

# PRELIMINARY PROGRAM



The final program will be published on January 10th 2019

<b>Sunday, February 3rd 2019</b> <i>Registration starts at 8:30</i>	
<b>Short courses</b>	
09:00-12:00	SC-1 Metrology for spectrochemical measurements SC-2 Nanomaterials SC-3 Isotope and isotope dilution ICP MS
13:30-16:30	SC-4 ICP MS/MS fundamentals SC-5 Speciation analysis SC-6 Laser Ablation ICP MS SC-7 Single Particle and Single Cell Analysis
<b>Opening ceremony</b> <i>(Auditorium Alfred de Vigny)</i>	
17:00-17:10	Welcome (R. Lobinski)
17:10-17:15	Winter Plasma Conferences in Pau – 20 years ago and now
17:15-17:25	Address of the Mayor de Pau (F. Bayrou - <i>to be confirmed</i> )
17:30-17:40	Address of the Président of the UPPA (M. Amara)
17:40-18:00	History of Winter Plasma Conferences (R. Barnes)
18:00-18:10	Presentation of the conference sponsors
18:10-18:25	Presentation of Agilent Awards: European Plasma and Rising Star
18:25-18:35	Presentation of PhD grant laureates
18:30-18:45	<i>'Analytical chemistry: out of the box'</i> (F. Adams)
<b>19:00-</b>	<b>WELCOME (get-together) PARTY Palais Beaumont</b>

<b>Monday, February 4th 2019</b> <b>(Auditorium Alfred de Vigny)</b>	
08 :30-09:15	Plenary PLM-1: A. Bengtson <b>Past and recent developments in Glow Discharge Optical Emission Spectroscopy (GD-OES)</b>
09 :15-09:40	Keynote KM-1:V. Hoffmann <b>Light element analysis by analytical glow discharges</b>
09:40-10 :05	Keynote KM-2: J. Pisonero <b>Current pros and cons of GD-MS and LA-ICP-MS for high spatially resolved elemental analysis</b>
10 :05-10 :45	Coffee break
	<b>Auditorium Alfred de Vigny</b>
	<b>Fundamentals (1)</b>
10:45-11 :10	Keynote KM-2: X. Hou <b>Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development</b>
	<b>Auditorium Alphonse de Lamartine</b>
	<b>Glow discharge</b>
11 :10-11 :25	OM-01: T. Iwai Development and Evaluation of On-site Impurity Detection System for Hydrogen Fuel using High-Power Pulsed Microplasma
11 :25-11 :40	OM-03: E. Bolea-Fernandez In-cell chemistry to overcome spectral overlap in ICP-MS/(MS): the next step
11 :40-11 :55	OM-05: M. Wong Electrospray single-cell inductively coupled plasma – mass spectrometry (ES-SC-ICP-MS)
11 :55-12 :10	OM-07: I. Gornushkin Equilibrium chemistry of boron halides in plasma chemical reactors
12 :10-12 :25	OM-09: M. A. Aguirre Pastor The use of a multiple inlet nebulizer in ICP-based techniques for spectrochemical analysis
12 :25-14 :00	<b>Lunch</b> <i>(Shimadzu lunch seminar, room Alphan)</i> <i>(Anton Paar lunch seminar, room Monpezat)</i>
14 :00-15 :10	Poster session
	<b>Single particle analysis (1)</b>
15 :10-15 :35	Keynote KM-4: H. Goenaga <b>The power of micro-second detection ICP-MS for the accurate determination of nanoparticle number concentration: Underpinning metrology for biomedical applications</b>
15 :35-15 :50	OM-11: F. Laborda About detectability and detection limits in single particle ICPMS
15 :50-16 :05	OM-13: K. Inagaki Multi-spray CGrid Nebulizer for Perfect Matrix-matching in single-particle ICP-MS
16 :05-16 :20	OM-15 : D. Mozhayeva A Novel Data Processing Strategy for Quantification of Nanoparticles and Dissolved Metals in Mixtures with SP-ICP-MS and Microsecond Time Resolution
16 :20-16 :35	OM-17: K. Chun Double-Viewing-Position SP-ICP-AES
	<b>Metalloomics (1)</b>
15 :10-15 :35	Keynote KM-5: J. Ruiz <b>New advances in the absolute quantification of biomolecules using ICP MS/MS and generic standards</b>
15 :35-15 :50	OM-12: A. Raab Pros and cons for the use of ICP-MS in proteomics
15 :50-16 :05	OM-14: T. Garcia-Barrera Selenometabolites and selenoproteins mother-offspring transfer through human breast milk and cord serum by column switching ICP triple quadrupole MS
16 :05-16 :20	OM-16: C. Swart Potential reference measurement procedures to quantify metalloproteins in CSF and Serum
16 :20-16 :35	OM-18: L. Ouerdane Screening in microorganisms of metallophores content and metal transport by the use of isotopically enriched species
16 :40-17 :20	<b>Heritage lecture: A. Montaser</b> <i>Novel Plasma and Nebulization Techniques: The Plasma and Aerosol Generation Roadmaps</i> <b>(Auditorium Alfred de Vigny)</b>
17:30-	<b>Agilent Workshop</b> <i>(Auditorium Alphonse de Lamartine)</i>
<b>COMPANY NIGHT:</b> <b>ESI/Meinhard</b> <b>Perkin-Elmer</b>	

