

Monday, March 17

Halls Prague D + Vienna I

8:00 – 17:45 PUTTING UP OF POSTERS

17:45 – 19:45 POSTER SESSION (chairperson: *M. de Loos-Vollebregt, G. Schlemmer, P. Matějka, T. Černohorský, T. Uhlíková*)

- MP1: **F. Čacho** - Reducing of the interferents in the determination of trace concentrations of selenium, arsenic and mercury with AAS method
- MP2: **I. Hagarová** - Rapidly synergistic cloud point extraction of ultratrace lead combined with electrothermal atomic absorption spectrometry determination
- MP3: **D. Bakircioglu** – Separation/preconcentration system based on emulsion induced breaking procedure for determination of cadmium in edible oil samples by flow injection FAAS
- MP4: **Y. Bakircioglu Kurtulus** – Comparison of extraction induced by emulsion breaking procedure to other wet digestion and ultrasonic extraction methods for the determination of trace metal in herbal oil samples by ICP-OES
- MP5: **H. Altundag** - Quantitative determination of some trace and essential elements by using ICP-OES in plants of the genus *ferula*
- MP6: **S. Ružičková** - Possibilities of the ETV-ICP-OES method at the analysis of Pd/C based catalysts
- MP7: **D. Remeteiová** - Investigation on metal leaching of hydrogenation catalysts by HR-CS AAS method
- MP8: **P. Masson** - Imaging of elements in the leaves of tobacco by solid sampling-electrothermal vaporization-inductively coupled plasma-atomic emission spectrometry (SS-ETV-ICP-AES)
- MP9: **E. Zambrzycka** – Determination of total sulfur in water, wine and plants samples by high-resolution continuum source flame molecular absorption spectrometry (HR-CS flame MAS)
- MP10: **E. Zambrzycka** – A novel Rh(III)-ion imprinted polymer for selective polymer for selective solid phase extraction and determination of rhodium by ETAAS
- MP11: **U. Oppermann** – The determination of metals in the food chain using high speed self reversal method for background compensation
- MP12: **P. Matůš** - Assessment of aluminum bioleaching by the filamentous fungus using flame atomic absorption spectrometry
- MP13: **P. Matůš** - Spectrochemical determination of Mercury in selected plant species and soil from contaminated locality Rudňany-Stožky (Slovakia)
- MP14: **S. Musil** - A Sapphire tube atomizer for on-line atomization and in situ collection of bismuthine and volatile species of silver
- MP15: **P. Buček** - Direct sample introduction for ICP-OES heavy metal determination in honey
- MP16: **E. Vasileva-Velva** - Marine monitoring studies for toxic elements with the application of fast temperature programs and solid sampling continuous source high resolution atomic absorption spectroscopy
- MP17: **B. Welz** – Determination of selenium in soil samples using high-resolution continuum source graphite furnace AAS and direct solid sample analysis
- MP18: **M. G. R. Vale** – A case study for the simultaneous determination of Mo and Ni by HR-CS GF AAS in solid and liquid samples
- MP19: **M. B. Dessuy** - Investigation of spectral interferences in the determination of lead in fertilizer samples using high-resolution continuum source graphite furnace atomic absorption spectrometry
- MP20: **C. S. Hüber** – Investigation of chemical modifiers for sulfur determination in diesel fuel using HR-CS GF MAS
- MP21: **S. Matějková** - Sugar tracking in bumblebees based on determination of gadolinium in a non-toxic complex by ICP-OES
- MP22: **I. V. Mazepa** - Content of essential metals in man blood and sperm under sterility

