

# Special Seminar

## Well-posedness for a class of fluid dynamics equations with stochastic transport noise

Professor **Dan Crisan**  
Imperial College London



**Date: October 11 (Fri)**  
**15:00-16:30 (Special Seminar)**  
**16:30-17:30 (SGU students/memberst)**

Venue: 58Building, Room 311 Nishiwaseda Campus, Waseda University

**abstract:**

**I will present some existence and uniqueness results in regular spaces and a Beale–Kato–Majda blow-up criterion for the solution of a stochastic PDE. The equation describes fluid motions whose Lagrangian particle paths follow a stochastic process with cylindrical noise. The talk is based on recent work joint with Franco Flandoli (Pisa), Darryl Holm (Imperial) and Oana Lang (Imperial).**



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