

SUNDAY, SEPTEMBER 4TH

REGISTRATION

16:00 - 20:00

ATRIUM FACULTY OF SOCIAL STUDIES

WELCOME PARTY

17:00 - 20:00

ATRIUM FACULTY OF SOCIAL STUDIES

MONDAY, SEPTEMBER 5TH

OPENING CEREMONY (Hall P31)

8:00-8:30

KANICKÝ, MATĚJKA

SURFACE-ENHANCED RAMAN SPECTROSCOPY (Hall P31)

CHAIR: MATĚJKA

8:30 - 9:15

PL 1: Y. OZAKI

Chiral-label-free SERS and TERS strategies for chiral discrimination

9:15 - 9:35

OL 1: B. VLČKOVÁ

SERS and SERRS spectroscopy as a tool for probing and monitoring plasmon catalysed decarboxylation of Ru(II)-dicarboxybipyridine complexes

9:35 - 9:55

OL 2: M. PROCHÁZKA

New approaches in plasma-assisted nanostructured platforms for surface-enhanced Raman scattering (SERS) spectroscopy

9:55 - 10:15

OL 3: J. PÁSZTOR

Molecular spectroscopy NICOLET 1992-2022

10:15 - 10:35

OL 4: S. BERUS

The integration of a handheld Raman device and a SERS-based sensor for spectral recognition of vaginal fluids alterations

10:35 - 11:05

COFFEE BREAK (ATRIUM FACULTY OF SOCIAL STUDIES)

Explanatory notes:



Plenary lecture



Student lecture



Social events



Poster session



Invited lecture



Lunch/coffee

MONDAY, SEPTEMBER 5TH

PARALLEL SESSION

RAMAN SPECTROSCOPY & IR SPECTROSCOPY 1 (Hall P31)

CHAIR: JOHNSON

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| 11:05 - 11:35 | IL 1: E. KOČIŠOVÁ | Drop coating deposition Raman (DCDR) spectroscopy for sensitive detection of biologically important molecules |
| 11:35 - 12:05 | IL 2: A. BARTH | Structure and interactions of amyloid- β peptide aggregates unraveled by novel infrared spectroscopy approaches |
| 12:05 - 12:25 | OL 5: P. MOJZEŠ | Raman microscopy survey of intracellular purine inclusions: New paradigm of biocrystallization in eukaryotes |
| 12:25 - 12:45 | OL 6: V. PROFANT | Raman optical activity as a promising tool for mononucleotide g-quadruplexes studies |
| 12:45 - 13:05 | OL 7: M. LIBÁNSKÝ | Fluorescence-free material identification with new XTR technology from Metrohm |
| 13:05 - 14:45 | LUNCH (MU RECTORATE) | |

MONDAY, SEPTEMBER 5TH

PARALLEL SESSION

ICP-MS/OES (Hall P51)

CHAIR: MATOUŠEK

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| 11:05 - 11:35 | IL 3: M. CORTE-RODRIGUEZ | In-vivo and in-vitro studies on metal release (ions and nanoparticles) from dental implants using single-cell and single-particle ICP-MS |
| 11:35 - 11:55 | OL 8: F. GELMAN | Analysis of PTFE micro-particles by ICP-QMS operated in a single-particle mode |
| 11:55 - 12:15 | OL 9: M. GODULA | iCAP TQe ICP-MS: For samples where single quadrupole performance isn't enough |
| 12:15 - 12:35 | OL 10: J. DOBEŠ | Isotopic tools for uranium ores dating: application of uranium-lead and lead-lead dating systems |
| 12:35 - 12:55 | OL 11: J. VYHNANOVSKÝ | Photochemical vapor generation of rhodium and rhenium - on the way towards real sample analyses |
| 13:05 - 14:45 | LUNCH (MU RECTORATE) | |

MONDAY, SEPTEMBER 5TH

PARALLEL SESSION

RAMAN SPECTROSCOPY & IR SPECTROSCOPY 2 (Hall P31)