<b>Tuesday, February 5th 2019</b> <b>(Auditorium Alfred de Vigny)</b>			
08 :30-09 :15	Plenary PLT-1: A. Makarov Orbitrap analyzer and plasma ion sources: couldn they work together?		
09 :15-09 :40	Keynote KT-1: K. Marcus Coupling of the liquid sampling-atmospheric pressure glow discharge to Orbitrap mass analyzers: changing the way we look at plasma source mass spectrometry		
09 :40-10 :25	Plenary PLT-2: B. Bodenmiller Highly multiplexed imaging of tissues with subcellular resolution by imaging mass cytometry		
10 :25-11 :00	Coffee break		
	<b>Auditorium Alphonse de Lamartine</b>	<b>Auditorium Alfred de Vigny</b>	<b>Room Gabard</b>
	<b>Single particle analysis (2)</b>	<b>Metallomics (2)</b>	
11 :00-11 :25	Keynote KT-3: A. Gundlach-Graham Monte Carlo simulations to characterize low-count-rate signals in ICP-TOFMS and applications to single-particle analysis	Keynote KT-2: M. Montes The combination of labelled antibodies and ICP-MS for biomarker analysis: recent progress and remaining challenges for multiplexing	<b>GD workshop</b>
11 :25-11 :40	OT-01: G. Galbács Analytical method development for nanoparticle characterization by SP ICP-MS: beyond monometallic spherical particles	OT-02: P. Singh Quantification of breast cancer biomarkers using immune histochemically assisted imaging by LA-ICP-MS	
11 :40-11 :55	OT-03: T. Vonderach Analysis of single cells transported via microdroplets using ICP-TOFMS	OT-04: M. Sperling Gadolinium retention in the human body following administration of gadolinium-based contrast agents: information obtained by elemental bioimaging	
11 :55-12 :10	OT-05: K. Löschner Analysis of titanium dioxide nanoparticles in food by triple quadrupole and high resolution ICP-MS in single particle mode	OT-06: A. Jagielska Dependence of LA-ICP-MS results on the preparation of biological and clinical samples	
12 :15-12 :25	OT-07: G. Stadelmann Determination of total uranium amount in single particles by ID-MC-ICP-MS for characterization of particle reference materials	OT-08: S. López-Sanz Hydrodynamic separation techniques coupled ICP-MS for characterization of gold nanoparticles and dissolved gold species in in vitro toxicological assays	
12 :25-14 :00	<b>Lunch</b> <i>(Agilent lunch seminar, room Alphant)</i>		
14 :00-15 :10	Poster session		
	<b>Nanoparticle/environmental analysis</b>	<b>Metallomics (3)</b>	
15 :10-15 :35	Keynote KT-5: I. Dror Detection and characterization of nanoparticles in soil-water plant environments	Keynote KT-4: G. Köllensperger Novel workflows for metal-based anticancer drug research enabled by ICP-TOF-MS	
15 :35-15 :50	OT-09: C. Engelhard ICP-MS with microsecond time resolution: on recent improvements and the detection of nanoparticles in environmental waters	OT-10: D. Bishop Quantitative imaging of dystrophin using immunohistochemical-assisted imaging-mass spectrometry	
15 :50-16 :05	OT-11: J. Irrgeher Technology-critical elements (TCEs): Source characterization and assessment of environmental exposure	OT-12: C. Bresson Investigation of uranium effects on neuron-like cells: an interdisciplinary analytical approach	
16 :05-16 :20	OT-13: J. Jimenez-Lamana Nanoplastics, the new threat to environmental waters: how can ICP-MS help us to address this issue?	OT-14: S. Mari The use of plasma-assisted techniques to unravel the genetics of metal storage in seeds	
16 :20-16 :35	OT-15: G. Cornelis Laser ablation coupled to spICP-MS can quantify size and number concentration of inorganic nanomaterials in soils	OT-16: R. Alvarez-Fernandez Single cell analysis of selenized yeast using triple quadrupole ICP-MS	
16 :40-17 :20	Heritage lecture: G. Hieftje <i>And now what? (Reprise)</i> <b>(Auditorium Alfred de Vigny)</b>		
19:30-	HOT PLASMA PARTY (Domaine Cinquau)		

