



EGF2004 General Meeting

Land use systems in grassland dominated regions

Luzern, Switzerland
21-24 June 2004

Programme

SCHEDULE

	Morning	Afternoon	Evening
Sunday 20 June			17:00 Welcome, - Registration 20:00
Monday 21 June	08:00 Welcome, Registration 10:00 Opening Session 12:00 Lunch	13:30 Plenary Session 1 14:45 Coffee 15:15 Sessions 1a, 2a 16:45 Poster Session / Master Classes 18:30 End	19:00 Welcome Reception
Tuesday 22 June	08:15 Plenary Session 2 09:30 Coffee 10:00 Sessions 2b, 3a 11:15 Poster Session 12:00/ 12:30 Mid-Tour	Mid-Tour	19:00 Evening Party
Wednesday 23 June	08:15 Plenary Session 3 09:30 Coffee 10:00 Sessions 3b, 4a 11:15 Poster Session 12:15 Lunch	13:30 Plenary Session 4 14:45 Coffee 15:15 Sessions 3c, 4b, 2c 16:45 Poster Session / Master Classes 18:30 End	19:30 Conference Dinner
Thursday 24 June	08:15 Plenary Session 5 09:30 Coffee 10:00 Sessions 3d, 5a 11:15 Poster Session 12:15 Lunch	13:30 Closing Session 15:00 End	

Monday 21 June

08:00 - 10:00 **Welcome, Registration**

10:00 - 12:00 **Opening Session: Role of grassland farming in grassland dominated regions**

Room: Lucerne Hall Chairperson: *Steffen P. (Switzerland)*

10:00 Opening Ceremony

Opening address

Steffen P., President of the European Grassland Federation

Welcome address

Pfister M., Vice-President of the government of the canton of Lucerne

10:15 Recent and future developments in the Common Agricultural Policy of the European Union
Burtscher W. (representative of the European Union)

10:45 Swiss agricultural policy and its focus on grassland
Bötsch M. (representative of the Swiss Government)

11:15 Multi-functionality of grassland systems in Switzerland
Jeangros B. and Thomet P. (representatives of the Swiss Grassland Society)

12:00 - 13:30 **Lunch**

13:30 - 14:45 **Plenary Session 1: Balancing ecology and economy**

Room: Lucerne Hall Chairperson: *Isselstein J. (Germany)*

13:30 Institutional arrangements for the agri-environment: objectives, local conditions and institutional choices
Hodge I. (United Kingdom) and Ortiz Miranda D. (Spain)

14:00 European grassland farms caught between unfriendly markets, perpetually changing agricultural conditions and environmental demands?
Dabbert S. and Krimly T. (Germany)

14:45 - 15:15 **Coffee**

15:15 - 16:45 **Parallel Sessions 1a, 2a**

1a) Balancing ecology and economy

Room: Auditorium Chairperson: *Kramberger B. (Slovenia)*

15:15 Competitive Low Cost dairy cattle production in Switzerland
Durgiai B. and Müller R.

15:30 Efficient and effective policies to prevent fallow land at high altitudes in Swiss mountain regions
Gotsch N., Flury Ch. and Rieder P.

15:45 Multifunctionality and agricultural subsidies in the mountainous grassland of Austria
Wytrzens H.K. and Neuwirth J.

16:00 Grassland conservation projects: methodology of assessment, achievements and obstacles
Scheringer J., Bergmann H., Gerowitt B., Isselstein J. and Marggraf R.

Monday 21 June

16:15 Comparing contributions of agriculture to environmental functions in a grassland area: method and results

Rapey H., Josien E., Lardon S., Fiorelli C., Servièrre G., Klingelschmidt F. and Matter E.

16:30 The optimum land-use plane for the Commune of Gjinar-Elbasan

Karadumi S., Dida M., Starja K., Cukalla K., Simixhiu V., Mufali M. and Bicaku Sh.

