

# THESIS-2022

## Two-phase modeling for Sediment dynamics

5<sup>th</sup> symposium on particulate geophysical flows

Les Houches, France  
June 5-10, 2022



Credit : A. Mathieu

Hosted by University of Grenoble Alpes  
LEGI and INRAE/ETNA



INRAE



## Synopsis

Sediment transport controls the morphology of rivers, estuaries and coastal oceans. It is by nature a two-phase problem in which fine grain-scale processes such as collisions, segregation, or enduring contacts and turbulent-particle interactions locally control particle transport. Particulate geophysical flows is a truly multi-scale phenomenon with length-scales ranging from the submillimeter of a sand grain to the kilometer scale of a river section. This question of scale will be central in the workshop with the aim to foster the transfer of the most recent advances on the understanding/modeling of these fine processes and to establish clear research perspectives for the near future.

## Venue

Les Houches School of Physics  
in Les Houches, France

<https://www.houches-school-physics.com/>



## Keynote Talks

Prof. O. Pouliquen, University of Aix-Marseille  
Prof. M. Uhlmann, Karlsruhe Institute of Technology  
Prof. N. Gray, University of Manchester  
Prof. E. Lajeunesse, Institut de Physique du Globe Paris  
Prof. P. Traykovski, Woods Hole Oceanographic Institution

## Organizers

Assoc. Prof. J. Chauchat, LEGI, GINP-Univ. Grenoble-Alpes  
Prof. D. Hurther, LEGI, CNRS-Univ. Grenoble-Alpes  
Dr. Ir P. Frey, ETNA, INRAE

## Symposium Website

For more information please visit:  
<http://thesis2022.legi.grenoble-inp.fr/>

## Registration Fee

Regular registration 650€  
Student registration 450€

Registration fees include housing and food

## Key Dates

December 17, 2022: Abstract submission  
January 17, 2022: Abstract submission\*  
February 11, 2022: Abstract acceptance  
March 11, 2022: Extended abstract submission  
April 6, 2022: Early registration deadline\*\*

\* Send a 1 page abstract to [thesis2022@legi.cnrs.fr](mailto:thesis2022@legi.cnrs.fr)  
\*\* Registration fees increase by 25% after this date