

Content

Opening Session

<i>Development, current state and changes in grassland in the past year</i>	1
Stypiński P., Hejduk S., Svobodová M., Hák J. and Rataj D.	
<i>Selected indicators of productive and extraproductional management of grasslands in the Czech Republic</i>	1
Kohoutek A., Kvapilík J., Čagaš B., Hrabě F. and Pozdišek J.	

Session 1 – Non marketable functions of grassland

Oral presentation

<i>Grassland beyond conventional food markets – economic value of multifunctional grassland: An analytical framework as contribution from agricultural economics</i>	3
Lehmann B.	
<i>Non-marketable functions of grasslands</i>	3
Starczewski K., Affek-Starczewska A. and Jankowski K.	
<i>Farm structure and grassland phytodiversity – A comparison of beef and dairy cattle farms</i>	4
Stroh H.G., Klimek S. and Isselstein J.	
<i>Historical maps as a tool for the ecological evaluation of grassland</i>	4
Zarzycki J., Misztal A. and Kopeć M.	
<i>Permanent grassland as turf grass for landscape, sport and tourism. Research needs and future perspectives in Austria</i>	5
Herndl M., Krautzer B. and Schaumberger A.	
<i>Diversity of dung beetles (Scarabaeoidea, Hydrophilidae) in mountain pastures</i>	45
Šlachta M., Frelich J. and Tonka T.	
<i>Mowing impacts on invertebrate models</i>	5
Humbert J.-Y., Ghazoul J., Sauter G.J. and Walter T.	
<i>Comparison of surface runoffs from grasslands and arable land</i>	6
Hejduk S.	

Poster presentation

<i>Alternative use of different grassland types: I. Influence of mowing on botanical composition and dry matter production</i>	6
Britaňák N., Hanzes L. and Ilavská I.	
<i>Alternative use of different grassland types: II. Accumulation of carbon in grassland ecosystems</i>	7
Britaňák N., Hanzes L. and Ilavská I.	
<i>Effects of different establishment techniques on pasture improvements for wild animals in the Italian Apennine Mountains</i>	7
Cervasio F., Ponzetta M.P., Argenti G., Messeri A., Crocetti C. and Staglianò N.	

<i>Peculiarities of transition of unused grasslands and other abandoned areas in Lithuania</i>	8
Daugėlienė N., Žekonienė V. and Bartkevičius E.	
<i>Lolium multiflorum as a catch crop in maize</i>	8
De Vlieghe A., Latré J. and Carlier L.	
<i>Multifunctionality and sustainability of the utilisation of permanent pastures in Romania, under conditions of alternative utilisation</i>	8
Dragomir N., Pet I., Dragomir C., Pet E., Cristea C., Rechitean D., Toth S. and Fratila I. ¹	
<i>The use of salt for managing unguarded mixed livestock on Atlantic mountain heathlands</i>	9
Eliceits P., Aldezabal A., Ruiz R. and Mandaluniz N.	
<i>Silvopastoral systems: effects on alpha and beta biodiversity eleven years after establishment</i>	9
Fernández-Núñez E., Mosquera-Losada M.R. and Rigueiro-Rodríguez A.	
<i>Nutritive value at ear emergence of four timothy varieties</i>	9
Frankow-Lindberg B.E.	
<i>Annual and seasonal effects on micro-mineral concentrations in four grassland species</i>	10
Frankow-Lindberg B.E., Lindström B. and Öborn I.	
<i>Cultivated and wild growing forage crops – reservoirs of viruses and phytoplasmas</i>	10
Fránová J. ¹ , Petřík K. ¹ , Jakešová H., Bečková M. and Sarkisova T.	
<i>Arthropod biodiversity in a landscape with grass and leguminous vegetation cover</i>	11
Frydrych J., Barták M., Lošák M., Cagaš B., Rotrekl J. and Kolařík P.	
<i>Utilization of Lolium multiflorum on arable land in the context of non-production functions of an agriculture system</i>	11
Fuksa P., Brant V., Venclová V. and Hák J.	
<i>Effect of different mulching regimes on rate of decomposition of above-ground biomass</i>	12
Gaisler J. and Pavlů V.	
<i>Effects of harvesting methods on seed yield and quality of Scorpiurus muricatus L.</i>	12
Giambalvo D., Amato G., Di Miceli G. and Frenda A.S.	
<i>Phytocenological characteristics of two pasture swards with different management histories</i>	12
Haková P., Sýkorová Z., Novotná K., Frelich J. and Šlachta M.	
<i>Botanical monitoring of grasslands after the adoption of agri-environmental arrangements</i>	13
Holubec V. and Vymyslický T.	
<i>Effect of mulching on phytomass structure and grassland succession</i>	13
Hrabě F. and Krausová A.	
<i>The implementation of an indicator method for eligible grassland within an agri-environmental programme in the German Federal State of Brandenburg</i>	14
Kaiser T., Lorenz J. and Hoffmann E.	
<i>Botanical diversity and nitrate leaching with different styles of grassland management</i>	14
Kobes M., Frelich J., Šlachta M., Voženílková B. and Suchý K.	
<i>Soil aggregate stability (SAS) of grassland in comparison with arable land</i>	14
Kohoutek A., Němcová P., Odstrčilová V., Nerušil P. and Komárek P.	

