

風速計校正系統認證與極端風速量測技術研發

執行單位

成功大學航太系

計畫主持人

苗君易 教授

共同主持人

呂宗行 教授
蔡原祥 研究員

計畫人員

陳盈如 博士
陳儀珍 小姐

本計畫為期一年，計畫目的如下：

(1)依據IEC 61400-12-1國際規範建立風速計校正能量，完成申請TAF認證文件，利於未來申請國際認證工作。將邀請University of Oldenburg ForWind Research Center專家傳授國際認證經驗。

(2)推動與德國University of Oldenburg ForWind Research Center 共同研製球型風速計與風洞校正，未來將應用於台灣極端天氣情況下風速量測。

(3)進行Lidar現場風速量測，並與測風塔上杯型風速計數據進行比對，驗證杯型風速計在大氣紊流實況下的動態反應特性。

Accreditation of an anemometer calibration system and development of a wind speed measurement technique for extreme weather conditions

Execution Unit

Department of Aeronautics
and Astronautics, NCKU

Project Director

Dr. Miao, Jiun-Jih
Dr. Leu, Tzong-Shyng
Dr. Tsai, Yuan-Shiang

- Complete the application of TAF accreditation for the anemometer calibration system in a low-speed wind tunnel.
- Seek for the collaboration with the ForWind Center of University of Oldenburg, Germany. Calibrate a sphere anemometer developed by the ForWind Center in a high speed wind tunnel to simulate the extreme weather conditions.
- Compare the instantaneous wind data obtained by a calibrated anemometer and Lidar instrument to validate the calibration of the anemometer.