

SECTION: PLANT PRODUCTION

Lecture room: A12

Start from: 9:45 Chairman: Prof. Ing. Radovan Pokorný, Ph.D.

9:45-11:00

- 1. Šimečková Jana, Ing. Detection of carbon content changes after biochar application on agricultural field experiment using both method walkley-black and thermogravimetry
- 2. Raco Milica, Bc. Reaction of Zymoseptoria tritici isolates collected in the Czech Republic during the year 2017 to azoxystrobin
- 3. Antošovský Jiří, Ing. The yield of potatoes and spelt in terms of organic farming
- 4. Horáková Eva, Ing. Selected soil properties under different types of management
- 5. Procházková Petra Relationship between barley yield and annual precipitation conditions

11:00-12:30

- 6. Jurecka Frantisek, Ing. Comparison of actual evapotranspiration from ALEXI and SoilClim models
- 7. Hanusová Helena, Ing. Species spectrum of weeds in biobelts founded in the cadastral territory Sobůlky
- 8. Červenková Jana, Ing. Species composition of vegetation in the active part of the municipal waste landfill in Nětčice
- 9. Uldrijan Dan, Ing. The species composition of vegetation growing on the recultivated parts of municipal waste landfills in Nětčice
- 10. Petrovic Bojana, MSc. Influence on onion (Allium cepa) yield and internal quality of bioadditive treatment
- 11. Slabá Veronika, Ing. Evaluation of roots system size in selected Trifolium vesiculosum genotypes

13:30-15:00

- 12. Bartíková Marie, Ing. Is Boxwood in chateau gardens endangered?
- 13. Bartošková Vlasta, Bc. Specific composition of vegetation in winery village Žabčice and Unkovice
- 14. Jagoš Pavel, Ing. Changes of land use in the historical period 1845–2000 in the cadastral territory of Věteřov
- 15. Šťastný Jiří, Bc. Specific composition of vegetation in winery village Bratčice and Syrovice
- 16. Vrtílek Petr, Ing. The influence of agronomic factors on the grain yield of winter wheat
- 17. Školníková Marie The effect of interaction between deficient nutrition and Pseudomonas syringae pv. tomato infection on development of tomato root system

15:00-16:00

18. Wimmerová Markéta, Ing. – Effect of artificially induced drought on growth and productivity of selected crops within field experiment in Bohemian-Moravian highlands



Order of conference speakers 8 November 2017

- 19. Klimešová Jana, Ing. Does the root system size and seed vigour affect the drought tolerance of wheat?
- 20. Mezera Jiří Evaluation of crop yield spatial variability in relation to variable rate application of fertilizers
- 21. Vágnerová Lucie, Ing. The elimination of milk thistle (Silybum marianum L. Gaernt.) in a subsequent crop



SECTION: ANIMAL PRODUCTION

Lecture room: M2.11

Start from: 9:45 Chairman: Prof. Ing. Gustav Chládek, CSc.

9:45-11:00

- 1. Šťastník Ondřej, Bc., Ing. Phosphorus retention from barley-type diets with different levels of endo-phytase
- 2. Navrátil Stanislav, Ing. Sum of effective temperatures and its effect on yield of Czech Fleckvieh Simmental
- 3. Kubíková Zuzana, Ing. Evaluating the importance of the stallion Scyris in the breeding of the Czech warmblood
- 4. Roztočilová Andrea, Ing. The influence of feeding wheat with blue aleurone on biochemical parameters antioxidant activity and performance of broiler chickens
- 5. Janoš Tomáš, Ing. The influence of breed sex and litter size on the growth intensity of lambs

11:00-12:30

- 6. Dočkalová Hana, Ing. Growth performance in laboratory rats in relation to addition of milk thistle pressing parts or mycotoxin contaminated feed ration
- 7. Klementová Kristýna, Ing. Influence of the stabling environment temperature on the reproduction of the high-producing dairy cows
- 8. Jaroš Jaromír, Bc. The effect of genotype and pasture on chickens performance and digestive tract development
- 9. Přibilová Magdalena, Ing. The effect of L-carnitine daily supplementation on quality of ejaculate of duroc boars
- 10. Zmrhal Vladimír, Bc. Use of herbal additive to eliminate the negative effects of heat stress on broilers
- 11. Rádsetoulalová Iva, Ing. Acaricidal activity of plant essential oils against poultry red mite (Dermanyssus Gallinae)

