



UK Technical Seminar Advanced Coastal, Lab and Turbulence Studies

1 June 2015

[Hudson Beare Building](#) (Classroom 4)
University of Edinburgh

Kindly hosted by University of Edinburgh and FloWave

08:30 Registration and Coffee

09:00 Introduction

09:30 Session I

Nortek Knowledge: Advanced Applications with the Signature500/1000 AD2CP

- Turbulence measurements
- Wave dynamics
- Faster sampling
- Lower noise
- Interleaved measurement methods

User Applications: Integrated Systems for Renewable Energy Studies

Field measurements at a tidal energy site: challenges and lessons learned

Brian Sellar, University of Edinburgh

Analysis of the onset flow measurements acquired by a multi-sensor array during the ReDAPT project

Duncan Sutherland, University of Edinburgh

10:45 Coffee Break

11:00 Session II

Nortek Knowledge: Pulse-Coherent Processing with the Aquadopp HR Profiler and Vector Velocimeter

- Boundary layer studies
- Extended ambiguity velocity range
- Field and lab applications

User Applications: Turbulence Studies

Turbulence measurement in Strangford Narrows

Penny Jeffcoate, Queen's University Belfast

Predicting turbulence generation on a sloping boundary in a lake using an Aquadopp HR Profiler

Danielle Wain, University of Bath

12:15 Lunch Break

13:00 Session III

Nortek Knowledge: Innovations in Laboratory Measurement with the Vectrino Profiler

- Velocity profiling with millimeter scale resolution
- Multi-instrument control
- Autonomous data collection

User Applications: Laboratory Studies

Measurements of the Schmidt Number in an oscillating grid turbulence tank

Daniel Conley, Plymouth University

14:00 Session IV

Nortek Knowledge: Coastal Engineering Measurements with the AWAC and Scour Monitor

- High energy and high frequency wave studies
- Ice draft measurements
- Scour monitoring

User Applications: Wave Studies

Hebrides Marine Research Centre: Wave measurements at an ocean energy site

Donald Armstrong, Lews Castle College

15:00 Coffee Break

15:15 Hands-On Demonstrations at FloWave

Introduction to activities at the FloWave facility

Thomas Davey, FloWave TT Ltd

18:00 Evening Out in Edinburgh (optional, but fun)