



Mountain pastures and livestock farming facing uncertainty: environmental, technical and socio-economic challenges

19th Meeting of the FAO-CIHEAM Mountain Pastures sub-network
14-16 June 2016 – Zaragoza, Spain



Third Announcement

Dear participant at the 19th Meeting of the FAO-CIHEAM Mountain Pastures Network,

As you already know, our upcoming meeting will be held in Zaragoza, Spain, next 14-16 June. The Seminar will be held at the Mediterranean Agronomic Institute of Zaragoza (IAMZ-CIHEAM), in the Aula Dei Campus (<http://www.iamz.ciheam.org/>). Detailed information on how to reach Zaragoza and the IAMZ is available in the Meeting website.

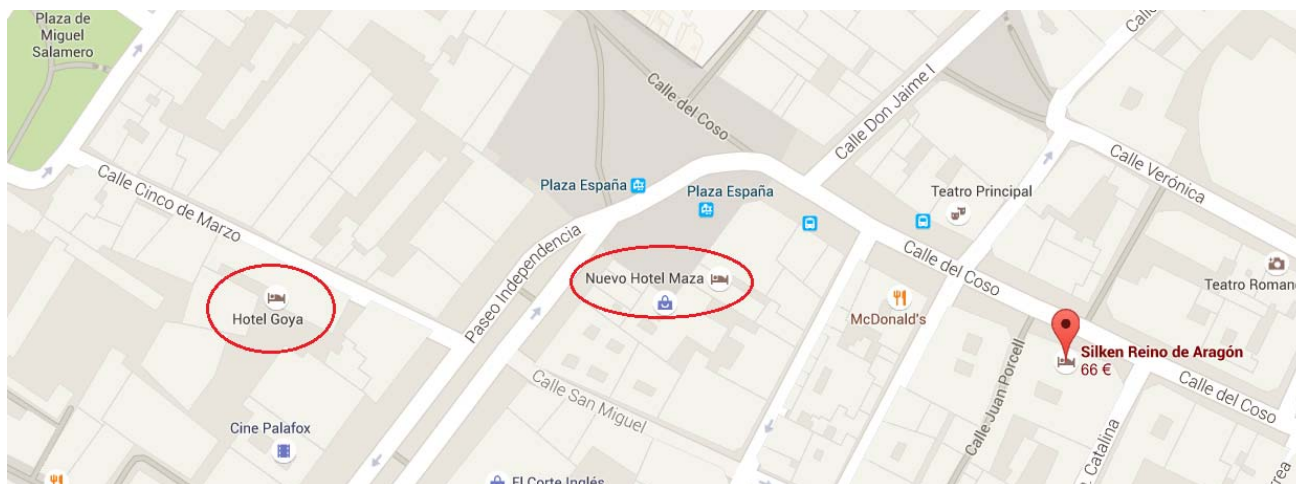
This last announcement aims to give you some practical information on **transport** and **instructions for oral and poster presentations**, please read them carefully. We also attach the **final program** of the meeting (scientific program and technical visit).

Looking forward to see you in Zaragoza!

The Organizing Committee

1. Transport

A bus transfer will be organized from Zaragoza center to the Mediterranean Agronomic Institute where the meeting will be held. The bus will depart from a bus stop in Coso street located in front of Hotel Reino de Aragón, less than a 5 minute walk from Hotels Goya and Maza provided by the organization.



The buses will depart from this stop at **8:00 on Tuesday 14 and Thursday 16**, but at **7:30 on Wednesday 15** for the mid-congress tour. The buses will be labelled IAMZ and a member of the organization will be there to collect you.

2. Instructions to authors

Oral communications

A video projector and PC computer will be made available for showing PowerPoint or PDF presentations. We recommend you save your PowerPoint presentation using PPT or PPTX format, and make sure all videos or animations in the presentation run automatically. JPG images are the preferred file format for inserted image (GIF, TIF or BMP formats will be accepted as well). Only fonts that are included in the basic installation of MS-Windows will be available. Use of other fonts not included in Windows can cause wrong layout / style of your presentation. The communication must be given in English.