<i>The measurement of soil protection capacity from erosion by means of a mobile rainfall simulator in grasslands</i>	15
Kohoutek A., Komárek P., Tippl M., Bohuslávěk J. and Janeček M.	
<i>Aesthetic values of chosen herbs occurring in grasslands</i>	15
Kolczarek R., Jankowska J., Ciepiela G.A., Sosnowski J. and Jankowski K.	
<i>Effect of permanent meadows on the chemistry of surface waters</i>	15
Kozłowski S., Zielewicz W. and Swędrzyński A.	
<i>Geomorphological variability of river valleys and natural values of meadow communities</i>	16
Kryszak A., Kryszak J. and Klarzyńska A.	
<i>Soil nitrogen content in relation to meadow and pasture utilisation</i>	16
Kryszak J., Grzyl S. and Musiał M.	
<i>Effect of grazing intensity on the structure of sward patches</i>	16
Ludvíková V., Pavlů V., Hejčman M. and Gaisler J.	
<i>Non-productive properties of selected grass varieties under mulching</i>	17
Macháč R. and Čagaš B.	
<i>Research regarding establishment of the sown grassland for the anti-erosion protection of a thermal power station ash dump</i>	17
Marusca T., Mocanu V., Hermenean I., Blaj V.A., Filip M. and Marusca S.	
<i>Xerothermic grasslands as a source of biodiversity in the agricultural landscape</i>	18
Misztal A. and Zarzycki J.	
<i>The effect of shade on a silvopastoral system with <i>Populus × euroamericana</i> in Galicia, NW Spain</i>	18
Morán-Zuloaga D., Mosquera-Losada M.R. and Rigueiro-Rodríguez A.	
<i>Fertiliser type effect on copper cycling in a <i>Fraxinus excelsior</i> L. silvopastoral system</i>	18
Mosquera-Losada M.R., Ferreiro-Domínguez N., Rigueiro-Rodríguez A. and Fernández-Núñez E.	
<i>Effects of sewage sludge type on <i>Pseudotsuga menziesii</i> and pasture production</i>	19
Mosquera-Losada M.R., Santiago-Freijanes J.J., García-Fernández M., Fernández-Núñez E. and Rigueiro-Rodríguez A.	
<i>The effects of wild boar grazing on the floristic diversity of a silvopastoral oak system</i>	19
Mpampouli S., Abraham E.M., Kyriazopoulos A., Fotiadis G., Parissi Z.M. and Tsiouvaras C.N.	
<i>Species richness and diversity of foxtail-type stand during long-term fertilisation</i>	20
Mrkvička J. and Veselá M.	
<i>The long-term influence of fertilisation on the botanical composition of a fen grassland</i>	20
Müller J., Jurasinski G. and Dittmann L.	
<i>The effect of use way of the catchment on the content of mineral nutrients in waters of small river</i>	21
Niczyporuk A. and Jankowska-Huflejt H.	
<i>Comparison of the understorey vegetation in grazed kermes oak stands differing in canopy cover</i>	21
Panogeorgos A., Kyriazopoulos A., Fotiadis G., Abraham E.M. and Fraggakis I.	

