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

<table>
<thead>
<tr>
<th>Tuesday 14 June 2016</th>
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<tbody>
<tr>
<td><strong>Morning</strong></td>
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<tr>
<td>08:30 - 09:00 Registration</td>
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<tr>
<td>09:00 - 10:00 <strong>Profitability of permanent grassland: How to manage permanent grassland in a way that combines profitability, carbon sequestration and biodiversity?</strong> Alain Peeters, Koldo Osoro (Focus Group on Permanent Grassland, EIP-AGRI)</td>
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<tr>
<td>10:00 - 10:30 <strong>Session 1. Pathways towards mountain farming systems sustainability: assessment methods and case studies</strong></td>
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<td>10:30 - 11:00 Coffee break</td>
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<td>11:00 - 11:30 Opening ceremony</td>
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<td>11:30 - 12:30 Oral presentations (I)</td>
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<td>12:30 - 13:30 Lunch</td>
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<td>Time</td>
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<tr>
<td>Afternoon</td>
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<td>13:30 - 14:00</td>
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<td>14:00 - 15:30</td>
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<td>15:30 - 16:30</td>
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<td>16:30 - 17:30</td>
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<tr>
<td>Evening</td>
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**Wednesday 15 June 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>07:30 - 20:00</td>
<td>Mid-Congress tour: Mountain pastures and associated livestock production systems in the Pyrenees</td>
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<td>Mountain farming and cheese production (<a href="http://www.flordelaspe.com/">http://www.flordelaspe.com/</a>)</td>
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<td>Mountain pastures in Aisa Valley (IPE, <a href="http://www.ipe.csic.es/">http://www.ipe.csic.es/</a>)</td>
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<td>Mountain Research Farm La Garcipollera (CITA, <a href="http://www.cita-aragon.es/">http://www.cita-aragon.es/</a>)</td>
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**Thursday 16 June 2016**

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<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>Morning</td>
<td>09:00 - 10:30 Session 3. Animal-Pasture interactions in mountain areas: bottlenecks and opportunities in biodiversity management and forage production</td>
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<td></td>
<td>“Grazing and biodiversity: from selective foraging to wildlife habitats”. Michiel Wallis de Vries (Dutch Butterfly Conservation).</td>
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<td></td>
<td>Oral presentations (I)</td>
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<tr>
<td>10:30 - 11:15</td>
<td>Coffee break + Poster session (authors by posters)</td>
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<tr>
<td>11:15 - 12:30</td>
<td>Oral presentations (II)</td>
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<tr>
<td>12:30 - 13:30</td>
<td>Lunch</td>
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<tr>
<td>Afternoon</td>
<td>13:30 - 14:30 Oral presentations (III)</td>
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<td>14:30 - 15:00</td>
<td>Session 4. Mountain pastures and society: biophysical, economic and socio-cultural valuation of ecosystem services</td>
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<td>”Pastoralist landscapes: building social capital to restore natural capital”. Lynn Huntsinger et al. University of California Berkeley</td>
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<td>15:00 - 15:30</td>
<td>Coffee break</td>
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<td>15:30 - 16:45</td>
<td>Oral presentations</td>
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<tr>
<td>16:45 - 17:00</td>
<td>Summarizing and Closing session</td>
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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-FAVOURED 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. Nettier, L. Dobremez, S. Lavorel, G. Brunschwig

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


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

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-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. Pantourex

11:15 - 12:30  Oral presentations (II)
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-9: RECONCILING MEAT PRODUCTION AND BIODIVERSITY CONSERVATION ON MARGINAL PASTURES. T. Zehnder, M.K. Schneider, J. Berard, M. Kreuzer, A. Lüscher
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

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-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

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-3: INFLUENCE OF ALPINE GRAZING TIME ON FEEDING BEHAVIOR, MILK AND MILKING CHARACTERISTICS ON AOSTA RED PIED COWS. M. Koczuza, S. Pervier, M. Kreuzer, R. Bruckmaier, J. Berard.


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


S3-P-3: SCENARIO ANALYSIS OF ALTERNATIVE MANAGEMENT OPTIONS ON THE FORAGE PRODUCTION AND GREENHOUSE GAS EMISSIONS IN MEDITERRANEAN GRASSLANDS. A. Pulina, G. Bellocci, 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. Sarriónandía, E. Muguerza, M. Anza, A. Lanzén, C. Garbisu, L. Epelde.

S3-P-6: IMPACT OF GRAZING ABANDONMENT AND PHOSPHORIC 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-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.


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

S4-P-1: TRANSMUMANȚ 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. Sebastià

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*

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

Detailed information on the technical visit at