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## DK Seminar

June 8, 2016, 14:15 - 15:45  
Vienna University of Technology,  
Freihaus, green area, 4th floor, 101C

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Swansea University

### **On Burgers type nonlinear equations and scalar conservation laws with stochastic forcing**

In this talk we are concerned with two types of stochastic nonlinear equations. We will first discuss a class of non-linear stochastic pseudo-differential equations of Burgers type driven by Lévy space-time white noise. Existence and uniqueness of the solutions of the initial value problem will be presented. In the second part, we will consider stochastic scalar conservation laws on bounded domains. After a brief review of results on the well-posedness theory for stochastic scalar conservation laws with boundary conditions, we will show the existence and uniqueness of certain type of solutions to the boundary value problems.