

A Tour of the Aerodynamic and Hydraulic Research Infrastructure,
Department of Engineering, University of Leicester

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The Department of Engineering, University of Leicester, maintains a range of fluid dynamics test facilities. Dr. Rona and Mr. Paul Williams, Thermofluids Experimental Officer, will guide the audience in a tour of the experimental facilities that are more relevant to fundamental and applied flow turbine research.

The tour will start from the Charles Wilson wind tunnel (13:30 - 13:40), located under the Charles Wilson building. This is a closed-loop subsonic wind tunnel featuring two test sections, one of which is 1.8m x 2.1m in cross-section and is therefore of interest for reproducing conditions closer to free flow than a conventional narrow cross-section wind tunnel.

This will be followed by a visit to the Hydraulics laboratory, Engineering Tower (13:45-13:55). This laboratory houses the pumping station for the 100,000 gallon head tank on top of this building, which was purpose-built by architects Stirling and Gowan as a water tower.

The tour will move through the Thermodynamics laboratory to the hemi-anechoic chamber (13:55-14:05), which is designed for testing aerodynamic noise, and conclude back in the Michael Atiyah Room MA119 (14:10).