

SEISMOLOGY@SCHOOL COURSE PROGRAM

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

Preliminary program

MONDAY – October 20, 2014

8.30: Registration

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

Stefan Wiemer, Director of the SED

10.30: Coffee Break

11.00: Evolution of plates tectonic and Seismology

J.P Burg, ETH Zürich

12.00: How Earthquakes occur?

J.P Burg, ETH Zürich

13.00: Lunch break

Session 2: Bringing seismology into the classroom

14.00: Seismology@School : Data, picking waves, earthquake localization, tectonic

?????

15.00: Hands-on activities for the classroom (Gr. A part I: seismic instruments)

Joseph Moerschell

15.00: Hands-on activities for the classroom (Gr. B part II: seismic risk)

Stefano Solarino

15.00: Hands-on activities for the classroom (Gr. C part III modeling earthquake, using data modeling)

Jean-Luc Berenguer

15.00: Hands-on activities for the classroom (Gr. D part IV: modeling earthquake, seismic signal processing)

Paul Denton

16.30: Coffee Break

17.00: Hands-on activities for the classroom (Gr. B part I: seismometer, accelerometer)

Joseph Moerschell

17.00: Hands-on activities for the classroom (Gr. A part II: seismic risk)

Stefano Solarino



17.00: Hands-on activities for the classroom (Gr. D part II: modeling earthquake)

Jean-Luc Berenguer

17.00: Hands-on activities for the classroom (Gr. C part II: modeling earthquake)

Paul Denton

18.30: Dinner break

20.30: "Teachers project" and Webplatform

TUESDAY- October 21, 2014

Session 3: Observation, measurements and natural hazard

9.00: Geodynamics and seismology- Alpine structure

E. Kissling

10.00: Seismic risk in Alpine structure –(examples: Wallis- Italy- etc....)

E. Kissling

??????????????

11.00: Coffee Break

11.30: Earthquake and Site effect

Stefano Solarino

12.30: Lunch break

Session 4: Bringing seismology into the classroom

14.00: Liquefaction, landslides in soils and rocks: (examples: Wallis- Italy- etc....)

Institute of Geophysics

15.00: Hands-on activities for the classroom (Gr C part I: seismic instruments)

Joseph Moerschell,

15.00: Hands-on activities for the classroom (Gr. D part II: seismic risk)

Stefano Solarino,

15.00: Hands-on activities for the classroom (Gr. A part III modeling earthquake, using data modeling)

Jean-Luc Berenguer

15.00: Hands-on activities for the classroom (Gr. B part IV: modeling earthquake, seismic signal processing)

Paul Denton

16.30: Coffee Break

17.00: Hands-on activities for the classroom (Gr. D part I: seismometer, accelerometer)

Joseph Moerschell,

17.00: Hands-on activities for the classroom (Gr. C part II: seismic risk)

Stefano Solarino,

17.00: Hands-on activities for the classroom (Gr. B part III modeling earthquake, using data modeling)



Jean-Luc Berenguer

17.00: Hands-on activities for the classroom (Gr. A part IV modeling earthquake, seismic signal processing)

Paul Denton

18.30: Dinner break

20.30: Teachers project.

WEDNESDAY October 22, 2014

Session 5: Seismic Risk Mitigation

8.30: Defeating Earthquakes: part 1: How to build?

9.30: Defeating Earthquakes: part 2: How to prepare the population?

Italian civil protection or presentation on reakt????

10.30: Coffee Break

11.00: Expected Earthquakes and Seismic Risk Mitigation in Palestine

Jalal Al Dabbeek

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

Gilles Hillel Wust-Bloch

13.00: Lunch break

Session 6: Bringing seismology into the classroom

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

Paul Denton,

15.00: Simulator (feeling an earthquake) and experiments made by teachers and students

16.30: Coffee Break

17.00: Simulator (feeling an earthquake) and experiments made by teachers and students

19.30: Dinner break

20.00: Teachers project.

THURSDAY October 23, 2014

Session 7: Seismic Risk Assessment

9.00: Probabilistic Seismic Hazard and assessment and 2013 European Seismic Hazard Model

J.Woessner

10.00: Extreme consequences of earthquakes:

Arnaud Mignan

11.00: Coffee Break

12.00: Earthquake risk in design codes and beyond "" (On current regulations to cope with earthquake risk (present/future design codes, stress tests for critical infrastructures). This talk would link the modeling (first two talks, on earthquake risk and earthquake consequences risk) to the actions to be taken at the societal level....

13.00: Lunch break

Session 8: Teachers' projects

14.00 Presentation teachers work

16.30: Coffee Break

18.00:

19.00: Gala dinner

FRIDAY October 24, 2014

Session 9: Field trip

8.30: Departure

Around the Alps..... in Wallis-

Jean-Luc Epard

17: Return

Session 10: Course closure

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

Paul Denton

19.00: Evaluation session and closure

20.00: Dinner

