

# ERASMUS Intensive Course EUROSTAIN

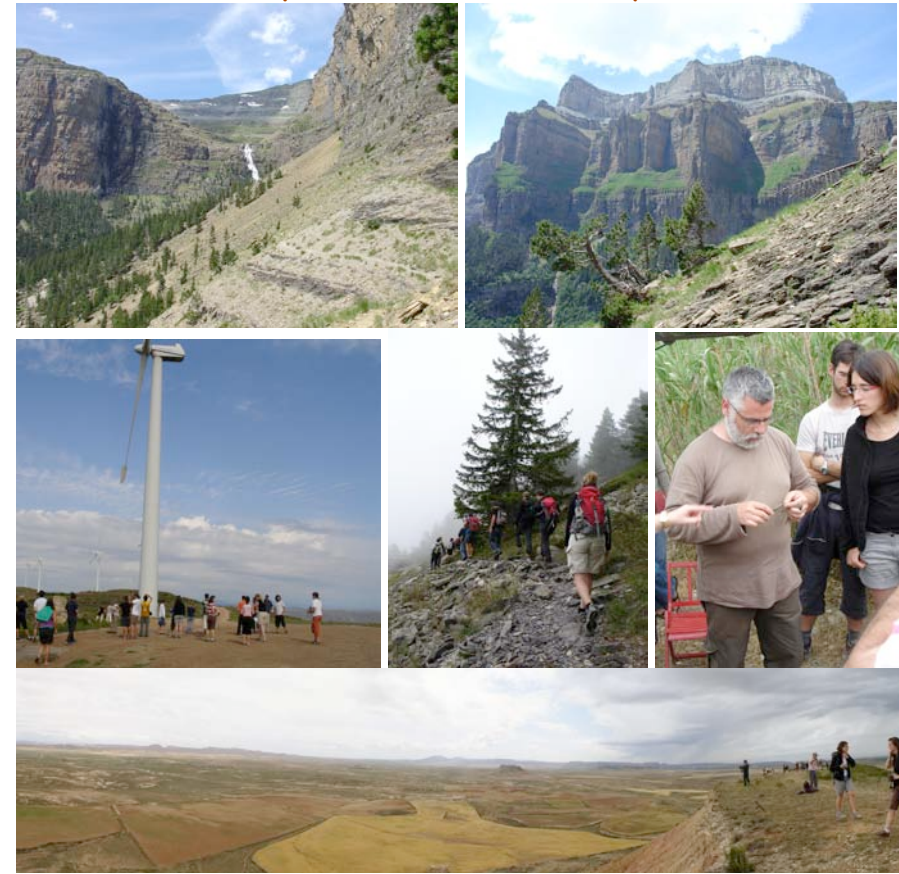
## Spain, 16<sup>th</sup> to 29<sup>th</sup> May 2011

### Lectures contributing Partner-Institutions:

Universities of Innsbruck<sup>1</sup>, Trento<sup>2</sup>, Bolzano<sup>3</sup>, EPSH-Zaragoza<sup>4</sup>, Navarra<sup>5</sup>, Autònoma Barcelona<sup>6</sup>, Lleida<sup>7</sup>, Aberdeen<sup>8</sup>, Nitra<sup>9</sup>, and research centres IPE (CSIC) of Zaragoza<sup>10</sup>, EURAC Bozen<sup>11</sup>, CITA-Aragón<sup>12</sup>

### Institutions contributing Stakeholders to the IP:

Comarca del Bajo Cinca/Baixo Cinca, Institut de Ciències de la Terra *Jaume Almera* (CSIC), Consejo de Protección de la Naturaleza de Aragón, Ajuntament de Seròs<sup>13</sup>, Ayuntamiento de Mequinensa<sup>19</sup>, Ayuntamiento del Valle de Hecho, Parque Nacional de Ordesa y Monte Perdido, Parque Natural del Moncayo, Parque Natural de Bardenas Reales, Parque Natural de Los Valles Occidentales, Paisaje Protegido de San Juan de la Peña y Monte Oroel, Sobrarbe Geopark<sup>14</sup>, Wind park *La Muela de Borja*, Mountain and skiing guide<sup>15</sup>, Professional Ringer<sup>16</sup>, Fishing Guide<sup>17</sup>, Farmer<sup>18</sup>, Mountain and skiing guide<sup>19</sup>



