



NATIONAL AGRICULTURAL
AND FOOD CENTRE

RESEARCH INSTITUTE FOR ANIMAL
PRODUCTION NITRA

Slovak University of Agriculture in Nitra, Slovak Republic
NutriVet Ltd., Pohořelice, Czech Republic

Invite you cordially

17th International Conference

FORAGE CONSERVATION



27th - 29th September 2016

Hotel Bellevue - Stary Smokovec - Slovak Republic

PROGRAMME OF THE CONFERENCE



Monday, 26th September 2016

Arrival of participants, Accommodation

Tuesday, 27th September 2016

8⁰⁰ – 9⁰⁰ Registration of participants

9⁰⁰ – 9¹⁵ Opening ceremony - Jaroslav Slamečka, *Director of the RIAP Nitra, SK*

Plenary session

*Chairmen: Jaroslav Slamečka, NAFC - Research Institute for Animal Production Nitra, SK
Milan Šimko, Slovak University of Agriculture in Nitra, SK*

9¹⁵ – 10⁰⁰ Utilisation of perennial fodder crops - lucerne and clover - for production of high quality silages - Hakl, J. - CZ

10⁰⁰ – 10⁴⁵ Volatile Organic Compounds (VOC) in Silages – Effects of Management Factors on their Formation - Weiss, K. - DE

10⁴⁵ – 11⁰⁰ PAUSE

11⁰⁰ – 11⁴⁵ Fibre and protein quality of silages and their effects on ruminant performance- Nadeau, E. - SE

11⁴⁵ – 12³⁰ Grain silages: a review of additives - Nussio, L. G. - BR

12³⁰ – 14⁰⁰ LUNCH

Session 1 Production of forage crops

*Chairmen: Josef Hakl, Czech university of Life Sciences Prague, CZ
Mária Chrenková, NAFC - Research Institute for Animal Production Nitra, SK*

14⁰⁰ – 14¹⁵ Recent developments in evaluation of grassland swards - **Hopkins, A.** - UK

14¹⁵ – 14³⁰ The Quality and Nutritive Value of Meadow Hay as a Horse Feed from Western Region of Slovakia - **Gálik, B.**, Bíro, D., Rolinec, M., Juráček, M., Šimko, M., Hanušovský, O. - SK

14³⁰ – 14⁴⁵ Phenotype studies to select “Lfy” architecture maize silage hybrids - **Pinter, J.**, Tothne Zsubori, Zs., Nagy, Z., Pok, I., Spitko, T., Berzy, T., Szoke, Cs., Glenn, F. B., Marton, Cs. L.

- 14⁴⁵ – 15⁰⁰ Influence of dry weather on maize production in 2015 – **Loučka, R.**, Homolka P., Jančík F., Kubelková P., Tyrolová Y., Výborná, A. - CZ
- 15⁰⁰ – 15¹⁵ White and narrow-leafed lupine as an alternative source of quality forage - **Jančík, F.**, Kubelková, P., Koukolová, M., Homolka, P. – CZ

15¹⁵ – 15⁴⁵ Posters

Session 3 Conserved feeds in nutrition of animals

Chairmen: Elisabet Nadeau, Swedish University of Agricultural Sciences, SE
Radko Loučka, Institute of Animal Science, CZ

- 15⁴⁵ – 16⁰⁰ Selection and nutritive value of different hybrids of maize silage – **Jambor, V.**, Vosynková, B., Loučka, R. - CZ
- 16⁰⁰ – 16¹⁵ The effect of preserved forage quality on the health and performance of dairy cows - Illek J., Jambor V., **Rulfová, L.**- CZ
- 16¹⁵ – 16³⁰ Risks of feeding silages with low physically effective neutral detergent fibre - **Loučka R.**, Homolka P., Jančík F., Kubelková P., Tyrolová Y., Vyborna A., Illek J., Jambor V., Takahashi J., Okamoto, M.- CZ
- 16³⁰ – 16⁴⁵ A new approach related to digestible and undigestible NDF content of different forages. - **Orosz, S.**, Davies, D., Szemethy, D., Szabó, J., Podmaniczky, T.- HU

16⁴⁵ – 17⁰⁰ Posters

18⁰⁰ – 22⁰⁰ BANQUET

Wednesday, 28th September 2016

Session 2 Control of fermentation process, microbiology and hygienic quality of conserved feeds

Chairmen: Kirsten Weiss, Humboldt University Berlin, DE
Milan Gallo, Addcon SK, Ltd., SK

