



Erasmus Intensive Course, Ebro Valley, Moncayo NP, Spanish Pyrenees 16th to 29th May 2011



IP Course EUROSTAIN: "Training on Sustainable Management of European Mountain Regions"

General co-ordinator: Prof. Dr. Alexander Cernusca (Institut of Ecology, University of Innsbruck). Sternwartestrasse 15, A-6020 Innsbruck, Austria

Field visit in EbroValley organised and conducted by:

Dr. Alexander Cernusca, Dr. Maya Cernusca, Dr. Neil Bayfield, Dr. Daniel Gómez, Dr. David Badia, Dr. Federico Fillat, Dr. Ricardo Garcia-González.

Lecturers

Dr. **Jordi Bartolomé**, Autonomous University of Barcelona
Mr. **Juan Bernal** (Professional Ringer in the Aiguabarreig)
Mr. **Alberto Bueno**, Forest Ranger of the Aragon Government
Dr. **Carlos Cantero**, University of Lleida. ETSEA.
Dr. **Carmen Castañeda**, (CSIC, Zaragoza)
Mr. **Jordi Castellano** (*Folia* Consultors, Madrid)
Mr. **Luis Cazcarro** (Organic Farm, Orós Alto-Biescas)
Dr. **Ricardo García-González** (IPE-CSIC)
Mrs. **Teresa Gil** (Biologist of the Moncayo Natural Park)
Dr. **Juan Herrero** (Alcalá de Henares University)
Mrs. **Mari Angels Lacruz** (Bird Watching Tourist Office, Serós)
Dr. **Feliu López**, Autonomous University of Barcelona
Mr. **Daniel Orte**, film maker, "imanatfilms", nature plus culture
Dr. **Javier Peralta** (Públic University of Navarra)
Dr. **Enrique Playán** (CSIC, Zaragoza)
Mr. **Claude Valette**, professional fishing guide (Aiguabarreig)
Mr. **José Antonio Villacampa**, Director of Support and Safety of Aramon Group

Supported by: Institut de Ciències de la Terra *Jaume Almera*, Consejo de Protección de la Naturaleza de Aragón, Comarca del Bajo Cinca, Ayuntamiento de Fraga, Ajuntament de Seròs, Ayuntamiento del Valle de Hecho, Oficina Catalana de Turisme Ornitològic, Parque Nacional de Ordesa y Monte Perdido, Parque Natural del Moncayo, Parque Natural de Bardenas Reales, Parque Natural de los Valles Occidentales, Parque Natural de San Juan de la Peña y Monte Oroel, Estación de Esquí Aramón-Formigal,

Spanish Universities' participation: Universidad de Zaragoza, Universidad Pública de Navarra, Universitat de Lleida, Universitat Autònoma de Barcelona



IP Course EUROSTAIN 2011

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Monday 16 May Instituto Jaume Almera, Barcelona

Alexander Cernusca (University of Innsbruck)

- Introduction into IP course EUROSTAIN

Alexander Cernusca (University of Innsbruck)

- General explanation of the objectives of IP course EUROSTAIN

Tuesday 17 Instituto Jaume Almera, Barcelona

Alexander Cernusca (University of Innsbruck)

- Aims, methods and tools of IP course EUROSTAIN

Jordi Bartolomé (Autonomous University of Barcelona)

- Global change in mountains of Northern Spain

Feliu López (Autonomous University of Barcelona)

- Discourses of rurality in context of rural changes in the Pyrenees

17:00 Bus transfer from Metro Station Liceo to Fraga

Wednesday 18 Palau Montcada-Fraga

Carlos Cantero, University of Lleida

- Agricultural Systems of the Ebro Valley

- Discussion

Enrique Playan (CSIC-Zaragoza)

- New irrigated agricultural lands

- Landscape scenarios (GIS and visualization tools) showing possible dry land development in the Ebro Valley

David Badía (EPSH, University of Zaragoza),

- Introduction to the field visits in the Ebro Valley area

Afternoon: Field visit to the most arid inland region in Europe

David Badía (University of Zaragoza), Federico Fillat (IPE-CSIC)

Carmen Casteñada (CSIC-Zaragoza)

- Field visit and lecture in the La Playa area

- A Lagoon produced by irrigation

Thursday 19 Ecology and management of the nature space Aiguabarreig

(The confluence of Cinca, Segre and Ebro rivers). **David Badia** (*Univ. Zaragoza*), **Juan Bernal** (*Professional Ringer*), **Mari Angels Lacruz** (*Birdwatching Tourist Office de l'Ajuntament de Seròs, Aiguabarreig*), **Roger Sanmarti** (*Photo-Logistics and GEA365, Spain*), **Claude Valette** (*professional fishing guide*), **Federico Fillat**