<i>Determination of suitable management for a mountain hay meadow in a nature reserve in the Jizerské hory Mts.</i>	22
Pavlu L., Pavlu V. and Gaisler J.	
<i>Effects of wood expansion on the specific biodiversity of mountain pastures</i>	22
Pornaro C., Susan F. and Ziliotto U.	
<i>Effect of calcified seaweed on nitrogen fixation and yield of legumes in an acid soil</i>	23
Radic S. and McAdam J.H.	
<i>Liming and sewage sludge effects on soil fertility and understorey development in reforested Pinus radiata D. Don plantations</i>	23
Rigueiro-Rodríguez A., Cuiña-Cotarelo R., Fernández-Núñez E. and Mosquera-Losada M.R.	
<i>Effect of inorganic and organic fertilisation on sward production and Cu and Fe pasture concentration</i>	24
Rigueiro-Rodríguez A., García-Fernández M., Santiago-Freijanes J.J. and Mosquera-Losada M.R.	
<i>Effect of autumn fire on microbial biomass content and dehydrogenase activity in two grassland soils</i>	24
Russel S., Olejniczak I., Prędecka A., Chojnicki J. and Barszczewski J.	
<i>Management of permanent grasslands in North-Eastern Romania</i>	25
Samuil C., Vintu V., Iacob T., Saghin Gh. and Trofin A.	
<i>The influence of white and red clover and wheat cultivation methods on some soil parameters</i>	25
Sarunaite L., Kadziulienė Z. and Kadziulis L.	
<i>Influence of preparatory cut and harvest date on the yields and quality of perennial grasses</i>	25
Skládanka J., Nedělník J., Doležal P. and Moravcová H.	
<i>Properties of Arrhenatherum elatius under arable land set aside</i>	26
Svobodová M., Šantrůček J., Brant V., Urbanec J. and Niňaj M.	
<i>Effect of organic fertilisation on quality of lysimetric water</i>	26
Svozilová M., Otrhálková P., Karabcová H. and Ržonca J.	
<i>The grass vegetation of watercourses as a biodiversity refuge in an agricultural landscape</i>	27
Szymura M., Szymura T., Dunajski A. and Wolski K.	
<i>Using ArcGIS for the evaluation of land use in a grassland area of the Jizerské hory Mts.</i>	27
Štrobach J., Pavlu V. and Mikulka J.	
<i>Botanical composition of pasture sward influenced by intensity of utilisation and mineral fertilisation</i>	28
Štýbnarová M., Hák J., Krhovjáčková J. and Pozdíšek J.	
<i>Species development of meadow stand related to yield</i>	28
Veselá M., Mrkvička J. and Hrevušová Z.	
<i>Variation of structural and functional characteristics of grasslands in the foraging areas of the Eurasian black vulture (Aegypius monachus L.)</i>	28
Vrahnakis M.S., Kadroudi M., Kyriazi E., Vasilakis D., Kazoglou Y. and Birtsas P.	

<i>Sustainable approaches to small-area grassland and barren management with respect to flora and insect diversity</i>	29
Vymyslický T., Fabšičová M. and Musil Z.	
<i>Chemical composition analysis of harefeeding base</i>	29
Wolski K., Gawęcki J., Dradrach A. and Kazimierska N.	
<i>Water-use efficiency of grassland differing in diversity</i>	30
Wrage N., Ebenau A., Jarzmik A., Steude K., Peter K., Thies C. and Isselstein J.	
<i>The effects of some companion crops on red clover (<i>Trifolium pratense</i> L.) yield and competition vigor against to weeds</i>	30
Acar Z., Asci O., Basaran U., Mut U. and Ayan I.	
<i>Determination of some characters of red clovers naturally grown in the middle black sea region</i>	30
Asci O., Ayan I., Acar Z., Basaran U. and Mut H.	
<i>Morphological traits of orchardgrass ecotypes in Black Sea Region of Turkey</i>	31
Ayan I., Tongel O., Mut H., Basaran U. and Acar Z.	
<i>Status of grass pea (<i>Lathyrus sativus</i> L.) in Turkey</i>	31
Basaran U., Acar Z., Asci O., Mut H. and Tongel O.	
<i>Improvement of botanical composition of meadow sward caused with liming and calcium nitrate fertilisation</i>	31
Barszczewski J. and Sapek B.	
<i>Effect of trophism on the species abundance in the permanent grassland community</i>	32
Hrabě F., Skládanka J. and Rosická L.	
<i>Effect of manure application on yield and vegetation of secondary rangeland in Turkey</i>	32
Mut H., Ayan I., Acar Z., Tongel O. and Basaran U.	
<i>The effect of application of calcified seaweed on properties of organic soils in the Falkland Islands</i>	33
Radic S. and McAdam J.H.	
<i>Non marketable functions of grazing</i>	33
Van den Pol-van Dasselaar A.	

