ICT INTERNATIONAL WORKSHOP: PLANT HYDRAULICS AND WATER RELATIONS

VENERDÌ 28 MARZO 2025
ore 09:00 – 17:00
Aula Magna del Dipartimento Scienze Agrarie, Alimentari e Agro-ambientali

9:00 – 9:15 Registration
9:15–9:20 Director's Welcome Remarks
9:20 – 9:35 Challenges and Opportunities in Measuring Plant hydraulics and water relations. À. Puig-Sirera
9:35 – 10:05 Principles and measurements of plant water relations. B. Umali
10:05 – 10:20 Psychrometer chamber appreciation. F Rigato
10:20 – 11:20 Psychrometer Demo installation in leaves and stems. F. Rigato and B. Umali
11:20 – 12:20 Plant water use measurement using sap flow technique. F. Rigato

12:20 – 13:20 Lunch break.

13:20 – 14:50 Continuation of Psychrometer Demo and Measurement protocols. B. Umali
14:50 – 15:20 Introduction to ICT IoT Systems. B. Umali
15:20 – 16:50 Basic data interpretation of sap flow and psychrometer; managing devices (uninstalling, cleaning, storage). B. Umali and F. Rigato

Presenters

Àngela Puig-Sirera
Àngela is a researcher in Hydraulics & Agricultural Hydrology at the AgrHySMo Lab, University of Pisa, specializing in feed-forward and feedback-control approaches to monitor and manage water status in sparse crop systems. Her research integrates energy balance models, GIS, and remote sensing to identify crop water stress in agroecosystems and urban green environments.

Ben Umali
Ben has backgrounds in forestry, GIS and soil science and obtained his PhD in Agriculture from the University of Adelaide. He is Plant Application Scientist at ICT International. This role enables him to work with many scientists across the world in the measurement of plant water status.

Eliana Francesca Rigato
Fran has a Master of Science degree in Forestry and Environmental Science from the University of Padova (Italy). She gained extensive field work experience in the plant industry, native ecosystems management and protection after migrating to Australia in 2016. She has been a Forestry scientist at ICT since 2019 and worked mainly in technical sales, field installations and training customers in soil, plant and environmental monitoring solutions.

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