Each session will be chaired by a chairperson who will introduce the speakers and initiate discussion. The speakers will have **10 minutes** to present their work, followed by 5 minutes to answer questions from the audience. The schedule of the meeting is tight and the chairperson will be asked to strictly respect the time assigned for each contribution, so **please prepare no more than 9-10 slides.**

Since there is no preview room, please send your files in MS-Power Point or Adobe PDF format to mountpast2016@iamz.ciheam.org before Friday 10 June, and please bring a backup copy of your presentation on a USB memory stick.

The file name must be the code for your communication as stated in the scientific program followed by your surname (example S2-O-3 Lobon).

Posters

The maximum size of the printed poster to hang up is 120x84 cm (A0 in portrait orientation), the size of the panel is 90x180 cm. Please do not plastify your poster, otherwise we cannot guarantee that it can be displayed properly.

We recommend that you mount your poster immediately after registering to the meeting. Conference helpers will be available to advise you. The poster boards will be numbered by the organizers, with the codes stated in the scientific program.

Presenting authors are expected to stand by their poster during the sessions after the coffee breaks.

3. Program of the Meeting

Tuesday 14 June 2016		
Morning	08:30 - 09:00	Registration
	09:00 - 10:00	<i>Profitability of permanent grassland: How to manage permanent grassland in a way that combines profitability, carbon sequestration and biodiversity? Alain Peeters, Koldo Osoro (Focus Group on Permanent Grassland, EIP-AGRI)</i>
	10:00 - 10:30	Session 1. Pathways towards mountain farming systems sustainability: assessment methods and case studies <i>“Multi-performances of beef cattle farms in less-favoured areas: drivers of their sustainability over the last 25 years. Questions and perspectives”. Patrick Veyssset et al. (INRA)</i>
	10:30 - 11:00	Coffee break
	11:00 - 11:30	Opening ceremony
	11:30 - 12:30	Oral presentations (I)
	12:30 - 13:30	Lunch

Afternoon	13:30 - 14:00	Oral presentations (II)
	14:00 - 15:30	Session 2. Livestock on mountain pastures: animal performance and product quality. <i>"The contribution of mountain pastures to the link to terroir in the case of meat and dairy products". Bruno Martin et al. (INRA, CITA)</i> Oral presentations (I)
	15:30 - 16:30	Coffee break + Poster session (authors by posters)
	16:30 - 17:30	Oral presentations (II)
Evening	18:30 - 21:00	Social Evening at Palacio de la Aljafería
Wednesday 15 June 2016		
	07:30 - 20:00	Mid-Congress tour: Mountain pastures and associated livestock production systems in the Pyrenees Mountain farming and cheese production (http://www.flordelaspe.com/) Mountain pastures in Aisa Valley (IPE, http://www.ipe.csic.es/) Mountain Research Farm La Garcipollera (CITA, http://www.cita-aragon.es/)
Thursday 16 June 2016		
Morning	09:00 - 10:30	Session 3. Animal-Pasture interactions in mountain areas: bottlenecks and opportunities in biodiversity management and forage production <i>"Grazing and biodiversity: from selective foraging to wildlife habitats". Michiel Wallis de Vries (Dutch Butterfly Conservation).</i> Oral presentations (I)
	10:30 - 11:15	Coffee break + Poster session (authors by posters)
	11:15 - 12:30	Oral presentations (II)
	12:30 - 13:30	Lunch
Afternoon	13:30 - 14:30	Oral presentations (III)
	14:30 - 15:00	Session 4. Mountain pastures and society: biophysical, economic and socio-cultural valuation of ecosystem services <i>"Pastoralist landscapes: building social capital to restore natural capital". Lynn Huntsinger et al. University of California Berkeley</i>
	15:00 - 15:30	Coffee break
	15:30 - 16:45	Oral presentations
	16:45 - 17:00	Summarizing and Closing session

4. Scientific Program

Tuesday 14 June 2016

09:00 - 10:00 Welcome Lecture

Chair: Juan Busqué (CIFA-Cantabria, Spain)