Session 2 – Alternative use of grassland

Oral presentation

<i>Life-cycle analysis of heat generation using biomass from semi-natural grasslands in Central Europe</i>	34
Tonn B., Thumm U. and Claupein W.	
<i>Alternative use of grassland biomass in Ireland: Grass for biorefinery</i>	34
O'Keeffe S., Schulte R.P.O. and Struik P.C.	
<i>Economic assessment of biogas production from landscape management grass in the Lower Oder Valley National Park</i>	35
Blokhina Y., Prochnow A., Plöchl M., Luckhaus Ch. and Heiermann M.	

<i>New technologies of phytomass processing and utilization</i>	35
Kužel S., Kolář L., Frelich J., Peterka J. and Maroušek J.	
<i>Biomass of cocksfoot and tall fescue as a substrate for biogas production</i>	35
Tilvikienė V., Kadziulienė Z. and Dabkevicius Z.	
<i>Grass utilisation for thermal energy purposes</i>	36
Andert D., Gerndtová I. and Frydrych J.	
<i>An analysis of the floristic composition of two mountain golf courses</i>	36
Macolino S., Da Ronch F., Susan F. and Ziliotto U.	
<i>The effect of returning turfgrass clippings on turfgrass sward yield</i>	37
Kauer K., Laidna T., Keres I., Köster T., Noormets M., Parol A., Raave H., Selge A. and Viiralt R.	

Poster presentation

<i>Influence of nitrogen fertilisation rates on Festulolium and Lolium × boucheanum forage yield and persistency</i>	37
Gutmane I. and Adamovics A.	
<i>Biogas production from energy grasses</i>	37
Adamovics A., Dubrovskis V. and Plume I.	
<i>Utilization of grass for anaerobic fermentation</i>	38
Andert D., Frydrych J., Gerndtová I. and Hanzlíková I.	
<i>Breeding of cocksfoot genotypes for orchard land planting</i>	38
Babic S., Sokolovic D., Radovic J., Andjelkovic S., Jevtic G. and Simic A.	
<i>Tetraploid red clover – in a pure stand or mixed with timothy?</i>	39
Bender A., Tamm S. and Aavola R.	
<i>Effects of fertilisation level on the productivity of three permanent ryegrass meadows in the upper Veneto plain (N-E Italy)</i>	39
Bonifazzi B., Da Ronch F. and Ziliotto U.	
<i>Trifolium subterraneum L. (Subterranean clover) on arable land in regions with limited precipitation</i>	39
Brant V., Neckář K., Hák J., Holec J., Pivec J. and Venclová V.	
<i>Grasslands of golf courses and their value for the landscape</i>	40
Cagaš B., Flodrová P., Hejzlar J. and Voigts M.	
<i>Impact of seasonal pasture on fatty acid composition of cows milk</i>	40
Frelich J., Šlachta M., Špička J., Samková E. and Hanuš O.	
<i>Farming in the mountains and foothills regions with respect to grasses used for generating energy</i>	41
Frydrych J., Andert D., Kovaříček P., Juchelková D. and Tippl M.	
<i>Will maize become an important crop for biogas production in Latvia?</i>	41
Gaile Z. and Bartuševics J.	