CHAIR: BARTH

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| 14:45 - 15:15 | IL 4: R. BETTENCOURT DA SILVA | Identification of microplastics by micro-FTIR: Validation and uncertainty evaluation |
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| 15:15 - 15:35 | OL 12: M. HÁKOVÁ | Microplastics analysis by agilent 8700 LDIR |
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| 15:35 - 15:55 | OL 13: K. BOTUROVÁ | Spectroscopic characterization of humic acids in chernozems |
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| 15:55 - 16:15 | OL 14: J. ŠTUBŇA | Identification of gemstones in watch by Raman spectroscopy |
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| 16:15 - 18:15 | POSTER SESSION (AUDITORIUM OF FACULTY OF SOCIAL STUDIES) | |
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| 19:30 - 22:00 | BRNO OBSERVATORY (SEE DETAILS IN SOCIAL PROGRAMME) | |
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MONDAY, SEPTEMBER 5TH

PARALLEL SESSION

SPECIATION ANALYSIS 1 (Hall P51)

CHAIR: FELDMANN

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| 14:45 - 15:15 | IL 5: G. SCHLEMMER | Instrumental Analysis in 30 minutes: bridging the techniques |
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| 11:15 - 15:35 | OL 15: T. MATOUŠEK | Simultaneous ultratrace speciation analysis of arsenic and germanium in natural water |
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| 15:35 - 15:55 | OL 16: K. CHIBA | Speciation analysis of Gd-based contrast agents in river water using HPLC-ICP-MS |
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| 15:55 - 16:15 | OL 17: P. NOMNGONGO | Miniaturised liquid phase extraction of butyl and phenyltins in sediment samples using deep eutectic solvent: Optimisation and HPLC-ICP-MS analysis |
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| 16:15 - 18:15 | POSTER SESSION (AUDITORIUM OF FACULTY OF SOCIAL STUDIES) | |
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| 19:30 - 22:00 | BRNO OBSERVATORY (SEE DETAILS IN SOCIAL PROGRAMME) | |
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TUESDAY, SEPTEMBER 6TH

**AAS 1 (Hall P31)
CHAIR: DĚDINA**

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| 8:30 - 9:20 | PL 2: E. FLORES | Advances and trends in sample preparation for analytical spectrometry |
| 9:20 - 9:50 | IL 6: E. BEINROHR | High resolution continuum source AAS for determination of nonmetals |
| 9:50 - 10:10 | OL 18: V. CYPRICHOVÁ | Study of distribution of zinc in ZnO nanoparticles in soil colloids (extracted from samples collected at various agricultural and forest sites in Slovakia) by sequential centrifugation and flame AAS |
| 10:10 - 10:40 | IL 7: M. ARRUDA | What metals/speciome can tell us about bioanalytics applied to health and plant science |
| 10:40 - 11:10 | COFFEE BREAK (ATRIUM OF FACULTY OF SOCIAL STUDIES) | |

TUESDAY, SEPTEMBER 6TH

PARALLEL SESSION

AAS 2 (Hall P31)

CHAIR: FLORES

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| 11:10 - 11:40 | IL 8: Z. ZHU | Plasma induced chemical vapor generation: a new green and efficient sample introduction method for atomic spectroscopy |
| 11:40 - 12:10 | IL 9: J. DĚDINA | Employing laser induced fluorescence and selected ion flow tube mass spectrometry to understand what happens in hydride atomizers |
| 12:10 - 12:30 | OL 19: F. SIMON | An improved method for the determination of PFAS using HR-CS-GFMAS via GaF detection |
| 12:30 - 12:50 | OL 20: Z. KOWALEWSKA | Spectral aspects in determination of fluorine via GaF, CaF and SrF molecules using high-resolution continuum source molecular absorption spectrometry |
| 12:50 - 14:30 | LUNCH (MU RECTORATE) | |

TUESDAY, SEPTEMBER 6TH

PARALLEL SESSION

RAMAN SPECTROSCOPY & IR SPECTROSCOPY 3 (Hall P51)

