

NERA SEISMOLOGY@SCHOOL 2014 COURSE PROGRAM

Program

**Hes-so Valais-Wallis
Aula François- Xavier Bagnoud
Sion, 20-24 October 2014**

SUNDAY – October 19, 2014

Transportation from Sion train- station until “Hôtel Chalet Royal” in Veysonnaz

18.00 : Welcome

19.30 : Registration

20.00 : Dinner “Hôtel Chalet Royal ” restaurant



MONDAY – October 20, 2014

9.00: Welcome and Introduction

François Seppey, Director of the Hes-so Valais

Stefan Wiemer, Director of the SED

Session 1: Introduction in Seismology and Geodynamics

9.30: Earthquakes and waves.

Prof. Stefan Wiemer, Director of the SED, ETH Zürich, Switzerland.

10.30: Evolution of plate tectonics and Seismology.

Prof. Jean-Pierre Burg, ETH Zürich, Switzerland

11.30: Coffee Break

12.00: How Earthquakes occur ?

Prof. Jean-Pierre Burg, ETH Zürich, Switzerland

13.00: Lunch break Hes-so restaurant

Session 2: Bringing seismology into the classroom

14.00: Data, picking waves, earthquake localization, tectonic.

Dr. Stefano Solarino, INGV, Italy

15.00: Classroom hands-on activities

Dr. Joseph Moerschell, Hes-so, Switzerland

(Gr. A : Seismic instruments)

15.00: Classroom hands-on activities

Dr. Jean-Luc Berenguer, CIV Valbonne, France

(Gr. B : Modeling earthquake, using data modeling)

15.00: Classroom hands-on activities

Dr. Paul Denton, British Geological Survey, UK

(Gr. C : Modeling earthquake, seismic signal processing)

16.30: Coffee Break

17.00: Classroom hands-on activities

Dr. Joseph Moerschell, Hes-so, Switzerland

(Gr. B : Seismic instruments)

17.00: Classroom hands-on activities

Dr. Jean-Luc Berenguer, CIV Valbonne, France

(Gr. C : Modeling earthquake, using data modeling)

17.00: Classroom hands-on activities

Dr. Paul Denton, British Geological Survey, UK

(Gr. A : Modeling earthquake, seismic signal processing)

19.00: Dinner Hes-so restaurant



TUESDAY- October 21, 2014

Session 3: Observation, measurements and natural hazard

9.00: From site effects to induced phenomena: liquefaction and triggered landslides

Prof. Donat Fäh, ETH Zürich, Switzerland

10.00: From site effects to induced phenomena: liquefaction and triggered landslides

Prof. Donat Fäh, ETH Zürich, Switzerland

11.00: *Coffee Break*

11.30: Seismic risk in Alpine structure

Dr. Stefano Solarino, INGV, Italy

12.30: *Lunch break Hes-so restaurant*

Session 4: Bringing seismology into the classroom

14.00: Seismology@School : The European experience, now and future

Dr. Paul Denton, British Geological Survey, UK

15.00: Classroom hands-on activities

Dr. Joseph Moerschell, Hes-so, Switzerland

(Gr. C : Seismic instruments)

15.00: Classroom hands-on activities

Dr. Jean-Luc Berenguer, CIV Valbonne, France

(Gr. A : Modeling earthquake, using data modeling)

15.00: Classroom hands-on activities

Dr. Paul Denton, British Geological Survey, UK

(Gr. B : Modeling earthquake, seismic signal processing)

16.30: *Coffee Break*

16.00 - 19.30 : CPPS experiments and shaking table

Dr. Anne Sauron, ETH Zürich and Hes-so, Switzerland

Open public Conference:

Aula François- Xavier Bagnoud

17.00: François Seppey: CPPS Introduction

Director of the engineer school: Hes-so Valais -Wallis

17.30: Jean-Marie Cleusix: CPPS and EPFL campus

Head of department of Education and Security.