- MP23: **Z. Melichová** - Spectrometric assessment of metals pollution in the old mining area Ľubietová (central Slovakia) using the moss – water – soil system
- MP24: **B. B. F. Filho** - Determination of copper in cachaça by ring oven preconcentration and laser induced breakdown spectroscopy
- MP25: **Y. Bazel** – Indirect determination of compounds using atomic absorption spectrometry
- MP26: **M. Fišera** – Determination and speciation of tin compounds in food
- MP27: **J. Gałeczka** - Eco-friendly alloys – tin-based spectral certified reference materials
- MP28: **E. Garcia-Ruiz** - Direct determination of Palladium, Platinum and Rhodium in car catalysts by means of high-resolution continuum source graphite furnace atomic absorption spectrometry
- MP29: **E. Sedykh** - AAS and ICP-AES determination of Au and Ag in composite nanoparticles: From colloidal solutions to biological objects
- MP30: **A. Asweisi** - Determination of selenium by flame atomic absorption spectrometry after preconcentration on polyurethane foam
- MP31: **J. Kubová** - Determination of iodine fractions in soil extracts using different analytical methods
- MP32: **M. Horváth** – Long term evaluation of heavy metal contamination mobility in lake sediments
- MP33: **K. Kovács** – Change of heavy metal environmental mobility of the 2000's contamination at upper Tisza river floodplain
- MP34: **M. Svoboda** - New cryogenic trap design for speciation analysis of arsenic by hydride generation – atomic absorption spectrometry
- MP35: **Y. Bazel** - Comparison of AAS and UV-VIS speciation of platinum: various techniques for enhancement of analytical signal
- MP36: **A. Krata** – Determination of mercury species in biota samples by applying non-chromatographic separation and isotope dilution inductively coupled plasma mass spectrometry
- MP37: **M. Žemberyová** - ET AAS determination of trace chromium in waters after preconcentration and speciation by solid phase extraction using nanometer-sized zirconium oxide
- MP38: **A. Kaňa** - Speciation analysis of iodine in animal tissues by size-exclusion chromatography with inductively coupled plasma mass spectrometry
- MP39: **M. Vosmanská** - Speciation analysis of selenium in plant – fortification study
- MP40: **M. Iglesias - Juncà** – Speciation analysis of arsenic in saliva samples
- MP41: **O. Zvěřina** - Mercury levels and its geographical distribution on James Ross Island, Antarctica
- MP42: **H. Kosárová** – The development of the analytical method for determination of platinum in urban dust in Brno's agglomeration
- MP43: **J. Sysalová** - Mercury species in contaminated soils and released soil gases
- MP44: **R. Komendová** – Simultaneous preconcentration of platinum group metals (PGMs) on polymer-based sorbent (SDB-L) and their determination by ICP-MS
- MP45: **L. Krajcarová** - Elemental analysis of soils and plants in the town Pyramiden and its surroundings (Svalbard)
- MP46: **M. Zeiner** - Quantitative needle element composition of two pine species and their hybrids
- MP47: **J. Száková** - The analytical aspects of mobile Ca, K, Mg, P determination in soil by using various extraction methods
- MP48: **K. Štěpánková** - Acrodont Ankylosis analysis of chameleon yemen (*chamaeleo calyptratus*) by laser induced breakdown spectroscopy
- MP49: **J. Novotný** - Interaction chamber for the laser-induced breakdown spectroscopy
- MP50: **G. Vítková** - Brick classification by combination of principal component analysis and linear discriminant analysis using laser-induced breakdown spectroscopy
- MP51: **D. Procházka** - 3D chemical mapping of selected geological samples using combination of laser-induced breakdown spectroscopy and μ CT
- MP52: **T. Vaculovič** - Elemental mapping geological samples by means of laser ablation inductively coupled plasma mass spectrometry
- MP53: **P. Procházková** - Detection of heavy metals in algae by laser-induced breakdown spectroscopy in liquid jets

