



United Nations
Educational, Scientific and
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Shimane University



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

2020-2-5 Version

UNESCO Chair 2020 Field School on Geoenvironmental Disaster Reduction in Shimane University, Japan

Time: 10-15 February 2020

Venue: Matsue Campus, Shimane University, Japan

Schedule:

09 February 2020: Arrival in Matsue, icebreaking reception (19:00-21:00, CL2 Coffee)

https://r.gnavi.co.jp/plan/ff63fvrp0000/plan-reserve/plan/plan_list/:c3?gorp=1&sc lid=plan_list_title#wrapper

10 February 2020: Opening Ceremony and lectures, welcome party

11 February 2020: Field work in UNESCO World Heritage site: Iwami Silver Mine, for geology and mine, active fault

12 February 2020: Field work around Mt. Sanbe, the only one active volcano in Shimane Prefecture

13 February 2020: Lectures (Shimane University)

14 February 2020: Half day lectures in the morning, half day field work in the afternoon for flooding control and management along Hiigawa River

15 February 2020: Lectures, closing ceremony and farewell party

16 February 2020: Leaving Matsue





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Program (draft)

10 February 2020

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

- **Opening ceremony and group photo (10:30-11:00)**
 - Introduction of the guests and visiting professors by Fawu Wang**
 - Welcome speech by Dr. Yasunao Hattori, President of Shimane University, Japan**
 - Speech by Mr. Masaya Sasaki, the representative from UNESCO**
 - Speech by Mr. Fumiyasu Hirashita, representative from Japanese National Commission for UNESCO**

- **Lecture 1 (11:00-12:15)**
 - Analysis of hazard and risk on cultural heritage environment**
 - Prof. Sandro Moretti (Department of Earth Sciences, University of Florence, Italy)

- **Lunch Time (12:15-13:30)**

- **Lecture 2 (13:30-14:45)**
 - Reconstruction past volcanic eruptions through an interdisciplinary approach**
 - Prof. Franck Lavigne (Geography Department, University Paris 1 Panthéon-Sorbonne, France)

- **Lecture 3 (15:00-16:15)**
 - Technological Innovation for disaster mitigation and implementation of multi-disasters early warning system**
 - Prof. Teuku Faisal Fathani (Universitas Gadjah Mada, Indonesia)

- **Lecture 4 (16:30-17:30)**
 - Landslide motion simulation and motion mechanism of landslides triggered by earthquakes**
 - Prof. Fawu Wang (Department of Earth Science, Shimane University, Japan)

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



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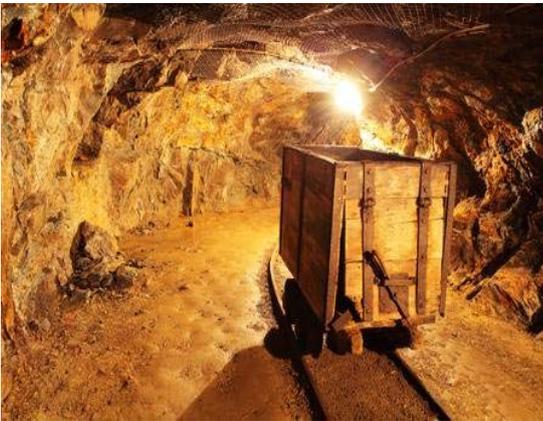


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11 February 2020

➤ Field Work in Iwami Ginzan World Heritage

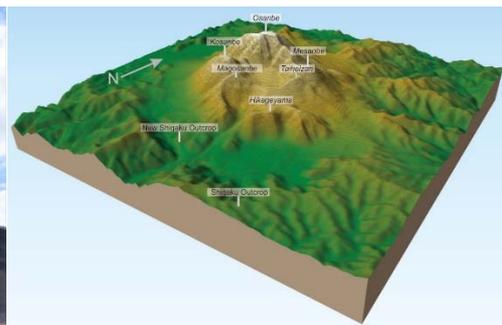
- Stop 1 – Iwami-Ginzan Silver Mine
- Stop 2 – Fault Surface Features around the Iwami-Ginzan Silver Mine



