

OFFICIAL PROGRAM
THE SECOND INTERNATIONAL CONFERENCE
Scientific Research Cooperation between Vietnam and Poland in Earth Sciences
05th – 06th of November 2015
Hanoi, Vietnam

A. First day: 05th of November 2015

8:00 - 8:30 Welcome guest and Registration
Conference Hall 300, Hanoi University of Mining and Geology, Duc Thang ward, Bac Tu Liem district, Hanoi.

Opening Ceremony and Plenary Session (8:30 - 12:00)

Chairman: Assoc. Prof., Dr. Nguyen Quang Minh

Venue: Conference Hall 300, Hanoi University of Mining and Geology, Duc Thang ward, Bac Tu Liem district, Hanoi.

- 8:30 - 8:40 **Introduction by Assoc. Prof. Dr. Nguyen Quang Minh - Head of International Cooperation Office, Hanoi University of Mining and Geology (HUMG)**
- 8:40 - 9:00 **Welcoming speech delivered by H.E. Barbara Szymanowska - Ambassador of Poland to Vietnam.**
- 9:00 - 9:15 **Speech by Prof. Zbigniew Kąkol - Vice Rector of AGH University of Science and Technology (AGH UST)**
- 9:15 - 9:30 **Opening speech by Assoc. Prof. Dr. Le Hai An - Rector of Hanoi University of Mining and Geology (HUMG)**
- 9:30 - 9:50 Sport, Culture and Student life - possibilities of cooperation.
Prof. Anna Siwik - Vice-Rector, AGH UST
- 9:50 - 10:10 Hanoi University of Mining and Geology: Autonomy - Innovation - High quality
Assoc. Prof. Dr Tran Thanh Hai, Assoc. Prof. Dr. Nguyen Quang Minh - HUMG
- 10:10 - 10:40 Coffee Break**
- 10:40 - 11:00 Education of personnel for the mining industry of Vietnam at the Faculty of Mining and Geoen지니어ing AGH University of Science and Technology in Krakow
Assoc. Prof. Krzysztof Broda, AGH UST
- 11:00 - 11:30 Speech titled: Policies, Strategies and Models for Online and Distance Learning at the AGH University of Science and Technology
Prof. Zbigniew Kąkol - AGH UST
- 11:30 - 12:00 Co-operation between the Faculty of Physics and Applied Computer Science of the AGH University of Science and Technology (AGH-UST) in Kraków (Poland) with the University of Mining and Geology (UMG) in Hanoi (Vietnam)
Prof. Nguyen Dinh Chau, Prof. Janusz Wolny, AGH UST
- 12:00 - 13:30 Lunch**

Session VP-01: Geology (13:30 - 15:20)

Chairmen: *Dr Nguyen Dai Trung, Prof. Jan Golonka*

Venue: Conference Room 309, 3rd floor, C Building, Hanoi University of Mining and Geology, Duc Thang ward, Bac Tu Liem district, Hanoi.

- 13:30 - 13:50 Reseaching on the engineering geological characteristics of soft soil amQ22-3 distributed in the coastal provinces of the mekong delta for construction of the road
Dr. Nguyen Thi Nu, HUMG
- 13:50 - 14:10 Paleogeographic significance of peri-Gondwanian plates in the SE Asia
Prof. Jan Golonka, AGH UST
- 14:10 - 14:30 Assessment of the role of active tectonics on coastal erosion in Cua Dai river outlet and adjacent areas
Assoc. Prof. Dr Tran Thanh Hai, Hoang Ngo Tu Do - HUMG
- 14:30 - 14:50 Recent tectonic activity of Muong La-Bac Yen fault zone-dating the sheared quarternary sediments at It Ong area (Muong La, Son La)
Dr. Nguyen Dai Trung, VIGMR
- 14:50 - 15:10 The Vietnamese-Polish cooperation possibility: the rare earth elements
Prof. Jan Golonka, AGH UST
- 13:30 - 17:00 Poster display**
- 15:10 - 15:20 **Coffee Break**

Session VP-04: Mining and Electro-Mechanics (15:20 - 17:00)

Chairmen: *Prof. Miroslaw Karbowniczek, Dr. Nguyen Thac Khanh*

Venue: Conference Room 309, 3rd floor, C Building, Hanoi University of Mining and Geology, Duc Thang ward, Bac Tu Liem district, Hanoi.