S0-K: PROFITABILITY OF PERMANENT GRASSLAND: HOW TO MANAGE PERMANENT GRASSLAND IN A WAY THAT COMBINES PROFITABILITY, CARBON SEQUESTRATION AND BIODIVERSITY? A. Peeters, K. Osoro

Session 1. Pathways towards mountain farming systems sustainability: assessment methods and case studies

Chairs: Alberto Bernués (CITA-Aragón, Spain) and Massimiliano Probo (University of Torino, Italy)

10:00 - 10:30 Keynote paper

S1-K: BEEF CATTLE FARMS IN LESS-FAVOURLED AREAS: DRIVERS OF SUSTAINABILITY OVER THE LAST 24 YEARS. IMPLICATIONS FOR THE FUTURE. P. Veysset, C. Mosnier, M. Lherm

11:30 - 12:30 Oral presentations (I)

S1-O-1: FIELD VALIDATION OF AN AUTOMATIC COEFFICIENT OF ELIGIBILITY OF PASTURES IN MOUNTAIN AREAS. J. Busqué, J.R. Rodríguez, G. Maestro

S1-O-2: ADOPTING A RESILIENCE LENS TO ACCOMPANY ADAPTATION TO CLIMATE CHANGE ON SUMMER MOUNTAIN PASTURES. B. Nettiér, L. Dobremez, S. Lavorel, G. Brunschwig

S1-O-3: INCREASED ARCTIC BEEF PRODUCTION. I. Hansen, G.M. Jørgensen, V. Lind

S1-O-4: ASSESSING THE SUSTAINABILITY OF A COMBINED EXTENSIVE/INTENSIVE BEEF PRODUCTION SYSTEM: THE CASE OF FRENCH SUCKLER COW-CALF FARMS INTEGRATED WITH ITALIAN BEEF FATTENING HERDS. M. Berton, M. Lherm, J. Agabriel, L. Gallo, M. Ramanzin, E. Sturaro.

13:30 - 14:00 Oral presentations (II)

S1-O-5: THE CURRENT STATUS OF TRANSHUMANCE SYSTEMS IN THE PROVINCE OF LEÓN (SPAIN), TOWARDS A MULTI-DIMENSIONAL EVALUATION. E. Velado Alonso, A. Gómez Sal

S1-O-6: COMPARING TRANSHUMANCE IN XINJIANG, CHINA AND CALIFORNIA, USA. W.J. Li, S. Talinbayi, L. Huntsinger

Session 2. Livestock on mountain pastures: animal performance and product quality.

Chairs: René Baumont (INRA, France) and Joel Berard (ETHZ, Switzerland)

14:00 - 15:30 Keynote paper + Oral presentations (I)

S2-K: THE CONTRIBUTION OF MOUNTAIN PASTURES TO THE LINK TO TERROIR IN THE CASE OF MEAT AND DAIRY PRODUCTS. B. Martin, M. Coppa, I. Verdier-Metz, I. M.C. Montel, I. Casasús, M. Joy, M. Blanco

S2-O-1: ALPINE GRASSLANDS: RELATION AMONG BOTANICAL AND CHEMICAL VARIABLES AFFECTING ANIMAL PRODUCT QUALITY. M. Renna, S. Ravetto Enri, M. Probo, C. Lussiana, V. Malfatto, L.M. Battaglini, M. Lonati, G. Lombardi.

S2-O-2: CLUSTERING FORAGE TYPES ACCORDING TO THEIR FEED NUTRITIVE VALUE. D. Villalba, E. Molina, J. Alvarez-Rodriguez

S2-O-3: EFFECTS OF FORAGE FEEDING AND THE INCLUSION OF QUEBRACHO IN EWES' DIET ON SUCKLING LAMB'S MEAT QUALITY. S. Lobón, A. Sanz, G. Ripoll, M. Blanco, J. Ferrer, A. Sedeño, M. Joy

16:30 - 17:30 Oral presentations (II)

S2-O-4: DIFFERENCES IN NUTRITIONAL QUALITY OF MILK PRODUCED FROM EWES REARED IN MOUNTAIN VERSUS VALLEY AREAS. L. Bravo-Lamas, N. Aldai, J. K. G. Kramer, L. J. R. Barron.

