



SUSTMONT: Tools and methods of sustainable rural development in context with global change in European mountain areas

Lifelong Learning Intensive Programme, Spain,
2 to 15 June 2008

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

Field visit in the EbroValley organised and conducted by:

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

Monday, 2

17:00–19:30 Delegation of CSIC- Barcelona

Welcome Address and Introduction

Prof. Dr. **Alexander Cernusca**, University of Innsbruck, Austria

Lecture on Rurality and global change in mountains of N of Spain

Dr. **Jordi Bartolomé** and Dr. **Feliu López**, Autonomous University of Barcelona.

Tuesday, 3

10:00–14:00 Delegation of CSIC- Barcelona

Aims and tasks of the IP course SUSTMONT

Prof. Dr. **Alexander Cernusca**, University of Innsbruck, Austria

Introduction on Consultative Ecology

Dr. **Neil Bayfield**, Celtic Environmental Green Park Steading, Scotland (UK)

Scaling up Ecosystem services to Landscape Level

Prof. Dr. **Alexander Cernusca**, University of Innsbruck

Renewable Energy

Dr. **Neil Bayfield**, Celtic Environmental Green Park Steading, Scotland (UK)

Wednesday, 4

10:00–14:00 Delegation of CSIC- Barcelona

Workshop on selection sustainable indicators

Dr. **Neil Bayfield**, Celtic Environmental Green Park Steading, Scotland (UK)

17:00–19:00 Trip from Barcelona (Liceo) to Fraga (Casanova Hotel)

19.15 Lodgement in Casanova Hotel

21.0 Dinner in Casanova Hotel

Thursday, 5

08:30 Breakfast in Hotel Casanova and lunch take away

09:30–13:00 *Palau Montcada*, Fraga

Agronomic, socio-economic and environmental impacts on water management in the Ebro Walley by Dr. **Carlos Cantero** (University of Lleida)

Ecology of the Aiguabarreig environmental highlights and use conflicts by Dr. **David Badia** (University of Zaragoza)

13:30 Lunch in Fraga

16:00–20:00 Field visit to Ballobar, Candanos and Fraga (Las Menorcas, Cardiel and Valcuerna)

Agro-ecosystems. Old rained lands versus new irrigated areas, by Dr. **David Badía** (University of Zaragoza)

Avifauna of arid areas in the Ebro Valley: ecological interest and ecotourism (bird watching), by Mr. **Alberto Bueno** (Forest Ranger of the Government of Aragon and tourism guide).

Landscape and geology of the Ebro Valley. Geologic patrimony in the sustainable development, by **Anchel Belmonte** (Geologist, IES Bajo Cinca, Mequinenza)

21:00 Dinner in Hotel Casanova (Fraga)

Friday, 6

98:30–13:00 *Ecology and management of the nature space of the Aiguabarreig* (The confluence of Cinca, Segre and Ebro rivers)

SYLVIA Project. The avifauna of wet areas used as indicator of environmental quality.

Mr. **Juan Bernal**, Professional Ranger

Mr. **Guillem Chacon**, Director of Aiguabarreig Biological Station and President of the ONG Naturalists without Borders

Visit in Mequinenza. Explanations on *plant and soil recovery process after wildfire. The use of water in arid lands: beneficial and harmful effects of dams in Ebro river (Mequinenza, Riba-roja)*, by Dr. **David Badia** (University of Zaragoza)

13:30 Lunch in Mequinenza

15:00–18:30 Field visit and lectures in ZEPAS (Zones of special protection of birds) of Monegros Desert: salt playa lakes (Bujaraloz-Sástago) and juniper woodland in Monegros Desert. *Environmental protection and development of new irrigated zones conflicts in Monegros. Bio geographical singularity of the steppe and juniper wood*, by Mr. **Javier Blasco** (Aragon Nature Award Winner)

Saturday, 7

08:30 – 17:00 Field visit showing the ecology and management of the Mediterranean part of Moncayo Natural Park Lecture on Conservation Biology: *Why and how conserve species?* By **Teresa Gil** (Pyrenean Institute of Ecology)

17:30–20:00 Optional visit to Tarazona the city of three cultural époques (Christians, Jewish and Muslims)

Sunday, 8

08:30–17:00 Field visit and lectures in the Atlantic part of Moncayo Natural Park. Field visit showing the ecology and management of the Northern part of the Moncayo N P. Explanation of *Plan Rector de Uso y Gestión (Plan of*

utilization and management of the protected area) by Mr. **Raul Ayala**, Technician of Aragon Government.

