

## Preliminary Programme of the IP course SUSTMONT

### Objectives

Universities of Zaragoza and Lleida, and Instituto Pirenaico de Ecología (IPE) Jaca, are hosting an Erasmus Intensive course in Spain this June, jointly with the University of Innsbruck and the Centre for Ecology and Hydrology (CEH) Banchory. Participants are students from Austria, Hungaria, Italy, Spain, and elsewhere. The course starts in Barcelona (3 days), then moving to Fraga in the Ebro Valley (2 days) and San Martin in the Moncayo Natural Park (2 days) for lectures and field visits and finishes with five days in Hecho in the Spanish Pyrenees. Erasmus Lifelong Learning Programme is an EU funded scheme to encourage international teaching courses to bring together students from different European Universities. The course is a chance to hear more about the work at the contributing Universities and research institutions, and also to participate in field visits and lectures to the salted lagoons of *Bujaraloz*, the Natural Parks *l'Aiguabarreig*, *Moncayo*, *San Juan de la Peña*, *Ordesa* National Park, the Eolic Park of *La Muela de Borja*, the ski area *Formigal*, and elsewhere. The course will visit sites where there are conflicts between different types of land use, and will see some of the management strategies that are being adopted to resolve problems. Throughout we will be considering the key types of information need to monitor change, and whether there might be alternative management approaches to those already adopted. We will also become aware of how much management is driven by the political social and economic perspectives of land use. Three decision modelling workshops at Barcelona and Hecho will connect the field visits and lectures with landscape management.

### Accomodation

02 June – 04 June	<b>Barcelona:</b> Shared rooms in self catering hostel.
04 June – 06 June	<b>Fraga:</b> Shared rooms in a hotel. Breakfast and lunch provided
06 June – 09 June	<b>San Martin:</b> Shared rooms in a hotel. Breakfast and lunch provided
09 June – 15 June	<b>Hecho:</b> Shared rooms in a hotel. Breakfast and lunch provided

### Preliminary Programme

**Monday 02 June 2008** Arrival from abroad at Barcelona  
1600 – 1900 Opening lecture for students from abroad

**Tuesday 03** Lectures in Barcelona  
0930 – 1400 Ecology and economy of the Pyrenees

**Wednesday 04** Workshop 1 in Barcelona  
0930 – 1400 Half day workshop on selecting sustainability indicators.  
1500 Bustransfer to Fraga (Bajo-Cinca),

**Thursday 05** Field visits and lectures in Fraga (Bajo Cinca)  
0900 – 1300 Lectures in Fraga (*Palau Montcada*): Evolution of the land-use changes and consequences in plant communities and soils in the Bajo Cinca zone. Socio-economic and environmental impacts in the water management.  
1400 – 2000 Field visit through the not irrigated agricultural areas. Lectures on conflicting environmental protection and development of new irrigated zones

**Friday 06** Field visit and lectures  
0830 – 1600 Ecology and management of the Natural Park *l'Aiguabarreig* (Fraga-Seros) including a bird watching tour. Discussion of conflicting ecotourism, agriculture and water management in the Ebro Valley.

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Field trip till *Punta Cremada* and explanation of fire effects on the soil-plant relations and of plant successions and abandonment.

- 1630 – 1900 Field visit at the salt lakes *Bujaraloz* and lectures concerning ecology and management of the salt lake area in the Ebro Valley and bio geographical singularities of the *Monegros* steppe. Travel to San Martin (Moncayo NP)
- 2000 Arrival at *San Martin de la Virgen de Moncayo*
- Saturday 07** Field visit and lectures in the Southern part of Natural Park Moncayo  
0830 – 1700 Field visit showing the ecology and management of the Southern part of Natural Park Moncayo.
- 1730 – 2000 Optional visit to Tarazona, the village of three cultural époques (Christians, Jewish and Muslims)
- Sunday 08** Field visit and lectures in the Southern part of Natural Park Moncayo  
0830 – 1700 Field visit showing the ecology and management of the Southern part of Natural Park Moncayo.
- Monday 09** Field visits and lectures in Borla and Loarre Castle  
0930 Departure from San Martin to Borja  
1100 – 1200 Field visits and lectures at the Eolic Park of *La Muela de Borja*  
1230 – 1900 General transect throughout the Ebro Valley with special stop in the Loarre Castle. Explanation of plant cover, landscape and historical importance of the *Reconquest* process.
- 1900 Arrival at Hecho in the Pyrenees
- Tuesday 10** Field visits and lectures in the French National Park  
0830 – 1800 Field trip from the French National Park back to Hecho
- Wednesday 11** Biological Farming and Formigal ski area  
0830 – 1400 Biological Farming  
1500 – 1800 Field visit at Formigal ski region and lecture concerning the development of ski areas in the Pyrenees and conflicting environmental protection concerns
- Thursday 12** Field visits and lectures in the Ordesa National Park  
0830 – 1700 Field visit in the Ordesa National Park and lectures concerning ecology and socio-economic aspects of the Ordesa and Monte Perdido National Park. Field lectures on Management of hunting and wild fauna in Aragon.
- Friday 13** Workshop (Hecho) and Field Visit and Lectures (*San Juan de la Peña*)  
0900 – 1100 Introduction to Workshop 2 (Hecho)  
1100 – 2000 Field visit in the Natural Park *San Juan de la Peña* and lectures on ecology and socio-economic aspects of the Natural Park
- Saturday 14** Workshop 3 in Hecho  
0930 – 1300 Half day workshop 2: Choose between three different development plans for the Formigal Ski Resort  
1600 – 2000 Half day workshop 3: Alternative management for Hecho Valley  
2100 Farewell dinner
- Sunday 15** Final discussion and return home Bus to Barcelona Airport  
0800 – 0900 Final discussion and evaluation of the students project works  
0930 Finish of the IP course SUSTMONT and departure from Hecho to Barcelona