

# CALL FOR ABSTRACTS



## 6<sup>TH</sup> INTERNATIONAL CONFERENCE ON GEOTECHNICAL AND GEOPHYSICAL SITE CHARACTERISATION

### Website

<http://www.isc6.org>

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### Important dates

- Abstract submission: March 1, 2019
- Notification of acceptance: May 1, 2019
- Draft paper submission: October 1, 2019
- Draft paper review: December 20, 2019
- Final paper submission: March 1, 2020
- Conference: September 7-11, 2020

### Silvano Marchetti Award

The ISSMGE Technical Committee TC102 – Ground Property Characterization from In-Situ Tests in cooperation with the University of L'Aquila, Italy has instituted the Silvano Marchetti Award (SMA) in memory of Professor Silvano Marchetti (1943-2016). The award is funded entirely by Studio Prof. Marchetti, Italy. The SMA aims to support scientific publications on in-situ testing and its application to geotechnical engineering design, focusing especially on DMT and/or SDMT. Authors can apply for the award on an application form after they have submitted their abstracts through the conference review platform.

The award will cover a registration fee for the ISC'6 conference and accommodation for the duration of the conference for the author (or one of the authors) of the recipient paper.

## Conference topics

- **Equipment, Measuring Techniques, Sampling**
  - Drilling & sampling methods for soils and rock
  - Sample quality
  - Laboratory testing
  - Penetration testing (CPT, SPT, DMT, PMT, etc.)
  - Geophysical testing
  - Tooling for extreme environments (e.g. acid mines, arctic, deep ocean)
  - Environmental measurements
- **Mechanical Testing (CPT, SPT, DMT, PMT, VST, PLT)**
  - Interpretation of test results
  - Correlations to estimate engineering properties
  - Dissipation tests
- **Geophysics in Geotechnical Engineering**
  - New Synergies between geophysical and geotechnical tests
  - Seismic measurements
  - Electromagnetics, Georadar
  - Geoelectric tests
- **Site Characterization, Case Studies, Uncertainties**
  - Geologic mapping
  - Remote sensing, LIDAR, UAVs etc.
  - Spatial variability & structure
  - Selection of design parameters
  - Subsurface mapping (e.g. stratigraphic, fault mapping)
  - Spatial variability & structure
  - Cost effective site investigation
  - Data management
  - Case histories
- **In Situ Testing and Numerical Modelling**
  - Numerical methods for modelling in situ tests
  - Parameter calibration for advanced constitutive models
  - Verification of established correlations
- **Engineering Applications**
  - Liquefaction, earthquake
  - In situ testing for infrastructure and earthworks
  - Subsurface mapping (e.g. stratigraphic, fault mapping)
  - Foundation design - bearing capacity & settlement
  - Slopes, dams, & levees
  - Tunneling
  - Geoenvironmental
  - Natural resource & renewable energy structures - mining, oil, LNG, offshore, wind, hydro, etc.
  - Risk & Legal Issues
- **Problematic Soils (e.g. gravels, volcanics, expansive, sensitive, intermediate, mine tailings)**
- **Education**