CHAIR: KOČIŠOVÁ

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| 11:10 - 11:40 | IL 10: I. NĚMEC | Promising molecular-based materials for nonlinear optics - spectroscopic, diffraction and optical study |
| 11:40 - 12:10 | IL 11: M. JOHNSON | Nanoscale infrared spectroscopy studies of cellulose |
| 12:10 - 12:30 | OL 21: P. MATĚJKA | Nanosopic techniques related to molecular vibrations |
| 12:30 - 12:50 | OL 22: J. HORÁK | Chemistry at the nanoscale - AFM meets IR spectroscopy |
| 12:50 - 14:30 | LUNCH (MU RECTORATE) | |

TUESDAY, SEPTEMBER 6TH

PARALLEL SESSION

SPECIATION ANALYSIS 2 (Hall P31)

CHAIR: DONARD

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|---------------|--|---|
| 14:30 - 15:00 | IL 12: J. FELDMANN | Elemental speciation from metals, metalloids to non-metals in environmental science: successes and problems |
| 15:00 - 15:20 | OL 23: A. RAAB | Arsenic and rice (<i>Oryza sativa L.</i>) |
| 15:20 - 15:40 | OL 24: A. ORLOWSKA | Comparison of mobile phases for cation exchange HPLC-ICP OES |
| 15:40 - 16:00 | OL 25: A. KAŇA | Selenium transformation by food-grade microorganisms |
| 16:00 - 16:20 | OL 26: J. PROCH | Determination of metals and metalloids species using self-designed hyphenated systems based on detection by optical emission spectrometry |
| 16:20 - 16:40 | OL 27: V. MUELLER | Mass balance analyses of PFAS in soil, snowmelt and ski waxes |
| 16:45 - 18:45 | POSTER SESSION (AUDITORIUM OF FACULTY OF SOCIAL STUDIES) | |

TUESDAY, SEPTEMBER 6TH

PARALLEL SESSION

LUMINISCENCE SPECTROSCOPY (Hall P51)

CHAIR: NĚMEC

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| 14:30 - 15:00 | IL 13: S. LIS | Inorganic nanoluminophores containing Ln ions and their multifunctionalized systems focused on sensor & analytical applications |
| 15:00 - 15:30 | IL 14: V. SVOBODA | Ultrafast time-resolved probes of chirality during photochemical reactions |
| 15:30 - 15:50 | OL 28: D. MATOUŠEK | FTIR-FPA and FTIR-QCL microscopy: Breakthrough techniques in infrared imaging |
| 15:50 - 16:10 | OL 29: P. LUBAL | The optical chemosensor array for analysis of halides or small biological molecules |
| 16:45 - 18:45 | POSTER SESSION (AUDITORIUM OF FACULTY OF SOCIAL STUDIES) | |

WEDNESDAY, SEPTEMBER 7TH

PARALLEL SESSION

MASS SPECTROMETRY (Hall P31)

CHAIR: WAGNER

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| 8:30 - 9:00 | IL 15: J. ČÁSLAVSKÝ | IRMS on the tides of the past |
| 9:00 - 9:20 | OL 30: A. KOHOUTOVÁ | Stopping efficiency simulation of cryogenic gas stopping cell |
| 9:20 - 9:40 | OL 31: E. BULSKA | Fluoroproteomics uncovers the effects of fluorinated drugs |
| 9:40 - 10:00 | OL 32: M. VIDO | Structural characterization of hydrophobic hyaluronan derivatives by comprehensive 2D-LC-MS |
| 10:00 - 10:20 | OL 33: J. KUČERA | The first AMS laboratory in the Czech Republic installed at the Nuclear Physics Institute of the CAS, Řež |
| 10:40 - 11:10 | COFFEE BREAK (ATRIUM OF FACULTY OF SOCIAL STUDIES) | |

WEDNESDAY, SEPTEMBER 7TH

PARALLEL SESSION

MICROWAVE PLASMA (Hall P51)

