



**UNIVERSIDAD CATOLICA
DE LA SANTISIMA CONCEPCION**

**LABORATORIO DE GEOMATERIALES
MAGÍSTER INGENIERÍA GEOTÉCNICA
INGENIERÍA GEOLÓGICA**

**LUNES 1 DE DICIEMBRE 2014
AUDITORIO FACULTAD DE INGENIERÍA UCSC
9.30pm – 2pm**

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Marchetti flat dilatometer DMT and seismic dilatometer SDMT

Description. Applications. Recent developments. Also an introduction to Estimating Liquefaction Resistance taking into account Stress History.

Abstract

The Flat Dilatometer is accepted within the international site characterization profession as one of the most useful in situ testing tools available. Developed initially for assessment of parameters for design of laterally loaded piles, its use has evolved well beyond that. Today it is seen as one of the most reliable in situ tools for assessment of soil behaviour type, strength, modulus/compressibility, liquefaction potential and other important parameters. This valuable tool is available in Chile but is considered “under-utilized” considering its usefulness. The operating principles of the DMT and SDMT will be described, along with recent developments and an introduction will be made to the use of these valuable tools in liquefaction assessment.

At midday a visit to a close site is considered where tests will be performed with the dilatometer of LGM.