13:30-15:00

- 12. Hueberová Svatava, Ing. Serum glucose and alt concentrations during different levels of training in horses
- 13. Anderle Vojtěch, Ing. et Ing. Comparison of laying intensity and egg quality the effect of Japanese quail (Coturnix japonica) with different feather color
- 14. Dosedlová Jitka, Ing. Influence of milking period on the intensity of lying behaviour of dairy cows kept in boxes
- 15. Urbánková Lenka, Ing., Dis. The effect of selenium nanoparticles on the antioxidant potential of laboratory rats
- 16. Kubištová Barbora, Ing. The influence of environmental conditions and the month of birth on the prosperity of foals of the Czech warmblood breed on the stud farm ŠCHK-KUBIŠTA





17. Vaculíková Martina, Ing. – The effect of high barn temperature on the behaviour in Holstein dairy cows

15:00-16:00

- 18. Fikesová Veronika, Ing. Analysis of breeding and performance of horses in the Czech Republic based on eventing competitions
- 19. Umlášková Barbora, MVDr. Variation of biochemical parameters of energy and liver metabolism in periparturient goats
- 20. Kopečná Eva, Ing. Factors influencing the performance of the English thoroughbred horses
- 21. Němcová Zuzana Ruminal degradability of dry matter and crude protein in untreated and solvent-extracted soybean meal

16:00-16:45

- 22. Kautská Jitka, Ing. Effects of monensin on the copper, zinc and iodine contents in milk of dairy cows
- 23. Pecová Lenka, Ing. et Ing. Evaluation of the result reliability of basic milk composition in an automated milking system through indirect real-time analysis
- 24. Śpitalniak Kinga, Mgr., Ing. Effects of protein supplement on growth performance and blood parameters of Holstein-Friesian calves



SECTION: FISHERIES AND HYDROBIOLOGY

Lecture room: A25

Start from: 9:45 Chairman: Assoc. Prof. Ing. Radovan Kopp, Ph.D.

9:45-11:00

- 1. Mareš Lukáš, Ing. Second year of monitoring of aquatic invertebrates in an intensive fish farming system
- 2. Brumovská Veronika, Ing. The methodology of bryozoa cultivation in the laboratory conditions
- 3. Musilová Barbora, Ing. Use of bio-enzymatic products for the reduction and modification of fishpond sediments
- 4. Balázs Attila, Mgr. Dragonfly (Insecta: Odonata) assemblage of three types of habitats in the south of Central Slovakia
- 5. Radojičić Marija, MSc. Phytoplankton dynamic of small fishponds during the application of bacterial product

11:00-12:00

- 6. Malý Ondřej, Ing. Influencing the phosphorus digestibility from feed mixtures in carp breeding by using phytase enzymes and citric acid
- 7. Jurek Lukáš, Ing. Intraspecies variability of the chub (Squalius cephalus L.) in the Czech Republic and possibilities of its morphological determination
- 8. Minářová Hana, MVDr. Optimization of the lymphocyte transformation test in salmonid fish
- 9. Vávra Michal, RNDr. Ecological quality of pools, river branches and oxbow lakes of the Middle Elbe region



SECTION: AGROECOLOGY AND RURAL DEVELOPMENT

Lecture room: C01

Start from: 9:45 Chairman: Assoc. Prof. Dr. Ing. Milada Šťastná

9:45-11:00

- 1. Szturc Jan, Ing. The soil sealing of agricultural land by the development of intravilan in the cadastral area of Modřice
- 2. Zloch Jan, Ing. Use of hemp (Cannabis sativa L.) in management of landfill leachate: preliminary analysis and reaction on leachate irrigations
- 3. Chekuimo Georges Herbert, Ing. Urban and peri-urban forestry in the face of climate change in Cameroon: challenges and new perspectives for sustainability
- 4. Jirout Milan Sampling and analisys of sediments from Smolenská water reservoir basin
- 5. Ragasova Lucia, Ing. Effect of irrigation on plant development and flowering period of chosen plant mixture

