



**THE INTERNATIONAL CONFERENCE ON
RESEARCH DEVELOPMENT AND
COOPERATION IN GEOPHYSICS
(VIET-GEOPHYS-2017)
19th-22nd October 2017, Hanoi, Vietnam**



**OPENING CEREMONY AND PLENARY PROGRAMME
Morning, Thursday - 19 October 2017
Venue: Main Hall of VAST, A1 Building**

Time	Contents
8h00 – 8h30	Registration
8h30 – 9h00	Welcome ceremony music
9h00 – 9h15	Opening remarks
9h15 – 9h35	Welcome speech on the 60th Anniversary of Vietnam officially joined the program "International Geophysical Year 1957-1958" and The 30th Anniversary of the Institute of Geophysics
9h35 – 9h45	Speech of directorate representative of the Vietnam Academy of Science and Technology
9h45 – 9h55	The announcement ceremony of receiving the Prime Minister's merit certificate to the Institute of Geophysics
9h55 – 10h15	The president of VAST awards Medal of Honors to international scientists who have wholeheartedly contributed to the success of IGP
10h15 – 10h20	Speech of the Director of the Institute of Geophysics
10h20 – 10h50	Group photo and coffee break
International Conference on Geophysics (plenary session with keynote talks)	
10h50 – 11h10	Estimation of changes in time of seismic hazard parameters <i>Prof. Stanislaw Lasocki</i> <i>Institute of Geophysics, Polish Academy of Sciences, Poland</i>
11h10 – 11h30	Lessons from the 2011 Great Tohoku-oki Earthquake: What is the role of science in natural disaster mitigation? <i>Prof. Takeshi Sagiya</i> <i>Nagoya University, Japan</i>
11h30 – 11h50	Dangerous biomass burning emissions in highly populated regions in Vietnam <i>Prof. Olga Popovicheva</i> <i>Lomonosov Moscow State University, Russia</i>
11h50 – 13h30	Lunch Break

PROGRAMME: SESSION 1
ATMOSPHERIC PHYSICS

Thursday – 19th October 2017

Venue: Main Hall of VAST, A1 Building

Session Chairman: Dr. Nguyen Xuan Anh and Assoc.Prof. Tang-Huang Lin

Time	Contents
13h30 – 16h00	Environmental remote sensing sub-session Chairman: Dr. Nguyen Xuan Anh and Assoc.Prof. Tang-Huang Lin
13h30 – 13h45	Assessment of cirrus cloud and aerosol radiative effect in South-East Asia by ground-based NASA MPLNET lidar network data and CALIPSO satellite measurements <i>Simone Lolli</i> <i>NASA-JCET/CNR-IMAA, Greenbelt, MD, USA</i>
13h45 – 14h00	Ionospheric electron density and scintillation observations using F3/COSMIC and FS7/COSMIC2 GPS/GNSS radio occultation data <i>Lung-Chih Tsai</i> <i>Center for Space and Remote Sensing Research, National Central University</i>
14h00 – 14h15	Overview of Seven Southeast Studies (7-SEAS) spring activities in the northern Southeast Asia <i>Neng-Huei Lin</i> <i>Department of Atmospheric Sciences, National Central University</i>
14h15 – 14h30	An overview of 7-SEAS/BASELInE in probing air quality and aerosol-cloud effects on the Southeast Asian environment <i>Si-Chee Tsay</i> <i>NASA Goddard Space Flight Center, Greenbelt, MD, USA</i>
14h30 – 14h45	Satellite Aerosol Optical Depth over Vietnam: an analysis from VIIRS and CALIOP aerosol products <i>Nguyen Thi Nhat Thanh</i> <i>Vietnam Nation University Hanoi, University of Engineering and Technology</i>
14h45 – 15h00	Investigation of high-temporal aerosol optical depth retrieving with Himawari-8 satellite data <i>Yuan-Hsiang Chang</i> <i>Center for Space and Remote Sensing Research, National Central University</i>
15h00 – 15h15	Coffee break
15h15 – 15h30	The Simulation of aerosol lidar developed at the Institute of Geophysics <i>Au Duy Tuan</i> <i>Institute of Applied Physics and Scientific Instrument, Vietnam Academy of Science and Technology</i>
15h30 – 15h45	Spectral and Spatial Information for Oil Spill Detection in Multispectral Imagery <i>Hsuan Ren</i> <i>Center for Space and Remote Sensing Research, National Central University</i>
15h45 – 16h00	Using Spaceborne Sensors to Assess the Impact of Reservoirs in the Upper Mekong River <i>Kuo-Hsin Tseng</i> <i>Center for Space and Remote Sensing Research, National Central University</i>
16h00 – 18h00	Weather and climate sub-session Chairman: Assoc. Prof. Chian-Yi Liu and Dr. Hiep Van Nguyen
16h00 – 16h15	Predictability of the rainy season onset in Central Highlands <i>Tan Phan-Van</i> <i>Hanoi University of Science, Vietnam National University</i>
16h15 – 16h30	Improving Typhoon Forecast from the Assimilation of Satellite Data <i>Chian-Yi LIU</i> <i>Center for Space and Remote Sensing Research, National Central University</i>
16h30 – 16h45	Evaluation and Applications of Rain Gauge and Satellite-based products in Vietnam <i>Thanh Ngo-Duc</i>