<i>Effect of different fertilization and cutting regimes on the quality of sheep fescue landscape lawns</i>	41
Golińska B. and Goliński P.	
<i>Bioasification of plant and animal biomass substrate</i>	42
Gonda L.	
<i>The root morphology of alfalfa in relation to the position of the roots in soil</i>	42
Hakl J., Krajč L., Fuksa P. and Šantrůček J.	
<i>Multi-component grass/clover mixtures in a mountain area of Slovakia</i>	43
Ilavská I., Britaňák N. and Hanzes L.	
<i>The dominance of high grasses and biomass production on Alopecuretum after the cessation of long-term intensive fertilization</i>	43
Hrevušová Z., Hakl J., Mrkvička J. and Martinek J.	
<i>Chicory as promising bioactive forage for sheep production</i>	43
Kidane A., Parissi Z.M., Houdijk J.G.M., Athanasiadou S., Tolcamp B.J. and Kyriazakis I.	
<i>Succession and structure of a mulched and cut lawn</i>	44
Knot P., Hrabě F. and Vrzalová J.	
<i>The competition of grass component within alfalfa-grass mixture in the seeding year</i>	44
Krajč L., Hakl J. and Šantrůček J.	
<i>Morphological traits and seed production potential of some wild Trifolium species in Serbia</i>	45
Lugic Z., Radovic J., Sokolovic D., Vasic T. and Jevtic G.	
<i>An influence of water stress in first stages of development on germination capacity of selected turfgrass species</i>	45
Martinek J., Svobodová M. and Králíčková T.	
<i>The response of lawn varieties of Poa pratensis to drought stress</i>	46
Mastalerczuk G. and Borawska-Jarmulowicz B.	
<i>Forage yields in urban populations of Hungarian vetch (Vicia pannonica Crantz) from Serbia</i>	46
Mihailović V., Mikić A., Čupina B., Krstić Đ., Erić P., Hauptvogel P. and Karagić Đ.	
<i>Forage yields in urban populations of large-flowered vetch (Vicia grandiflora Scop.) from Serbia</i>	46
Mikić A., Mihailović V., Čupina B., Krstić Đ., Hauptvogel R., Drobná J. and Antalíková G.	
<i>Perennial herbaceous species biomass as potential bioenergy feedstock</i>	47
Pappas I., Koukoura Z., Goulas Ch., Kiparissides C. and Tananaki Ch.	
<i>Extensively used grassland as a basis of low input livestock systems and as a resource of energy and raw materials</i>	47
Pötsch E.M., Buchgraber K., Resch R., Häusler J., Ringdorfer F., Pöllinger A., Rathbauer J. and Amon T.	
<i>The ensilage and nutrition quality of Bromus marginatus compared to other grasses</i>	48
Rajčáková L. and Mlynár R.	

<i>Response to grazing pressure and supplementation on milk production by dairy cows</i>	48
Roca-Fernández A.I., González-Rodríguez A. and Vázquez-Yañez O.P.	
<i>Milk urea concentration as an index for the diagnosis of nutritive balance in dairy cows</i>	49
Roca-Fernández A.I., González-Rodríguez A. and Vázquez-Yañez O.P.	
<i>An enhanced approach for estimating grassland yield potential under various cutting regimes</i>	49
Schaumberger A., Trnka M., Eitzinger J., Formayer H., Buchgraber K. and Resch R.	
<i>Residual effects of green manure legumes on organic seed of Festuca pratensis</i>	50
Slepetyš J.	
<i>The impact of different agro-ecological conditions on sod weight and structure of selected tuft grass species</i>	50
Straková M., Straka J., Binková L., Sloup J., Ševčíková M., Lošák M., Hrabě F. and Knot P.	
<i>Effect of nitrogen fertilization on the botanical composition of newly established extensive turf type grassland</i>	51
Ševčíková M., Lošák M., Špačková P., Hrabě F., Knot P., Straková M. and Binková L.	
<i>Distribution and growth performance of suckling cows in a mountain region of the Czech Republic</i>	51
Voříšková J., Šlachta M., Frelich, J. and Kobes M.	
<i>Grasslands in Poland and their potential for use for biogas production</i>	51
Wasilewski Z. and Gutkowska A.	
<i>Quality changes in grassland</i>	52
Kulin B.	
<i>Morphobiological and practical traits and characters of new origin turf grasses (Festuca rubra L.)</i>	52
Pozdnyakov V.A., Malashin S.N., Drizhachenko A.I. and Pozdnyakov A.V.	
<i>Yielding of Agrostis capillaris grassland in organic system</i>	53
Razec M., Razec I., Neagu M. and Noaghea M.	
<i>GL-TTP: a technology transfer platform for grain, forage and other legume communities</i>	53
Smýkal P., Ellis T.H.N., Bochar A.M., Warkentin T., Mikić A. and Schneider A.	
<i>Economical value of multifunctional grasslands</i>	53
Van den Pol-van Dasselaar, A.	
<i>The effect of seeding rate and mineral fertilisation on meadow sward yielding</i>	54
Wolski K., Gawęcki J., Dradrach A. and Gąbka D.	