- MP54: **L. Sládková** - Enhancement of detection limits on metallic samples in laser-induced breakdown spectroscopy (LIBS) using nanoparticles
- MP55: **Z. Zvěřina** - Laser-induced breakdown spectrometry in analysis of melts
- MP56: **M. Horňáčková** – Calibration free laser induced breakdown spectroscopy amorphous thin ribbons using high resolution spectrometer and EM CCD camera
- MP57: **M. Horňáčková** – The preparation of calibration standards for analysis of archaeological copper artefacts using laser-induced breakdown spectroscopy (LIBS)
- MP58: **M. Konečná** – Utilization of laser-induced breakdown spectroscopy for distribution mapping of trace metals in nanotextiles
- MP59: **M. Holá** - FMPS and SMPS on-line monitoring of nanoparticles formed during laser ablation
- MP60: **M. Vaňková** - LA-ICP-MS in analysis of fossilized skeletal remains and material changes
- MP61: **A. Limbeck** - Dispersed particle extraction using magnetic nano-particles for the quantification of rare earth elements from road-dust digests
- MP62: **P. Masson** - Three ways to investigate the analytical signal in electrothermal vaporization inductively coupled plasma-atomic emission spectrometry
- MP63: **A. Ruszczynska** - Microwave digestion of sediment and soils for trace metal analysis by ICP- MS
- MP64: **E. Kurek** – Preparation of biological samples in terms of the identification of selenium compounds
- MP65: **M. Šucmanová** – Emerging soil contamination by platinum group elements from traffic in the Czech Republic

Tuesday, March 18

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17:00 – 19:00 POSTER SESSION (*chairpersons: M. Sperling, E. Beinrohr, M. Miglierini, I. Němec, B. Vlčková*)

- TP1: **A. Detcheva-Tchakarova** - Characterization of fly ash samples from Bulgarian coal-burning power plants by means of total reflection X-ray fluorescence analysis
- TP2: **P. Puliš** – Use of X-ray analysis for evaluation of the Pd-catalysts properties
- TP3: **Z. Jakubíková** - High temperature volatility of components of glasses for chrompic nuclear waste vitrification - XRF and ICP OES study
- TP4: **M. Petr** – Low temperature Mössbauer spectroscopy of frozen iron-bearing solutions
- TP5: **T. Kmjec** – The magnetic ordering in Ba(Fe,Nb)O₃ and Pb(Fe,Nb)O₃ studied by Mössbauer spectroscopy
- TP6: **J. Kohout** - Temperature dependence of hyperfine fields in e-Fe₂O₃ nanoparticles
- TP7: **J. Dubrovkin** - Mathematical analysis of multiplet structure of spectra
- TP8: **D. Hausknechtová Markechová** - Comparison of spectroscopic methods for the determination of brandy adulteration
- TP9: **J. Sádecká** - Comparison of spectroscopic methods for Classification of juniper-flavored spirit drinks
- TP10: **L. Mišková** - Spectroscopic approach to the weathering of glasses
- TP11: **M. Linhartová** - Spectroscopic investigation of amber from the Hallstatt Age settlement at Kralice na Hané
- TP12: **L. Mišková** - Spectroscopic study of anomalous uranium enrichment in coal
- TP13: **Y. Bazel** - Structure and properties of cationic Basacryle dyes
- TP14: **U. Oppermann** - “State of the art spectroscopy” using LO-RAY-LIGH® diffraction gratings
- TP15: **P. Paroulek** – Study of interaction of benzo[c]phenanthridine alkaloids with DNA
- TP16: **M. Rájecký** – Quaternary benzo[c]phenanthridine alkaloids – spectroscopic properties
- TP17: **M. Bilge** - A joint theoretical and experimental study of 1-acetylpiperazine: Vibrational spectra
- TP18: **C. Parlak** - DFT, FT-IR and Raman investigations of 1-formylpiperazine
- TP19: **Z. Morávková** - Polypyrrole–silver colloids
- TP20: **M. Zeug** - Raman spectroscopic study of the radiation damage in zircon xenocrysts from kimberlites in northern Yakutia
- TP21: **M. Bláha** - Spectroscopic investigation of polyaniline synthesized with the Iron(III)/H₂O₂ catalyst system
- TP22: **N. Kotov** - Spectroscopic investigation of the interactions of Pluronic® with cellulose dissolved in ionic liquid
- TP23: **P. Táborský** - Fluorescent DNA probes based on phenanthridine alkaloids
- TP24: **M. Clupek** - SEVS spectroscopic determination of biologically important compounds at physiological concentration level: New achievements and possible pitfalls
- TP25: **M. Chromčíková** - UV-VIS-NIR and Raman spectra of glasses for CHROMPIC nuclear waste vitrification
- TP26: **P. Lubal** – Solution study of chemical equilibria of adenine-like ligands
- TP27: **J. Vaněk** - Dual sensor for determination of biologically significant anions
- TP28: **J. Hegrová** - Determination of platinum group elements in airborne particles and road dust with ICPMS
- TP29: **K. Švihlová** – Study of amorphous thin films of Ge-As-Se system using laser desorption ionisation time-of-flight mass spectrometry
- TP30: **L. Bendakovská** – Use of algae for removing of metals from hospital wastewater – elemental analysis of algae

