

Monday | 4th September

08:00	Registration
08:45	Welcome Session
09:00	Session 1 - Processing & Chemometrics
	CHAIRS: Nerea Bordel & Nicolas Herreyre Ludovic Duponchel, F keynote
	Chemometrics as the Swiss Army Knife of LIBS
	Zuzana Gajarska, A Feature extraction from complex LIBS matrices
	Nicolas Quintin, F Study of matrix effects at micrometer scale
	Simon Van den Eynde, B
	LIBS classification and regression techniques for waste sorting
10:20	Coffee Break
10:50	Session 2 - Fundamentals
	CHAIRS: Bruno Bousquet & Doriane Gallot-Duval
	Alessandro De Giacomo, I <i>invited</i> Laser induced high-density plasma evolution and optical emission efficiency
	Timur Labutin, RUS invited Non-analytical Applications of Laser-Induced Breakdown Spectrometry
	Igor Gornushkin, D
	Importance of Spectral Resolution for Accurate Plasma Diagnostics with Implications for Calibration-Free LIBS Aleksandr Zakuskin, RUS
	Laser-induced Fluorescence and Thomson Scattering for Spatially Resolved Plasma Diagnostics Birgit Achleitner, A
	In-situ LIBS study of temperature induced processes in material analysis
12:30	Lunch
14:00	Session 3 - Mapping
	CHAIRS: Pavel Pořízka & Eva Zikmundová
	Vincent Motto-Ros, F keynote The Tortuous Issues of Imaging Rocks by LIBS
	Jakub Buday, CZ Rock classification utilizing correlative imaging of large-scale geological samples using LIBS and EDX
	Bruno Bousquet, F
	LIBS imaging for high throughput screening in thin-film materials Doriane Gallot-Duval, F
	Characterization of lithium isotopes in innovative materials for energy-related applications using elemental mapping based on LIBS analysis
	Charles-P. Lienemann, F Determination of elemental composition and mapping of plastic pellets by LIBS — an interesting tool for plastics recycling
15:35	Coffee Break
16:05	Session 4 - Multimodal
	CHAIRS: Ludovic Duponchel & Xueshi Bai
	Nuno Silva, P <i>invited</i> Harnessing Multimodal Spectral Imaging: from sensor fusion to autonomous supervisors
	Claudio Sandoval, RCH Elemental and mineralogical imaging of Cu-mineralized rocks by coupling u-LIBS@HSI
	Virginia Merk, D What can we learn about lithium-ion battery materials from the combination of LIBS and Raman?
	Norbert Huber, A A combination of LIBS and LUS for quality control of WAAM components
	Jan Viljanen, FIN <i>cancelled</i>

Isotope Detection by Microwave-Assisted Laser-Induced Breakdown Spectroscopy

17:35

Poster S1 Sunset & Wine Tasting



Tuesday | 5th September

08:30	Session 5 - Instrumental & Industry CHAIRS: Jozef Kaiser & Hana Kopřivová
	Pavel Pořízka, CZ keynote Towards universal calibration libraries for LIBS payloads
	Yoshihiro Deguchi, J <i>invited</i> LIBS applications of online monitoring and 2D/3D mappings for advanced control of industrial processes
	Johannes D. Pedarnig, A LIBS and LA-SD-OES for the discrimination of technical polymers
	Benjamin Klie, D Conversion of an industrial single-pulse LIBS system to double-pulse operation to improve sulfur detection in rubber-based parts
	Gerd Wilsch, D 30 years of LIBS in civil engineering – A transfer from the laboratory to practice
	Shunchun Yao, RC cancelled Advances in LIBS Direct Analysis of Particle Flow: From Plasma Characteristics to Practical Applications
10:25	Coffee Break
10:55	Session 6 - Industry
	CHAIRS: Mohamad Sabsabi & Lisa Balke
	Reinhard Noll, D <i>invited</i> Opening up industrial applications for inline analysis with LIBS
	Cord Fricke-Begemann, D Inline LIBS for the metal recycling industry
	Jorge Yañez, RCH New developments on LIBS technologies for the Cu-industry
	Lukas Quackatz, D LIBS In situ Chemical Analysis in Duplex Stainless Steel Welding
	Kristjan Leosson, IS Deployment of LIBS Analyzers in the Aluminum Industry
	Arif Demir, TR In-situ Chemical Composition Analysis of Molten Aluminum Alloys in Industrial Furnaces by LIBS
12:30	Lunch
14:00	Session 7 - Mining and Geological applications
	CHAIRS: Alexandre Lima & Diana Guimarães
	Mohamad Sabsabi, CDN keynote The Laser-Induced Breakdown Spectroscopy Assisted with Laser-Induced Fluorescence (LIBS-LIF) advantage and drawbacks for mining and energy applications
	Salvatore Siano, I invited Dedicated LIBS tools for characterizing geomaterials
	Cécile Fabre, F <u>invited</u> When LIBS can help the geologist
	Jean-Marc Baele, B LIBS profiles of sedimentary sections : a new tool for paleoclimatic and paleoenvironmental reconstructions?
	Samira Selmani, CDN Analysis of palladium in rock ore by Laser-Induced Breakdown Spectroscopy (LIBS) and characterization of the morphology of laser-produced craters
	César Álvarez-Llamas, F High-Throughput micro LIBS imaging on geological applications
16:00	Coffee Break
16:30	Session 8 - Sponsor Sessions
	CHAIRS: Pedro Jorge & Nuno Silva
	Peter Bartko, ATOM TRACE Rawad Sade, Lumibird C Derrick Quarles Jr. Elemental Scientific Arif Demir, System Technik Thomas März, INNOLAS
	Giedrius Kudaba, EKSPLA Florian Trichard, Ablatom
18:00	Poster S2 Sunset & Beer Tasting