Session 3 – Methods of grassland preservation

Oral presentation

<i>Ecological principles for the re-creation of species rich grasslands in agricultural landscapes</i>	55
Jongepierová I. and Mitchley J.	
<i>The use of semi-natural grassland as donor sites for the restoration of high nature value areas</i>	55
Krautzer B. and Pötsch E.M.	

<i>Effect of inoculation, plant density and plant stand development on the seed multiplication of Trifolium alpinum</i>	56
Peratoner G., Scherer E., Pramsohler M. and Gallmetzer W.	
<i>Re-introduction of grassland species still successful after a decade</i>	56
Korevaar H. and Geerts R.H.E.M.	
<i>Conservation of grasslands in the light of regulations through the example of the Polish Sudetes</i>	57
Fatyga J., Nadolna L. and Żyszkowska M.	
<i>Protection versus production of grasslands – some remarks on the determination of socially optimal provision levels</i>	57
Bergmann H. and Freese J.	
<i>Evaluation of forage mixtures for environmental restoration of a clay quarry in central Italy</i>	57
Staglianò N., Bianchetto E., Meo F. and Argenti G.	
<i>Grassland management and nature conservation in natural grasslands of the Balaton Uplands National Park, Hungary</i>	58
Penksha K., Szentes S., Házi J., Tasi J., Bartha S. and Malatinszky Á.	
Poster presentation	
<i>Influence of the thermal stress on some physiological features and survival of plants of Lolium perenne varieties Diamant and Gagat</i>	58
Borawska-Jarmulowicz B. and Mastalerczuk G.	
<i>Effects of under-exploitation on the vegetation dynamics of permanent grassland in the vicinity of Lake Surduc (Western Romania)</i>	59
Durău C. C., Moisuc A. and Tomodan I. L.	
<i>The reasons for degradation and methods of preserving permanent grasslands in Poland</i>	59
Jankowska-Huflejt H. and Wróbel B.	
<i>The sowing of some wild meadow plants into grass mixture as a tool for increasing the diversity of grasslands</i>	60
Marková H., Pelikán J., Ševčíková M., Kašparová J., Gottwaldová P. and Vymyslický T.	
<i>Assessment of genetic resources of wild ecotypes and a range of cultivars of grasses and forage legumes</i>	50
Martincová J.	
<i>Transformation of arable land into wet grassland on a degraded low peat soil</i>	60
Müller J. and Kayser M.	
<i>Biological properties of soil below seminatural grassland with the application of mineral and organic fertilisers</i>	61
Ondrášek L. and Čunderlík J.	
<i>Semi-natural grassland use in the Apuseni Mountains in the context of cultural landscape maintenance</i>	61
Păcurar F., Rotar I., Vidican R. and Gârda N.	

<i>Temporal variability in the forage production of a protected area with heterogeneous vegetation types</i>	62
Peratoner G., Figl U., Gottardi S., Bodner A., Werth E. and Kasal A.	
<i>Effects of seed rate and mixture composition on the revegetation of a landslide in an Apennine area</i>	62
Staglianò N., Argenti G. and Albertosi A.	
<i>The influence of organic fertilisers on <i>Nardus stricta</i> L. grasslands in the Carpathian Mountains of Romania</i>	62
Vintu V., Samuil C., Iacob T., Saghin Gh., Popovici I.C. and Trofin A.	
<i>Regulation of <i>Urtica dioica</i> L. on grasslands</i>	63
Vozár L., Jančovič J. and Bačová S.	
<i>Extensive management systems for grassland preservation in coastal areas</i>	63
Asheim L.J., Haukås T., and Thorvaldsen P.	
<i>The techniques of restoration and conservation on the abandoned grasslands</i>	64
Razec I., Razec M., Noaghea M. and Fodor L.	
<i>Botanical composition and dry matter production of semi-natural grassland under different management</i>	64
Thumm U.	
<i>SALVERE: Semi-natural grassland as a source of biodiversity improvement – An EU CENTRAL Europe Project</i>	64
Blaschka A., Scotton M., Krautzer B., Pötsch E.M., Tamegger C., Tischew S., Kizekova M., Golinski P., Ševčíková M. and Rieger E.	