S2-O-6: ARE THE SPECIFIC SENSORY PROPERTIES OF PASTURE CHEESES LINKED TO MILK FAT COMPOSITION AND BACTERIAL DYNAMICS?. M. Fréтин, B. Martin, C. Bord, D. Pereira, M.C. Montel, C. Cirié, F. Fournier, C. Delbès, A. Ferlay.

S2-O-7: THE INTEREST OF A MOUNTAIN DAIRY COW BREED TO COPE WITH MEDITERRANEAN SUMMER HEAT STRESS. R. Bellagi, D. Pomies, B. Martin, T. Najar.

S2-O-8: GRAZING BEHAVIOUR AND BODY-WEIGHT GAINS OF STEERS GRAZING AT CANTABRIAN MOUNTAIN PASTURES. A. Román-Trufero, A. Martínez, V. García-Prieto, R. Rosa-García, K. Osoro, R. Celaya.

Thursday 16 June 2016

Session 3. Animal-Pasture interactions in mountain areas: bottlenecks and opportunities in biodiversity management and forage production

Chairs: Eric Mosimann (Agroscope, Switzerland), Manuel Schneider (Agroscope, Switzerland) and Daniel Villalba (Univ. Lleida, Spain, Spain)

09:00 - 10:30 Keynote paper + Oral presentations (I)

S3-K: GRAZING AND BIODIVERSITY: FROM SELECTIVE FORAGING TO WILDLIFE HABITATS. M. Wallis de Vries

S3-O-1: FLOWER-FORAGING INSECTS AND THEIR POLLEN LOADS IN MOUNTAIN PERMANENT GRASSLANDS. J.N Galliot, A. Farruggia, A. Bérard, A. Chauveau, A. Blanchetête, D. Genoud, D. Brunel

S3-O-2: WILD HERBACEOUS LEGUMES FOR PASTURES RESTORATION IN SIERRA NEVADA NATURAL PARK: FORAGE AND SEED YIELDS. M.E. Ramos-Font, M.J. Tognetti-Barbieri, J.L. González-Rebollar, A.B. Robles-Cruz

S3-O-3: IMMEDIATE EFFECTS OF PRESCRIBED BURNING ON C-RELATED TOPSOIL PROPERTIES IN CENTRAL PYRENEES. C.M. Armas-Herrera, D. Badía-Villas, C. Martí-Dalmau, J.O. Ortiz Perpiñá, A. Girona-García, J.L. Mora.

S3-O-4: TO WHAT EXTENT ARE MOUNTAIN PERMANENT GRASSLANDS DIFFERENT FROM LOWLANDS PERMANENT GRASSLANDS? RESULTS FROM A STUDY CONDUCTED IN FRANCE. R. Baumont, A. Michaud, E. Pottier, S. Pantureux

11:15 - 12:30 Oral presentations (II)

S3-O-6: GRASSLAND ODORSCAPE: A NEW TOOL TO EXPLORE THE ECOSYSTEMIC SERVICES. A. Cornu, A. Farruggia, E. Leppik, C. Pinier, F. Fournier, B. Meunier, D. Genoud, S. Toillon, F. Farruggia, B. Frérot

S3-O-7: TARGETED AND UNTARGETED ALKALOIDS CHARACTERISATION OF PASTURE HERBS IN EASTERN ITALIAN ALPS USING HIGH RESOLUTION MASS SPECTROMETRY. T. Nardin, E. Piasentier, C. Barnaba, A. Romanzin, R. Larcher.

S3-O-8: HABITAT SELECTION OF DAIRY-SHEEP IN ATLANTIC MOUNTAIN GRASSLANDS. M. Arzak, I. Odriozola, G. García-Baquero, L.J.R. Barron, A. Aldezabal.

