SOCIETÀ DI ORTOFLOROFRUTTICOLTURA ITALIANA

FIRENZE

SEMINARI DI ALTA FORMAZIONE SCIENTIFICA

TRENDS IN PLANT ECOPHYSIOLOGY AND ECOSYSTEM ECOLOGY RESEARCH

P. S. Nobel Distinguished Professor Emeritus, University of California Los Angeles
Prof. D. Baldocchi, University of California Berkeley

in cooperation with:

Dipartimento di Colture Arboree
Università degli Studi di Palermo

CNR-IBIMET Bologna

sponsored by:

Università degli Studi di Palermo

Regione Siciliana
Assessorato Agricoltura e Foreste

PALERMO, 23-27 JUNE 2008

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TIMETABLE	8.30 – 9.45 P.S. Nobel	10.15- 11.15 D. Baldocchi	11.45 – 13.00 P. S. Nobel	14.30 – 15.30 D. Baldocchi	16.00 – 17.15 P.S. Nobel D. Baldocchi
MONDAY	Solar Radiation, Infrared Radiation, Absorptances, Reflectances	Ecosystem Concepts: Complexity, Chaos and Scaling, part 1	Net Radiation, Boundary Layers, Heat Conduction and Convection	Ecosystem Concepts: Complexity, Chaos and Scaling, part 2	Dimensionless Numbers, Latent Heat– Transpiration, Dew, Frost
TUESDAY	Leaf Shape, Heat Storage, Time Constants, Soil Thermal Properties and Temperature	Defining Sources and Sinks: Ecosystem Structure and Function	Water Vapor Resistances and Conductances, Stomatal Properties, Cuticle, Intercellular Air Spaces, Fick's First Law	Ecosystem-Atmosphere Interactions	Conductance Values, Water Vapor Concentrations and Mole Fractions, Transpiration
WEDNESDAY	CO_2 Resistance/Conductance Network, Mesophyll Area, Mesophyll and Chloroplast Resistances	Ecosystem Microclimate: Light, Wind, Temperature, Humidity	CO_2 Fluxes Accompanying Photosynthesis, Photorespiration, Compensation Points	Ecosystem Models	Photosynthetic Rates, Water Use Efficiency, Stomatal Control, C_3 and C_4
THRUSDAY	Gas Fluxes above Plant Canopy, Eddy Diffusion Coefficients	Integrating or Scaling Information from Leaves to Canopy Scales	Gas Fluxes within Plant Communities, Light Compensation	Ecosystem Carbon Exchange: Principles, Data, and Models	Water Movement in Soil, Darcy's Law, Hydraulic Conductivity
FRIDAY	Water Movement in the Xylem and Phloem, Flow Mechanisms	Ecosystem Water Vapor Exchange: Principles, Data and Models	Soil–Plant–Atmosphere Continuum, Daily Changes	Measuring Fluxes: Eddy Covariance, part 1	Measuring Fluxes: Eddy Covariance, part 2

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The course is organised by SOI in cooperation with the University of Palermo and CNR-IBIMET and it is supported by the Regione Siciliana and the University of Palermo.
English will be the official language.

The Course is strictly dedicated to PhD. students, postdoc scientists, researchers and professors with a sound background in plant biology as well as biophysics and will give an advanced knowledge and training on basic themes as well as research results related to plant ecophysiology and ecosystem ecology.

Student selection will be made by the Organizers on the basis of the C.V. which has to be submitted together with the application form (Annex 1).

The Course will include 29 hours of lectures distributed over5 days. P. S. Nobel will account for 18 hrs, with 3 daily lectures of 75 min each (but 2 on Friday), while D. Baldocchi will account for 11 hrs with 2 daily lectures of 60 min (3 on Friday).

Participants will receive a certificate signed by SOI and the lecturers, as well as the Organizers.

Registration fees are 500 € and include 29 hr of lectures, lecture hall at the University of Palermo, books and working material, lodging in a *** Hotel in double rooms (single room excess rate is in charge of participants) breakfast and lunch.
SOI Members benefit of a 10% reduction in registration fees.
A get together party will be organised on Sunday 22 June from 19.30 to 22.00.
The Course will be given at the Class facilities of the University of Palermo, located in Viale delle Scienze.
Course Directors are: Proff. Paolo Inglese and Antonio Motisi, Università degli Studi di Palermo and Dr. Federica Rossi, CNR IBIMET Bologna.

Application deadline is 30 April 2008

For information and on line application please contact:

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