



# 1st International Conference on Sustainability in Geotechnical Engineering

## Geodiversity & Resilience

LNEC  
Lisboa · Portugal

27-30 June 2021

### Scope and aims

Sustainability is considered to be a top priority for all mankind by United Nations. With that goal in mind, ISSMGE technical committee TC 307, aims to monitor, produce and disseminate information regarding the contribution of geotechnical design and construction to a sustainable development. This contribution includes adopting environment-friendly, cost-effective and socially-acceptable choices.

### ICSGE'21

In line with United Nations concerns, the first conference on sustainability in geotechnical engineering is being organized by LNEC, with the following goals:

- 01 To contribute to and disseminate information on sustainability and resilience related issues in geotechnical engineering.
- 02 To offer an exceptional opportunity for exchanges between specialists in the various disciplines.
- 03 To offer the widest possible forum to young or new authors.
- 04 To give innovation an opportunity, by welcoming papers devoted to new materials, techniques and applications.
- 05 To give an outlook of the future.
- 06 To offer a high scientific and technical level to match the expectations of all participants.

### Conference topics

**a.** Development of Sustainability indicators, metrics and assessment tools in geotechnical engineering

**b.** Innovative, environmentally friendly and energy efficient geotechnical techniques

- For site investigation
- For waste containment
- For remediation
- For ground improvement
- For construction
- For monitoring

**c.** Sustainable use of geotechnical systems and materials

- Minimization, reuse and recycling of waste materials
- Smart materials
- Retrofitting of foundations and other geotechnical structures
- Life cycle assessment

**d.** Use and reuse of underground space for beneficial purposes

- Storage of energy
- Storage of carbon dioxide

**e.** Geotechnical techniques involved in the exploitation of renewable energy sources

- Shallow and deep geothermal energies
- Solar and wind energies

**f.** Socio-economic impacts from geo-activities

- Mining and petroleum extractions
- Dam construction
- Waste disposal

**g.** Geohazard (man-made and natural) vulnerability and mitigation

- Effects of global climate change
- Multi-hazards

**h.** Practice of geoethics and maintaining geodiversity

**i.** Regulations on sustainability in geotechnical engineering

**j.** Education on sustainability in Geotechnical Engineering

### Programme

#### Technical-scientific programme

**1<sup>st</sup> day**  
4 Short-Courses on Sustainability, Surface Geothermal, Waste Recycling and Risk (minimum attendees: 25)

**2<sup>nd</sup> day / 3<sup>rd</sup> day**  
Plenary and Technical Sessions

**4<sup>th</sup> day**  
Technical Visits

#### Key dates

**31.03.2020**  
Abstract submission (deadline)

**31.05.2020**  
Notification of abstract acceptance

**30.09.2020**  
Full paper submission (deadline)

**31.01.2021**  
Notification of paper acceptance

**28.02.2021**  
Final paper submission

**27-30.06.2021**  
Conference dates

### Abstracts

#### Call for abstracts

Abstracts must be sufficiently detailed to allow the experts to assess the scientific and technical interest of the paper, the relevance of the results obtained, and the contributions towards advances in geotechnical engineering regarding sustainability and resilience. Submission of abstracts is made only through the website:

<https://ocs.springer.com/misc/home/ICSGE2021>

### Papers

#### Selection of papers

All papers will be submitted to a rigorous peer-review process. Accepted papers will be included in the Conference Proceedings published by *Springer Series in Geomechanics and Geoengineering* (indexed by Scopus and EI). The Organizing Committee of the 1st ICSGE considers selecting high-quality papers for publication in a peer-review indexed journal. This information will be updated as soon as possible.

### Committees

#### Organizing committee

- Chair: Laura Caldeira (LNEC, Portugal)
- Vice-Chair: Nuno Cristelo (UTAD/TC 307, Portugal)
- General Secretary: Joana Carreto (LNEC, Portugal)
- Ana Cristina Freire (LNEC, Portugal)
- Ana Vieira (LNEC/CPGA, Portugal)
- António José Roque (LNEC/CPGA, Portugal)
- Castorina Vieira (FEUP/TC 307, Portugal)
- Cátia Silva (Baía do Tejo, Portugal)
- Isabel Martins (LNEC, Portugal)
- João Bilé Serra (LNEC, Portugal)
- José Manuel Romão (LNEG, Portugal)
- Luís Miranda (LNEC, Portugal)
- Mafalda Oliveira (Lundinmining, Portugal)
- Maria da Graça Lopes (ISEL, Portugal)
- Maria João Coelho (LNEC, Portugal)
- Maria de Lurdes Lopes (FEUP/CPGA, Portugal)
- Rute Ramos (LNEC, Portugal)
- Sara Rios (FEUP/TC 307, Portugal)
- Vitor Correia (EFG, Portugal)

#### Technical committee

- Abbas El-Zein (Australia)
- Castorina Vieira (Portugal)
- Claudia Madiari (Italy)
- Fiona Kwok (Hong Kong)
- Giuseppe Cardile (Italy)
- Heleni Pantelidou (United Kingdom)
- Ignacio González Tejada (Spain)
- Ivan Puig Damians (Spain)
- Jan Kayser (Germany)
- Keh-Jian Shou (Chinese Taipei)
- Mark Wallace (Hong Kong)
- Nihar Patra (India)
- Nuno Cristelo (Portugal)
- Olivia Jansson (Sweden)
- Paulo Hemsli (Brazil)
- Sara Rios (Portugal)
- Sireesh Saradi (India)
- Slobodan B. Mickovski (United Kingdom)
- Stoban Gonsalves (Canada)
- Tone Smaavik (Norway)
- Wojciech Sas (Poland)

#### International advisory committee

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- Anand J. Puppala (United States)
- António José Roque (Portugal)
- Antônio Tomé (Brazil)
- Arul Arulrajah (Australia)
- Atul M. Salhotra (United States)
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- Olivier Cuisinier (France)
- Renpeng Chen (China)
- Ricardo Trigo (Portugal)
- Stephanie Glendinning (United Kingdom)
- Teresa Burquete (Portugal)
- Yi Yaolin (Singapore)

#### Registration fees

	A	B
ISSMGE, SPG, CPGA and APG members*	500€	550€
Non members*	600€	650€
Students**	250€	250€
Short courses with 2 modules <sup>+</sup>	200€	
Short courses with 3 modules <sup>+</sup>	300€	

A Until 15.04.2021  
B After 15.04.2021  
\* Conference gala dinner is not included.  
\*\* Must provide proof of student status.  
<sup>+</sup> Lunch is included.

Note that one registration fee is valid for up to 2 papers. If you have 3 accepted papers, then make sure that at least one of your coauthors will register at the conference to present the third paper.

Please make your registration here:



#### Social programme

- 01 Welcome reception on the first day, after the short-courses.
- 02 Gala dinner on the second day for the conference delegates and accompanying persons.
- 03 Organized walking tours in Lisbon and Sintra.
- 04 For accompanying persons, attendance at Social Tours will be available.

#### Lisboa invites you...

<https://www.visitlisboa.com>

#### Secretariat/contacts

**LNEC Congress Centre**  
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Conference organized by: Under the auspices of: Supported by:

