

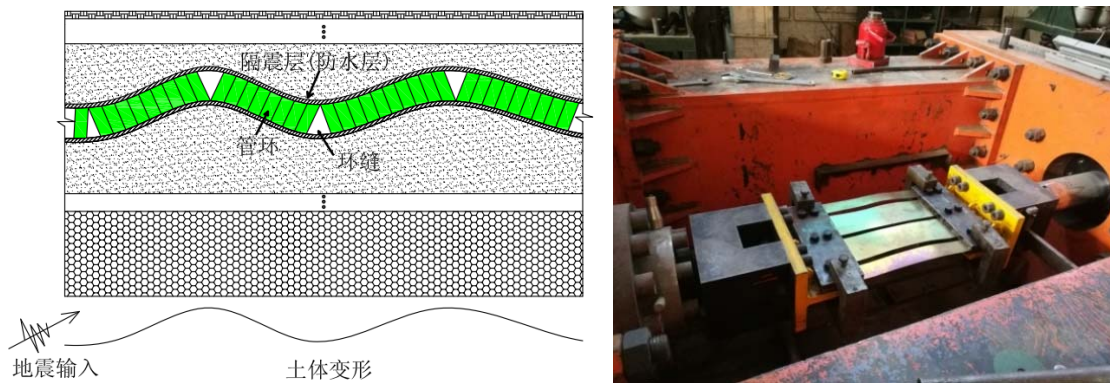
**Università di Padova, 1 Giugno 2018, h. 13:30-15:00
Aula RH01, Via Marzolo 9, Padova**

Laurea Magistrale in Ingegneria Civile
Corso di ASEISMIC DESIGN OF BUILDING STRUCTURES

Avviso di Seminario

Mechanical tests of SMA energy dissipation devices and application in a submarine tunnel project

Lecturer: Prof. **Xu Li** (*EERTC Centre, Guangzhou University*)



Abstract:

The seminar will introduce the characterization tests of the mechanical properties of energy dissipation devices and will present an engineering project of a tunnel which employs dissipation devices based on shape memory alloy.

In particular, at first, a brief introduction about the 'Seismic Reduction and Structural Safety Laboratory' of the Guangzhou University will be provided; subsequently, the main energy dissipation devices widely used in China will be introduced, together with the testing equipment, and some characterization tests and test results will be shown. Finally, the project of a submarine shield tunnel, which employs Shape Memory Alloy (SMA) devices to mitigate seismic effects, will be presented in detail, discussing various aspects of design, experimentation and installation.