



INVITED SESSION

Advances in particle-scale perspectives in multiphysics particle systems

ORGANIZERS

D. Wilke*, **P. Pizette[^]#**, **J. Joubert***

* University of Pretoria, South Africa

[^] IMT Nord Europe, Douai, France

[#] University of Lille, France

ABSTRACT

Particle-scale effects are often homogenized in multiphysics particle system simulations limiting particle-scale perspectives and inferences that can be drawn from a particle system. This mini-symposium focuses on and embraces particle-scale perspectives, effects, and inferences for multiphysics particle systems. Contributions considering studies that investigate:

- effects at the particle scale,
- alternative perspectives on interpreting particle systems at the particle scale,
- inference techniques at mesoscopic and particle scales,
- modelling and coupling techniques at mesoscopic and particle scales

are welcomed for experimental investigations and numerical studies using meshless (DEM, SPH and others) and mesh-based (FEM, FDM, CFD and others) techniques.