

Hot news

SPH Vienna 2019

SPH Vienna 2019

International symposium on SPH and other particle-based continuum methods and their applications in geomechanics

Venue: BOKU, Vienna, Austria

Date: 11th – 13th September 2019

Language: English

Description

Analysis and design in civil engineering is much dominated by the mesh-based numerical methods such as FEM. This dominance is being rivaled by the meshfree methods for problems with free surface flow, large deformation and discontinuous deformation. The first meshfree method is SPH (Smooth Particle Hydrodynamics). The last decades saw rapid development of numerous meshless methods, e.g. MPM (Material Particle Method), XFEM, PFEM (Particle Finite Element Method). Geomechanics with complex material behavior and problem setting offers an excellent playground for meshfree methods.

This workshop brings together scientists, software developers and engineers to take stock of the state-of-the-art of meshfree methods, assess their potential for geomechanics problems and look into future development trends. Although the workshop focuses on SPH and other particle based continuum methods and their application in geomechanics, other innovative numerical methods and applications are equally welcome.

Organizer

Prof. Wu W, Institute of Geotechnical Engineering, BOKU, Vienna, Austria

Contact Information

Institute of Geotechnical Engineering, BOKU,
Feistmantelstrasse 4,
1180 Vienna, Austria
Email: geotech@boku.ac.at

Website

<https://sph-vienna.com/>