2a) Environmental and anthropogenic impacts on grassland systems

Room: Lucerne Hall

Chairperson: *Plantureux S. (France)*

15:15 Greenhouse gas budget of intensively and extensively managed grassland

Ammann C., Flechard C., Fuhrer J. and Neftel A.

15:30 Variation in organic carbon content in Flemish grassland soils

Mestdagh I., Lootens P. and Carlier L.

15:45 Effects of livestock management on carbon stocks and fluxes in grassland ecosystems in the Pyrenees

Casals P., Garcia-Pausas J., Romanyà J., Camarero L. Sanz M.J. and Sebastià M.T.

16:00 Effects of ozone on carbon allocation and dark respiration in two *Medicago sativa* cultivars

Lötscher M. and La Scala S.

16:15 Effects of ecological compensation areas on species diversity in the Swiss grassland – an overview

Walter T., Herzog F., Birrer S., Dreier S., Hunziker M., Jeanneret Ph., Lüscher A., Peter B., Pfiffner L. and Spiess M.

16:30 Veterinary antibiotics in animal slurries – a new environmental issue in grassland research

Burkhardt M., Stoob K., Stamm C., Singer H. and Müller S.

16:45 - 18:30 Poster Sessions 1.0, 2.1, 3.2

1.0) Balancing ecology and economy

2.1) Grassland and global change

3.2) The use of legumes and mixed swards

16:45 - 18:30 Master Classes B, C, F

B) Economics of grassland use

Dabbert S.

Room: Group Room 2

C) Approaches for determining nutrient flows at different scales in grassland based livestock units

Jarvis S.C.

Room: Auditorium

F) Surviving integrative projects: a guide for young researchers

Fry G.

Room: Group Room 1

Monday 21 June

19:00

Welcome Reception

Room: Culture and Convention Centre, Open-Air Terrace

Welcome address by Helen Haas-Peter, president of the City Parliament

Aperitif, Cold buffet

Tuesday 22 June

08:15 - 09:30 **Plenary Session 2: Grassland's benefits and risks for society**
Room: Lucerne Hall Chairperson: *Buchmann N. (Switzerland)*

08:15 The contribution of grassland to social benefits of agriculture – an economic analysis
Lehmann B. and Hediger W. (Switzerland)

08:45 Grassland and water resources: recent findings and challenges in Europe
Benoit M. and Simon J.-C. (France)

09:30 - 10:00 **Coffee**

10:00 - 11:15 **Parallel Sessions 2b, 3a**

2b) Biodiversity issues in grassland systems

Room: Auditorium Chairperson: *Marriot C. (United Kingdom)*

10:00 Species rarity, agricultural management and environmental factors in permanent grasslands
Pervanchon F., Gainel C., Amiaud B. and Plantureux S.

10:15 Restoration steps of agriculturally improved grassland on humic soil-management, seed bank and scale
Hald A.B.

10:30 Ecosystem effects of biodiversity manipulations in European grasslands
Spehn E.M., Hector A., Joshi J., Scherer-Lorenzen M. and Schmid B. - and the BIODEPTH project

10:45 Plant diversity and nitrogen dynamics in experimental grassland systems
Scherer-Lorenzen M.

11:00 Biomass production following N-fertilisation in experimental grassland communities differing in plant species richness and composition
Palmborg C., Carlsson G. and Huss-Danell K.

3a) Grassland renovation and ley-arable rotations*

Room: Lucerne Hall Chairperson: *Nagy G. (Hungary)*

10:00 Grassland renovation in north west Europe: current practices and main agronomic and environmental questions
Taube F. and Conijn J.G.

10:15 Effects of grassland renovation on crop and animal performance
Søgaard K., Hopkins A., Bommelé L. and Gierus M.

10:30 Effects of grassland cultivation on N and C cycles and soil quality dynamics
Vertès F., Hatch D.J., Velthof G.L.Y., Abiven S., Hopkins A. and Springob G.

10:45 C and N losses in sandy soils of NW Germany after conversion of grassland
Springob G.

