SECTION: PLANT PRODUCTION

Lecture room: M2.11

Start from: 9:45

Chairman: Prof. Ing. Radovan Pokorný, Ph.D.

9:45–11:00

1. Ing. Helena Hanusová - Plant species composition of vineyards in two Moravian wine villages, Mělčany and Rajhrad
2. MSc Hanadi Ananbeh - Spatial variability of soil properties within a coppiced forest ecosystem
3. Ing. Pavel Jagoš - Plant species composition of vegetation in vineyards of the wine village Velké Bílovice
4. Ing. Jiří Antošovský - The fertilization of fenugreek (Trigonella foenum-graecum L.) with sulphur and boron
5. Ing. Aneta Nečasová - Occurrence of pests of sorghum and rye grass in weather extreme year 2018

11:00–12:30

6. Ing. Barbora Kotlánová - Distribution of weed species on land with combined crops of spring triticale (xTriticosecale) and field pea (Pisum sativum var. arvense)
7. Ing. Petr Kouřil - Influence of sulfur fertilization on soybean microbiota
8. Ing. Leoš Kadlček - Weed infestation of fields with Westerwolds annual ryegrass (Lolium multiflorum var. Westerwoldicum)
9. Ing. Kateřina Mrvová - Assessment of yields of 20 varieties of sorghum at two different locations
10. Ing. Eliška Nováková - The fungal pathogens of Sorghum vulgare and Lolium multiflorum with focus on feed quality
11. Ing. Marie Bartíková - Sensitivity of different genotypes of Calonectria pseudonaviculata isolates to active fungicidal ingredients

12:30–13:30 LUNCH

13:30–14:30

12. Ing. Marie Školníková - The effect of nitrogen and sulphur fertilizers with inhibitors on poppy seed yield
13. Ing. Kateřina Jégrová - Potato virus Y transmission by Sitobion avenae and Myzus persicae
14. Ing. Marie Šmardová - Improved root system for better wheat drought tolerance
15. Ing. et Ing. Jiri Mezera - Spatial analysis of crop yields maps in precision agriculture

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SECTION: ANIMAL PRODUCTION

Lecture room: A31

Start from: 9:45

Chairman: Prof. Ing. Gustav Chládek, CSc.

9:45–11:00
1. Ing. Stanislav Navrátil - Influence of the yeast based feed mix supplementation on the quantity and quality of holstein cows milk during the summer season
2. Ing. Martina Malinská - Pregnancy duration in mares
3. Ing. Lucie Kupčíková (presented by Bc. Vladimír Zmrhal) - The effect of chicken genotypes on cutted pasture intake
4. MVDr. Barbora Umlášková - The influence of postpartum metabolic disease on the milk composition in the first hundred days of lactation in dairy cows
5. Ing. Magdalena Přibilová - The antioxidant enrichment of Duroc boar diet and its effect on quality of ejaculate during the summer season

11:00–12:30
6. Ing. Michaela Brudňaková - Comparison of the performance between the best jumping horses in Czech Republic and the world
7. Ing. Daria Baholet - Comparison of nutrient composition of sorghum varieties depending on different soil types
8. Ing. Ivana Novotná - The effect of hoof trimming on locomotion score and milk production of dairy cows
9. Ing. Zuzana Kubíková - Evaluating the descendants of stallions from the Cor de la Bryère line in Czech Warmblood breeding
10. Ing. Iva Rádsetoulalová - Comparison of two in vitro direct contact methods for testing acaricidal effect of essential oils in poultry red mites (Dermanyssus gallinae)
11. Ing. Katarína Soušková - Analysis of performance of horses in the Czech Republic and in the world based on dressage competitions

12:30–13:30 LUNCH

13:30–14:00
12. Ing. Lenka Urbánková Dis. - The influence of sodium selenite and selenium nanoparticles on the antioxidant status of laboratory rats
13. Ing. Barbora Kubištová - Evaluation of Czech warm-blood stallions based on performance of their daughter
SECTION: FISHERIES AND HYDROBIOLOGY

Lecture room: A25

Start from: 9:45

Chairman: Assoc. Prof. Ing. Radovan Kopp, Ph.D.

9:45–11:00

1. Ing. Veronika Brumovská - Effect of the addition of zeolite to the rainbow trout diet
2. Ing. Eva Poštulková - Effect of terbutryn on aquatic organisms
3. MVDr. Nikola Hodkovicova - The effect of antidepressants in surface water on Danio rerio organism
4. Mgr. Eva Syrova - Proliferative kidney disease in farmed and wild salmonids - risk of spreading and transmission
5. Marija Radojičić MSc. - Quantitative analyses of phytoplankton in Zámecký pond – three year research

11:00–11:30

6. Ing. Iveta Zugárková - Effect of phytase addition and citric acid on the production parameters of feed for Common Carp (Cyprinus carpio L.)
7. Ing. Ondřej Malý - Use of by-products from hemp processing in the nutrition of common carp (Cyprinus carpio L.)
SECTION: WILDLIFE RESEARCH

Lecture room: A34

Start from: 9:45

Chairman: Assoc. Prof. Ing. Josef Suchomel, Ph.D.

