## **PRELIMINARY PROGRAM**



## The final program will be published on January 10th 2019

Sunday, February 3rd 2019			
Registration starts at 8:30			
Short courses			
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		
Opening ceremony			
	(Auditorium Alfred de Vigny)		
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 - to be confirmed)		
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	'Analytical chemistry: out of the box' (F. Adams)		
19:00-	WELCOME (get-together) PARTY Palais Beaumont		

Fundamentals (1)  Keynote KM-2: X. Hou  Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development  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  Keynote Excitation and ionization discharges: not of the same in the content of the content of the same in the s			
Neynote KM-1:V. Hoffmann Light element analysis by analytical glow discharges  09:40-10:05  Keynote KM-2: J. Pisonero Current pros and cons of GD-MS and LA-ICP-MS for high spatially resolve  Coffee break  Auditorium Alfred de Vigny Fundamentals (1)  Keynote KM-2: X. Hou  Keynote KM-2: X. Hou  Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development  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  OM-05: M. Wong  OM-00	phonse de Lamartine discharge KM-3: Z. Weiss n of iron in argon and neon glow on-LTE considerations 2: J. Fandiño nospheric pressure glow discharge		
Light element analysis by analytical glow discharges  Neynote KM-2: J. Pisonero  Current pros and cons of GD-MS and LA-ICP-MS for high spatially resolve  Coffee break  Auditorium Alfred de Vigny  Fundamentals (1)  Keynote KM-2: X. Hou  Keynote KM-2: X. Hou  Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development  Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development  Concentric-electrodes at for the analysis of the analysis of the next step  11:40-11:55  OM-05: M. Wong  OM-00	phonse de Lamartine discharge KM-3: Z. Weiss n of iron in argon and neon glow on-LTE considerations 2: J. Fandiño nospheric pressure glow discharge		
09:40-10:05    Keynote KM-2: J. Pisonero	phonse de Lamartine discharge KM-3: Z. Weiss n of iron in argon and neon glow on-LTE considerations 2: J. Fandiño nospheric pressure glow discharge		
Current pros and cons of GD-MS and LA-ICP-MS for high spatially resolved  10:05-10:45  Coffee break  Auditorium Alfred de Vigny Fundamentals (1)  Keynote KM-2: X. Hou Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development  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  Office break  Coffee break  Auditorium Alfred de Vigny	phonse de Lamartine  v discharge  KM-3: Z. Weiss  n of iron in argon and neon glow on-LTE considerations  2: J. Fandiño nospheric pressure glow discharge		
Coffee break  Auditorium Alfred de Vigny Fundamentals (1)  Keynote KM-2: X. Hou Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development  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  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  Odditorium Alfred de Vigny Auditorium Alfred de	phonse de Lamartine  v discharge  KM-3: Z. Weiss  n of iron in argon and neon glow on-LTE considerations  2: J. Fandiño nospheric pressure glow discharge		
Auditorium Alfred de Vigny  Fundamentals (1)  Keynote KM-2: X. Hou  Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development  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  Auditorium Alf  Reynote  Excitation and ionization discharges: no  Concentric-electrodes at for the analysis of volume the next step  Uncovering beryllium to the next step	v discharge KM-3: Z. Weiss n of iron in argon and neon glow on-LTE considerations 2: J. Fandiño nospheric pressure glow discharge		
Fundamentals (1)  Keynote KM-2: X. Hou  Keynote KM-2: X. Hou  Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development  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  OM-00	v discharge KM-3: Z. Weiss n of iron in argon and neon glow on-LTE considerations 2: J. Fandiño nospheric pressure glow discharge		
Keynote KM-2: X. Hou  Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development  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  Keynote  Excitation and ionization of On-oil Excitation and ionization discharges: no oil Excitation	KM-3: Z. Weiss n of iron in argon and neon glow on-LTE considerations 2: J. Fandiño nospheric pressure glow discharge		
10:45-11:10  Microplasma-based atomic spectrometry: sample introduction, instrumentation and method development  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  Excitation and ionization discharges: no M-0	n of iron in argon and neon glow on-LTE considerations 2: J. Fandiño nospheric pressure glow discharge		
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  Concentric-electrodes atm for the analysis of working the next properties of the concentration of the concentration of the properties of the next properties of the concentration of the properties of the concentration of the properties of the properties of the concentration of the properties of the proper	nospheric pressure glow discharge		
11:25-11:40 OM-03: E. Bolea-Fernandez OM-04 In-cell chemistry to overcome spectral overlap in ICP-MS/(MS): the next step  11:40-11:55 OM-05: M. Wong OM-0			
11 :40-11 :55 OM-05: M. Wong OM-0	4: B. Stankov line with forbidden component		
	6: A. Ganeev -of-Flight Mass Spectrometry with e in Combined Hollow Cathode		
11 :55-12 :10 OM-07: I. Gornushkin OM- Equilibrium chemistry of boron halides in plasma chemical reactors Quantification strategies f components by means o	-08: L. Lobo  for the analysis of major and minor f pulsed Glow Discharge Time-of- ass Spectrometry		
The use of a multiple inlet nebulizer in ICP-based techniques for  Mass Spectral Imaging	O: V. Brückel of Iodinated Contrast Agents in ples by means of LA-FAPA-MS		
12 :25-14 :00 Lunch (Shimadzu lunch seminar, room Alphand) (Anton Paar lunch seminar, room Monpeza			
14 :00-15 :10 Poster session			
Single particle analysis (1) Meta	allomics (1)		
15 :10-15 :35 Keynote KM-4: H. Goenanga Keynote The power of micro-second detection ICP-MS for the accurate New advances in the	e KM-5: J. Ruiz le absolute quantification of PMS/MS and generic standards		
	12: A. Raab e use of ICP-MS in proteomics		
Multi-spray CGrid Nebulizer for Perfect Matrix-matching in Selenometabolites and single-particle ICP-MS transfer through human	. Garcia-Barrera selenoproteins mother-offspring n breast milk and cord serum by ICP triple quadrupole MS		
A Novel Data Processing Strategy for Quantification of Potential reference mea	16: C. Swart surement procedures to quantify eins in CSF and Serum		
Double-Viewing-Position SP-ICP-AES Screening in microorganis	E. L. Ouerdane sms of metallophores content and se of isotopically enriched species		
16 :40-17 :20  Heritage lecture: A. Montaser  Novel Plasma and Nebulization Techniques: The Plasma and Aerosol ( (Auditorium Alfred de Vigny)	Novel Plasma and Nebulization Techniques: The Plasma and Aerosol Generation Roadmaps		
17:30- Agilent Workshop (Auditorium Alphonse de Lamartine)	Agilent Workshop		
COMPANY NIGHT:			
ESI/Meinhard			
Perkin-Elmer			

