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Shimane University



• UNESCO Chair on
• Geoenvironmental Disaster Reduction,
• Shimane University, Matsue, Japan

18 February 2019

**UNESCO Chair 2019 Field School on Geoenvironmental Disaster Reduction
in Shimane University, Japan**

Time: 14-18 March 2019

Venue: Matsue Campus, Shimane University, Japan

Schedule:

13 March 2019: arrival in Matsue, icebreaking reception (River View Restaurant)

14 March 2019: field work in UNESCO World Heritage site: Iwami Silver Mine, for geology and mine, active fault (Stay in mountain hotel Sanbe-So with hot spa)

Departure time: 8:30 from your hotel

15 March 2019: field work around Mt. Sanbe, the only one active volcano in Shimane Prefecture: Eruptive record, depositional processes and associated hazards from a large Stratovolcano.

The following lecture will be given in the field work, if possible.

Eruptive record, depositional processes and associated hazards from large Stratovolcanoes in the Sanin region

Prof. Andreas Auer (Shimane University, Japan)

Prediction of long runout and rapid landslides

Prof. Fawu Wang (Shimane University, Japan)

16 March 2019: Opening Ceremony and lectures, welcome party (Yuushien Flower Park)

17 March 2019: Half day lectures in the morning, half day field work in the afternoon for flooding control and management along Hiigawa River

18 March 2019: Lectures, closing ceremony and farewell party (Robata Kaba Matsue Restaurant)

19 March 2019: leaving Matsue



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Program of the ceremonies and lectures

16 March 2019

Location: Room 210, Building No.3 of Faculty of Science and Engineering, Shimane University

9:00-9:30 Opening ceremony and group photo

Welcome speech by Mr. Yasunao HATTORI, President of Shimane University, Japan

Greeting speech by Mr. Mitsuhiro IKEHARA, Deputy Director-General for International Affairs, Ministry of Education, Culture, Sports, Science and Technology (MEXT) / Senior Deputy Secretary-General, Japanese National Commission for UNESCO

Opening speech by Mr. Miguel CLÜSENER-GODT, Director, Division of Ecological and Earth Sci., UNESCO

Lecture 1 (9:30-10:30)

- 1) Rockslides and rock avalanches in Central Asia: study of past events for better assessment of future hazards**

Alexander Strom (Geodynamics Research Center - branch of JSC "Hydroproject Institute")

Lecture 2 (10:45-12:00)

- 2) A new technology for prediction and monitoring of landslides**

Prof. Manchao He (China University of Mining Technology; Academician of the Chinese Academy of Sciences)

Lunch (12:00-13:00)

Lecture 3 (13:00-14:15)

- 3) Landslide monitoring and early warning at the basin scale**

Prof. Filippo Catani (Florence University, Italy)

Lecture 4 (14:30-15:45)

- 4) Modelling of flowslides and debris avalanches in natural or engineered slopes**

Prof. Sabatino Cuomo (Salerno University, Italy)

Lecture 5 (16:00-17:15)

- 5) Engineering Seismology, seismic noise measurements and seismological applications on volcanoes and**



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landslides

Dr. Léna Cauchie (Liege University, Belgium)

Welcome party (18:30-20:30) Yuushien Flower Park

17 March 2019

Lecture 6 (8:30-9:15)

6) Geo-disasters induced by the recent earthquakes in the world

Prof. Masakatsu Miyajima (Kanazawa University, Japan)

Lecture 7 (9:30-10:45)

7) Marine engineering geology: in-situ test and long term observation

Prof. Yonggang Jia, Prof. Hongxian Shan (Ocean University of China)

Lecture 7 (11:00-11:45)

8) Environmental geology and engineering geology problems in permafrost regions of Eastern China under the background of climate change

Prof. Wei Shan, Prof. Ying Guo (Northeast Forest University, China)

Introduction to the field work (11:45-12:00)

Introduction of the flooding control project along Hiikawa River

Prof. Tetsuya Sakai (Shimane University, Japan)

Lunch (12:00-12:45)

Field work on Flooding control and management

Departure time: 12:45 from the main gate of Shimane University

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Lecture 9 (8:30-10:00)

9) Landslide disaster reduction in Loess area, China



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Prof. Tonglu Li (Chang'an University, China)

Lecture 10 (10:15-11:45)

10) Advanced Seismic Designs of Buildings in Japan -Seismic Isolation and Response Control Method -

Prof. Yutaka Nakamura (Shimane University, Japan)

Lunch (11:45-12:45)

Lecture 11 (12:45-14:15)

11) Landslide investigations in natural and cultural heritage sites in Peru

Prof. Vit Vilímek (Charles University in Prague, Czech Republic)

Lecture 12 (14:30-16:00)

12) Reconstruction of paleo-tsunamis hydrodynamic characteristics from the magnetic properties of their deposits

Prof. Patrick Wassmer (Université de Strasbourg, France)

Lecture 13 (16:15-17:45)

13) The implementation of an international standard for multi-disasters early warning system

Prof. Teuku Faisal Fathani (Universitas Gadjah Mada, Indonesia)

Closing ceremony (18:00-18:30)

Farewell party (19:00-20:30)

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Scientific Committee:

Prof. Andreas Auer (Shimane University, Japan)

Prof. Filippo Catani (Florence University, Italy)

Dr. Léna Cauchie (Liege University, Belgium)

Prof. Sabatino Cuomo (Salerno University, Italy)

Prof. Teuku Faisal Fathani (Universitas Gadjah Mada, Indonesia)

Prof. Ying Guo (Northeast Forest University, China)

Prof. Manchao He (China University of Mining Technology)

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Prof. Patrick Wassmer (Université de Strasbourg, France)

Organizing Committee:

Andreas Auer , Atsushi Kamei, Tetsuya Kogure, Hideki Mukoyoshi, Yutaka Nakamura , Tetsuya Sakai, Fawu Wang



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Map showing the sites of the UNESCO Chair field school 2019 in Shimane University