	<i>Department of Space and Aeronautic, University of Science and Technology of Hanoi, Vietnam Academy of Science and Technology</i>
16h45 – 17h00	Simulation of the Quang Ninh Heavy Rainfall Event during Jul 25th to Aug 3rd 2015 by WRF Model with a Wave-blending Technique <i>Hiep Van Nguyen</i> <i>Institute of Geophysics, Vietnam Academy of Science and Technology</i>
17h00 – 17h15	Simulation and prediction of summer monsoon climate over the Indochina Peninsula by RSM model <i>Nguyen Ngoc Bich Phuong</i> <i>Vietnam Institute of Meteorology, Hydrology and Climate Change</i>
17h15 – 17h30	A study on summer monsoon season and its rainfall characteristics over Southern Vietnam during the period 1981-2014 <i>Huong Ngo-Thi-Thanh</i> <i>Hanoi University of Science, Vietnam National University</i>
17h30 – 17h45	Evaluation of wind characteristics in Bac Lieu in 2016 using the Weibull function <i>Pham Xuan Thanh</i> <i>Institute of Geophysics, Vietnam Academy of Science and Technology</i>
17h45 – 18h00	Sensitivity evaluation of climate analogue patterns with varying weighting factor values of rainfall of some capital cities over the Southeast Asia <i>Tuyet Nguyen-Thi</i> <i>Vietnam Institute for Development Strategies, Ministry of Planning and Investment</i>
15h00 – 18h30	Poster Session
18h30 – 21h00	Welcome Banquet

PROGRAMME: SESSION 2
SEISMOLOGY AND EARTH'S INTERIOR STRUCTURE

Thursday – 19th October 2017

Venue: Meeting room in 10th floor, VAST Headquarter Building

Session Chairman: Prof. Stanislaw Lasocki and Prof. Takeshi Sagiya

Time	Contents
13h30 – 13h50	IS-EPOS e-platform of EPOS Thematic Core Service ANTHROPOGENIC HAZARDS – a virtual laboratory for collaborative research experimentation <i>B. Orlecka-Sikora</i> <i>Institute of Geophysics, Polish Academy of Sciences</i>
13h50 – 14h10	Vietnamese-Polish investigation of reservoir triggered seismicity -measurements and first conclusions <i>Jan Wiszniowski</i> <i>Institute of Geophysics, Polish Academy of Sciences</i>
14h10 – 14h30	The project CREATE: a long-term earth science cooperation of Vietnam and Taiwan <i>Bor-Shouh Huang</i> <i>Institute of Earth Sciences, Academia Sinica</i>
14h30 – 14h50	10-years collaboration of JAMSTEC and IGP, VAST in seismology and its achievements <i>Satoru Tanaka</i> <i>D-EARTH, JAMSTEC, Japan</i>
14h50 – 15h10	Japan national and global seismic hazard assessment <i>Ken X. Hao</i> <i>National Research Institute for Earth Science and Disaster Resilience (NIED)</i>
15h10 – 15h30	Development of a low-cost earthquake early warning system in Taiwan and its potential applications in Vietnam <i>Yih-Min Wu</i> <i>Department of Geoscience, National Taiwan University</i>
15h30 – 16h00	Coffee break
16h00 – 16:20	Rupture process of the 2014 Orkney earthquake, South Africa <i>Makoto Okubo</i> <i>Kochi University</i>
16h20 – 16h40	The development of IIA method and the application on the 1661 Luermen event <i>Tso-Ren Wu</i> <i>Institute of Hydrological and Oceanic Sciences, National Central University</i>
16h40 – 17h00	Increasing of gas bubbling at Wariishi flowing spring, before and after the 2014 Ontake volcano eruption <i>Fumiaki Kimata</i> <i>Tono Research Institute of Earthquake Sciences, ADEP, Japan</i>
17h00 – 17h20	Nonlinear site response during 2016 Meinong Taiwan earthquake <i>Kuo-Liang Wen</i> <i>Department of Earth Sciences, National Central University</i>
17h20 – 17h40	Urban seismic risk assessment and loss estimation in Vietnam <i>Nguyen Hong Phuong</i> <i>Institute of Geophysics, Vietnam Academy of Science and Technology</i>
17h40 – 18h00	Seismicity and its relationship with the recent active tectonic faults inside Laos territory <i>Dinh Van Toan</i> <i>Institute of Geological Sciences, Vietnam Academy of Science and Technology</i>
18h00 – 18h20	Microtremor characteristics in Hanoi city <i>Nguyen Tien Hung</i> <i>Institute of Geophysics, Vietnam Academy of Science and Technology</i>
15h30 – 18h30	Poster Session
18h30 – 21h00	Welcome Banquet