	Tuesday, Feb	ruary 5	th 2019	
	(Auditorium	-		
08 :30-09 :15	Plenary PLT-1: A. Makarov			
00 -15 00 -40	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			lyzars: changing the
	Coupling of the liquid sampling-atmospheric pressure glow discharge to Orbitrap mass 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			
	Auditorium Auditorium		وء	
	Alphonse de Lamartine		Alfred de Vigny	Room Gabard
	Single particle analysis (2)		Metallomics (2)	4 G
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	The combina MS for biom	rnote KT-2: M. Montes ation of labelled antibodies and ICP- narker analysis: recent progress and ing challenges for multiplexing	
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 on of breast cancer biomarkers using tochemically assisted imaging by LA- ICP-MS	<u>c</u>
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		GD workshop
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	Depende	OT-06: A. Jagielska ence of LA-ICP-MS results on the on 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	Hydrodyna ICP-MS for c	OT-08: S. López-Sanz mic separation techniques coupled haracterization of gold nanoparticles d gold species in in vitro toxicological assays	
12 :25-14 :00		Lun		
	(Agilent lu		ar, room Alphand)	
14 :00-15 :10	. 5	Poster s		
	Nanoparticle/environmental ana		Metallomic	s (3)
15 :10-15 :35	Keynote KT-5: I.Dror	Keynote KT-5: I.Dror  Detection and characterization of nanoparticles in soil-water		öllensperger Inticancer drug research DF-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. Bis Quantitative imaging of dy immunohistochemical-assisted ima	hop ystrophin using
15 :50-16 :05	OT-11: J. Irrgeher  Technology-critical elements (TCEs): Source characterization and assessment of environmental exposure		0T-12: C. Bres Investigation of uranium effects o interdisciplinary analytic	n neuron-like cells: an
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. M The use of plasma-assisted techn genetics of metal stora	ari niques to unravel the
16 :20-16 :35	OT-15: G. Cornelis  Laser ablation coupled to spICP-MS can quantificum number concentration of inorganic nanomateric		OT-16: R. Alvarez-F Single cell analysis of selenized yeas ICP-MS	
16 :40-17 :20	Heritage lecture: G. Hieftje And now what? (Reprise) (Auditorium Alfred de Vigny)			
19:30-	HOT PLAS	SMA PARTY	(Domaine Cinquau)	