<b>Wednesday, February 6th 2019</b> <b>(Auditorium Alfred de Vigny)</b>	
08:30-09:15	Plenary PLW-1: D. Günther Contributions to automated element imaging by Laser Ablation ICP-Mass Spectrometry
09:15-10:00	Plenary PLW-2: J. Laserna Laser-induced breakdown spectroscopy: the secret life of surfaces and other captivating insights
10:00-10:25	Keynote KW-1: Ph. Doble Atomic Oncology: Personalising cancer radiation treatments with LA-ICP-MS
10:25-11:00	Coffee break
	<b>Auditorium Alfred de Vigny</b>
	<b>Laser ablation and LIBS (1)</b>
	<b>Auditorium Alphonse de Lamartine</b>
	<b>Environmental analysis (1)</b>
11:00-11:25	Keynote KW-1: V. Zorba New and emerging femtosecond laser sampling approaches in laser induced breakdown spectroscopy
11:25-11:40	Keynote KW-2 J. Feldmann Elemental speciation in biological and environmental samples involves natural nanoparticles and molecular species
11:25-11:40	OW-01: P. Hansen Simple modeling of LIBS plasma parameters for extraterrestrial applications
11:25-11:40	OW-02: B. Meermann An automated single algae-ICP-ToF-MS approach for the investigation of metal uptake in single diatoms
11:40-11:55	OW-03: R. Buchholz <sup>57</sup> Fe-enriched iron oxide nanoparticles – long term fate and cell tracking determined by LA-ICP-MS and MRI
11:40-11:55	OW-04: D. Pröfrock Assessing Legacy pollution and new inorganic contaminants in complex environmental samples using ICP-MS based techniques
11:55-12:10	OW-05: van Elteren Rules of thumb for fast and high-quality LA-ICPMS imaging in single pulse or continuous scanning mode
11:55-12:10	OW-06: V. Nischwitz Improving mass balance for size resolved elemental speciation of environmental water samples using FFF online with ICP-MS
12:10-12:25	OW-07: B. Wagner Laser ablation ICP MS for analytical recycling of iron-gall ink indicator papers
12:10-12:25	OW-08: M. Horvat Traceability of oxidized mercury measurements in air
12:25-14:00	<b>Lunch</b> <i>(ESI/Meinhard lunch seminar, room Monpezat)</i> <i>(Thermo lunch seminar, room Alphan)</i>
14:00-15:10	Poster session
	<b>Laser ablation and LIBS (2)</b>
	<b>Environmental analysis (2)</b>
15:10-15:35	Keynote KW-3: D. Bleiner Laser Ablation 3D Chemical Mapping with X-ray Lasers
15:10-15:35	Keynote KW-4: C. Barbante Mass spectrometry under the ice
15:35-15:50	OW-09: M. Krachler Quantitative assessment of spatial inhomogeneity of major and minor uranium isotopes in solid nuclear materials using LA-MC-ICP-MS
15:35-15:50	OW-10: E. Vasileva Monitoring of priority and emerging contaminants in the open ocean
15:50-16:05	OW-11: A. Limbeck Development of laser based procedures for stoichiometry analysis of ternary boride thin films
15:50-16:05	OW-12: E. Mavrikis Investigating arsenate uptake in <i>C. reinhardtii</i> cells using Single Cell ICP-MS and its effect on lipid remodelling using ambient MS
16:05-16:20	OW-13: A. Carvalho Multi-energy calibration and sample fusion as alternatives for quantitative analysis of high silicon content samples by LIBS
16:05-16:20	OW-14: N. Sadiq You've got to be helping me! Determination of <sup>129</sup> I / <sup>127</sup> I in kelp samples using ICP-MS/MS
16:20-16:35	OW-15: M. Hola Feasibility of Nanoparticle-Enhanced Laser Ablation Inductively Coupled Plasma MS
16:20-16:35	OW-16: B. Godlewska-Żyłkiewicz Studies of biosorption of nano and ionic forms of gold by green algae in surface water by HPLC-ICP MS
16:40-17:20	Heritage lecture: R. Russo - <i>A Career History of Laser Ablation for Chemical Analysis</i> <b>(Auditorium Alfred de Vigny)</b>
17:30-	<b>Ametek Spectro users meeting</b> <b>(room Alphan)</b>
<b>COMPANY NIGHT : Agilent</b>	

