

Winter school 13-14 March 2014

Université catholique de Louvain, Belgium

Introductory lecture series on sediment transport in fluvial, estuarine and coastal environment

March 13

09:30-11:00	An introduction to the governing equations for granular-fluid flows	R. Ferreira (IST)
11:15-12:45	Mixture theories for fluid-saturated granular materials: modelling and numerical aspects	C. Varsakelis (UCL)
14:00-15:30	An introduction to the modelling of flow, sediment transport and morphological changes in rivers	S. Soares-Frazão (UCL)
15:45-17:15	Density and turbidity currents	M. Franca (EPFL)
17:30-18:30	Discussions	

March 14

09:30-11:00	Turbulent flows in fluvial and coastal environment	D. Grigoriadis (UCY)
11:15-12:45	Coastal flow processes and fundamentals of sediment transport	A. Dimas (UP)
14:00-15:30	Introduction to experimental methods for sediment transport under fast transient flow conditions	B. Spinewine (Fugro Engineering)
15:45-17:15	Introduction to numerical simulations of large-scale flows of granular mixtures	V. Armenio (UT)
17:30-18:30	Discussions	

Registration by email to secretaire-gce@uclouvain.be. For PhD students, a certificated of attendance (1 ECTS) will be delivered upon request. The following registration fees apply:

- Phd Students and post-docs funded by the SEDITRANS project: free
- Participants from SEDITRANS institutions: 80 EUR
- Participants from other institutions: 150 EUR