Valle de Hecho



Ajuntament de Mequinensa



## Course from the Ebro Valley to the Spanish Pyrenees "Training on Sustainable Management of European Mountain Regions"

**General co-ordinator:** Prof. Dr. Alexander Cernusca  
Institute of Ecology, University of Innsbruck, Austria

### Field visit organised and conducted by:

Prof. Dr. Alexander Cernusca, Dr. Maya Cernusca, Dr. Neil Bayfield,  
Dr. David Badia, Dr. Federico Fillat, Dr. Daniel Gómez,

## Monday 16

**14:00** Arrival from abroad at Barcelona

**16:30-19:00** Institut de Ciències de la Terra *Jaume Almera* (CSIC) - **Introductory Lectures**

- Welcome address and General Introduction into IP course EUROSTAIN (Cernusca<sup>1</sup>)
- Scientific background of the IP course (Cernusca<sup>1</sup>)

## Tuesday 17

**09:30-16:00** Institut de Ciències de la Terra *Jaume Almera* (CSIC) – **Introduction to Landscape modelling and stakeholder consultation**

- Scientific background of the IP course - continued (Cernusca<sup>1</sup>)
- Sustainable water management in Alpine Mountain Areas (Comiti<sup>3</sup>)

**16:00** Departure by bus to Fraga (from Metro Station Liceo)

**19:00 - 21:00** Lectures in Fraga

- Press conference (with local and regional politicians)
- General introduction to the Ebro Valley characteristics (Badía<sup>4</sup>)
- Geological Heritage and sustainable development (Belmonte<sup>14</sup>)

## Wednesday 18

**09:00-13:00** Lectures in Fraga

- Agricultural Systems of the Ebro Valley (Cantero<sup>7</sup>)
- New irrigated agricultural lands (Cuchi<sup>4</sup>)

**16:00-19:00** **Field visits and lectures to the most arid inland region in Europe** (Badía<sup>4</sup>, Fillat<sup>10</sup>, Cernusca<sup>1</sup>)

- Field visit and lecture in the salt-playa lakes area (Herrero Isern<sup>12</sup>)
- A wetland produced by irrigation in Candasnos

## Thursday 19

**08:30-14:00** **Field visits and lectures - Ecology and sustainable management of the nature space Aiguabarreig** (Badía<sup>4</sup>, Fillat<sup>10</sup>, Cernusca<sup>1</sup>)

- Biological Station of Aiguabarreig: ringing birds (Bernal<sup>16</sup>, Lacruz<sup>13</sup>)
- Soil restoration in coal mining areas (Poch<sup>7</sup>).
- Visit at the Museum of Mining Industry in Mequinenza (Stegherr<sup>19</sup>)
- Fishing and socio-economic activities at Mequinenza dam (Valette<sup>17</sup>)

**16:00-19:00** **Fraga, Decision Modelling Workshop – Sustainable arid land development**

- Ecological background (Badía<sup>4</sup>)
- Workshop introduction (Cernusca<sup>1</sup>)
- Three groups are considering alternative development plans (Energy, Tourism, Agriculture)

## Friday 20

**08:00** Departure by bus to San Martin

**11:00** Arrival at San Martin, unload of the luggage and departure to Bardenas Reales

**13:00-17:00** **Field visits and lectures – Bardenas Reales Nature Park**

- Sustainable management of Bardenas Reales NP (Peralta<sup>5</sup>, Gómez<sup>10</sup>, Fillat<sup>10</sup>, Cernusca<sup>1</sup>)
- Visit of Tarazona – central village of the Moncayo region

**20:00** Arrival by bus at San Martin

## Saturday 21

### 08:30-18:00 Sustainable management of the Northern Moncayo Natural Park

- Field visit and lectures in the Northern (siliceous) part of Moncayo Natural Park (Gómez<sup>10</sup>, Fillat<sup>10</sup>, Cernusca<sup>1</sup>)

### 19:00-21:00 Evening lectures in San Martin

- Planning and management of Nature 2000 Network (Gil<sup>10</sup>)
- Plant conservation in Moncayo Range: Why and how to conserve it? (Gil<sup>10</sup>)

