**ABSTRACT SUBMISSION**

Thank you for your interest in submitting an abstract to the IS-Glasgow2019 conference. The deadline for submission is 1st June 2018. You will receive a response from the Technical Committee no later than the 30th June 2018.

Please complete the following template and return to geomaterials-symposium2019@strath.ac.uk. Please remember to include the name of the first author in the subject line of your email.

|  |  |
| --- | --- |
| **Title:** |  |
| **Theme (optional):****\* Select from list below** |  |
| **Keywords:** |  |
| **Contact Email Address:** |  |
| **Alternate Contact Email Address (optional):** |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Author** | **Affiliation** | **Email Address** |
| **1** |  |  |  |
| **2** |  |  |  |
| **3** |  |  |  |
| **4** |  |  |  |
| **5** |  |  |  |
| **6** |  |  |  |
| **7** |  |  |  |

**ABSTRACT (preferably 300 words max)**

**Type text here**

**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