CHAIR: PISONERO

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| 8:30 - 9:00 | IL 16: M. BOROWSKA | Optical emission spectrometry coupled with microwave induced plasma - new applications in analytical- and nano- chemistry |
| 9:00 - 9:20 | OL 34: I. MACHADO | Microwave plasma atomic emission spectrometry for metallomics of bioactive rhenium compounds |
| 9:20 - 9:40 | OL 35: B. CIEŚLIK | Heavy metals fractions analysis in sewage sludge ash obtained on laboratory scale and from industrial origin |
| 9:40 - 10:00 | OL 36: A. RAGYÁK | Time travel with honeys - The MP-AES analysis coupled with AMS age determination of Hungarian acacia samples |
| 10:00 - 10:20 | OL 37: A. MOLLO | Advances in mercury determination by CV - MIP OES with nitrogen plasma, in drinking and surface water |
| 10:20 - 10:40 | OL 38: Z. SAJTOS | Time travel with honeys - The MP-AES analysis coupled with AMS age determination of Hungarian rape, sunflower and multifloral samples |
| 10:40 - 11:10 | COFFEE BREAK (ATRIUM OF FACULTY OF SOCIAL STUDIES) | |

WEDNESDAY, SEPTEMBER 7TH

PARALLEL SESSION

SPECIAL SPECTROSCOPY 1 (Hall P31)

CHAIR: KANTNEROVÁ

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| 11:10 - 11:40 | IL 17: P. NEUGEBAUER | High frequency rapid scan electron spin resonance spectroscopy |
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| 11:40 - 12:00 | OL 39: A. OPÍCHAL | Data analysis from catcher foil experiment for cross-sections measurement of $^{40}\text{Ar} + ^{144}\text{Sm}$ reaction |
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| 12:00 - 12:20 | OL 40: M. JIRUŠ | Mechanical and gamma-absorption properties of selected heat resistant materials used in development of sealed reaction chambers |
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| 12:20 - 12:40 | OL 41: P. LIŠKA | Correlative high-resolution optical and chemical imaging of CsPbBr_3 nanocrystals |
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| 12:40 - 14:30 | LUNCH (MU RECTORATE) | |
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| 15:00 | EXCURSION (SEE DETAILS IN SOCIAL PROGRAMME) | |
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WEDNESDAY, SEPTEMBER 7TH

PARALLEL SESSION

SPECIAL PLASMA SPECTROSCOPY (Hall P51)

CHAIR: BOROWSKA

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| 11:10 - 11:40 | IL 18: J. PISONERO | GD- and LA-ICP- (TOFMS): two powerful spectroscopy techniques for fast high spatially resolved analysis |
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| 11:40 - 12:10 | IL 19: Z. WEISS | Excitation in a glow discharge and an inductively coupled plasma: similarities and differences |
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| 12:10 - 12:30 | OL 42: J. KRATZER | Next generation of dielectric barrier discharge atomizers for ultratrace element analysis |
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| 12:40 - 14:30 | LUNCH (MU RECTORATE) | |
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| 15:00 | EXCURSION (SEE DETAILS IN SOCIAL PROGRAMME) | |
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THURSDAY, SEPTEMBER 8TH

LA-ICP-MS (Hall P31)

CHAIR: KANICKÝ

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| 8:00 – 8:50 | PL 3: D. GUENTHER | Recent developments in laser ablation and inductively coupled plasma mass spectrometry |
| 8:50 – 9:10 | OL 43: B. WAGNER | Comparative analysis of inks from the Chopin's manuscript Impromptu in a flat major, Op. 29: a proof of concept for a non-invasive image-based investigations of written cultural heritage |
| 9:10 – 9:30 | OL 44: M. KUCHYNKA | Bioimaging of elements and proteins by LA-ICP-MS in medicine and pharmaceutical research |
| 9:30 – 9:50 | OL 45: K. SOBEK | Imaging of chemical and structural processes in minerals |
| 9:50 – 10:15 | COFFEE BREAK (ATRIUM OF FACULTY OF SOCIAL STUDIES) | |

