

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

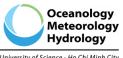
Chairman: Prof. Piotr Zieliński, Dr. Le Dinh Mau

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









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09:30 - 09:45	GLOBAL TRENDS IN OCEANIC FRONTS: IMPLICATIONS FOR MARINE
	ECOSYSTEMS
	Andrew Fischer 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
	Sohiko Kameyama
	Faculty of Environmental Earth Science, Hokkaido University, Japan
10:00 - 10:15	MACHINE LEARNING APPLICATIONS: CLASSIFICATION AND REGRESSION
	Quoc Pham
	Faculty of Natural Sciences, University of Silesia in Katowice, Poland
10:15 - 10:45	GROUP PHOTO
	TEABREAK

SESSION 2: MICROPLASTICS: FROM RESEARCH TO PREDICTION

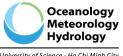
Chairman: Prof. Sohiko Kameyama, Dr. Bui Thi Ngoc Oanh

Time	Abstract's Title
10:45 - 11:00	CHEMICALDRIFT - A NEW OPEN SOURCE OCEAN POLLUTION MODEL
	<u>Lars R. Hole¹</u> , Manuel Aghito ¹ , Øyvind Breivik ^{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> , Karolina Mierzyńska







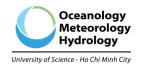


HO CHI MINH CITY	University of Science OMH@HCMUS University of Science - Ho Chi Minh City	
	Department of Environmental Protection, Faculty of Biology, University of	
	Białystok, Poland	
11:15 - 11:30	MICRO PLASTICS: CLASSIFICATION and PREDICTION	
	<u>Vo Luong Hong Phuoc¹,</u> Piotr Zieliński², Sohiko Kameyama³,	
	Lars R. Hole ⁴ , OMH group ¹	
	¹ University of Science, VNU.HCM, Vietnam	
	² University of Białystok, Poland	
	³ Hokkaido University, Japan	
	⁴ Norwegian Meteorological Institute, Norway	
11:30 - 11:45	DETECTION AND CLASSIFICATION OF MICROPLASTICS USING ARTIFICIAL	
	INTELLIGENCE: CHALLENGES AND OPPORTUNITIES	
	Pham The Bao ¹ , Le nhi Lam Thuy ¹ , Vu Ngoc Thanh Sang ¹ , Dat Trinh ¹ , Tran	
	Quang Vinh ¹ , Dang Nguyen Quoc Duong ¹ , Tran Thi Chung ² , Le Nguyen Hoa	
	Tien ² , Vo Luong Hong Phuoc ²	
	¹ Saigon University, Vietnam	
	² University 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	
	Vo Thi Kim Kieu, Pham Thi Tuyet Huyen, <u>Nguyen Kim Loi</u>	
	Research center for climate change - Nong Lam university, Ho Chi Minh City,	
	Vietnam	
LUNCH		









SESSION 3: FLUVIAL AND COASTAL PROCESSES

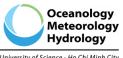
Chairman: Prof. Andrew M. Fischer, Assoc. Prof. Dang Truong An

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
	<u>Vu Tuan Anh</u> , Nguyen Thi Thuy Dung
	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
	Pat Welch
	Oregon State University, United States
14:00 - 14:15	WATER RESOURCE CHARACTERISTICS OF THE MEKONG DELTA: CURRENT
	STATUS, CHALLENGES, AND SUSTAINABLE MANAGEMENT SOLUTIONS
	Tran Dang An
	Thuyloi University, Vietnam
14:15 - 14:30	THE USE OF SAND ON A GLOBAL SCALE AND THE IMPACT TO THE MARINE
	ENVIRONMENT
	Klaus Schwarzer
	Kiel University, Germany
14:30 - 14:45	COASTAL PROTECTION STRATEGIES WITH NATURE-BASED SOLUTION FOR
	CLIMATE CHANGE ADAPTATION IN COASTAL MEKONG DELTA
	Le Xuan Tu









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

DAY 2: NOVEMBER 15, 2025

FIELD TRIP

Time: 08:00 - 17:00

Location: Cangio mangrove biosphere reserve, HCM City, Vietnam