S3-O-9: RECONCILING MEAT PRODUCTION AND BIODIVERSITY CONSERVATION ON MARGINAL PASTURES. T. Zehnder, M.K. Schneider, J. Berard, M. Kreuzer, A. Lüscher

S3-O-11: RESPONSE OF VEGETATION TO EXCLUSION AND GRAZING IN THE MEDITERRANEAN WET MOUNTAIN PASTURES (SIERRA NEVADA, GRANADA, SPAIN). A.B. Robles-Cruz, M.E. Ramos-Font, C. Salazar, J.L. González-Rebollar

13:30 - 14:30 Oral presentations (III)

- S3-O-5: HOW TO OPTIMIZE THE CARRYING CAPACITY OF JURA SUMMER PASTURES ?. E. Mosimann, M. Meisser, J.B. Wettstein.
- S3-O-10: TEMPORARY NIGHT CAMP AREAS: AN EFFECTIVE WAY TO RESTORE SUB-ALPINE SHRUB-ENCROACHED GRASSLANDS USING LIVESTOCK. M. Probo, M. Pittarello, S. Ravetto Enri, E. Perotti, M. Lonati, G. Lombardi
- S3-O-12: TRANSHUMANCE OF DAIRY COWS ON ALPINE SUMMER PASTURES: RELATIONSHIPS BETWEEN MILK PRODUCTION, PASTURE MANAGEMENT, AND INSECT BIODIVERSITY. G. Faccioni, M. Ramanzin, G. Bittante, L. Marini, E. Sturaro.
- S3-O-13: ADAPTATION OF AN ECOLOGICAL AND PASTORAL DIAGNOSIS TO THE ALBANIAN CONTEXT: CHALLENGES AND LESSONS LEARNED. A. Garnier, C. Bernard, P. Dobi, S. Girardin, F. Launay, F. Lerin, J. Marie, B. Medolli , B. Sirot

Session 4. Mountain pastures and society: biophysical, economic and socio-cultural valuation of ecosystem services

Chair: Tzach Glasser (Ramat Hanadiv Nature Park, Israel)

14:30 - 15:00 Keynote paper

- S4-K: ENABLING SUSTAINABLE PASTORAL LANDSCAPES: BUILDING SOCIAL CAPITAL TO RESTORE NATURAL CAPITAL. L. Huntsinger

15:30 - 16:45 Oral presentations

- S4-O-1: EXPERT VIEWS ABOUT FARMING PRACTICES DELIVERING CARBON SEQUESTRATION IN MEDITERRANEAN AGRO-ECOSYSTEMS. T. Rodríguez-Ortega, A. Bernués, A.M. Olaizola
- S4-O-2: FIREBREAK MAINTENANCE WITH EQUINES IN SERRA DE TRAMUNTANA MOUNTAINS (MALLORCA, UNESCO WORLD HERITAGE). J. Gulías, A. Mairata, J. Frontera, I. Janer, J. Jaume, J. Cifre
- S4-O-3: ANIMAL WELFARE AND ECOSYSTEM SERVICES IN MOUNTAIN AREAS. A. Zuliani, A. Romanzin, S. Bovolenta
- S4-O-4: BALANCING ON THE TRANSHUMANT ROAD: AN UPDATED POLITICAL ECOLOGY OF LIVESTOCK DRIVEWAYS. P. Starrs
- S4-O-5: PASTORALIST KNOWLEDGE HUB: BRINGING PASTORAL VOICES TO THE GLOBAL STAGE. G. Velasco, O. Mundy, B. Besbes).