- TP31: **A. Zarkov** – Minor and trace elements in the shells of bivalve *macoma balthica* from Baltic Sea
- TP32: **M. Bukáčková** - Assessment of selected pesticides using gas chromatography/mass spectrometry
- TP33: **A. B. P. Leme** - Effect of cooking in a bioaccessibility of metals in bovine beef by ICP-MS
- TP34: **K. Tálos** – Determination of uranium in human urine samples by ICP-MS
- TP35: **L. Prokeš** – Laser ablation synthesis of new arsenic phosphides from elemental arsenic and red phosphorus. LDI-TOF mass spectrometry
- TP36: **F. Amato** - Fragmentation pattern of shape-persistent macrocycles: a mass spectrometric study
- TP37: **L. Kolářová** - Use of nanomaterials for TOF mass spectrometry of complex biomolecules and for tissue profiling
- TP38: **A. Salykin** - Identification of key regulatory metabolites in HESC by MALDI-TOF-MS
- TP39: **R. Mawale** – Generation of Au-Ag-Te clusters *via* laser ablation: Quadrupole ion trap time-of-flight mass spectrometric study
- TP40: **V. Štěpánová** - Laser ablation synthesis of new arsenic tellurides. LDI time of flight mass spectrometry
- TP41: **A. Midlik** - HPLC-MS identification of metabolites of selected benzophenanthridine alkaloids by rat liver microsomes
- TP42: **K. Dlabková** – Substrate-assisted laser desorption inductively-coupled plasma mass spectrometry for detection and characterization of gold nanoparticles
- TP43: **M. Šubrt** - Polybrominated diphenyl ethers and polycyclic aromatic hydrocarbons in soils from fireplaces
- TP44: **M. Štefka** – Assessment of synthetic musk compounds in waste water
- TP45: **T. Pluháček** – Mass spectrometry as a tool for determination of fungal siderophores
- TP46: **N. Čimová** - In situ laser ablation ICP-MS analyses of gem opals
- TP47: **L. Veverková** - Determination of silver by ICP-MS in animal tissues
- TP48: **J. A. Do** - Study on establishing advanced analytical libraries for illegal food and drug compounds
- TP49: **T. Warchilová** - Elemental mapping animal accumulators of heavy metals by means of LA-ICP-MS
- TP50: **M. Kuba** - Determination of metals released from articular replacements in clinical samples by ICP-MS
- TP51: **M. Iglesias - Juncà** – Metal uptake and root growth in potato plants are affected by suberin amount and composition
- TP52: **J. Illner** - Fluorescence products in erythrocytes as a biomarker of early Alzheimer's disease
- TP53: **V. Řezáčová** - Determination of heavy metals in soils from surroundings of the Luhačovice dam
- TP54: **B. Hanulíková** - Theoretical study of polaron binding energy in conformationally disrupted oligosilane
- TP55: **B. D. Öztürk** – Synthesis and characterization of magnetic nanoparticles and its application for removal of metal ions in water
- TP56: **W. Cegielska** - Zinc distribution in plant tissues – interdisciplinary approach
- TP57: **B. Ruttkay-Nedecky** - Utilization of spectrophotometric and electrochemical methods for investigation of silver ions effect on DNA enzyme activity
- TP58: **L. Nejd** - Interaction study of arsenic (v) ions with metallothionein gene (MT2a) fragment assessed by spectrometry
- TP59: **J. Kudr** - The anchor system used as a proof of nanoparticle encapsulation within apoferritin

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