**Thursday, February 7th 2019**  
**(Auditorium Alfred de Vigny)**

08:30-09:10	Plenary PLTH-1: Agilent European Plasma Awardee: J.I. Garcia Alonso A paradigm change in isotopic measurements by Mass Spectrometry: isotope abundances, molar fractions and linear regression calculations	
09:10-09:35	Keynote TH-1: Agilent Rising Plasma Star Awardee: M. Matczuk Joint forces of ICP-MS-based techniques for effective examination of the intracellular processing of gold nanoparticles	
09:35 -10:05	Keynote TH-2: RSC Lectureship Márcia Foster Mesko Green sample preparation methods for further determination of metals and non-metals by atomic spectrometric techniques	
10:05-10:40	Keynote TH-3 Spectroscopy Awardee: D. Hare Atomic pathology: The past, present and future of elemental imaging in medical research	
10 :40-12:40	Poster session	
12 :40-14:00	Lunch <i>(Perkin-Elmer lunch seminar, room Monpezat)</i>	
	<b>Auditorium Alfred de Vigny</b>	<b>Auditorium Alphonse de Lamartine</b>
	<b>Isotope ratio analysis</b>	<b>Fundamentals (2)</b>
14:00-14:25	Keynote TH-3: Lu Yang Absolute isotope amount ratio measurements by MC-ICP MS	Keynote KTH-4: A. Okino Non-contact mass spectrometry of adhesive compounds on heat-sensitive surface using temperature-controllable plasma jet
14:25-14 :40	OTH-01: T. Prohaska The isotopic challenge: metrological approaches for accurate isotope measurements	OTH-02: M. Stiborek Cold Plasma: way to improve repeatability of metal analysis in sub-microliter volumes?
14:40-14:55	OTH-03: Telouk Copper isotopic composition as a biomarkers for liver cancer : a large cohort study	OTH-04: D. Rosenkranz Matrix matched validation procedure for single cell measurements with automated $\mu$ -flow injection
14:55-15:10	OTH-05: M. Bartosiak Determination of Fe isotopic composition using MC-ICP-MS for the elucidation of the iron uptake mechanisms in yeast mutants	OTH-06: M. Evertz Plasma-based techniques: a versatile tool to gather insights into lithium losses of lithium ion batteries
15:10-15:35	OTH-07: J. Vogel Triple isotope fractionation exponents of elements measured by MC-ICP-MS - an example of Mg	OTH-08: C. Hommel Optimization possibilities for difficult matrices with ETV-ICP OES
15:35-15 :50	OTH-09: D. Malinovskiy Accurate determination of lithium and boron isotope ratios by MC-ICPMS with normalisation to an internal standard	OTH-10: C. Abad Critical evaluation of optical spectrometry vs mass spectrometry for stable isotope analysis
15:50-16:05	OTH-11: L. Banks Developing low-volume solution ICP-MS for high-precision uranium isotope analysis	OTH-12: W. Goessler Changes of size-resolved element distributions in particulate matter induced by New Year's Eve fireworks
16:05-16:40	Coffee break	
16:40-17:30	Heritage lecture: R.S. Houk <b>More Misnomers, Misconceptions, and Musings in ICP Spectroscopy</b> (Auditorium Alfred de Vigny)	
17:30-19:00	Young Scientists Career Event <i>to be confirmed</i>	
20:00	<b>GALA DINNER (Palais Beaumont)</b>	

