University of Science, VNU-HCM

No. 227 Nguyen Van Cu Street, Cho Quan Ward, Ho Chi Minh City, Vietnam

DAY 1: NOVEMBER 14, 2025

SESSION 1: MARINE SCIENCE AND SUSTAINABLE DEVELOPMENT

Chairman: Prof. Piotr Zieliński, Dr. Le Dinh Mau

Time	Abstract's Title
08:00 – 08:45	REGISTRATION
08:45 – 09:00	OPENING CEREMONY <i>Tran Minh Triet</i> Vice President, University of Science, VNU.HCM, Vietnam
09:00 - 09:15	SAILING THROUGH SCIENCE: THE 20-YEAR JOURNEY OF OMH@HCMUS <i>Vo Luong Hong Phuoc</i> University of Science, VNU.HCM, Vietnam
09:15 - 09:30	FROM TAIWAN TO VIETNAM: ADVANCING COASTAL MONITORING WITH INDIGENOUS HF RADAR DEVELOPMENT <i>Hwa Chien</i> National Central University, Taiwan

09:30 - 09:45	GLOBAL TRENDS IN OCEANIC FRONTS: IMPLICATIONS FOR MARINE ECOSYSTEMS <u>Andrew Fischer</u> ^{1,2} , Kai Yang ^{1,2} , Phuc TD. Le ^{1,2} ¹ Institute for Marine and Antarctic Studies, University of Tasmania, Australia ² AMCSearch, University of Tasmania, Australia
09:45 - 10:00	NO DATA, NO STORY: HIGH-PRECISION MEASUREMENTS IN MARINE CHEMISTRY (DMS AS EXAMPLE) ~ SURVIVE AND ADVANCE IN ANY ENVIRONMENT <u>Sohiko Kameyama</u> Faculty of Environmental Earth Science, Hokkaido University, Japan
10:00 - 10:15	MACHINE LEARNING APPLICATIONS: CLASSIFICATION AND REGRESSION <u>Quoc Pham</u> Faculty of Natural Sciences, University of Silesia in Katowice, Poland
10:15 - 10:45	GROUP PHOTO TEABREAK

SESSION 2: MICROPLASTICS: FROM RESEARCH TO PREDICTION

Chairman: Prof. Sohiko Kameyama, Dr. Bui Thi Ngoc Oanh

Time	Abstract's Title
10:45 - 11:00	CHEMICALDRIFT - A NEW OPEN SOURCE OCEAN POLLUTION MODEL <u>Lars R. Hole</u> ¹ , <u>Manuel Aghito</u> ¹ , <u>Øyvind Breivik</u> ^{1,2} ¹ Norwegian Meteorological Institute ² Geophysical Institute, University of Bergen, Norway
11:00 - 11:15	SURFACE WATER CONTAMINATION WITH MICROPLASTICS IN POLAND: TRENDS AND CHALLENGES <u>Piotr Zieliński</u> , <u>Karolina Mierzyńska</u>

	Department of Environmental Protection, Faculty of Biology, University of Białystok, Poland
11:15 - 11:30	MICRO PLASTICS: CLASSIFICATION and PREDICTION <i><u>Vo Luong Hong Phuoc</u>¹, Piotr Zieliński², Sohiko Kameyama³, Lars R. Hole⁴, OMH group¹</i> ¹University of Science, VNU.HCM, Vietnam ²University of Białystok, Poland ³Hokkaido University, Japan ⁴Norwegian Meteorological Institute, Norway
11:30 - 11:45	DETECTION AND CLASSIFICATION OF MICROPLASTICS USING ARTIFICIAL INTELLIGENCE: CHALLENGES AND OPPORTUNITIES <i><u>Pham The Bao</u>¹, Le nhi Lam Thuy¹, Vu Ngoc Thanh Sang¹, Dat Trinh¹, Tran Quang Vinh¹, Dang Nguyen Quoc Duong¹, Tran Thi Chung², Le Nguyen Hoa Tien², Vo Luong Hong Phuoc²</i> ¹Saigon University, Vietnam ²University of Science, VNU.HCM, Vietnam
11:45 - 12:00	INTEGRATING AI AND GIS FOR FORECASTING SALTWATER INTRUSION IN HO CHI MINH CITY, VIETNAM UNDER CLIMATE CHANGE <i><u>Vo Thi Kim Kieu, Pham Thi Tuyet Huyen, Nguyen Kim Loi</u></i> Research center for climate change - Nong Lam university, Ho Chi Minh City, Vietnam
LUNCH	

SESSION 3: FLUVIAL AND COASTAL PROCESSES

Chairman: Prof. Andrew M. Fischer, Assoc. Prof. Dang Truong An

Time	Abstract's Title
13:00 – 13:30	POSTER DISCUSSION Prof. Ewa Łupikasza, Institute of Earth Sciences, University of Silesia in Katowice, Poland Dr. Vu Tuan Anh, Institute of Oceanography, VAST, Vietnam
13:30 - 13:45	FORMATION MECHANISM OF SAND BAR IN CUA DAI - THU BON RIVER MOUTH <i><u>Vu Tuan Anh, Nguyen Thi Thuy Dung</u></i> Institute of Oceanography, VAST, Vietnam
13:45 - 14:00	SUB-MESOSCALE FLOWS AND NEAR-INERTIAL MOTIONS IN THE MISSISSIPPI-ATCHAFALAYA RIVER PLUME IN THE GULF OF MEXICO <i>Pat Welch</i> Oregon State University, United States
14:00 - 14:15	WATER RESOURCE CHARACTERISTICS OF THE MEKONG DELTA: CURRENT STATUS, CHALLENGES, AND SUSTAINABLE MANAGEMENT SOLUTIONS <i>Tran Dang An</i> Thuyloi University, Vietnam
14:15 - 14:30	THE USE OF SAND ON A GLOBAL SCALE AND THE IMPACT TO THE MARINE ENVIRONMENT <i>Klaus Schwarzer</i> Kiel University, Germany
14:30 - 14:45	COASTAL PROTECTION STRATEGIES WITH NATURE-BASED SOLUTION FOR CLIMATE CHANGE ADAPTATION IN COASTAL MEKONG DELTA <i>Le Xuan Tu</i>

	Southern Institute of Water Resources Research, Vietnam
14:45 - 15:00	SHIFTING TIDAL DYNAMICS IN THE MEKONG DELTA: UNRAVELING THE ACCELERATION OF TIDAL AMPLIFICATION AND ITS ANTHROPOGENIC ROOTS <i>Nguyen Cong Thanh^{1,2}, Tran Van Xuan^{2,3}, Nguyen Nghia Hung⁴, Dang Truong An^{1,2}</i> ¹Department of Oceanology, Meteorology and Hydrology, University of Science, HCM City, Vietnam ²Vietnam National University, HCM City, Vietnam ³Department Petroleum Geology, Faculty of Geology and Petroleum Engineering, University of Technology, HCM City, Vietnam ⁴Center of Rural Technical Infrastructure Development, Southern Institute of Water Resources Research, HCM City, Vietnam
TEABREAK	
15:30 - 18:00	CELEBRATING THE 20TH ANNIVERSARY OF OCEANOLOGY, METEOROLOGY AND HYDROLOGY DEPT

DAY 2: NOVEMBER 15, 2025

FIELD TRIP

Time: 08:00 – 17:00

Location: Cangio mangrove biosphere reserve, HCM City, Vietnam