



IS-Glasgow 2019

7th International Symposium on Deformation Characteristics of Geomaterials

26th – 28th June 2019
Technology & Innovation Centre,
University of Strathclyde, Glasgow, UK



Call for Abstracts

www.is-glasgow2019.org.uk



The Symposium

The TCI01 of the ISSMGE is pleased to announce the 7th International Symposium on Deformation Characteristics of Geomaterials to be held in 2019 in Glasgow. The Symposium is co-organised by the University of Strathclyde in Glasgow and the University of Bristol. Building on the tradition of previous Symposia from Sapporo in 1994 to Buenos Aires in 2015, IS-Glasgow 2019 will bring together researchers and practitioners to explore new directions in geomaterial testing.

Why IS-Glasgow 2019

- All participants having submitted a paper will have the chance to present their work.
- Special time will be allocated for constructive and lively discussion.
- Proceedings will be published online 'open access'.
- Papers will be attributed DOI and will be indexed in main databases.

Key Dates

- 01.03.2018: Call for Abstracts
- 01.06.2018: Abstract submission deadline
- 30.06.2018: Abstract approval notification
- 01.10.2018: Draft papers due
- 15.01.2019: Final papers due
- 01.04.2019: Deadline for early bird registration

Symposium Chairs

Prof. Alessandro Tarantino, University of Strathclyde, Glasgow, UK

Dr. Erdin Ibraim, University of Bristol, UK

Prof. Richard Jardine, Imperial College London, UK

Organising Committee and Contact

Katharine Houston, University of Strathclyde, Glasgow, UK

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We are now welcoming Abstract submissions

If you are interested in submitting an Abstract to IS-Glasgow 2019, please

1) download the Abstract Submission Form via the website

<https://is-glasgow2019.org.uk>

2) complete the Abstract Submission Form and submit to:

geomaterials-symposium2019@strath.ac.uk

indicating the name of first author in the subject line.

More information can be found on the website:

<https://is-glasgow2019.org.uk>



Technical Core Themes

Advanced laboratory and field testing of geomaterials in saturated and unsaturated states

- Novel sensors for laboratory testing
- Advances in laboratory testing technique
- Digital image and PIV analysis
- Advances in ground investigation and field monitoring
- Geophysical methods
- Advanced sampling
- Particle-scale experimental observation
- Behaviour at geotechnical interfaces

From laboratory testing to constitutive and numerical modelling

- Constitutive modelling of geomaterials
- Numerical modelling of boundary value problems
- Physical modelling
- Anisotropy and localisation
- Time dependent responses (ageing, creep)
- Cyclic and dynamic behaviour
- Soil stabilisation (lime, cement, geopolymers, biopolymers, alkaline activation)
- Soil improvement via biological and chemical processes
- Thermal behaviour
- Frozen soils including hydrates
- Mixtures (soils with inclusions)
- Soil-plant interaction

Application of advanced testing to practical geotechnical engineering

- Integrated site characterisation
- Performance evaluation of geotechnical structures
- Field monitoring and observational method



IS-GLASGOW2019 Lecturers

BISHOP LECTURE

The Symposium will host the 4th Bishop Lecture, established in honour of Professor Alan W. Bishop. The 4th Bishop Lecturer will be elected by the Technical Committee TC101 and announced in Spring 2018.

NOVEL SENSORS FOR LABORATORY/FIELD TESTING

State-of-the-Art Lecture on the topic 'Wireless, passive, battery-free, RFID-based strain sensors'

Emmanouil M Tentzeris (Georgia Institute of Technology, USA)



ADVANCES IN LABORATORY TESTING

State-of-the-Art Lecture on the topic 'Advances in cyclic and dynamic testing of soils'

Torsten Wichtmann (Bauhaus-Universität Weimar, Germany)



Keynote Lecture on the topic 'Experimental investigation of mechanism of internal erosion and development of underground cavities'

Reiko Kuwano (University of Tokyo, Japan)



Keynote Lecture on the topic 'Geothermal structures: from laboratory testing to engineering design'

Lyesse Laloui (École Polytechnique Fédérale de Lausanne, Switzerland)



ADVANCES IN PARTICLE-SCALE EXPERIMENTAL OBSERVATION

State-of-the-Art Lecture on the topic 'X-Ray and Neutron Tomography for Geomaterials'

Cino Viggiani (Université Grenoble Alpes, France)



State-of-the-Art Lecture on the topic ‘Macroscopic effects of nano- and microscopic phenomena in clay, soils, and rocks’

Pierre Delage (École des Ponts ParisTech, France)



‘ACCESSIBLE’ CONSTITUTIVE MODELLING**Keynote Lecture on the topic ‘Developing constitutive models of soft soils from laboratory data’**

Cristina Jommi (Delft University of Technology, the Netherlands & Politecnico di Milano, Italy)



NOVEL TECHNIQUES FOR FIELD MONITORING**State-of-the-Art Lecture on the topic ‘Electrical imaging methods in geotechnical applications’**

Jonathan Chambers (British Geological Survey, UK)



CASE STUDIES (FROM LABORATORY TESTING TO REAL-WORLD PERFORMANCE)**Keynote Lecture on the topic ‘Integrating laboratory and field testing into advanced geotechnical design’**

Lidija Zdravkovic (Imperial College, UK)

**Keynote Lecture on the topic ‘Performance of geotechnical structures assessed via field monitoring’**

Andrew Ridley (Geotechnical Observations, UK)