	Wednesday, February	6th 2019	
	(Auditorium Alfred de	Vigny)	
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		
	Auditorium Auditorium		
	Alfred de Vigny	Alphonse de Lamartine	
	Laser ablation and LIBS (1)	Environmental analysis (1)	
	Keynote KW-1: V. Zorba	Keynote KW-2 J. Feldmann	
11:00-11:25	New and emerging femtosecond laser sampling approaches in laser induced breakdown spectroscopy	Elemental speciation in biological and environmental samples involves natural nanoparticles and molecular species	
11:25-11:40	OW-01: P. Hansen	OW-02: B. Meermann	
	Simple modeling of LIBS plasma parameters for extraterrestrial applications	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	OW-04: D. Pröfrock	
	<sup>57</sup> Fe-enriched iron oxide nanoparticles – long term fate and cell tracking determined by LA-ICP-MS and MRI	Assessing Legacy pollution and new inorganic contaminants in complex environmental samples using ICP-MS based techniques	
11:55-12:10	OW-05: van Elteren	OW-06: V. Nischwitz	
	Rules of thumb for fast and high-quality LA-ICPMS imaging in single pulse or continuous scanning mode	Improving mass balance for size resolved elemental speciation of environmental water samples using FFF online	
	014.07.0.14	with ICP-MS	
12:10-12:25	OW-07: B. Wagner  Laser ablation ICP MS for analytical recycling of iron-gall ink indicator papers	OW-08: M. Horvat  Traceability of oxidized mercury measurements in air	
12:25-14:00	Lunch		
	(ESI/Meinhard lunch seminar, room Monpezat)		
	(Thermo lunch semin		
14:00-15:10	-		
Total Session			
45 40 45 25	Laser ablation and LIBS (2)	Environmental analysis (2)	
15:10-15:35	Keynote KW-3: D. Bleiner	Keynote KW-4: C. Barbante	
15:35-15:50	Laser Ablation 3D Chemical Mapping with X-ray Lasers OW-09: M. Krachler	Mass spectrometry under the ice	
15.55-15.50	Quantitative assessment of spatial inhomogeneity of major and minor uranium isotopes in solid nuclear materials using LA-MC-ICP-MS	OW-10: E. Vasileva  Monitoring of priority and emerging contaminants in the open ocean	
15:50-16:05	0W-11: A. Limbeck	0W-12: E. Mavrakis	
	Development of laser based procedures for stoichiometry analysis of ternary boride thin films	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	OW-14: N. Sadiq	
	Multi-energy calibration and sample fusion as alternatives for quantitative analysis of high silicon content samples by LIBS	You've got to be kelping me! Determination of 129I / 127I i kelp samples using ICP-MS/MS	
16:20-16:35	OW-15: M. Hola	OW-16: B. Godlewska-Żyłkiewicz	
	Feasibility of Nanoparticle-Enhanced Laser Ablation Inductively Coupled Plasma MS	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 - A Career History of Laser Ablation for Chemical Analysis  (Auditorium Alfred de Vigny)		
47.00			
17:30-			
17:30-	Horiba users' meetir		

	Thursday, February 7	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 s	ession	
12 :40-14:00	Lun (Perkin-Elmer lunch sen		
	Auditorium	Auditorium	
	Alfred de Vigny	Alphonse de Lamartine	
	Isotope ratio analysis	Fundamentals (2)	
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 or 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: Ph.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 automized µ-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  More Misnomers, Misconceptions, and Musings in ICP Spectroscopy  (Auditorium Alfred de Vigny)		
17:30-19:00	Young Scientists Career Event  to be confirmed		
20:00	GALA DINNER (Palais Beaumont)		

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