11:00-12:30

- 6. Kučera Josef, Ing. The effect of a windbreak on the degradation of soil aggregates during the winter season
- 7. Lešková Andrea, Ing. Climate change and adaptation strategies in Bangladesh
- 8. Procházková Pavlína, Ing. An accessibility study of selected forested area regarding persons with reduced mobility
- 9. Peřinková Veronika The phenomenon of suburbanization and satisfaction of the population in selected villages
- 10. Dokulilová Martina Importance of isolated forest complexes for stable populations of small terrestrial mammals in lowlands of South Moravia (the Czech Republic)
- 11. Stehnová Eva, Ing., Bc. Phenological phases and their possible influence on soil erosion at maize

13:30-15:00

- 12. Svejkovská Adéla, Ing. Different impacts of drought in protected areas of the Mohelno Serpentine Steppe and the Moravian Karst
- 13. Novotný Břetislav, Ing. Google street view as a tool for faunistic research: case of Brigittea civica and its occurence in Moravia and Silesia (Czech Republic)
- 14. Ripelová Renáta, Ing. Water quality analysis in the upper part of Litava river basin focused on nitrogen compounds contamination
- 15. Hromadová Marcela, Ing. Perception social farming in Czech Republic and Great Britain
- 16. Schrimpelová Kateřina, Ing. Suitability of denitrifying woodchip bioreactor outflows for use in irrigation
- 17. Izsóff Martin, Mgr. Evaluation of development trends in the vineyard village of Čajkov (Slovakia)





15:00-16:00

- 18. Midler Milan, Mgr. Commercial Suburbanization of Nitra city (case study Čermáň district)
- 19. Vaculová Veronika, Ing. GIS analysis of potential locations for rain gardens in village Alekšince
- 20. Religa Arkadiusz, BSc, MSc The impact of leachate recirulation during aerobic biostabilisation of undersize fraction on the properties of stabilisate produced
- 21. Łukasiewicz Maria, Eng., MSc. A comparative analysis of the dynamics of changes in waste accumulation indicators in selected suburban communes case study





SECTION: FOOD TECHNOLOGY

Lecture room: X01

Start from: 9:45 Chairman: Assoc. Prof. Ing. Jan Pospíchal, CSc.

9:45-11:00

- 1. Zigmundová Veronika, Ing. Dynamics of changes in the content of selected anthocyanins during the processing of grain of the Scorpion wheat variety
- 2. Gočiková Magdaléna, Ing. The use of saturated middle-chain fatty acids in the technology of wine production
- 3. Ondrušíková Sylvie, Ing. Effect of additives on colour stability of yogurt
- 4. Ruban Artsiom, Ing. Influence of recipes of quality chocolate products during their storage
- 5. Stejskal Ondřej, Ing. The influence of cryomaceration on the content of antioxidants and basic analytical parameters in white wines

11:00-12:30

- 6. Müllerová Martina, Ing. The sensory quality changes in beef Longissimus thoracis et lumborum and semimembranosus muscles during aging
- 7. Kouřil Petr, Ing. Influence of pre-culinary treatment on microbiome of edible insect tenebrio molitor
- 8. Jandlová Marcela, Ing. Phthalate esters in sousages packaged individually
- 9. Boško Rastislav, Ing. The optimization of methods for phenolic compounds determination in elderberry (Sambucus nigra L.)
- 10. Fojtíková Lucie, Bc. Variability of the content and composition of lavender medical (Lavandula angustifolia P. MILL.) essential oils of different origin
- 11. Burdějová Lenka Effect of extraction solvents on phenolic compounds concentration, antioxidant activity and colour parameters of selected medical plants

13:30-14:15

- 12. Šťávová Elena, Ing. Extraction of ferulic acid from wheat bran by alkaline hydrolysis
- 13. Tran Dang Khoa The quality of hulled wheat species in organic farming





SECTION: PLANT BIOLOGY

Lecture room: A27

Start from: 9:45 Chairman: Mgr. Vilém Reinöhl, CSc.