9:45–11:00

1. Bc. Jan Oulehla - Local extinctions of threatened species of *Pedicularis* L. in agriculture landscape of southeastern Bohemian-Moravian Highlands

2. Ing. Katarína Korísteková PhD - Quantification of greenhouse gas emissions from forest fire in the area of the Slovak Paradise National Park

3. Ing. Michal Mikloš, PhD. - Vegetation of the selected Slovakian ski pistes

4. Mgr. Attila Balázs - Contribution to the knowledge on the dragonfly fauna (Insecta: Odonata) of Islamic Republic of Iran

5. Ales Vladek - Pollination and pollinators of haskap (*Lonicera caerulea*)
SECTION: AGROECOLOGY AND RURAL DEVELOPMENT

Lecture room: X02

Start from: 9:45

Chairman: Prof. Dr. Ing. Milada Šťastná

9:45–11:00

1. Ing. Jan Zloch - Assessment of the effect of landfill leachate irrigation of different doses on selected plants
2. Ing. Pavla Pokorná - Ecological stability at the time of the Stable Cadastre and today
4. Ing. Dan Uldrijan - The analysis of species composition of vegetation on the recultivated parts of municipal waste landfill
5. Ing. Alžbeta Maxianová - Determination of phytotoxicity of compost from biodegradable waste from canteen

11:00–12:30

6. Ing. Jana Červenková - The influence of different types of waste on species composition of vegetation at the municipal waste landfill
7. Ing. Bc. Eva Stehnová - Possibilities of application of phenological observations
8. Ing. Alice Čížková - Observing the soil erosion on sloping vineyards when different soil cover applied
9. Andrea Lešková - Problems of very small municipalities in the South Moravian Region perceived by their mayors
11. Mgr.inż Julita Dworak - The concept of landscaping of municipal waste landfill
Order of conference speakers
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SECTION: FOOD TECHNOLOGY

Lecture room: X03

Start from: 9:45

Chairman: Assoc. Prof. Ing. Jan Pospíchal, CSc.

9:45–11:00
1. Ing. Klára Chvalinová - The use of saturated medium–chain fatty acids in wine production technology
2. Ing. Petr Mrázek - Assessment of possibilities of food grade gelatines preparation from chicken skin
3. Ing. Ondřej Stejskal - The influence of cryomaceration on the content of antioxidants and basic analytical parameters in white wines
4. Ing. Radim Holešinský - Use of dry ice in wine technology
5. Ing. Sylvie Ondrušíková - Effect of additives on the rheological properties of quail liquid egg products

11:00–12:15
6. Eszter Klecska - Effect of marine alga supplementation on goat cheese fatty acid profile
7. Michaela Vaidova - Selected qualitative parameters of oils from Hippophae rhamnoides L. and Rosa canina L.
8. Ing. Veronika Zigmundová - Changes of fatty acids content in rat liver after different diet
9. Ing. Marcela Jandlová - Esters of phthalic acid in sous-vide meat products made at 70 °C
10. Ing. Lenka Punčochářová - Study of the influence of brewing water on selected quantitative beer indicators and on content of B vitamins

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SECTION: PLANT BIOLOGY
Lecture room: A27

Start from: 9:45
Chairman: Ing. Pavel Hanáček, Ph.D.

9:45–11:00
1. Yuliia Malysheva - Isolation and detail characterization of aba1 T-DNA insertion mutant line of Arabidopsis thaliana
2. Ing. Martina Kolackova - Effect of lycorine on the green algae Chlamydomonas reinhardtii under UV-C irradiation
3. Valeriia Kopytko - Physiological and molecular analysis of selected Arabidopsis accessions during cold acclimation
4. Mgr. Jaroslav Pavlů - Cytokinin-deficiency enhanced tolerance to chloroacetanilide herbicide metolachlor
5. Ing. et Ing. Marketa Cerna - Effective pollen management during production of hybrid seeds of Petunia hybrida

11:00–12:00
6. Ing. Hana Habánová - The role of ubiquitin-conjugating enzymes during seed germination
7. Ing. Vladěna Koukalová - Light applied during cold acclimation modulates recovery of the petiole growth after the freezing stress
9. Ing. Peter Mendel - Morphological and photosynthetic characteristics of hemp (Cannabis sativa L.) grown in hydroculture with landfill leachate
Order of conference speakers
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SECTION: ANIMAL BIOLOGY
Lecture room: A23
Start from: 9:45

Chairman: Prof. MVDr. Zbyšek Sládek, Ph.D.

