

WEDNESDAY, 27 SEPTEMBER 2017

THE UNIVERSITY OF SHEFFIELD

**3 PM – SIR FREDERICK MAPPIN BUILDING
LECTURE THEATRE 7**

**"Lagrangian Particle Methods: Latest Achievements and
Future Perspectives"**

Professor Abbas Khayyer

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The seminar comprises a concise review on the latest achievements made in the context of projection-based particle methods, including MPS and Incompressible SPH (ISPH) methods. The latest achievements corresponding to stability, accuracy, boundary conditions and energy conservation enhancements as well as advancements related to simulations of multiphase flows, fluid-structure interactions and surface tension are reviewed. The future perspectives for enhancement of applicability and reliability of projection-based particle methods are also highlighted.