THURSDAY, SEPTEMBER 8TH

PARALLEL SESSION

LA-ICP-MS 2 (Hall P31)

CHAIR: GUENTHER

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| 10:15 - 10:45 | IL 20: O. DONARD | Transient signal potential in atomic spectrometry for advanced speciation and laser ablation |
| 10:45 - 11:15 | IL 21: D. SCHAUMLOFFEL | Nanoscale Secondary Ion Mass Spectrometry for elemental bioimaging in cells and tissue |
| 11:15 - 11:35 | OL 46: L. KRONLACHNER | Depth-resolved elemental and molecular analysis of polymeric composites using chemometric evaluation |
| 11:35 - 11:55 | OL 47: P. NEČAS | Application of spectroscopic methods in research of geochemical processes in the Upper Silesian coal basin |
| 11:55 - 12:15 | OL 48: M. BURŠÍKOVÁ | Evaluation of the element content in geological units and its importance in the environment evaluation – spectroscopy study |
| 12:15 - 14:00 | LUNCH (MU RECTORATE) | |

THURSDAY, SEPTEMBER 8TH

PARALLEL SESSION

MÖSSBAUER SPECTROSCOPY 1 (Hall P51)

CHAIR: MIGLIERINI

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| 10:15 - 10:45 | IL 22: V. PROCHÁZKA | Mössbauer spectroscopy in gamma-optics, gamma-optics in Mössbauer spectroscopy |
| 10:45 - 11:05 | OL 49: V. HEGER | Polymorphism and crystal structure of iron(ii) oxalate |
| 11:05 - 11:25 | OL 50: P. NOVÁK | Lamb-Mössbauer factor determination of powders by resonance Mössbauer spectroscopy |
| 11:25 - 11:45 | OL 51: J. KOPP | Thermally induced solid-state reaction of $\text{Fe}_2(\text{SO}_4)_3$ with NaCl or KCl : a route to $\beta\text{-Fe}_2\text{O}_3$ synthesis |
| 11:45 - 12:05 | OL 52: S. VYHNÁLEKOVÁ | Speciation analysis of iron in the biological matrix of filamentous fungi using Mössbauer spectrometry |
| 12:15 - 14:00 | LUNCH (MU RECTORATE) | |

THURSDAY, SEPTEMBER 8TH

PARALLEL SESSION

MÖSSBAUER SPECTROSCOPY 2 (Hall P31)

CHAIR: KOPÁNI

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| 14:00 - 14:30 | IL 23: M. MATULOVÁ | Application of spectroscopic techniques for speciation analysis of Iodine, Selenium and iron used in studies of processes in the near- and far-field regions of spent nuclear fuel disposal system |
| 14:30 - 14:50 | OL 53: S. LISNÍKOVÁ | Nickel-iron and zinc-iron bimetal oxalates: preparation, characterization and thermal decomposition to spinel ferrites |
| 14:50 - 15:10 | OL 54: M. MIGLIERINI | Mössbauer spectrometry of metallic alloys |
| 15:10 - 15:30 | OL 55: D. GREY | Mössbauer spectroscopy study of tin-containing metallic glasses |
| 15:30 - 16:00 | COFFEE BREAK (ATRIUM OF FACULTY OF SOCIAL STUDIES) | |

THURSDAY, SEPTEMBER 8TH

PARALLEL SESSION

ICP-MS/OES 2 (Hall P51)

CHAIR: HOLÁ

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| 14:00 - 14:20 | OL 56: D. MILDE | Approaches to evaluation of measurement uncertainty in ICP-MS analysis |
| 14:20 - 14:40 | OL 57: L. NYABA | Seasonal variation of drinking water quality and human health risk assessment: a case study in rural village of the eastern cape |
| 14:40 - 15:00 | OL 58: J. KARASIŃSKI | High precision measurements of lead isotope ratio without matrix separation |
| 15:00 - 15:20 | OL 59: T. MUNONDE | Magnetic Fe ₃ O ₄ @Mg/Al-layered double hydroxide adsorbent for preconcentration of trace metals in water matrices |
| 15:30 - 16:00 | COFFEE BREAK (ATRIUM OF FACULTY OF SOCIAL STUDIES) | |