- 9⁰⁰ – 9¹⁵ Global warming and forage preservation – forages and treatments - **Marley G.** - UK
- 9¹⁵ – 9³⁰ Effect of silage additives on fermentation process of clover-grass mixture. - **Rajčáková, Ľ.**, Gallo, M., Poláčiková, M., Britaňák, N. - SK
- 9³⁰ – 9⁴⁵ Re-ensiling of Translocated Triticale Silage: To Inoculate or Not to Inoculate? - **Solórzano, L.C.**, Solórzano, L.L., Rodríguez, A.A. - USA
- 9⁴⁵ – 10⁰⁰ Effectiveness of various silage additives used in ensilage of sorghum grain and forage hybrid - Król, B., Słupczyńska, M., Sowiński, J., **Bodarski, R.**, Mońka, M. - PL
- 10⁰⁰ – 10¹⁵ Changes in chemical composition of sorghum grain variety (12GS9014) whole plants ensiled with application of various silage additives - Słupczyńska, M., Król, B., Sowiński, J., Bodarski, R., **Mońka, M.** - PL

- 10¹⁵ – 10³⁰ Effects of seven formic acid based additives on grass silage fermentation and aerobic stability - Rinne, M., Kuoppala, K., Mäki, M., **Seppälä, M.**, Jalava, T. - FI
- 10³⁰ – 10⁴⁵ Effects of different sodium nitrite-containing additives on dry matter losses, fermentation pattern and biogenic amine formation in lucerne and cocksfoot silage – **Auerbach, H.**, Nadeau, E.; Weiss, K.; Theobald, P. - DE

10⁴⁵ – 11¹⁵ Posters

- 11¹⁵ – 11³⁰ Improving of aerobic stability of maize silage by different additives - **Jambor V.**, Vosynková B. - CZ
- 11³⁰ – 11⁴⁵ Effects of dual purpose inoculants on fermentation parameters, aerobic stability and safety of whole crop maize silage after a short time of storage - **Jatkauskas, J.**, Vrotniakiene, V., Witt K. L. - LT
- 11⁴⁵ – 12⁰⁰ Oxygen barrier ('Silostop') stretch-wrap film improves hygienic quality of baled silage. - Lewis, D., Stein, K., Chamberlain, A. T., Banchemo, C., **Wilkinson, J. M.** - UK

12⁰⁰ – 13³⁰ LUNCH

Session 4 Technologies in production of silages and energy production in Biogas plants

Chairmen: Luis Gustavo Nussio, L. G. University of Sao Paulo, BR
Václav Jambor, NutriVet, Ltd., CZ

- 13³⁰ – 13⁴⁵ Silage Safety Practices that Save Lives - Bolsen, R. E., Uriarte, E., Charley, B., Schmidt, R. Wilkinson J. M., **Bolsen, K. K** - USA
- 13⁴⁵ – 14⁰⁰ Long-term storage of brewers' grains with no additives in the bag - **Loučka, R.**, Tyrolová, Y., Homolka, P.; Jančík F., Kubelková P., Výborná A. - CZ
- 14⁰⁰ – 14¹⁵ Ash concentrations in silages can be used to assess avoidable top layer losses due to aerobic spoilage in silos on commercial farms. – **Chamberlain, A. T.**, Wilkinson, J. M., Bolsen, K. K. – UK
- 14¹⁵ Closing ceremony – Ľubica Rajčáková, NAFC - Research Institute for Animal Production Nitra, SK
- 15⁰⁰ Afternoon walk in the Tatra nature

Thursday, 29th September 2016

- 8³⁰ – 18³⁰ **Trip** – Visit of the region of Orava

LIST OF POSTERS



Session 1 Production of forage crops

- Hanzes, Ľ., Britaňák, N., Ilavská, I.: Changes in dry matter production of abandoned grassland throughout its revitalization.
- Rolinec, M., Bíro, D., Šimko, M., Juráček, M., Gálik, B.: Changes in Energy Value of Permanent Grassland in Area of Nitra City
- Ilavská, I., Jančová, M., Hanzes, Ľ., Britaňák, N., Pollák, Š.: Productive ability and nutritive value of alfalfa (*Medicago sativa* L.) and its simple mixtures when grown in a mountainous region
- Bíro, D., Juráček, M., Šimko, M., Gálik, B., Rolinec, M., Herkeľ, R., Hanušovský, O., Piterka, P., Pířová, A., Hatala, L.: Effect of Silage Hybrid on Maize Forage Quality
- Tóthné Zsubori, Zs., Pintér, J., Spitkó, T., Szóke, Cs., Nagy, Z., Berzy, T., Marton, L. Cs.: Chemical quality changes during ripening of silage maize hybrids
- Férard A., Uijtewaal A., Meslier E., Kardacz P.: Effect of maize cutting height on its nutritive value
- Marton, L. Cs., Tóthné Zsubori, Zs., Spitkó, T., Szóke, Cs., Nagy, Z., Berzy, T., Pintér, J.: Leafy hybrids for quality silage maize breeding in Martonvásár
- Antoszkiewicz, Z., Fijałkowska, M., Purwin, C., Mazur, M.: The Effect of Harvest Date and Fermentation Process on the Levels of Carotenoids and Tocopherols in Virginia Fanpetals (*Sida hermaphrodita*) Herbage and Silage
- Purwin, C., Fijałkowska, M., Nogalski, Z., Lipiński, K., Michalski, J. P.: Ruminant Degradability of Dry Matter and Crude Protein from Virginia Fanpetals (*Sida Hermaphrodita* Rusby L.) Herbage and Silage
- Chrenková M., Pomykalová, S., Polačiková, M., Chrastinová, Ľ., Formelová, Z., Rajský, M., Mlynár, R.: Forage production from genetically modified crops.

