

Programme of EWG-IE 2021 ONLINE WORKSHOP

February 2nd 2021 (9h00 – 12h30 CET)

9h00-9h05	Introduction
9h05-9h20	Alexander Scheuermann , Peter To, Adnan Sufian: <i>On identifying the erodible fine fraction for suffusion analysis</i>
9h20-9h35	Qirui Ma , A. Wautier, W. Zhou: <i>Microscopic mechanism of grain detachment in suffusion</i>
9h35-9h50	Didier Marot : <i>Material susceptibility to suffusion: from a hydro mechanical characterization to the numerical simulation</i>
9h50-10h05	Tom Shire : <i>Soil microstructure and susceptibility to suffusion: DEM modelling</i>
10h05-10h20	Nadia Benahmed , C. D. Nguyen, E. Andò, L. Sibille and P. Philippe: <i>Investigation of Soil Microstructural Changes Induced by Suffusion using X-Ray Computed Tomography Technique</i>
10h20-10h35	Li-Hua Luu , A. Izerroukyene, C.D. Nguyen, N. Benahmed, G. Veylon and P. Philippe: <i>Numerical modelling of soil suffusion using OpenFOAM</i>
10h35-10h55	Coffee break with open discussion and questions
10h55-11h10	Zheng Hu , Zhongxuan Yang, Yida Zhang: <i>Suffusion-induced evolution of microstructure and mechanical properties of internally unstable soils using CFD-DEM</i>
11h10-11h25	Amir Mehdizadeh : <i>Post-erosion mechanical response of internally unstable soil under monotonic and cyclic loadings</i>
11h25-11h40	Jitrakon Prasomsri and Akihiro Takahashi : <i>The role of fines on internal instability and its impact on undrained mechanical response of gap-graded soils</i>
11h40-11h55	Quentin Rousseau , G. Sciarra, R. Gelet and D. Marot: <i>Modelling the plastic response of dilative and compacting soils with suffusion</i>
11h55-12h10	Antoine Wautier , Q. Ma, T. Wang and F. Nicot: <i>Fine contribution to mechanical stability and constitutive modelling strategy</i>
12h10-12h30	Open discussion and questions