9:45-11:00

- 1. Cerny Josef, Ing. In vitro inducted tetraploid Petunia hybrida of a red color
- 2. Habánová Hana, Ing. Objective evaluation of seed germination by proteomics and principal component analysis
- 3. Cerna Marketa Usage of UV irradiation for nucleus destruction of Petunia hybrida
- 4. Mendel Peter, Ing. Study of industrial hemp phytotoxicity in an experimental hydroponic culture
- 5. Grulichová Marie, Ing. Effect of different phytohormones on growth and development of micropropagated Cannabis sativa L.

11:00-12:30

- 6. Lalge Ajinkya, Ing. The effects of red, blue and white light on the growth and development of Cannabis sativa L.
- 7. Kolackova Martina, Ing. Antioxidant response of Arabidopsis thaliana to Zn–Se nanopartiples, selenium and zinc ions
- 8. Bačová Romana, Ing. Optimalization of DNA isolation process in freshwater microalgae using homogenizer
- 9. Strejčková Aneta, Ing. Effect of zinc-selenium nanoparticles on microalgae Scenedesmus quadricauda
- 10. Vetter Martin, Ing. Cytokinins in regulation of cotyledonary bud outgrowth in pea (Pisum sativum L.)
- 11. Skaláková Patricie, Mgr. Physiological and molecular changes in Arabidopsis thaliana during the process of cold acclimation and the role of light intensity

13:30-14:15

- 12. Pavlů Jaroslav, Mgr. Use of RT-qPCR method for analysis of cytokinin-activated reporter gene lacZ in E. coli
- 13. Černá Zlatica, Bc. Complex genome rearrangements in an Arabidopsis T-DNA line
- 14. Kušniarová Patrícia, Ing. Root phenotyping of soybean [Glycine max (L.) Merrill] genotypes based on image analysis



SECTION: ANIMAL BIOLOGY

Lecture room: A23

Start from: 9:45 Chairman: Prof. MVDr. Zbyšek Sládek, Ph.D.

9:45-11:00

- 1. Kratochvilova Lucie, Ing. Inflammatory cytokines produced by leukocytes of bovine mammary gland
- 2. Pillerová Lenka, Ing. Bites between domestic dogs
- 3. Dul'a Martin, Mgr. Lynx in human dominated landscape of Moravian Karst: preliminary results
- 4. Mifková Tamara, Ing. Nuclear genes carbamoyl phosphate synthetase and elongation factor- 1α as tool for identification of intraspecific gene variation in case of Lime Hawk-Moth (Mimas tiliae)
- 5. Štempáková Kristína, Ing. Life strategies of jumping spiders (ARANEAE: Salticidae) of genus Pellenes a possible explanation of the unusual sociability

11:00-12:30

- 6. Wijacki Jan, Ing. Microsatellite detection for variability study of MHC genes region in camels
- 7. Kubesova Anna, Ing. Expression of keratine 8 and ATP synthase subunit beta genes in relation with boar taint
- 8. Pešková Petra, Ing. Effect of dietary fatty acid composition on weight of model animals
- Kováč Jozef New modification of cultivation medium for isolation and growth of intestinal sulfate-reducing bacteria
- 10. Hamouzova Pavla, MVDr. Influence of oestradiol and progesterone levels on the number of mast cells in the feline myometrium
- 11. Šimek Vlastimil, MVDr. The age effect on selected blood biochemical parameters of young Dwarf Lop rabbits

13:30-14:45

- 12. Kala Robert, Ing. Association of selected genes with milk fat in two breeds of cattle
- 13. Halo Marko, Ing. Microelements and macroelements in seminal plasma affect oxidative balance of stallion semen
- 14. Tirpák Filip, Ing. Dietary supplementation of Rhus coriaria (sumach) moderately affects the rabbit spermatozoa motility
- 15. Ďuračka Michal, Ing. The effect of curcumin on in vitro induced bacterial contamination of rabbit ejaculates by Enterococcus faecalis
- 16. Sikora Agnieszka, Ing. The assessment of occurrence of drug-resistant strains of Escherichia coli in the poultry





SECTION: TECHNIQUES AND TECHNOLOGY

Lecture room: Q110

Start from: 9:45 Chairman: Assoc. Prof. Ing. Jiří Čupera, Ph.D.

