

VIII INTERNATIONAL COURSE ON IRRIGATION SCHEDULING

Lleida, 27-29th Feb 2012

"Advances in Irrigation and fertilization"

Water is one of the key factors in agriculture. Every day, the professional agronomist faces new technologies, new market necessities, legal requirements and technical challenges. This makes continuous training a necessity.

This 8th coming edition of the course is the ideal venue for summing up and exchanging knowledge regarding, both, irrigation and fertilization practices.

UdL and IRTA researchers will share with us their last advances, and LabFerrer and ECH2OSYSTEM consultants network will contribute with their field experience.

¿TO WHOM IT MAY INTEREST?

- Field agronomists
- Consultants
- Researchers and extension agents
- Researchers, and academia

MAIN GOALS OF THE COURSE:

- Onfarm implementation of Sustainable Irrigation management practices (from the damp to the field), from an economical, agronomical and ecological point of view
- Improvement of the understanding and applicability of the existing technology.
- Revision of accepted knowledge and practicum in areas where is needed



At the end of the course, the participant will :

- Understand the bases of the water and nutrients behaviour and their effects on fruit quality and yield.
- Be able to calculate easily all units, parameters and measurements related with irrigation scheduling: ETo, rain, T/HR, soil moisture, etc.
- Be able to create a farm irrigation plan (Strategy), establish patterns and alarms for adjusting the irrigation plan to the day-to-day events (tactics and heuristics).
- Know how to use different available technologies for irrigation scheduling: soil moisture probes, plant sensors, teledeteccion tools, etc.

Preliminary
Programme

ORGANIZED BY:

- DMACS-UdL
- LabFerrer & ECH₂OSYSTEM
- IRTA
- REGSA
- REGSEGA

WITH THE SUPPORT OF:

DHBJ-UdL
DAMM-ECA Tàrrrega
VITEC
Decagon Devices Inc (USA)
Fullstop[®] (Australia)
SAF, Optiriego
Consulting and
ECH₂O System[®]
Network

**Come to this space for open exchange of
knowledge and experience**

Time	27 February	28th February	29th February
9:00 a 9:45	SESSION-1 Conceptualization of Irrigation scheduling and plant nutrition management (JM Villar)	SESSION-7 Design, strategy and fertigation decision-making process in orchards (M. Pascual)	FIELD VISIT (JM VILLAR, M PASCUAL, J RUFAT, F FONSECA, J LORDAN, V MONTILLA, F FERRER)
9:45 a 10:15	Coffee break	Coffee break	
10:15 a 11:00	SESSION-2 Physiological bases, techniques and water stress indicators in crops (J. Marsal)	SESSION-8 Effects of physical-chemical soil properties on nutrient absorption and fruit quality (P. Villar)	
11:00 a 11:45	SESSION-3 Water x nutrients interaction in fruit trees (J. Rufat)	SESSION-9 Soil moisture sensors in the world: trends, limitations and challenges and new developments (L. Bissey)	
11:45: 12:00	Pause	Pause	
12:00 a 12:45	SESSION-4 Different irrigation strategies. (J. Casadesús)	SESSION-10 On-farm irrigation scheduling: soil, climate, crop and irrigation design (F. Fonseca)	
12:45 a 13:30	Image analysis techniques to evaluate growth in fruit trees (V. Montilla) Modifying physical-chemical properties of the root- explored soil (J. Lordán)	Discussion session, moderated by JM Villar & F Ferrer.	FIELD LUNCH (OPTIONAL)
13:30 a 15:30	Lunch break	Lunch break	
15:30 a 16:30	SESSION-5 High resolution remote sensing applications in irrigation scheduling (J. Bellvert, J. Girona)	SESSION-11 Exercise-1. FC, WMP and Water holding Capacity determination (SAF) Exercise-2. water and nitrates leaching determination (Optiriego) Exercise-3. Irrigation Plan and on-farm water use evaluation (Labferrer)	
16:30 a 17:00	Pause		
17:00 a 18:45	SESSION-6 Workshop: soil moisture probes, dataloggers and remote data Access (I) (LabFerrer)		
	WINE TASTING (VITEC)	COURSE DINNER	

DIRECTED AND COORDINATED BY:

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Information & Registration

Registration fee*: 175€

Maximum number of attendees: 30

Number of credits: 2

Number of hours: 30

**Lodging (lunch & sleep) not included in the registration fee*

For registration, contact us: info@lab-ferrer.com

Venue

Escola Tècnica Superior d'Enginyeria Agrària – ETSEA Universitat de Lleida (LLEIDA). <http://www.etsea.udl.es/spa/>

9:00 – 13.30

15:30 – 19:00

Lessons language will be mainly in Spanish, with support in English.

Lodging

The course fee does not include lodging.

For lodging information, please, contact Lleida Tourist Office and University apartments website: www.apartamentoscampus.com.



WATER IS NEEDED

1 glass of orange juice



170
litres

1 apple



70
litres

1 egg



135
litres

1 glass of milk



200
litres

1 orange



50
litres

1 potato



25
litres