PROGRAM

7:30 - 8:20	REGISTRATION
8:20 - 8:40	OPENING OF THE CONFERENCE
	SESSION I (in NLT) Chair: František Tureček (University of Washington, United States)
8:40 - 9:30	Computational and Gas-phase Studies in Service of Catalysis Research: Identification of the "Aristocratic Atoms" <i>Helmut Schwarz (Technische Universität Berlin, Germany)</i>
9:30 - 10:00	Mass Spectrometry at the J. Heyrovský Institute of Physical Chemistry Miroslav Polášek (Heyrovský Institute of Physical Chemistry of the CAS, Czech Republic)
10:00 - 10:30	Gas Phase Ion-molecule Reactions in Czechia over 60 Years Patrik Španěl (Heyrovský Institute of Physical Chemistry of the CAS, Czech Republic) COFFEE BREAK
	SESSION II (in NLT) Chair: Michal Holčapek (University of Pardubice, Czech Republic)
11:00 - 11:30	Past, Present and Future of Orbitrap Mass Spectrometry (virtual presentation) Alexander Makarov (Thermo Fisher Scientific, Germany)
11:30 - 12:00	Development of Novel Ion-less Matrices for Profiling and Imaging Mass Spectrometry Aleš Svatoš (Max Planck Institute for Chemical Ecology, Germany)
12:00 - 12:30	Mass Spectrometry at the Institute of Organic Chemistry and Biochemistry & Museum Opening Josef Cvačka (Institute of Organic Chemistry and Biochemistry of the CAS, Czech Republic)
	LUNCH BREAK
	SESSION III (in NLT) Chair: Miroslav Polášek (Heyrovský Inst. of Physical Chemistry of the CAS, Czech Republic)
14:00 - 14:50	High-resolution Native Mass Spectrometry Albert J. R. Heck (Utrecht University, The Netherlands)
14:50 - 15:20	Noncanonical Ionized DNA Nucleobases and Nucleosides. A Dark Matter of DNA Ionization? František Tureček (University of Washington, United States)
15:20 - 15:50	Mass Spectrometry at the University of Pardubice: Focus on Lipidomics Michal Holčapek (University of Pardubice, Czech Republic)
15:50 - 16:20	Forty Year Evolution of High Throughput Mass Spectrometry: A Perspective (virtual presentation) Tom Covey (SCIEX, Canada)
	BREAK
	POSTER SESSION & DINNER (in OWTP)
17:30 - 19:00	POSTER SESSION

19:00 - 23:00 SOCIAL EVENT - Conference dinner, concert performance, guided underground tours

PROGRAM

	SESSION IV (in NLT) Chair: Jan Preisler (Masaryk University, Czech Republic)
8:40 - 9:30	FT ICR Mass Spectrometry. Is There Room for Further Improvements? (virtual presentation) Evgeny Nikolaev (Skolkovo Institute of Science and Technology, Russia)
9:30 - 10:00	Mass Spectrometry: from Metabolites to Art Karel Lemr (Palacký University Olomouc, Czech Republic)
10:00 - 10:30	Historical Perspectives on Bruker's Involvement in Mass Spectrometry and the Development of Modern Q-TOF Mass Spectrometry Gary H. Kruppa (Bruker, Czech Republic) COFFEE BREAK
	SESSION V – YOUNG SCIENTISTS (in NLT) Chair: Karel Lemr (Palacký University Olomouc, Czech Republic)
11:00 - 11:15	Identification of Novel Fatty Acids in Vernix Caseosa using UV Photodissociation Mass Spectrometry in Combination with Fixed-charge Photo-labile Derivatives Lukáš Cudlman (Institute of Organic Chemistry and Biochemistry of the CAS, Czech Republic)
11:15 - 11:30	Mass Spectrometry-based Chemical Proteomics in Protein Post-translational Modifications Analysis Pavel Kielkowski (Ludwig-Maximilians-Universität München, Germany)
11:30 - 11:45	Mapping of Regional and Subregional Unbound Drug Transport Across Blood-Brain Barrier Enabled by Quantitative Mass Spectrometry Imaging Dominika Luptáková (Uppsala University, Sweden)
11:45 - 12:00	Visualization of Polyamines and Amino Acids Alterations in Neonatal Brain Hypoxic-Ischemic Injury in Rats by Mass Spectrometry Imaging Hynek Mácha (Institute of Microbiology of the CAS, Czech Republic)
12:00 - 12:15	Temperature-Controlled Electrospray: A Window into Solution Thermochemistry of Non-Canonical Nucleic Acid Complexes Adam Pruška (ETH Zurich, Switzerland)
12:15 - 12:30	Freeing Aspergillus fumigatus of Polymycovirus Infection renders it More Resistant to Competition with Pseudomonas aeruginosa due to Altered Iron-acquiring Tactics Rutuja Patil (Institute of Microbiology of the CAS, Czech Republic)
	LUNCH BREAK
	SESSION VI (in NLT) Chair: Aleš Svatoš (Max Planck Institute for Chemical Ecology, Germany)
14:00 - 14:50	Native Ambient Mass Spectrometry: Mass Spectrometry Imaging of Intact Proteins and Protein Complexes (virtual presentation) Helen J. Cooper (University of Birmingham, United Kingdom)
14:50 - 15:20	A (Time of) Flight from Ames to Brno: Laser Desorption Mass Spectrometry at Masaryk University Jan Preisler (Masaryk University, Czech Republic)
15:20 - 15:50	The History of Time-of-Flight Mass Spectrometry at: VG - Micromass - Waters (virtual presentation) <i>Mike Morris (Waters Corporation, Manchester, United Kingdom)</i>
15:50 - 16:20	Mass Spectrometry Innovation at Agilent Technologies (virtual presentation) George Stafford (Agilent Technologies, United States)
16:20 - 16:30	CONFERENCE CLOSING

PROGRAM

	IOCB ChemBioDrug Workshop (in NLT) Chair: Josef Cvačka (IOCB, Czech Republic)
17:00 - 17:05	OPENING
17:05 - 17:25	Orbitrap Fusion Lumos: A Versatile Mass Spectrometer for Biomolecules Martin Hubálek (Institute of Organic Chemistry and Biochemistry of the CAS, Czech Republic)
17:25 - 17:45	Protein Structure and Interactions Studied by Cross-Linking Mass Spectrometry Petra Junková (Institute of Organic Chemistry and Biochemistry of the CAS, Czech Republic)
17:45 - 18:05	Protein Structure and Interactions Studied by Hydrogen Deuterium Exchange Mass Spectrometry Jakub Sýs (Institute of Organic Chemistry and Biochemistry of the CAS, Czech Republic)
18:05 - 18:30	HPLC/ESI-MS² – Based Lipidomic Analysis and MALDI Imaging of Lipids Vladimír Vrkoslav, Štěpán Strnad (Institute of Organic Chemistry and Biochemistry of the CAS, Czech Republic)
18:30 - 19:00	Discussion / User Meeting
	WORKSHOP CLOSING