9:45–11:00
1. Ing. Rea Jarošová - Optimalization of cryohistological technique in rat and porcine lungs
2. Ing. Lucie Kratochvilova - TNF-α and IL-10 are produced by leukocytes during the experimental inflammatory response of bovine mammary gland induced by peptidoglycan
3. Ing. Petra Pešková - Effect of dietary intake of saturated and polyunsaturated fatty acids on weight of model animals
4. Damian Konkol MSc. - Effect of preparations based on algae extract on the formation of selected biochemical parameters of blood and immune response of laying hens
5. Ing. Anna Kubešová - Cytochrome b5 gene and its association with boar taint compounds in pigs

11:00–12:15
6. Ing. Jan Wijacki - New microsatellites detected in MHC I region in dromedary (Camelus dromedarius)
7. Ing. Tamara Mifková - Decomposition of cadavers of farm animals during the wintry months by necrophagous species determined by classical and molecular genetics methods
8. Ing Kristina Kharkevich - Transforming growth factor beta 1 production during inflammatory response of mammary gland induced by peptidoglycan
9. Ing. Ivona Trávníčková - Detection of ZP2 glycoprotein in bovine ovarian follicle cells and oocytes with different meiotic competence
10. Ing. Andrea Roztočilová - The effect of peptidoglycan on production of pro-inflammatory cytokines by mammary gland leukocytes during in vitro study

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SECTION: TECHNIQUES AND TECHNOLOGY
Lecture room: Q110
Start from: 9:45

Chairman: Assoc. Prof. Ing. Vojtěch Kumbár, Ph.D.

9:45–11:00
1. Ing. Marek Halenár (presented by Ing. Jozef Nosian) - Laboratory equipment for testing hydrostatic transducers
2. Ing. Jana Novotná - Proposal of waste collection route with using algorithms to solve the traveling salesman problem
3. Mgr. Eliška Kobzová - Raw material used for biogas production: monitoring of its composition with XRF spectrometer
4. Anna Miszkowska MSc. - Evaluation of soil-geotextile filtration behaviour using the gradient ratio test
5. MSc Paulina Cholewińska - The use of impedance testing to detect the differences between wool and alpaca wool

11:00–12:30
6. Ing. Tereza Dokulilová - Effects of copper on operating parameters during anaerobic stabilization of sewage sludge
7. Ing. Nela Poláková - TIG welding of stainless steel and titanium with additive AG 104
8. Mgr inż. Ewa Kruzyń ska - Assessment of the effectiveness of soil reclamation contaminated with hydrocarbons using the deaeration method
9. Ing. Vaclav Kaspar - Tensile testing of 3D printed material with digital image correlation
10. Ing. Jakub Rozlivka - Evaluating the quality of welds of heterogenous materials using acoustic emission
11. Piotr Osinski - Laboratory temperature conditions as factor influencing pore water pressure readings in unsaturated triaxial tests

12:30–13:30 LUNCH

13:30–14:15
12. mgr inż. Agnieszka Zdanowicz - Usage of fodder beet tuber pulp as a binder in straw pressure agglomeration
13. Eng. Aleksandra Pachuta, MSc. - Evaluation of liquid transverse distribution under a twin spray jet installed on a drone
14. MSc Eng Bogusława Berner, MSc Eng - Estimation of liquid deposition on corn plants sprayed from a drone

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SECTION: APPLIED CHEMISTRY AND BIOCHEMISTRY

Lecture room: M2.12

Start from: 9:45

Chairman: Prof. RNDr. Vojtěch Adam, Ph.D.

9:45–11:00
1. Ing. Barbora Tesařová - Effect of apoferritin surface-biomacromolecular modification on cellular uptake and inhibition of protein corona
2. Ing. Hana Buchtelova - Effect of surfactants and polymers on stability of superparamagnetic nanoparticles and on immobilization and release of antitumor agents
3. Ing. Jaroslava Bezďeková - Isolation and detection of bacteria using magnetic molecularly imprinted polymers
4. Ing. Kristýna Zemánková - Combinations of capillary electrophoresis-UV/Vis and molecularly imprinted polymers for detection of phytoestrogens
5. Ing. Vladislav Strmiska - Investigating the interplay between sarcosine and Ca2+-dependent signaling in prostate cells

11:00–12:30
7. Ing. Kristýna Pavelicová - Fluorescence in vivo imaging in the monitoring of effect of nanoparticles on microalgae
8. Ing. Zuzana Lacková - Hydroxyproline assay by HLPC-FLD applied for wound healing determination in rat model
10. Ing. Vendula Smolíková - Modification of electrothermal atomic absorption spectrometry for determination of arsenic in high salinity samples
11. Silvia Kočiová - Zinc phosphate nanoparticles as an antimicrobial agent and their impact on rats microbiota

12:30–13:30 LUNCH

13:30–14:45
12. Milica Gagic - Isolation of histamine using γ-Fe2O3 nanoparticles
13. Bc. Marcela Vlcnovska - Utilization of antibody-nanoparticle conjugates as a tool for immunochemistry with ICP-MS detection
15. Eliška Sedláčková - Signal amplification in the enzymatic glucose biosensor by developing an efficient transducer
16. M.Sc. Martin Struk - Perspectives of application of phototrophic sulfur bacteria in hydrogen sulfide utilization