

Workshop Regionalized fluvial geomorphology

18th and 19th December 2019

Irstea Lyon-Villeurbanne Center

Programme

Wednesday 18/12 :

- **10h – 10h30** **Welcome, coffee**
- **10h30 – 11h30** **Introduction of the workshop**
 - **Yves Souchon** (*Irstea*) and **Hervé Piégay** (*Université de Lyon, CNRS UMR5600*)
 - **Angela Gurnell** - *Queen Mary University of London* :
"Framing multi-scale fluvial geomorphology"
- **11h30 – 12h30** **Session 1(1) : Regionalization of geomorphological parameters**
 - **Simone Bizzi** – *University of Padova* :
"Monitoring contemporary channel geomorphological processes and sediment transport at the network scale by the use of low cost drones and satellites"
 - **Adrien Michez** - *University of Liège* :
"Single tree riparian forest regional characterization with remote sensing"
 - **Collective discussion time**
- **12h30 – 13h30** **Lunch break**
- **13h30 – 14h30** **Session 1 (2) : Regionalization of geomorphological parameters**
 - **Joseph Wheaton** – *Utah State University* :
"Riverscapes Consortium to Leverage Advances in Other Regions in Your Regionalization"
 - **Barbara Belletti** - *Politecnico di Milano* :
"Mapping geomorphological pressures and impacts at large scale"
 - **Collective discussion time**
- **14h30 – 16h00** **Session 2 : Rivers sensitivity to human activities, especially in case of multiple pressures**
 - **Peter Downs** – *University of Plymouth* :
"River evolution in response to multiple drivers for change: implications for river science and management"
 - **Laurent Valette** - *Irstea* :
"A Risk approach to determine the pressures induced impacts"

- **Christophe Rousson and Samuel Dunesme** – *Université de Lyon, CNRS UMR5600* :
"Assessment of the sensitivity of rivers to change at regional scale: elements for planning preservation and rehabilitation actions"
- **Collective discussion time**
- **16h00 – 16h30** **Break**
- **16h30 – 18h00** **Session 3 : Hydrological and sedimentary connectivity at multiple scales, including structural and functional connectivity**
- **Marco Cavalli** - *Italian National Research Council* :
"Index of sediment connectivity: recent applications and future developments"
- **Etienne Cossart and Mathieu Fressard** – *Université Jean Moulin Lyon 3* :
"How might sediment connectivity change in space and time?"
- **Mélanie Bertrand (Irstea) and Véronique Bénacchio (Université de Lyon, CNRS UMR5600)** :
"Water and sediment continuity assessment at regional scales: Examples focused on debris-flow susceptibility, impacts of sediment mining and modelisation of floods"
- **Collective discussion time**

Thursday 19/12 :

- **9h30 – 10h** **Welcome, coffee**
- **10h – 11h30** **Session 4 : basin/network scale modelling**
- **Mario Franca and Alessandro Cattapan** – *IHE Delft Institute for Water Education* :
"Contribution on understanding sediment degradation in an Alpine catchment; lithology matters!"
- **Anna Costa** – *ETH Zürich* :
"Impacts of hydropower on bedload transport in Alpine regions: a modelling approach at the river network scale"
- **Rafael Schmitt** – *Stanford University* :
"Advances, opportunities and challenges for connectivity-based assessments of sediment transport and management"
- **Collective discussion time**
- **11h30 – 12h30** **Lunch break**
- **12h30 – 14h30** **Conclusions, final remarks and perspectives**