PROGRAMME: SESSION 3
GEODYNAMICS AND APPLIED GEOPHYSICS

Thursday – 19th October 2017

Venue: Meeting room in 8th floor, VAST Headquarter Building

Session Chairman: Prof. Krzysztof Kochanek and Assoc. Prof. Nguyen Van Giang

Time	Contents
13h30 - 14h00	Persistence of high waters as a factor of flood risk for embanked rivers <i>Krzysztof Kochanek</i> <i>Institute of Geophysics, Polish Academy of Sciences, Poland</i>
14h00 – 14h30	Polish-Vietnamese geophysical stations, Sa Pa and Phu Lien, of International Geophysical Year, 1957-1958 <i>Jerzy Bulik</i> <i>Head of Sa Pa geophysical station, Nov. 1957 – July 1958</i>
14h30 – 15h00	Modern monitoring system of hydropower plant based on seismic methods <i>Antonovskaya Galina</i> <i>N. Laverov Federal Center for Integrated Arctic Research, Russia</i>
15h00 – 15h30	3D direct inversion of gravity anomaly for determining Moho depth of Northern Vietnam and Gulf of Tonkin <i>Nguyen Nhu Trung</i> <i>Institute of Marine Geology and Geophysics, Vietnam Academy of Science and Technology</i>
15h30 – 16h00	Coffee break
16h00 – 16h30	Municipal solid waste landfill leachate study by geophysical and hydrological data <i>Nguyen Van Giang</i> <i>Institute of Geophysics, Vietnam Academy of Science and Technology</i>
16h30 – 17h00	A properties of a simple cellular automaton model generating long-tail distributions <i>Mariusz Bialecki</i> <i>Institute of Geophysics, Polish Academy of Sciences, Poland</i>
17h00 – 17h30	Interpretation of gravity anomaly data using the wavelet transform modulus maxima <i>Tin Duong Quoc Chanh</i> <i>Can Tho University, Vietnam</i>
17h30 – 18h00	Researching migration methods, entropy and energy diagram to process ground penetrating radar data <i>Van Nguyen Thanh</i> <i>Department of Geophysics, University of Science Ho Chi Minh City, Vietnam</i>
15h30 – 18h30	Poster Session
18h30 – 21h00	Welcome Banquet

PROGRAMME: SESSION 4
GEOMAGNETISM AND IONOSPHERE

Thursday – 19th October 2017

Venue: Meeting room in 3rd floor, A8 Building of IGP

Session Chairman: Prof. Brooks B. Ellwood and Dr. Le Huy Minh

Time	Contents
13h30 – 14h00	Standards in geology: serious problems with the GSSP concept; and an example of a Permian–Triassic boundary fix at Lung Cam, Vietnam <i>Brooks B. Ellwood</i> <i>Department of Geology and Geophysics, Louisiana State University, USA</i>
14h00 – 14h30	The paleoclimate in Conmoong cave, Vietnam <i>Luu Thi Phuong Lan</i> <i>Institute of Geophysics, Vietnam Academy of Science and Technology</i>
14h30 – 15h00	Comparison between IRI-2012 model and F2 peak parameters in Vietnam during different solar activity periods <i>Pham Thi Thu Hong</i> <i>Institute of Geophysics, Vietnam Academy of Science and Technology</i>
15h00 – 15h30	Coffee break
15h30 – 16h00	Continuous GPS network and some results of study on the ionosphere and the crustal motion in the Southeast Asian region <i>Le Huy Minh</i> <i>Institute of Geophysics, Vietnam Academy of Science and Technology</i>
16h00 – 16h30	The location of magnetic equator in Vietnam and discovery journey <i>Hoang Trong Ly</i> <i>Vietnam Association of Geophysicists, Vietnam</i>
16h30 – 17:00	The results of deep sounding magnetotelluric for studying the Nha Trang - Tanh Linh fault <i>Vo Thanh Son</i> <i>Institute of Geophysics, Vietnam Academy of Science and Technology</i>
15h00 – 18h30	Poster Session
18h30 – 21h00	Welcome Banquet