Patronage:

- Università degli studi di Pavia
  Dipartimento di Scienze della Terra e dell'Ambiente
- Associazione Italiana di Geografia Fisica e Geomorfologia
- World Centre of Excellence on Landslide Disaster Reduction

2nd International Summer School (Pavia, Lombardy, Italy) 02.-06.07.2018

Natural Hazards and related Sediment Dynamics on Catchment Scale

Programme

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Programme:

1st day Monday 02.07.2018

12:00-14:00	Arrival
14:00-18:00	Introduction to the study area of Val Ardivestra and upper Val Tidone General Geological and geomorphological settings (Vercesi/ Pellegrini)
18:30-19:00	Aims and objectives of the fieldschool and Discussion of the programme; splitting up in groups.
19:00-20:00	From slope processes to catchment sediment dynamics (Michael Märker/Alberto Bosino/Reza Zakerinejad/Geraldine Queneherve)
20:00	Welcome Dinner

2nd day Tuesday 03.07.2018

07:00-07:30	Breakfast
07:45-16:30	Fieldwork of four groups (Rocca Susella). Calanchi and Mudflow assessment I) Soil assessment: Soil profiles; soil hydrology (Amooze/Hood infiltrometer) II) Geoelectrics: Transect profiles (EMP400; ERT) III) Mapping techniques: geomorphology; piping processes; field scpectrometer IV) Discharge measurements: (LISST25X, current meter) V) Discharge measurements
18:30-19:00	Discussion and presentation of results
19:00-20:00	Landslides in the Oltrepo area & Discussion (Claudia Meisina)
20:00	Dinner

3rd day Wednesday 04.07.2018

07:00-07:30	Breakfast
07:45-16:30	Fieldwork of four groups (Rocca Susella) I) Soil assessment: Soil profiles; soil hydrology (Amooze/Hood infiltrometer) II) Geoelectrics: Transect profiles (EMP400; ERT) III) Digital Mapping techniques: (sampling design; fieldspectrometer) IV) Discharge measurements: (LISST25X, current meter)
18:30-19:00	Discussion and presentation of results
19:00-20:00	An introduction to Badland processes and Piping & Discussion (Ulrike Hardenbicker)
20:00	Dinner

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4th day Thursday 05.07.2018

07:00-07:30	Breakfast
07:45-16:30	Fieldwork of four groups (Torre degli Alberi)
	I) Soil assessment: soil physical properties; soil erodibility assessment
	II) Geoelectrics: EMP; ERT of Calanchi areas and slope systems
	III) Mapping techniques: geomorphology and soils
	IV) Bathymetric measurements: Doppler device; Sediment discharge assessment
18:30-19:00	Discussion and presentation of results
19:00-20:00	A short introduction to landslide modelling (starwars) & Discussion (Elmar Schmaltz)
20:00	Dinner

5th day Friday 05.07.2018

07:00-07:30	Breakfast
07:45-12:30	Fieldwork of four groups (Torre degli Alberi)
	I) Soil assessment: Fieldspectrometer; soil physical properties; soil erodibility assessment
	II) Geoelectrics: EMP; ERT of Calanchi areas and slope systems
	III) Mapping techniques: geomorphology and soils
	IV) Bathymetric measurements: Doppler device; Sediment discharge assessment
13:00-14:00	Lunch
14:00-15:30	Closing session
16:00	End of the fieldschool

The programme might change due to weather conditions/accessibility of study areas.

Field Lecturer:

Group 1: Soil Assessment

- Michael Märker: Soil hydrological and physical measurements
- Ivano Rellini: Soil type assessment
- Elmar Schmaltz: Soil hydrological and physical measurements

Group 2: Geophysical assessment

- Patrizio Torrese: ERT 4Punktlight
- Francesco Zucca: Inductive ERT EMP 400
- Geraldine Queneherve: Fieldspectrometer

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Group 3: Mapping techniques

- Ulrike Hardenbicker: Badlands & Piping, Soil erosion
- Vit Vilimek: Landslides, geomorphic mapping
- Alberto Bosino: Calanchi mapping and assessment

Group 4: Discharge and fluvial geomorphology

- Michal Habl: Discharge measurements and fluvial geomorpholpogy (Sonar, Lisst25X, Doppler)
- Dawid Szatten: Discharge measurements and fluvial geomorphology (Sonar, Lisst25X, Doppler)