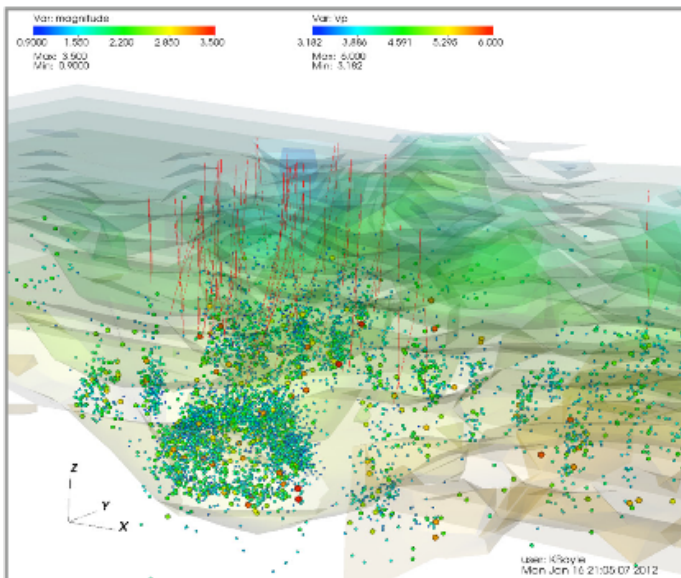
17.45: Marcel Maurer : EPFL campus and Sion

President of the City of Sion

18.00: Seismic risk and geothermal energy

Prof. Domenico Giardini, ETH Zürich, Switzerland

19.30: Aperitif-dinner Hes-so restaurant



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INVITATION


Conférence


"Seismic risk and geothermal energy"


Prof. Domenico Giardini
ETH Zürich


Mardi 21 Octobre 2014
17h
Aula François-Xavier-Bagnoud
Rte du Rawyl , 1950 Sion



 SED
Schweizerischer Erdbebendienst
Swiss Seismological Service


 Hes-so VALAIS WALLIS


 NERA


 ETH zürich


 Seismo at School



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WEDNESDAY October 22, 2014

Session 5: Seismic Risk Mitigation

9.00: Defeating Earthquakes: How to build ?

Prof. Bozidar Stojadinovic, ETH Zürich, Switzerland

10.00: Expected Earthquakes and Seismic Risk Mitigation in Palestine

Prof. Jalal Al Dabbeek, UPDRR, Palestine

11.00: *Coffee Break*

11.30: Community Earthquake Preparedness and Disaster Education in Turkey

Assoc.Prof.Dr Gülüm Tanircan, Bogazici University, KOERI, Istanbul, Turkey

12.30: *Lunch break Hes-so restaurant*

Session 6: Bringing seismology into the classroom

14.00: Community Earthquake preparedness and response for a Kibbutz (Sde Eliahu)

Dr. Gilles Hillel Wust-Bloch, TAV, Israel

15.00: Micro-earthquakes and their applications

Dr. Marianne Marot, Géo-azur Sophia-Antipolis, France

16.00: *Coffee Break*

16.30: Experiments, posters, made by teachers and/or students

19.00: *Dinner Hes-so restaurant*



THURSDAY October 23, 2014

Session 7: Seismic Risk Assessment

9.00: The role of numerical simulations on hazard and risk assessment

Dr. Luis A. Dalguer, Swissnuclear, Switzerland

10.00: Extreme consequences of earthquakes:

Dr. Arnaud Mignan, ETH Zürich, Switzerland

11.00: *Coffee Break*

11.30: Earthquake risk in building codes and beyond

Dr. Blaise Duvernay, BAFU, Switzerland

12.30: *Lunch break Hes-so restaurant*

Session 8: Teachers' projects

14.00: Earthquake risk in building codes and beyond

Dr. Roberto Peruzzi, Bureau d'ingénieurs civils Kurmann & Cretton SA, Switzerland

15.00: Seismology@school network, 'staying in touch'

Dr. Paul Denton, British Geological Survey, UK

16.00: *Coffee Break*

16.30: Teachers projects

Caroline, Ian and Gordon, British Geological Survey, UK

17.30: *Visit of Sion Old town*

19.30: *Visit cave of vine in Wallis and Diner*

FRIDAY October 24, 2014

Session 9: Field trip

9.00: Field trip departure:

This field trip aims to discuss the structure of the Alps in the area of Sion (Valais, Suisse).

Prof. Jean-Luc Epard, University of Lausanne, Switzerland

Special emphasis will be placed on brittle structures such as faults. Several faults can be observed or postulated in the area.

Their history can be long and complex. Some are probably in relation to deposition of sediments during the Mesozoic or Cenozoic others are related to the Alps formation. Some sets could be very young in the Alpine kinematics and are compatible with the present day stress regime.

Consequences of the 1946 Sierre earthquake will be examined.

If weather conditions are good enough, a visit to the “Six des Eaux Froides” rock falls and to the nearby Tseuzier dam site is planned.

13.00: Lunch break picnic

17: Return

18.00: Seismology@school network, ‘staying in touch’

Dr. Paul Denton, British Geological Survey, UK

18.30: Evaluation session and closure

19.00 Dinner “Hôtel Chalet Royal” restaurant