11:00 Reducing fertiliser N use by application of ley-arable rotations
Nevens F., Bommelé L.M., Reheul D., Verbruggen I. and De Cauwer B.

* in collaboration with the EGF working group "Grassland resowing and grass-arable rotation".

Tuesday 22 June

11:15 - 12:15 **Poster Sessions 2.2, 2.4, 3.3**

2.2) Grassland for protection of resources

2.4) Emission and pollution risks

3.3) Grassland renovation and ley-arable rotations

12:00 / 12:30 **Mid-Tour**

Coaches are placed ready in the bus parking "Inseli" behind the Culture and Convention Centre

12:00 Departure for Mid-Tour 5

12:30 Departure for Mid-Tour 1
Mid-Tour 2
Mid-Tour 3
Mid-Tour 4
Mid-Tour 6
Mid-Tour 7
Mid-Tour 8

Your coach is marked with the same colour your personal tour voucher has.

Lunch is served in the coaches.

19:00 Arrival in Lucerne, Culture and Convention Centre

19:00 **Evening Party**

19:00 Boarding the boats
The boats are ready for us in front of the Culture and Convention Centre

19:15 Departure of the boats
Aperitif, Supper, Folkloric entertainment

Wednesday 23 June

08:15 - 09:30 Plenary Session 3: Efficient use of natural resources in grassland systems

Room: Lucerne Hall Chairperson: *Mosquera-Losada R. (Spain)*

08:15 Optimising best practice for N management in livestock systems: meeting production and environmental targets

Jarvis S.C. (United Kingdom) and Menzi H. (Switzerland)

08:45 Challenges and tools to develop efficient dairy systems based on grazing: how to meet animal performance and grazing management

Peyraud J.L. (France), Mosquera-Losada R. (Spain) and Delaby L. (France)

09:30 - 10:00 Coffee

10:00 - 11:15 Parallel Sessions 3b, 4a

3b) Extensive and intensive grazing systems

Room: Lucerne Hall Chairperson: *Fothergill M. (United Kingdom)*

10:00 Effects of livestock breed and stocking rate on sustainable grazing systems:

1. project description and synthesis of results

Rook A.J., Petit M., Isselein J., Osoro K., WallisDeVries M.F., Parente G. and Mills J.

10:15 Foraging behaviour of sheep rotationally grazing annual ryegrass (*Lolium rigidum* Gaudin)

Molle G., Decandia M., Sitzia M., Cabiddu A., Fois N., Ligios S., Giovanetti V. and Rutter S.M.

10:30 Observed spatial and seasonal patterns of cattle activity versus simulated effects in an enclosure experiment

Buttler A., Kohler F., Wagner H. and Gillet F.

10:45 Using grassland resources for dairy production with low concentrates in humid Spain

González-Rodríguez A.

11:00 Improving the sustainability of milk production systems in Europe through increasing reliance on grazed pasture

Mayne C.S., Rook A.J., Peyraud J.L., Cone J.W., Martinsson K. and Gonzalez A.

4a) From forage to animal performance

Room: Auditorium Chairperson: *Baumont R. (France)*

10:00 Vitamin content of forages as influenced by harvest and ensiling techniques

Nadeau E., Johansson B., Jensen S.K. and Olsson G.

10:15 The use of *n*-alkanes to estimate grass and clover intake of lactating dairy cows

Bruinenberg M.H. and De Visser M.

10:30 New realisations for the estimation of the ensiling potential of forages

Kaiser E. and Weiß K.

10:45 Silage effluent production from round baled grass silage

Dürr L.

11:00 Performance of heifers offered herbage with birdsfoot trefoil (*Lotus corniculatus* L.) or white clover (*Trifolium repens* L.)

Nilsson-Linde N., Olsson I., Hedqvist H., Jansson J., Danielsson G. and Christensson D.

