

# YISAC 2019 PROGRAMME

## MONDAY, JUNE 24

- 17:00 REGISTRATION - Entrance Hall at Faculty of Chemical Technology, Studentská 573, Pardubice (1<sup>st</sup> floor)
- 18:00 GET-TOGETHER PARTY - Lecture Hall C I (1<sup>st</sup> floor)

## TUESDAY, JUNE 25

- 8:00 REGISTRATION
- 9:00 OPENING CEREMONY - Lecture Hall C I (1<sup>st</sup> floor)
- 9:15 HOMAGE to Prof. Karel Vytrās and Prof. Valerija Gužvanj

SESSION 1	Sensors I	Chairs: Łukawska A., Vlahović F.
9:45	<b>Farag Amir Shaaban</b> <i>Development of carbon nanotube based sensor for determination of antiarrhythmic drug propafenone in pharmaceutical and biological samples</i>	
10:05	<b>Šekuljica Sanja</b> <i>Evaluation of total antioxidant capacity in beverages based on laccase immobilized on screen-printed carbon electrode modified with graphene nanoplatelets and gold nanoparticles</i>	
10:25	<b>Sedlar Andrea</b> <i>Preparation of a novel membranes for ion-selective electrodes for iron determination based on iron(II) sulfide and silver sulfide</i>	

10:45 – 11:05 COFFEE BREAK

SESSION 2	Electrochemistry I	Chairs: Zrinski I., Farag A. S.
11:05	<b>Łukawska Anna</b> <i>Influence of constant magnetic field on electrochemical oxidation of sulfonamides.</i>	
11:25	<b>Gričar Ema</b> <i>Electrochemical characterization of ferrocene derivate of glyphosate and its degradation product</i>	
11:45	<b>Jashari Granit</b> <i>Possibilities of simultaneous voltammetric detection of tocopherols in non-aqueous media</i>	

12:05 – 14:00 LUNCH

**SESSION 3   Separation Methods I   Chairs: Rijavec T., Šulc J.**

- 14:00 **Pavlin Anže**  
*LC-MS analysis of glycolysis metabolites using HILIC*
- 14:20 **Frühbauerová Michaela**  
*UHPLC analysis and antioxidant activity of carob powder*
- 14:40 **Doležánová Pavla**  
*Separation of natural dyes using two-dimensional liquid chromatography*

15:00 – 15:20 COFFEE BREAK

**SESSION 4   Separation Methods II   Chairs: Frühbauerová M., Pavlin A.**

- 15:20 **Warzechová Petra**  
*Optimization of liquid chromatographic separation of benzodiazepines*
- 15:40 **Rijavec Tjaša**  
*Oxidative degradation of spermine and spermidine*
- 16:00 **Presentation by INFINEON**

19:00 SUPERVISORS DINNER

**WEDNESDAY, JUNE 26**

**SESSION 5   Separation Methods III   Chairs: Smělá D., Metarapi D.**

- 9:00 **Šulc Jakub**  
*Spatial distinguishing of larch wood samples using volatile compounds fingerprinting*
- 9:20 **Řebíčková Kristýna**  
*Comparison of chemical composition and biological properties of essential oils obtained by hydrodistillation and steam distillation of *Laurus nobilis* L.*
- 9:40 **Machová Martina**  
*Volatile substances released from onion*
- 10:00 **Janečková Michaela**  
*Quality control of antidiabetic drugs using isotachophoresis*

10:00 – 10:20 COFFEE BREAK

**SESSION 6 Other Methods**Chairs: **Janečková M., Řebíčková K.****10:20 Vlahović Filip***Exploring anatomy of experiment with DFT: quantitative structure-activity relationship of substituted arylazo pyridine dyes in photocatalytic reaction***10:40 Metarapi Dino***Advanced imaging of nanoparticles in biomaterials - data processing in laser ablation–single particle–ICPMS***11:00 Št'ovíčková Eliška***Phosphorylation of tau protein by soluble and immobilized kinases***11:20 Smělá Denisa***Micro-RNA isolation using TiO<sub>2</sub> materials***11:40 – 14:00 LUNCH****SESSION 7 Sensors II**Chairs: **Morawska K., Festinger N.****14:00 Zrinski Ivana***Evaluation of total antioxidant capacity in beverages based on laccase immobilized on screen-printed carbon electrode modified with graphene nanoplatelets and gold nanoparticles***14:20 Kaczmarek Katarzyna***Electrochemical determination of clorsulon using modified with single-walled carbon nanotubes glassy carbon electrode***14:40 Djurdjic Sladjana***Enzymatic polyphenol index biosensor based on graphene nanoplatelets decorated with MnO<sub>2</sub> nanoparticles. Preparation, characterization and analytical application***15:00 – 15:20 COFFEE BREAK****SESSION 8 Electrochemistry II**Chairlady: **Djurdjic S., Kaczmarek K.****15:20 Morawska Kamila***Application of silver amalgam film electrode to study DNA-herbicides interactions***15:40 Kołodziejczyk Karina***Electrodeposition of metals with different magnetic properties in constant magnetic field***16:00 Festinger Natalia***Voltammetric determination of mandipropamid on edge-plane pyrolytic graphite electrode***19:00 CONFERENCE DINNER****THURSDAY, JUNE 27****10:00 OPTIONAL EXCURSION** - Sightseeing tour to old city of Pardubice and chateau