Monday 9

Field visits and lectures in Borja and Loarre castle

- 09:30** Departure from San Martín
- 11:00–12:00** Field visit and lectures at the Eolic Park of *La Muela de Borja*
- 12:30–19:00** Visit to Bardenas Natural Park with explanation on *ecological and socioeconomic features of an exceptional sub arid area*, by Dr. **Javier Peralta** (Public University of Navarra)
- 19:00** Bus transfer and lodging in Riglos

Tuesday 10

- 09:30–14:00** Excursion realized around Mallos de Riglos *to cognize Mediterranean vegetation and landscape*. Conducted by Dr. **Daniel Gómez** (Pyrenean Institute of Ecology)
- Explanations realized on field about *current tourist exploitations (rafting) and landscape and geology of Riglos. Discussion on the water use conflict. The Biscarrués dam fight*. Conducted by Dr. **José Antonio Cuchí** (University of Zaragoza and President of *Friends of Galliguera*)
- Plant adaptations to xeric conditions; plant recovery after wildfire*. Explanations by Dr. **Clara Martí** (University of Zaragoza)

Wednesday 11

Workshop and San Juan de La Peña visit

- 09:30–13:00** Workshop 1 in Hecho
- 13:00–18:00** Visit to San Juan de la Peña and Jaca (if there is time enough). Lectures in field: *Nature conservation policy in Spain and socio economical interest of game in rural areas*. By Dr. **Juan Herrero** (University of Alaclá de Henares, Madrid)

Thursday 12

Biological farming and Formigal ski Area

- 08:30–14:00** Trip from Hecho to Senegüé and visit of the Glacial Interpretation Centre. Ecological farming discussions in Orós Alto (**Cazcarro** Family Farm) **15:00–18:00** Field visit at Formigal ski region and lecture concerning the *development of ski areas in the Pyrenees and conflicting environmental protection concerns*

Explanations realized by Mr. **Pascual Pérez** (Manager of the Aramon Formigal Ski Resort) and by **members** of Green NGOs. Conducted by Dr. **Federico Fillat** (Pyrenean Institute of Ecology)

Friday 13

Field visit and lectures in the Ordesa National Park

08:30–17:00 Field visit of Ordesa National Park. 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*. Conducted by Dr. **Ricardo García-González** (Pyrenean Institute of Ecology)

Saturday 14

Workshops in Hecho

09:30–13:00 Workshop 2. *Choose between three different development plans for the Formigal Ski Resort*, Conducted by Prof. Dr. **Alexander Cernusca** and Dr. **Neil Bayfield**

16:30–20:00 Workshop 3. *Alternative management for Hecho Valley*. Conducted by Prof. Dr. **Alexander Cernusca** and Dr. **Neil Bayfield**

21:00 Farewell dinner

Sunday 15

05:00 Return home. Bus from Hecho to Barcelona Airport

Lecturers:

Mr. **Raúl Ayala** (Biologist, SODEMASA)
Dr. **Jordi Bartolomé** (Autonomous University of Barcelona)
Mr. **Anchel Belmonte** (Geologist, IES Bajo Cinca)
Mr. **Juan Bernal** (Professional Ranger)
Mr. **Javier Blasco** (Naturalist, Aragon Nature Award Winner)
Mr. **Alberto Bueno** (Forest Ranger, Government of Aragón)
Dr. **Carlos Cantero** (University of Lleida)
Mr. **Xavier Carbonell** (Agronomist Engineer, *Arc Mediación*)
Mr. **Jordi Castellano** (*Folia Consultores*, Madrid)
Mr. **Luis Cazcarro** (Ecological Farm)
Mr. **Guillem Chacón** (Director of Aiguabarreig Biological Station)
Dr. **José Antonio Cuchí** (University of Zaragoza)
Mrs. **Mar Fábregas** (Forestry Engineer, *Arc Mediación*)
Dr. **Ricardo García-González** (Pyrenean Institute of Ecology-CSIC)
Mrs. **Teresa Gil** (Pyrenean Institute of Ecology-CSIC)
Dr. **Juan Herrero** (University of Alcalá de Henares)

Dr. **Feliu López** (Autonomous University of Barcelona)
Dr. **Clara Martí** (University of Zaragoza)
Dr. **Javier Peralta** (Public University of Navarra)
Mr. **Pascual Pérez**, Manager of Aramont Formigal Ski Resort
Mr. **Mariano Polanco** (Green NGO Ecologistas en Acción)

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