THURSDAY, SEPTEMBER 8TH

PARALLEL SESSION

MÖSSBAUER SPECTROSCOPY 3 (Hall P31)

CHAIR: PROCHÁZKA

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| 16:00 - 16:30 | IL 24: M. ŠEBESTA | Some perspective spectroscopic techniques for analysis of nanoparticles used in studies with soils, plants and filamentous fungi |
| 16:30 - 17:00 | IL 25: M. KOPÁNI | Application of analytical techniques in the study of biological systems |
| 17:00 - 17:20 | OL 60: M. URÍK | Speciation of iron in microbial biomass and natural ochric precipitates as affected by fungal activity |

19:00 **CONFERENCE DINNER (POUPĚ BREWERY)**

THURSDAY, SEPTEMBER 8TH

PARALLEL SESSION

SPECIAL SPECTROSCOPY 2 (Hall P51)

CHAIR: NEUGEBAUER

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| 16:00 - 16:30 | IL 26: K. KANTNEROVÁ | Unravelling new isotopic dimensions of nitrous oxide by quantum cascade laser absorption spectroscopy |
| 16:30 - 17:00 | IL 27: F. LIGMAJER | Tunable optical metasurfaces based on vanadium dioxide |
| 17:00 - 17:20 | OL 61: A. VOJS STAŇOVÁ | Finding of needle in a haystack – nontargeted mass spectrometry analysis of environmental samples |

19:00 **CONFERENCE DINNER (POUPĚ BREWERY)**

FRIDAY, SEPTEMBER 9TH

LASER INDUCED BREAKDOWN SPECTROMETRY (Hall P31)

CHAIR: GALBÁCS

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| 9:00 – 9:30 | IL 28: P. POŘÍZKA | Complementarity of laser-induced breakdown spectroscopy and laser ablation inductively coupled plasma mass spectrometry in cancer tissues analysis |
| 9:30 – 10:00 | IL 29: J. LASERNA | Understanding the correlation of LIBS and acoustic measurements of rock and soil found in the traverse of Perseverance rover across the Jezero crater, Mars |
| 10:00 – 10:20 | OL 62: K. NOVOTNÝ | Laser induced breakdown spectroscopy imaging of uranium ores |
| 10:20 – 10:40 | OL 63: Y. DEGUCHI | LIBS applications of online monitoring and 2D/3D mappings for advanced control of industrial processes |
| 10:40 – 11:10 | COFFEE BREAK (ATRIUM OF FACULTY OF SOCIAL STUDIES) | |

FRIDAY, SEPTEMBER 9TH

LASER INDUCED BREAKDOWN SPECTROMETRY (Hall P31)

CHAIR: LASERNA

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|---------------|---------------------------------|---|
| 11:10 – 11:40 | IL 30: G. GALBÁCS | Nanoparticles in plasma spectroscopy: detection and signal enhancement in gaseous, liquid and solid samples |
| 11:40 – 12:10 | IL 31: J. KAISER | Enhancing the sensitivity of laser-induced breakdown spectroscopy for the detection of nanoparticle-labeled cancerous tissues |
| 12:10 – 12:30 | OL 64: P. KOLEČKÁŘ | Polychromator ORCA (Optimized Rowland Circle Alignment) |
| 12:30 – 12:50 | OL 65: D. HAHN | Aerosol analysis with laser-induced breakdown spectroscopy: Sampling approaches and recent applications |
| 12:50 – 13:10 | ESAS-CSSC 2022 CLOSING CEREMONY | |
| 13:10 – 14:30 | LUNCH (MU RECTORATE) | |