<b>Friday, February 8th 2019</b> <b>(Auditorium Alfred de Vigny)</b> <b>Speciation &amp; Environmental</b>	
08 :30-09 :15	<b>Plenary PLF-1 (N. Jakubowski)</b> Method development for single cell analysis by use of ICP-MS and ICP-TOFMS
09 :15-10 :00	<b>Plenary PLF-2 (F. Vanhaecke)</b> Exploring adventure in the land of MC-ICP-MS
10 :00-10 :25	<b>KF-1: Aggarwal</b> Plasma spectrochemistry in India
10 :25-11 :00	<b>Coffee break</b>
	<b>Auditorium Alfred de Vigny</b>
	<b>Auditorium Alphonse de Lamartine</b>
	<b>Elemental speciation</b>
	<b>Petroleum analysis</b>
11 :00-11 :15	<b>OF-01: W. Lorenc</b> Study on speciation of As, Cr and Sb in bottled flavored and functional drinking water samples using advanced analytical techniques IEC/SEC-HPLC/ICP-DRC-MS and ESI-MSn
11:15-11:30	<b>OF-02: M. Moldovan</b> Determination of sulfur-containing compounds in crude oil products by GC-ICP-MS/MS
11:15-11:30	<b>OF-03: H. Ismard</b> Hyphenation between capillary electrophoresis and multi collector inductively coupled plasma mass spectrometry for isotope ratio measurements
11:15-11:30	<b>OF-04: Z. Gajdosechova</b> Headspace analysis of Hg in petroleum hydrocarbons
11:30-11:45	<b>OF-05: V. Volchek</b> The use of hyphenated techniques (CZE-ICP-MS, HPLC-ICP-OES) for the study of inorganic complexes
11:30-11:45	<b>OF-06: F. Chainet</b> Speciation of trace contaminants in the refinery industry using gas chromatography coupled to ICP-MS/MS
11:45-12:00	<b>OF-07: I. Komorowicz</b> Arsenic speciation analysis in liquid and solid samples by hyphenated technique HPLC/ICP-DRC-MS
11:45-12:00	<b>OF-08: F. Lopez-Linares</b> Application of Single Particle Inductively Coupled Plasma-Mass Spectrometry (sp-ICP-MS) in the Petroleum Industry
12:00-12:30	<b>Closing ceremony</b> <b>(Auditorium Alfred de Vigny)</b>
14:00-	<b>Guided visit of the Pau Castle</b>