DySES 2018: Systemic Risk

October 2018, 9-12 - Paris, France

Session on:

**Environmental Risk Prevention of Socio-Economic Systems**

The session deals with Geological and Geotechnical researches in the field of seismic and environmental risk prevention, devoted to develop models able to evaluate social end economical scenarios in case of occurrence of natural catastrophes like Landslides or Earthquakes.

As matter of fact, many disruptive earthquakes in the last years caused extensive damage both on buildings and service facility networks (e.g. buried pipeline). Earthquakes represent a major financial losses for systems utility operators and lengthy disruption of an essential service for whole communities in seismic regions. For studying these problems, a multi hazard estimation methodology must be adopted. It must include various modules: Potential Earth Science Hazard, Inventory, Direct Physical Damage, Induced Physical Damage, Direct Economic/Social Loss and Indirect Economic Loss.

The session should be open by two or three invited Keynote lectures, from experts coming from different countries. The session should be divided in mini-sessions related to the different kinds of environmental risks.