9:45-11:00

- 1. Poláková Nela, Ing. Effect of heat treatment of CMT weld on its mechanical properties
- 2. Dokulilová Tereza, Ing. Effect of bronopol on anaerobic stabilization of sewage sludge and biogas production
- 3. Čížková Alice, Ing. Design and verification of formulas of compost piles with various proportions of grape pomace
- 4. Renčín Lukáš, Ing. Comparison of differential hydromechanical and mechanical transmissions in terms of impact on the drawbar pull properties of a tractor
- 5. Dušek Martin, Ing. The evaluation of greenery cover influence on the soil compaction in the inter-rows of grapevine

11:00-12:15

- 6. Rozlivka Jakub, Ing. Utilization of acoustic emissions in the evaluation of machining process
- 7. Halenár Marek, Ing. Research of biodegradable fluid during operating test
- 8. Miszkowska Anna, MSc. Change of water permeability of nonwoven geotextile exploited in earthfill dam
- 9. Popardowski Ernest BSc, MSc Technocal-economic aspects of the eradication of energy willow plantations
- 10. Osinski Piotr Soil water retention behaviour of granular soil modified pore pressure transducer tests



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. Luklova Marketa, Bc. How much is not enough? Peptite-based identification and quantitation of proteins
- 2. Buchtelova Hana, Ing. Ruthenium-based core-shell nanoparticles with exceptional in vitro biocompatibility
- 3. Tesařová Barbora, Ing. Surface PEGylation and PASylation to regulate nanoparticle interactions with biological environment
- 4. Strmiska Vladislav, Ing. Sarcosine degradation pathway is involved in the epigenetics of prostate cells
- 5. Berka Miroslav, Bc. Limited drying and its effect on peptide recovery rates

11:00-12:30

- 6. Charousova Marketa, Ing. hNET as a Taget for Neuroblastoma Nanomedicine
- Lacková Zuzana, Ing. Determination of hydroxyproline using Ion-exchange liquid chromatography with VIS detector and high performance liquid chromatography with fluorescence detector
- 8. Do Tomáš Determination of the content of capsaicin and dihydrocapsaicin in twelve varieties of chilli peppers by using liquid chromatography with uv/vis detection
- 9. Ananbeh Hanadi, MSc. Antioxidant activity of yoghurt supplemented with natural additives
- 10. Vaneckova Tereza, Ing. Characterization of upconversion nanoparticles by fluorescence spectrometry and capillary electrophoresis
- 11. Jelínková Pavlína, Ing. Antimicrobial activity of CdTe QDs modified with Lanthanides on Pseudomonas aeruginosa

13:30-15:00

- 12. Zelníčková Jaroslava, Ing. Comparison of interaction of two isoforms of metallothionein (potential source of the antitumor drug resistance) with platinum-based cytostatics and platinum nanoparticles
- 13. Buchtová Žaneta, Ing. The effect of coffee supplementation on glutathione and total thiols levels
- 14. Bytešníková Zuzana, Ing. Antibacterial activity of composite of graphene oxide with silver nanoparticles
- 15. Haddad Yazan, M.Sc. Spectral analysis of human norepinephrine transporter homing peptides
- 16. Hutařová Jitka, Mgr. Molecular imprinting technology for targeted analysis of proteins
- 17. Janštová Lenka, Ing. New option for decreasing of concentration limit of detection in electrophoresis





15:00-16:15

- 18. Štuříková Helena, Ing. The comparison of effect of zinc sulphate and zinc oxide nanoparticles on plants
- 19. Krausova Katerina, Bc. Apoferritin-Mediated doxorubicin internalization through transferrin receptor 1
- 20. Němcová Natálie Spiropyran-zinc interaction characterized by fluorescence spectrometry and capillary electrophoresis with laser-induced fluorescence detection
- 21. Dillingerová Veronika Classification of archaeological glass samples using LA-IC-PMS
- 22. Sieczka Anna, M.Sc. Evaluation of chlorides transport parameters in natural soils based on laboratory studies