Poster presentations

Session 1. Pathways towards mountain farming systems sustainability: assessment methods and case studies

- S1-P-1: EXTENDED LACTATIONS TO OVERCOME REPRODUCTION PROBLEMS IN MOUNTAIN LOW-INPUT DAIRY SYSTEMS. D. Pomiès, F. Fournier, A. Farruggia
- S1-P-2: TOWARDS SUSTAINABLE DAIRY SHEEP FARMS BASED ON SELF-SUFFICIENCY: PATTERNS AND ENVIRONMENTAL ISSUE.. V Thenard, Jp Choisis, Y Pages
- S1-P-3: NET ECOSYSTEM EXCHANGE RESPONSES TO CHANGES IN CROP MANAGEMENT IN A FORAGE SYSTEM IN THE EASTERN PYRENEES. N. Altimir, M. Ibáñez, A. Ribas, M.T. Sebastià

- S1-P-4: A METHOD TO STANDARDISE MEADOW PHENOLOGICAL OBSERVATIONS: EVALUATION AND APPLICATIONS. Z. Vuffray, M. Amaudruz, M. Meisser, B. Jeangros, E. Mosimann, C. Deléglise
- S1-P-5: A CONCEPT PROPOSAL TO TAKE INTO ACCOUNT INTERACTIONS BETWEEN ALPINE PASTURE AND FARMS: THE ALPINE-PASTURE-FARMS SYSTEM. B. Nettier, L. Dobremez, G. Brunschwig

Session 2. Livestock on mountain pastures: animal performance and product quality.

- S2-P-1: PERFORMANCE OF TWO LOCAL BEEF CATTLE BREEDS IN CANTABRIAN MOUNTAIN PASTURES. A. Román-Trufero, K. Osoro, R. Celaya.
- S2-P-2: BEEF CATTLE PERFORMANCE, CARCASS AND MEAT QUALITY TRAITS TO DISCRIMINATE BETWEEN PASTURE-BASED AND CONCENTRATE DIETS. I. Casasús, M. Blanco, M. Joy, P. Albertí, G. Ripoll, D. Villalba.
- S2-P-3: INFLUENCE OF ALPINE GRAZING TIME ON FEEDING BEHAVIOR, MILK AND MILKING CHARACTERISTICS ON AOSTA RED PIED COWS. M. Koczura, S. Pervier, M. Kreuzer, R. Bruckmaier, J. Berard
- S2-P-4: MOUNTAIN PASTURES AND LOCAL PRODUCTS IN SOUTHERN ALBANIA. BETWEEN PRODUCTION AND RESOURCE MANAGEMENT ISSUES. F. Bombaj, G. Michaud, D. Barjolle, T. Anthopoulou
- S2-P-5: ANIMAL DIET QUALITY DURING THE GRAZING SEASON IN TWO MOUNTAIN LOW-INPUT DAIRY SYSTEMS. F.L. De S.R. Mesquita, A. Farruggia, D. Andueza, F. Piccard, A. Le Morvan, A. Quereuil, P.C.F. Carvalho, F. Fournier, D. Pomiès

Session 3. Animal-Pasture interactions in mountain areas: bottlenecks and opportunities in biodiversity management and forage production