- 15:20 - 15:40 Maximized-Torque Field Weakening Algorithm for Direct Rotor Flux Oriented control of traction drive with induction motor
Dr. Nguyen Thac Khanh, HUMG
- 15:40 - 16:00 Modern technologies for steel production.
Prof. Miroslaw Karbowniczek, AGH UST
- 16:00 - 16:20 Permanent magnet BLDC Motor designs with skewing for torque ripple and cogging torque reduction
Dr. Bui Minh Dinh, HUST
- 16:20 - 16:40 Electronic structure "engineering" in the development of materials for Li-ion and Na-ion batteries
Prof. Janina Molenda, AGH UST
- 16:40 - 17:00 Impact of power harmonics on power factor correction capacitor banks in Quang Ninh underground coalmines' 6kV grid
Dr. Le Xuan Thanh, HUMG
- 13:30 - 17:00 Poster display**
- 19:00 Welcoming party**

B. Second day: 06th of November 2015

Session VP-03: Geophysics (08:30-12:00)

Chairmen: Prof. Nguyen Van Giang, Prof. Zbigniew Kąkol

Venue: Conference Room 309, 3rd floor, C Building, Hanoi University of Mining and Geology, Duc Thang ward, Bac Tu Liem district, Hanoi.

- 8:30 - 8:50 Researching the procedures for survey and assessment of the radioactive environmental impacts due to mining and processing ores at the Sin Quyen cooper mine, Lao Cai province HUMG
Prof. Le Khanh Phon, HUMG
- 8:50 - 9:10 Total Organic Carbon from well logging in shale gas and tight formations
Prof. Jadwiga Jarzyna, AGH UST
- 9:00 - 9:20 The Investigations of contaminant spread around the landfills by geophysical techniques - Application to Dong Thanh and Nam Son waste sites, Vietnam
Prof. Nguyen Van Giang, VAST
- 9:20 - 9:40 Magnetic susceptibility and paleoclimate at Hang Moi, Trang An, Ninh Binh
Dr. Luu Thi Phuong Lan, VAST
- 9:40 - 10:00 Rare Earth, radioactive and selected elements in the iron oxide copper gold Sin Quyen deposit in North Vietnam
Assoc. Prof. Jadwiga Pieczonka, AGH UST
- 10:00 - 10:20 Coffee Break**
- 10:20 - 10:40 How growing site and petrophysical properties of natural magnetite are correlated
Prof. Zbigniew Kąkol, AGH UST
- 10:40 - 11:00 Characteristic of subsurface focused-fluid flow in sedimentary basins from 3D seismic data
Dr. Le Ngoc Anh, HUMG
- 11:00 - 11:20 The occurrence and utilization of the Polish Carpathian mineral and therapeutic waters
Prof. Nguyen Dinh Chau, AGH UST
- 11:20 - 11:40 Hydrogeophysical technique – successful tool for aquifer locating and monitoring in North Hanoi area
Prof. Nguyen Van Giang, VAST
- 11:40 - 13:30 Lunch**
- 8:30 - 11:40 Poster display**

Session VP-02: Geomatics and Mapping (13:30-17:00)

Chairmen: Prof. Nguyen Quang Minh, Dr. Jerzy Ziętek

Venue: Conference Room 309, 3rd floor, C Building, Hanoi University of Mining and Geology, Duc Thang ward, Bac Tu Liem district, Hanoi.

- 13:30 - 13:50 Few methods to smooth the code pseudo-range observation for improving the accuracy of satellite positioning problems
Dr. Nguyen Gia Trong, HUMG
- 13:50 - 14:20 An Application of the crossover adjustment technique for processing of altimetry data in the East Sea
Dr. Nguyen Van Sang, HUMG
- 14:20 - 14:40 GPR surveys of historical buildings and heritage sites- selected examples
Dr. Jerzy Ziętek, AGH UST
- 14:40 - 15:00 Validation of recent GRACE/GOCE Global Geopotential Models over the area of Vietnam
MSc. Bui Khac Luyen, HUMG
- 15:00 - 15:20 **Coffee Break**
- 15:20 - 15:40 Tectonic movements of the Red River fault monitored by GPS/GNSS technology
MSc. Nguyen Viet Nghia, HUMG
- 15:40 - 16:00 Programming for 3d citygml data establishment from surveying data
Prof. Nguyen Quang Minh, HUMG
- 16:00 - 16:20 Research and application virtual reference system (VRS) of horizontal position in bathymetry
Dr. Nguyen Viet Ha, HUMG
- 16:20 - 16:40 Cycle slip detection for observation data of single frequency and double frequency receiver
Prof. Dang Nam Chinh, HUMG
- 16:40 - 17:00 An investigation of predictability of dynamic subsidence trough caused by underground mining using Knothe time function in Vietnam
Dr. Nguyen Quoc Long, HUMG
- 13:30 - 17:00 Poster display**
- 18:00 Farewell party**