Wednesday 23 June

11:15 - 12:15 **Poster Sessions 3.4, 4.1**

3.4) Extensive and intensive grazing systems

4.1) Forage quality

12:15 - 13:30 **Lunch**

13:30 - 14:45 **Plenary Session 4: From forage to food quality**

Room: Lucerne Hall Chairperson: *Molle G. (Italy)*

13:30 Limits to sustaining productivity, product quality and animal welfare in forage-based dairy systems

Oldham J.D. and Dewhurst R.J. (United Kingdom)

14:00 Effects of grass-based diets on the content of micronutrients and fatty acids in bovine and caprine dairy products

Martin B. (France), Fedele V. (Italy), Ferlay A., Grolier P., Rock E., Gruffat D. and Chilliard Y. (France)

14:45 - 15:15 **Coffee**

15:15 - 16:45 **Parallel Sessions 3c, 4b, 2c**

3c) N use and legumes in grassland systems

Room: Lucerne Hall Chairperson: *Jorgensen M. (Norway)*

15:15 Mattenkleef landraces, a valuable source of genetic variation for red clover breeding

Boller B., Tanner P., Günter S. and Schubiger F.X.

15:30 Reducing the environmental impact of red clover (*Trifolium pratense L.*): physiological approaches underpinning germplasm improvement

Marshall A.H., Collins R.P., Abberton M.T., MacDuff J.H. and Eve M.

15:45 Grass-legume mixtures in arable crop rotations

Kryszak J.

16:00 The nitrogen efficiency of dairy production is determined by the production intensity of the system

Bleken M.A., Hansen S. and Steinshamn H.

16:15 The effect of forage quality on N intake and N excretion under rotational grazing

Schellberg J. and Gebbing T.

16:30 Nitrogen utilisation and methanogenesis of sheep fed ryegrass silage supplemented with ensiled legumes and tannins

Carulla J.E., Kreuzer M., Machmüller A., Van Dorland H.A. and Hess H.D.

Wednesday 23 June

4b) From forage to food quality

Room: Group Rooms 1 & 2 Chairperson: *O'Kiely P. (Ireland)*

- 15:15 The effect of different legume-based pastures on the fatty acid composition of sheep milk with focus on CLA
Cabiddu A., Addis M., Spada S., Sitzia M., Molle G. and Piredda G.
- 15:30 Rapid decline of contents of beneficial omega-7 fatty acids in milk from grazing cows with decreasing herbage allowance
Elgersma A., Ellen G. and Tamminga S.
- 15:45 Dietetically relevant polyunsaturated fatty acids in the milk of cows grazing pastures at different altitudes
Leiber F., Wettstein H.-R., Nigg D., Kreuzer M. and Scheeder M.R.L.
- 16:00 Effect of haylage or maize silage based diets with or without energy restriction on milk fat properties
Couvreur S., Hurtaud C., Delaby L. and Peyraud J.L.
- 16:15 Winter feeding systems and dairy cows breed have an impact on Camembert and Pont L'Evêque PDO cheeses in Normandy
Hurtaud C., Berthelot D., Delaby L. and Peyraud J.L.
- 16:30 Switching from grass to maize diet changes the C isotope signature of meat and fat during fattening of steers
Gebbing T., Schellberg J. and Kühbauch W.

2c) Pressure on alpine and sub-alpine grasslands*

Room: Auditorium Chairperson: *Edwards P. (Switzerland)*

- 15:15 Grazing the highlands: food, biodiversity and catchment implications
Körner Ch., Spehn E. and Nakhutsrishvili G.
- 15:30 Impact of soil conditions and agricultural use on the plant species diversity of Alpine pastures
Müller P., Gusewell S. and Edwards P.J.
- 15:45 Effects of grazing exclusion in alpine grasslands in the Central Alps
Erschbamer B., Moser C. and Vorhauser K.
- 16:00 Past and present land use effects on subalpine grassland species and functional diversity
Lavorel S., Quétier F., Gaucherand S., Choler P., Clément G. and Bornard A.
- 16:15 Biomass responses of subalpine grasslands in the Pyrenees under warming conditions
Sebastià M.T., Mola B., Arenas J.M. and Casals P.
- 16:30 Cultural and biological diversity of grasslands in the Swiss Alps
Fischer M., Stöcklin J., Weyand A. and Maurer K.

