

Free flow turbines and their efficiency

Research and Industry Workshop

(April 22-23, 2010, University of Leicester, Leicester, UK).

[University Campus](#), ATT (Attenborough) Building, SB1.14

Participation is Free, Everybody is Welcome

April 22, 2010, Thursday

9:30-10:20 Tea and coffee

10:20 Workshop opening

10:30-11:30 [The Development of Tidal Current Turbines and Issues for Future Design and Operation](#); [Ian Bryden](#), Institute for Energy Systems, School of Engineering, University of Edinburgh, UK

11:30-12:20 [Tour of the Hydraulic Research Infrastructure, Department of Engineering](#), University of Leicester; [A. Rona](#) and [P. D. Williams](#)

12:20-13:50 Lunch

14:00-15:00 [Evopod Tidal Stream Turbine; Modeling and Testing](#); [Roger Cox](#), Ocean Flow Energy

15:00-16:00 [Transverse Horizontal Axis Tidal Turbines stretch across the flow for greater power](#); [Martin Oldfield](#), Department of Engineering Science, University of Oxford, UK

16:00-16:30 Tea and coffee

16:30-17:30 [The Helical Turbine for Hydro and Wind Power Applications](#); [Alexander M. Gorlov](#), Northeastern University, Boston, US

17:30 Refreshments and general discussion

April 23, 2010, Friday

9:30-10:00 Tea and coffee

10:00-11:00 [Assessment of the tidal stream resource in the Ria de Muros \(Spain\)](#); [G. Iglesias](#), [R. Carballo](#), [P. Bartolomé](#), Univ. of Santiago de Compostela, Lugo, Spain

11:00-12:00 [Application of Modelling Methods in Wind Turbine Engineering](#); [Andrej Horvat](#), [David Hartwanger](#), Intelligent Fluid Solutions Ltd., UK

12:00-13:30 Lunch

13:30-14:30 [Some Effects of Vorticity and Three-Dimensionality on Turbine Performance](#); [Paul Gostelow](#), Department of Engineering, University of Leicester, UK

14:30-15:30 [Stationary Flow around a Semi-Penetrable Obstacle with Maximization of Energy Absorption](#); **Alexander Demidov**, Moscow University, Russia

15:30-16:00 Exactly Solvable Models for Flows Around a Semi-Penetrable Obstacle, Alexander Gorban, University of Leicester, UK