**Pre-conference workshop on “ Modelling and Simulations of Mechanical and Structural Systems”**

The workshop will discuss the physics and mechanics based modelling of friction and fracture processes involving mechanical and structural components. The main issues are modelling of friction as a fracture process and sliding dynamics of soft and hard solid interfaces. In addition, modelling of material failure using virtual internal bond method as well as experiments and numerical simulations of hard coatings at high temperature. Different solution methods of governing equations will also be elucidated with practical examples.