Wednesday | 6th September

08:30	Session 9 - Nuclear CHAIRS: José M. Vadillo & César Lamas
	Sebastijan Brezinsek, D keynote Application of laser-based surface analysis techniques in magnetically confined nuclear fusion research Hennie Van Der Meiden, NL <i>invited</i>
	Recent advances in developing LIBS as a fuel monitoring tool for nuclear fusion applications in Europe
	Salvatore Almaviva, IT LIBS as diagnostics of analytical chemistry for surface mapping of complex mixed samples simulating debris inside the TEPCO's Fukushima Daiichi Nuclear Power Plant (FDNPS) reactor cores
	Philip A. Martin, UK Laser ablation – laser absorption spectroscopy for isotopic analysis
	Pavel Veis, SK Depth Analysis of WTa-D/Mo sample by Resonant-Laser Induced Breakdown Spectroscopy
	Derrick Quarles, USA Utilization of LIBS for rapid elemental mapping of surrogate TRISO particles - an alternative for nuclear fuel
10:25	Coffee Break
10:55	Session 10 - Biomedical applications
	CHAIRS: Vincent Motto-Ros & Laura García-Gómez Jozef Kaiser, CZ <i>invited</i>
	LIBS for direct and indirect detection of bioindicators in human clinical samples Vincent Gardette, F
	LIBS imaging for medical applications: overview and case studies
	Fengye Chen, RC Screening ovarian cancers using patient plasmas with LIBS and Raman: separated and fused data analysis with machine learning
	Anna Konečná, CZ Comparative study of human teeth decalcification by LIBS
	Steven J. Rehse, CDN Laser-Induced Breakdown Spectroscopy for the Identification of Bacterial Pathogens in Blood and Urine
	J. Cárdenas-Escudero, E Laser-induced breakdown spectroscopy for the in vitro bioequivalence determination of generic drugs with BCS-class II, III and IV active pharmaceutical ingredients
12:30	Lunch
14:00	Session 11 - Extreme Environments
	CHAIRS: Alessandro de Giacomo & Samira Selmani
	José M. Vadillo, E <i>invited</i> Deep-UV laser-induced breakdown spectrometry and laser-ionization mass spectrometry for astrochemistry studies
	Jin Yu, RC In-situ LIBS measurements in Utopia Planitia Mars by the Zhurong Rover
	Laura García-Gómez, ES Detection of kerogens in sedimentary rocks by LIBS. Implications for the search for biosignatures on Mars
	Markéta Bosáková, CZ Hyphenated acoustic/optical emission spectroscopic data from laser-induced sparks to geological material characterisation
	Ye Tian, RC cancelled Impact of high pressure on underwater laser-induced breakdown spectroscopy
15:35	Coffee Break
16:05	Session 12 - Agro-food & Environment
10.05	CHAIRS: Pedro Jorge & Ivo Raimundo Jr.
	Ismail Boyaci, TR <i>invited</i> LIBS Applications for Food Safety and Quality
	Jörg Hermann, F Limits of detection in LIBS analysis of food
	Edilene C. Ferreira, BR Optimization of Spark Discharge-LIBS parameters to measure soil total organic carbon
	Vishal Dwivedi, FIN Development of a Field-Capable LIBS System for Rapid Soil Elemental Monitoring
	Carla P. de Morais, CDN Scalable solution for the carbon credit market in agricultural soils using laser-induced breakdown spectroscopy
19:00	Porto Wine Cellars Visit

Porto W

Gala Dinner

20:30



Thursday | 7th September

09:00 Session 13 - Heritage CHAIRS: Salvatore Siano & Cristina Méndez-López Vincenzo Palleschi, I keynote The LIBS Heritage: a brief history of the first 40 years of LIBS, with some considerations on its future perspectives Nicolas Herreyre, F µLIBS imaging for the characterization of heterogeneous archaeological materials Carlos Rinaldi, RA Laser induced breakdown spectroscopy (LIBS) for identification and classification of archaeological bones Monica Dinu, RO LIBS stratigraphy in the aid of revealing the hidden layers of a post-byzantine icon Xueshi Bai, F Implementation of a laser-induced breakdown spectroscopy (LIBS) solution for controlling safe analysis of cultural heritar

Implementation of a laser-induced breakdown spectroscopy (LIBS) solution for controlling safe analysis of cultural heritage materials under intensive radiation beams

Coffee Break

10:35

11:05 Session 14 - Molecular and Nanoparticles

CHAIRS: Vincenzo Palleschi & Vincent Gardette

Dávid J. Palásti, HU

Metallic and alloy nanoparticles: their detection and application to signal enhancement in LIBS

Francisco J. Fortes, E

Ultrafast laser excitation in atmospheric pressure optical traps for studying attogram mass nanoparticles

Layla P. Santos, BR

TiO2 as a modifier of a Bentonite/Sepiolite Substrate for Signal Intensification in LIBS Molecular Analysis of Organic Liquids

Clayton S. C. Yang, USA

Simultaneous UV/Visible/NIR + LWIR Laser Induced Breakdown Spectroscopy of Organic Isomers

Michael Gaft, IL

Isotopes Detection of GdO in Laser-Induced Plasma by Demon High Spectral Resolution Double Echelle Monochromator

Nikolai Tarasenko, BY cancelled

LIBS Analysis of Surface Homogeneity of Deposited Nanocomposite Films for Sensor Applications

Awards and Closing Cerimony

13:00

Light lunch