## Sunday 22

### 08:30-18:00 Sustainable management of the Southern Moncayo Natural Park

- Field visit and lecture in the calcareous rocky hills and Mediterranean grasslands. Ecological features and landscape interpretation (Gil<sup>10</sup>, Gómez<sup>10</sup>, Fillat<sup>10</sup>, Cernusca<sup>1</sup>)
- Sustainable Organic Goat Farming
- Lunch (13:00) at Restaurant “La Corza Blanca” (based in local organic productions)
- Field visit and lectures from Talamantes to Peñas de Herrera

## Monday 23

### 09:30 Departure by bus from San Martin to Hecho crossing the Ebro-Valley from S to N

### 10:00-12:00 Field visits, lectures and workshop – wind park of *La Muela de Borja*

- Success stories and conflicts of wind parks in Spain (Gómez<sup>10</sup>)
- Introduction to environmental Impact Assessments (EIA) for wind parks (Cernusca<sup>1</sup>)
- Students report about EIA for wind parks in their home countries

### 12:00 Departure by bus to Loarre Castle.

### 14:30-17:00 Field visits and lectures – Loarre Castle (Gómez<sup>10</sup>, Fillat<sup>10</sup>, Cernusca<sup>1</sup>)

### 20:00 Arrival by bus at Hecho

## Tuesday 24

### 09:00-13:00 Field visits, lectures and workshop – Ski Resort Candanchú

- Explanation of the present activities and future plans (Sansebastián<sup>15</sup>)
- Introduction to Environmental Impact Assessments (EIA) for ski resorts (Cernusca<sup>1</sup>)
- Students report about EIA for ski resort in their home countries

### 15:00-16:00 Field visits and lectures – Organic farming “O Xortical” (Villanua)

- Field visit to the organic farming (Gómez<sup>10</sup>, Fillat<sup>10</sup>, Cernusca<sup>1</sup>, Domínguez-Cantín family<sup>18</sup>)

### 17:00-19:00 Field visits and lectures – Protected Landscape San Juan de la Peña

- Effects of land-use changes, ecosystem services and game management focusing on the Hecho Valley as an example (Gómez<sup>10</sup>, Herrero<sup>4</sup>, Cernusca<sup>1</sup>)

## Wednesday 25

**09:00-13:00 Lectures and Decision Modelling Workshop, Hecho** (Bayfield<sup>8</sup>, Cernusca<sup>1</sup>)

- Introduction to decision methods that involve stakeholders
- Sustainable energy for houses, communities and regions
- Ecotourism: is it the answer to sustaining mountain communities?

**15:00-18:00 Decision Workshop – Sustainability Indicators Development, Hecho**

- Identification of social, economic and ecological indicators of sustainability
- Introductory talk followed by three groups debating and prioritising indicators for ski resorts

**18:00-20:00 Documentary Movie and Discussion**

- “BEES TERRITORY, MENS LANDSCAPE“ movie presentation and discussion with the director of the movie Daniel Orte

## Thursday 26

**09:00-13:00 Decision Workshop** (second part) **Hecho** (Bayfield<sup>8</sup>, Cernusca<sup>1</sup>)

- Electronic voting on highest priority indicators to identify the most sustainable of three alternative scenarios for development of a ski valley

**15:00-19:00 Field visit and lectures – Los Valles** (Hecho and Ansó Valleys)

- Ecology, Socio-Economy and Culture of the Hecho and Ansó Valleys (Fillat<sup>10</sup>)

## Friday 27

**09:00-19:00 Field visits and lectures (Ordesa National Park)**

- Ecological features and singularities of the Ordesa NP (Gómez<sup>10</sup>, González<sup>10</sup>, Cernusca<sup>1</sup>)
- Sustainable management of the Ordesa NP
- New information centre at Torla, Ordesa NP

**21:00-23:00 Farewell Dinner**

## Saturday 28

**09:00-16:00 Decision Modelling Workshop, Hecho** (Bayfield<sup>8</sup>, Cernusca<sup>1</sup>)

- Three groups are considering alternative management plans (Eco-Tourism, Local Quality Produce, Renewable energy) for the Echo Valley

**18:00-20:00 Barn Dancing**

## Sunday 29

**08:00-10:00 Final discussion and evaluation of the IP course** (Cernusca<sup>1</sup>),

- **10:00** Departure by bus to Barcelona airport
- **16:00** Arrival by bus at Barcelona airport/Metro Station Liceo. **End of the IP course.**