- S3-P-2: GPS BASED TOOLS FOR EXTENSIVELY REARED CATTLE: RELATIONSHIP BETWEEN TEMPERATURE AND ANIMAL ACTIVITY. R. Posado, R. Bodas, J. J. García-García
- S3-P-3: SCENARIO ANALYSIS OF ALTERNATIVE MANAGEMENT OPTIONS ON THE FORAGE PRODUCTION AND GREENHOUSE GAS EMISSIONS IN MEDITERRANEAN GRASSLANDS. A. Pulina, G. Bellocchi, G. Seddaiu, P.P. Roggero
- S3-P-4: FORAGE CONSEQUENCES OF CONTINUES REDUCTION OF THE STOCKING RATE IN SUBALPINE GRASSLANDS: THE CASE OF FESTUCA ESKIA GRASSLANDS. M. Bou, M. Ros, R. Fanlo
- S3-P-5: EFFECT OF GRAZING ABANDONMENT ON ARBUSCULAR MYCORRHIZAL DIVERSITY IN GORBEIA NATURAL PARK. E. Sarrionandia, E. Muguerza, M. Anza, A. Lanzén, C. Garbisu, L. Epelde.
- S3-P-6: IMPACT OF GRAZING ABANDONMENT AND PHOSPORIC FERTILIZATION ON NARDUS GRASSLANDS FLORISTIC DIVERSITY IN GORBEIA NATURAL PARK (BIZKAIA, NORTHERN SPAIN). S. Mendarte, J.A. González-Oreja, N. Mandaluniz, I. Albizu
- S3-P-7: A MULTIVARIATE APPROACH IN THE ANALYSIS OF THE NUTRITIONAL QUALITY OF WOODY PASTURES IN NW SPAIN. M.P. González-Hernández, M.R. Mosquera-Losada, N. Ferreiro-Domínguez, A. Rigueiro
- S3-P-8: THE POTENTIAL ROLE OF SEEDBANKS IN MAINTAINING GRASSLAND VEGETATION IN A MEDITERRANEAN OAK WOODLAND. F. Sanna, A. Franca, S. Maltoni, A. Casula, G.A. Re.
- S3-P-9: EFFECT OF FORAGE CONSERVATION AND INCLUSION OF CONDENSED TANNINS ON IN VITRO GAS AND METHANE PRODUCTION. P.J. Rufino-Moya, S. Lobón, M. Blanco, A. Sanz, M. Joy.
- S3-P-10: ASSESSMENT OF PASTURE RENOVATION SYSTEMS IN AN AREA OF NORTHERN APENNINES. N. Staglianò, F. Natali, F. Corrieri, G. Argenti
- S3-P-11: FACTORS AFFECTING PLANT SPECIES RICHNESS OF GRASSLANDS ENCLOSED BY FOREST IN THE PESIO VALLEY. S. Orlandi, M. Probo, M. Lonati
- S3-P-12: PLANT FUNCTIONAL TYPE EFFECTS ON SOIL FUNCTION CHANGE ALONG A CLIMATIC GRADIENT. L. San Emeterio, H. Debouk, T. Marí, R.M. Canals, M.T. Sebastià
- S3-P-13: BIOMASS PRODUCTION AND USE OF SILVOPASTORAL AREAS IN RIF MOUNTAINS OF MOROCCO. Y. Chebli, M. Chentouf, J. L. Hornick, J. F. Cabaraux

Session 4. Mountain pastures and society: biophysical, economic and socio-cultural valuation of ecosystem services

S4-P-1: TRANSHUMANT GPS TRACKED SHEEP FLOCKS FROM LOWLANDS TO HIGHLANDS IN SPAIN: GRAZING RESOURCES USE, ECOLOGICAL CONNECTIVITY AND DIFFICULTIES OF WALKING/HERDING. O. Barrantes, R. Reiné, I. Blasco, R. Betrán, A. Olaizola, J.L. Mora, M. Ramo, C. Ferrer

S4-P-2: PARTICIPATORY RESEARCH APPROACH IN MOUNTAIN PASTURES MANAGEMENT IN CENTRAL ITALY. A. Pardini, N. Staglianò, F. Natali, G. Argenti

S4-P-3: EFFECTS OF WARMING AND NITROGEN DEPOSITION ON GRASSLAND SPECIES AND COMMUNITY PLASTICITY IN THE FRENCH PYRENEES. G. Guerra Ferrer, C. Chocarro, H. Debouk, A. Pornon, T. Lamaze, M.T. Sebastia

5. Mid-Congress tour

Wednesday 15 June

Departure: Zaragoza city - Hotel Silken Reino de Aragón **7:30**

Congress Venue - IAMZ 8:00

Arrival: Early evening



10:00 - Mountain cheese farm (<http://www.flordelaspe.com/>)

coffee

12:00 - Mountain pastures in Aisa Valley (IPE, <http://www.ipe.csic.es/>)

picnic lunch

16:00 - Research Farm La Garcipollera (CITA, <http://www.cita-aragon.es/>)

coffee



Don't forget to bring comfortable trekking shoes, rain gear, sun protection and a cap!

Detailed information on the technical visit at

http://www.iamz.ciheam.org/mountpast2016/pdfs/Mid-congress_tour_guide.pdf

<http://www.iamz.ciheam.org/mountpast2016>