

ETH zürich



Summer School on Fluvial Geomorphology

WHEN

June 27 – July 1
2016

WHERE

Losone, Ticino
Switzerland
@
Casa Emmaus

(<http://www.casa-emmaus.ch/>)

Outlook

This summer school, through a series of lectures given by renowned experts, provides an overview on fluvial geomorphology, focusing on sediment transport, impacts of vegetation and driftwood on watercourses, and human influence on river morphodynamics.

The school, funded by the ETH Board, aims at providing a framework for planning and designing both numerical and physical modelling for young researchers and engineers.

PhD students just enrolled in their project as well as students close to the end of their studies are the target audience of this school. 2 ECTS will be awarded for active participation and poster presentation.

Lectures, given in English, are followed by open discussions, thus the participants have the possibility to interact with the experts. A field excursion is scheduled for the last day.





General program

Monday, 27 June

Sediment transport and supply

Overview of the basic concepts and main processes responsible for the formation of fluvial channels

Tuesday, 28 June

Vegetation and wood

Effects of vegetation and wood in shaping channels morphology, with a focus on real applications in alpine rivers

Wednesday, 29 June

The human factor

Influence of human infrastructures and hydropower plants, and basic principles of river engineering projects

Thursday, 30 June

Modelling fluvial geomorphology

State-of-the-art laboratory techniques, analytical and numerical methods to simulate river morphodynamics

Friday, 1 July

Field excursion

Field trip on the Maggia basin

Please email your interest or any questions to:

fluvialgeom2016@gmail.com

Registration

Apply on the school website

fluvialgeom2016.wix.com/home

Tuition

The registration fee is 250 CHF per student, which includes accommodation with breakfast from Monday to Saturday, an ice breaker reception, a school dinner and a pocket lunch for the excursion day.

Speakers

Walter Bertoldi *University of Trento*

Marco Colombini *University of Genova*

Francesco Comiti *Free University of Bolzano*

Huib de Vriend *Delft University of Technology*

Mario J. Franca *LCH EPFL*

Walter Gostner *Engineers Patscheider&Partner GmbH*

Stuart Lane *UNI Lausanne*

Peter Molnar *IfU, ETHZ*

Paolo Perona *University of Edinburgh*

Alain Recking *IRSTEA Grenoble*

Dieter Rickenmann *WSL, Birmensdorf*

Annunziato Siviglia *VAW, ETHZ*

Volker Weitbrecht *VAW, ETHZ*

Only 30 places are available. Priority will be given to students applying from Swiss Universities.

