

学 术 报 告

**报告题目： Urban Water Systems – Pennine Water Group at the
University of Sheffield, UK**

报告人： Professor Simon Tait, University of Sheffield

报告时间： 9 月 5 日上午 9:30-11:00（星期四）

报告地点： 安中大楼 A322

报告人简介：

Professor Tait, is currently the Professor of Water Engineering at the University of Sheffield. He obtained his PhD in the sediment mechanics of gravel bed rivers from the University of Aberdeen in 1994. He has held academic posts at the Universities of Aberdeen, Sheffield and Bradford. He has published on a number of aspects of sewer systems and sediment transport process. He currently leads projects examining the adaptation of urban water systems to climate change, heat recovery in sewers and the mechanics of bedload and suspended load.

报告内容简介：

The Pennine Water Group (PWG) is an Engineering and Physical Sciences Research Council (EPSRC) funded Platform Grant centre dedicated to research into water and wastewater. The group has a wide range of project in many areas associated with Urban Water and Drainage Systems.

Based at the University of Sheffield in the UK, the PWG is headed by a Management Team including Professor Adrian Saul (Director & Sustainable Integrated Systems), Prof Catherine Biggs (Bio-engineering), Professor Joby Boxall (Potable water research), Professor Kirill Horoshenkov (Adaptative sensors), Dr Liz Sharp (Engagement & Governance) and Professor Simon Tait (Pollution & Sewer Systems).

The PWG aims to advance engineering and scientific knowledge across all aspects of:

- Potable water
- Stormwater and wastewater service provision

- Management of associated assets

Group activities include fundamental and applied research, the implementation and dissemination of research outputs and the provision of education and training.

The strategic vision of the group is to develop from a multi-disciplinary to a trans-disciplinary group through closer integration with industry, and foster new inter-disciplinary research ideas.

Our vision for development has 3 key areas:

- Implementation and Governance
- Sustainable System Integration
- Development and Implementation of New Technology Advances

The seminar will outline the current activities in group and then focus on two particular areas: uncertainty in modelling pollutants in integrated catchment models and a joint project with Cardiff University that developed novel acoustic based sensors to investigate turbulent depth limited flows.