Session 2 Control of fermentation process, microbiology and hygienic quality of conserved feeds

- Boczonadi, A., Kesselring, J., Boeck, G., Schoendorfer, K., Hoeger, T., Schatzmayr, G.: Effect of *Lactobacillus kefir* alone and in a silage inoculant blend on the fermentation quality of grass silage
- Loučka R., Homolka P., Jančík F., Kubelková P., Tyrolová Y., Výborná A.: Effect of additives on lucerne silage with high dry matter
- Römer, G., Kalzendorf, C., Milimonka, A.: Fermentation of early cut whole crop field beans (*Vicia faba*) affected by silage additives
- Auerbach, H., Weber, G., Nadeau, E., Weber, U., Weiss, K., Potthast, C.: Effects of Delayed Filling and Additive Use on the Quality of Pressed Sugar Beet Pulp Ensiled in Plastic Bags
- Tyrolová, Y., Bartoň, L., Loučka, R.: Effects of biological and chemical additives on fermentation progress in maize silage
- Carcano, P., Hocke, N., Marley, G.: The effect of Sil-All Maize+ FVA on Pastone Silage
- Bodarski, R., Hikawczuk, T., Słupczyńska, M., Król, B., Nałecz, M., Mońka, M.: The possibility of wet maize corn conservation with chemical additive
- Rabelo, C. H. S., Härter, C. J., McAllister, T. A., Reis, R. A.: A Meta-Analysis: Effect of Lime on the Chemical Composition, Fermentation, and Aerobic Stability of Sugarcane Silages in Brazil

- Rabelo, C. H. S., Härter, C. J., Reis, R. A.: A meta-analysis: effect of heterofermentative inoculants applied at the different dry matter contents on the fermentation patterns and aerobic stability of sugarcane silages

Session 3 *Conserved feeds in nutrition of animals*

- Orosz, S., Simon, Á., Szabó, J., Podmaniczky, T., Davies, D. R., Szemethy, D., Könyves, B. A. L.: Mineral content (Ca, P, K, Na, Mg, S, Mn, Zn, Cu, Fe) of the most important forages in Hungary (2013-2015)
- Orosz, S., Davies, D. R., Szemethy, D., Szabó, J., Podmaniczky, T.: Corn silage processing score in Hungary between 2013-2015.
- Féraud A., Peyrat, Uijtewaal A., Meslier E.: Effect of storage length on the maize starch degradability
- Chrenková, M., Pomikalová, S., Chrastinová, L., Polačiková, M., Formelová, Z., Rajský, M., Mlyneková, Z.: Effect of Crimped Maize Grain Ensiled with High Moisture Grains of Transgenic Bt Maize in Fattening Bulls
- Žitňan, R.: The level of rumen fermentation in heifers during transition from winter to pasture feeding.

Session 4 *Technologies in production of silages and energy production in Biogas plants*

- Mačuhová, J., Jakschitz-Wild, S., Haidn, B., Thurner, S.: Labour requirement for barn dried hay production and feeding on dairy farms.
- Nerušil, P., Menšík, L., Kincl, D., Srbek, J.: Influence of Soil Conservation Technologies of Maize Seeding on Yield and Forage Quality
- Jambor, V., Vosynková, B., Illek, J., Kudrna, V.: Increasing of effective fiber at TMR by new technology (Shredlage) for harvest of maize silage.

General Information

<i>Duration of presentation:</i>	Plenary papers 45 min. (with discussion) Papers in sections 15 min. (with discussion)
<i>Posters:</i>	Shall be placed on the reserved panel before the beginning of the Conference
<i>Projection equipment:</i>	Data projector
<i>Official languages:</i>	English, Slovak, Czech – Simultaneous interpreting will be provided

Organizing committee

Lady Chairman: Ing. Ľubica Rajčáková, PhD., NAFC - Research Institute for Animal Production Nitra

Members: Mgr. Dana Peškovičová, PhD., National Agricultural and Food Centre
 Assoc. Prof. Ing. Jaroslav Slamečka, PhD., NAFC – R. Inst. for Animal Production Nitra
 Ing. Matúš Rajský, PhD., NAFC - Research Institute for Animal Production Nitra
 Ing. Milan Gallo, PhD., Addcon SK, Ltd.
 Prof. Ing. Daniel Bíro, PhD., SUA in Nitra, Department of Animal Nutrition
 Assoc. Prof. Ing. Milan Šimko, PhD., SUA in Nitra
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