- Biological Station Aiguabarreig
- Rehabilitation of coal mining areas
- Fishing as socio-economic activities at Mequinenza dam

Afternoon: Decision Workshop 1- Arid land development

Three Groups are considering alternative management plans

- **David Badia** Ecological background
- **Alexander Cernusca** Decision modeling introduction
- **Three students' groups present and discuss:**
Energy-Group Tourism-Group Agriculture-Group

17:00 Bus transfer from Fraga to San Martin, Moncayo

Friday 20 San Martin, Moncayo Natural Park

Daniel Gómez, Federico Fillat (IPE-CSIC)

- Field visit and lectures in the west part of Moncayo Natural Park

Teresa Gil (Biologist of the Moncayo Natural Park)

- Planning and management of Natura 2000 Network
- Plant conservation in Moncayo Range: Why and how to conserve it?

Saturday 21 San Martin, Moncayo Natural Park

Daniel Gómez and Federico Fillat (IPE-CSIC)

- Sustainable Organic Goat Farming
- Field visit and lectures in the Moncayo Natural Park from Talamantes to Peñas de Herrera

Sunday 22 Trip to Hecho crossing the Ebro Valley from South to North

Daniel Gómez, Federico Fillat (IPE-CSIC)

- Field visit and lectures at the Eolic Park of *La Muela de Borja*

Daniel Gómez, Federico Fillat (IPE-CSIC), Javier Peralta (Public University, Navarra)

- Field visit and lectures to the Natural Park of Bardenas Reales
- Field visit Loarre Castle

Monday 23 Field visits to San Juan de la Peña

Daniel Gomez (IPE-CSIC), Juan Herrero (EPSH, University of Zaragoza)

- Visit of San Juan de la Peña and field lectures on the effect of land-use changes, ecosystem services and game management focussing on the Hecho Valley as an example

Daniel Orte (movie director)

- *BEES TERRITORY, MENS LANDSCAPE* movie presentation and discussion with the director of the movie.

Tuesday 24 Lectures and Decision Modeling Workshop, Hecho

Neil Bayfield (Univ. of Aberdeen)

- Introduction to decision methods that involve stakeholders
- Sustainable energy for houses, communities and regions
- Ecotourism: is it the answer to sustaining mountain communities?
- Aims and tasks of the field visits "Organic farming and Formigal Ski area"

Workshop 2, Part 1 (Neil Bayfield): Hecho Sculpture Museum

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

Wednesday 25 Biescas Organic farming, Formigal ski resort

Federico Fillat (IPE-CSIC)

- Glaciation, Geology, land use and management of the Canal de Berdun

Federico Fillat (IPE-CSIC), Luis Cazcarro farm.

- Field visit to the Organic Farming of Mr. Luis Cazcarro family.

Afternoon: Field visit to the Firmigal ski resort

Neil Bayfield, A. Cernusca, Daniel Gómez, Federico Fillat (IPE-CSIC)

- Short introduction into location and ecological problems of Formigal ski resort
- Discussion on EIA for such ski resorts
- New Ski resorts in the Pyrenees in context with sustainable development

Meeting with Representatives of Formigal ski resort

- Explanation on the present activities and future plans of the Formigal area
- Discussion

Thursday 26 Decision Modeling Workshop 2, Part 2

Workshop 2, Part 2 (*Neil Bayfield*): Hecho Sculpture Museum

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

Afternoon: Field visit to Hecho Valley

Federico Fillat (IPE-CSIC) Ecology, Socio-Economy and Culture of the Valley

Friday 27 Decision Workshop 3, Hecho

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

Dr. Neil Bayfield (University of Aberdeen)

- General introduction into aims and topics of Decision Workshop 3

Students presentations

- Local Products ➤ Ecotourism ➤ Renewable Energy
- Discussion ➤ Discussion ➤ Discussion

Evening: Barn Dances, Hecho Sculpture Museum

Saturday 28 Ordesa and Monte Perdido National Park

Ricardo García Gonzalez, Daniel Gómez, (IPE-CSIC), .

- Introduction
- Management of hunting and wild fauna
- Features of the field visit in the Ordesa NP
- New National Park visitors centre in Torla

Evening: Farewell dinner

Sunday 29 Final day of the IP course

05:00 Bus transfer from Hecho to Barcelona airport

12:00 End of IP course EUROSTAIN at Barcelona airport