



**LAB-FERRER**

Centro de Asesoria Dr Ferrer SL  
CIF: B-61994620  
Calle Ferran el Catòlic # 3, CP 25200  
Cervera (Lleida); Tel: 973 532 110  
[info@lab-ferrer.com](mailto:info@lab-ferrer.com)  
[www.lab-ferrer.com](http://www.lab-ferrer.com)

## ***V IRRIGATION SCHEDULING COURSE***

**Lleida, 23 – 27 February 2008**

### **ORGANIZED BY:**

Dept. de Medi Ambient i Ciències del Sòl. Universitat de Lleida ([www.macs.udl.cat](http://www.macs.udl.cat))

LAB-FERRER ([www.lab-ferrer.com](http://www.lab-ferrer.com))

IRTA. Grup Tecnologia del Reg, Centre UdL-RTA de Lleida ([www.irta.cat](http://www.irta.cat))

Regs de Catalunya S.A. - REGSA ([www.regsa.es](http://www.regsa.es))

Reg Sistema Segarra-Garrigues, S.A. - REGSEGA ([www.regsega.cat](http://www.regsega.cat))

Dep.. Horticultura, Botànica i Jardineria. Universitat de Lleida ([www.hbj.udl.cat](http://www.hbj.udl.cat))

### **WITH THE SUPPORT OF:**

Decagon Devices inc. ([www.decagon.com](http://www.decagon.com))

ICT International ([www.ictinternational.com.au](http://www.ictinternational.com.au))

UMS GmbH ([www.ums-muc.de](http://www.ums-muc.de))

SAF ([www.safsampling.com](http://www.safsampling.com)), SAVESA AGROGAL, TSC

Viticultura Australiana ([www.viticulturaaustraliana.com](http://www.viticulturaaustraliana.com))

VITEC

RIDECO-Consolider

Depto. Producción Agraria. Universidad Pública de Navarra

DAR-ECA Tàrrega

Agromillora Catalana

## **INTRODUCCIÓN**

This is the fifth edition of this course offered by the University of Lleida and organized with the cooperation of LAB-FERRER and IRTA. The course has three main goals:

- To create a friendly space to openly discuss and exchange experiences between scientists, technicians and consultants related to professional agriculture
- To teach how to use and apply the available tools, such as soil moisture sensors, information resources and other analytical methods, all management and problem solving oriented.
- To identify areas where a revision of the accepted knowledge and practicum is needed



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In the previous editions the course has had professional collaborations from all over the world: **Lowell Zelinsky** from Precision Ag ([www.precisionaginc.com](http://www.precisionaginc.com)), **Richard Stirzaker** from CSIRO ([www.clw.csiro.au/staff/stirzakerR](http://www.clw.csiro.au/staff/stirzakerR)), **Marc van Iersel** from University of Georgia (<http://mvanier.myweb.uga.edu>), **John Lea-Cox** and **Andrew Ristvey** from University of Maryland ([www.psla.umd.edu/faculty](http://www.psla.umd.edu/faculty)).

In this coming edition, we have the pleasure to have the following invited professionals:

- **Ben-Gal Alon** PhD from the Agricultural Research Organization, Volcani Center (Israel) ([www.agri.gov.il/en/people/631.aspx](http://www.agri.gov.il/en/people/631.aspx))
- **Lauren Bissey** MSc, Soil moisture product manager from decagon devices inc (USA) ([www.decagon.com/commercial](http://www.decagon.com/commercial))
- **Gonzaga Santesteban**, viticulture specialist, Plant Production Dept, Universidad Pública de Navarra
- **Marc Gelly** PhD, viticulture specialist, from VITEC (Priorat)
- **Xavier Rius** (Agromillora Catalana)

And the main topics that will be covered are:

- **Viticulture, olives and fruit trees**
- **Irrigation with brackish water**
- **Soil and water management under saline conditions**
- **Soil moisture data interpretation**
- **Soil moisture sensors, loggers and data acquisition**
- **Software for water management and irrigation scheduling**

### **¿TO WHOM IT MAY INTEREST?**

- Field and irrigation related technicians
- Consultants
- Researchers and extension agents



**PROGRAM**

*PART 1*

Time	Monday, 23 Feb	Tuesday, 24 Feb	Wednesday, 25 Feb.
30'	Presentation	Basic concepts to interpret and get information from soil moisture data	FIELD TRIP
50' + 10'	Monitoring and diagnosis of crop stress		
20'	Coffee break		
50'+20'	Irrigation of olive trees (A. Ben-Gal)		
50+10'	Good use of soil moisture sensors (L. Bissey)		
120'	Lunch break		
90'	Case study: building a seasonal water strategic plan for your crop		
90'	Case study: interpreting real time soil moisture data for irrigation scheduling		

Language: english and spanish with support

*PART 2*

*Practicum*

Time	Thursday, 26 Feb	Friday, 27 Feb
30'	Basic concepts and case study examples to manage soil and water salinity	Lab and field on-hands: Installing sensors in the field, data retrieving and analysis of results
50' + 10'		
20'	Coffee break	
50'+20'	Ultra-high frequency irrigation (A. Ben-Gal)	
50+10'	Software Controller 3000 8X. Martinez ITC)	
120'	Lunch break	Conclusion
90'	Lab and field on-hands:	
90'	Manipulating sensors, loggers and data acquisition systems and software	

Language: english and spanish with support



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### **DIRECTION OF THE COURSE:**

**Josep Maria Villar**

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### **INFORMATION AND REGISTRATION:**

#### ***Registration:***

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***Inscription fee: 164€***

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Tel.: +34-973-702538

### **VENUE:**

ETSEA – Universitat de Lleida  
Avda Alcalde Rovira Roure, 191  
25198 LLEIDA

9:00 – 13.30 Morning

15:30 – 18:00 Afternoon

- **The fee does not include lunch or lodging**
- **For lodging:**
  - Check the website of Turisme de Lleida
  - Apartamentos Universitarios Campus ([www.apartamentoscampus.com](http://www.apartamentoscampus.com))
- **Accessing Lleida:**
  - By train: [www.renfe.es](http://www.renfe.es)
  - By Bus: [www.alsa.es](http://www.alsa.es)



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