* in collaboration with "Global Mountain Biodiversity Assessment" (GMBA) programme by DIVERSITAS (Paris)

16:45 - 18:30 Poster Sessions 2.3, 3.1, 3.5, 4.2, 4.3

2.3) Development of alpine and sub-alpine grassland

3.1) Genetic resources and breeding

3.5) Nutrient utilisation from the plot to the farm level

4.2) From forage to animal performance

4.3) Food quality

Wednesday 23 June

16:45 - 18:30 **Master Classes D, E**

D) Methodology for intake and digestion measurements at grazing

Peyraud J.L.

Room: Group Room 1

E) What are the remaining research priorities for ruminant nutrition

Oldham J.D.

Room: Group Room 2

19:30 **Conference Dinner**

Aperitif

Room: Culture and Convention Centre, Open-Air Terrace

Dinner

Room: Culture and Convention Centre, Lucerne Hall

Thursday 24 June

08:15 - 09:30 **Plenary Session 5: Transdisciplinary research and exchange of knowledge**

Room: Lucerne Hall Chairperson: *Nilsdotter-Linde N. (Sweden)*

08:15 The potential and limitations of integrated grassland research
Fry G. (Norway), Tress B. and Tress G. (The Netherlands)

08:45 Knowledge exchange – searching for impact
Wielinga H.E. (The Netherlands) and Kania J. (Poland)

09:30 - 10:00 **Coffee**

10:00 - 11:15 **Parallel Sessions 3d, 5a**

3d) New approaches to improve grassland management

Room: Lucerne Hall Chairperson: *Helgadóttir A. (Iceland)*

10:00 Tissue turnover during the winter in a perennial ryegrass sward
Hennessy D., French P., O'Donovan M. and Laidlaw S.

10:15 Are structural plant traits relevant indicators of fertility level and cutting frequency in natural grasslands?

Ansquer P., Cruz P., Prévot P., Theau J.P., Jouany C. and Duru M.

10:30 Mapping grazing activity and sward variability improves our understanding of plant-animal interaction in heterogeneous grasslands

García F., Carrère P., Decuq F. and Baumont R.

10:45 Vegetation typology as a management tool for intra-alpine summer pastures
Bassignana M. and Bornard A.

11:00 Life Cycle Assessment of roughage production
Huguenin-Elie O. and Nemecek T.

5a) Knowledge exchange

Room: Auditorium Chairperson: *Kania J. (Poland)*

10:00 Network of extension service and Grassland Society toward an effective grassland management in Estonia
Selge A. and Viiralt R.

10:15 Farmer's experiences and scientific on-farm experimentation integrated in an experiential science approach
Baars T., Veltman L. and Van Eekeren N.

10:30 Schools can be valuable partners to promote interest and knowledge of grassland management
Bele B., Rosef L., Norderhaug A. and Almendingen S. F.

10:45 Forage and grasslands production and utilisation in France: a CD-ROM presenting a systemic analysis
Huyghe C., Lalande N., Duru M., Lherm M., Peyraud J.L., Gensollen V., Bournoville R. and Couteaudier Y.

11:00 Nutrient balancing at the farm level: the Swiss experience
Uebersax A. and Schuepbach H.

Thursday 24 June

11:15 - 12:15 **Poster Sessions 3.6, 3.7, 5.0**

3.6) Plant traits and modelling to improve grassland systems

3.7) Grassland systems adapted to regional needs

5.0) Transdisciplinary research and knowledge exchange

12:15 - 13:30 **Lunch**

13:30 - 15:00 **Closing Session**

Room: Lucerne Hall Chairperson: *Steffen P. (Switzerland)*

13:30 Synthesis

Peel S. (United Kingdom), Plantureux S. (France), Boller B. (Switzerland)

14:00 Business Meeting

14:30 Closing Ceremony

15:00 End

Notes