12 February 2020

➤ Field Work in Mt. Sanbe Volcano National Park

- Stop 1 – Kakeya Outcrop
- Stop 2 – Shigagu Outcrop
- Stop 3 – New Shigagu Outcrop
- Stop 4 – Azukihara – Buried Forrest
- Stop 5 – Oda City





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13 February 2020

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

- **Lecture 5** (8:30-9:10)
Tsunami deposit survey: Methodology and Analysis
Prof. Tetsuya Sakai (Shimane University, Japan)
- **Lecture 6** (9:20-10:35)
General introduction to natural hazards and risks
Prof. Vit Vilimek (Charles University in Prague, Czech Republic)
- **Lecture 7** (10:45-12:00)
Debris flows and drifted wood in mountain areas
Prof. Christopher Gomez (Kobe University, Japan)
- **Lunch Time** (12:15-13:15)
- **Lecture 8** (13:15-14:30)
Towards a social science framework for assessing and preparing the communities and authorities in geological hazard-prone areas
Prof. Julie Morin (Laboratoire Magmas et Volcans, Campus des C, France)
- **Lecture 9** (14:45-16:00)
Eruptive record, depositional process and associated hazards from large Stratovolcanoes in the Sanin region
Dr. Andreas Auer (Shimane University, Japan)
- **Free Time** (16:00-)



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14 February 2020

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

• **Lecture 10 (8:30-10:00)**

Initiatives for landslide risk management in Nepal with community-level disaster mitigation mindset

Prof. Ranjan Kumar Dahal (Tribhuvan University, Nepal)

• **Lecture 11 (10:15-11:30)**

Introduction of the flooding control project along Hiikawa River (11:30-12:00)

Prof. Tetsuya Sakai (Shimane University, Japan)

Free time (11:30-12:00)

▪ **Lunch Time (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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15 February 2020

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

- **Lecture 12 (8:30-9:45)**
Geo-disasters induced by the recent earthquakes in the world
Prof. Masakatsu Miyajima (Kanazawa University, Japan)

- **Lecture 13 (9:45-11:00)**
Empirical thresholds for rainfall-induced landslides and recent developments; design discharge estimation and flood modelling
Prof. Nejc Bezak (University of Ljubljana, Slovenia)

- **Lecture 14 (11:00-12:15)**
Review on seismic isolation and response control methods of buildings
Prof. Yutaka Nakamura (Shimane University, Japan)

- **Lunch Time (12:15-13:15)**

- **Student Group Working and Presentation Performance (13:15-17:00)**

- **Closing Ceremony (17:00-17:30)**
Certificates for participation to the Field School
Best Group Performance Award
Closing Speech by Prof. Akira Deguchi, the Vice President of Shimane University

- **Farewell party (18:30-20:30): AA Restaurant (Will be fixed soon)**



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▪ **Scientific Committee:**

Dr. Andreas Auer (Shimane University, Japan)

Prof. Nejc Bezak (University of Ljubljana, Slovenia)

Prof. Sabatino Cuomo (Salerno University, Italy)

Prof. Ranjan Kumar Dahal (Tribhuvan University, Nepal)

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

Prof. Christopher Gomez (Kobe University, Japan)

Prof. Franck Lavigne (Geography Department, University Paris 1 Panthéon-Sorbonne, France)

Prof. Masakatsu Miyajima (Kanazawa University, Japan)

Prof. Sandro Moretti (Department of Earth Sciences, University of Florence, Italy)

Dr. Julie Morin (University Clermont Auvergne, France)

Prof. Yutaka Nakamura (Shimane University, Japan)

Prof. Tetsuya Sakai (Shimane University, Japan)

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

Prof. Fawu Wang (Shimane University, Japan)

▪ **Organizing Committee:**

Andreas Auer, Zili Dai, Atsushi Kamei, Tetsuya Kogure, Hideki Mukoyoshi, Yutaka Nakamura, Tetsuya Sakai, Yuko Serikawa, Fawu Wang





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■ **Annex:** Map showing the sites of the UNESCO Chair field school 2020 in Shimane University

