

Final program of the 2 day workshop: "Plasma Science & Entrepreneurship"

Program Morning 14 November 2019

07.30	Hall open for table booth installations	
08.30	Doors open/coffee	
09.00	Welcome & Opening by Chair(s) Patrick Choquet and Thierry Belmonte & Program Director Hugo de Haan	
9.20-9.50	1 st keynote; Achim von Keudell , <i>Ruhr-Universität Bochum, Germany</i> , "Extreme ns plasmas in liquids for plasma supported electrolysis"	
9.50-10.10	Coffee / tea at booth area	
	Plasma in Liquids and Agriculture Moderator: Achim von Keudell	
10.10-10.30	Guus Pemen , <i>Eindhoven University of Technology, The Netherlands</i> , "Plasma activated water for agricultural and medical applications"	
10.30-10.50	Zdenko Machala , <i>Comenius University, Slovakia</i> , "Tuning the chemistry of air plasma-water interaction and biomedical/agriculture applications of plasma activated water"	
10.50-11.10	Sven Gerullis , <i>INNOVENT, Germany</i> , "Modification of wood and wood components by Atmospheric Pressure Plasma"	
11.10-11.30	Coffee Break	
	Atomic Etching - Thin Films Moderator: Vladimir Cech	PE ALD/CVD Moderator: Patrick Choquet
11.30-11.50	Vladimir Cech , <i>Brno University of Technology, Czech Republic</i> , "Layered a-CSi:H/a-CSiO:H nanocomposites"	Kristian Wende , <i>INP-Greifswald, Germany</i> , "Proteins and Lipids as Targets of Plasma Liquid Chemistry"
11.50-12.10	Gary Eden , <i>University of Illinois, USA</i> , "Microplasmas in electromagnetics and nanoelectronics: 3d photonic crystals and atomic layer deposition"	Benjamin Dey , <i>PhD student, LIST</i> , "Low temperature Anatase TiO ₂ by pulsed Electron Cyclotron Wave Resonance Plasma Enhanced Chemical Vapour Deposition"
12.10-12.30	Nicolas Posseme , <i>CEA-Leti-Minatec, France</i> , "New plasma approaches for atomic scale precision etching"	Erik Wagenaars , <i>York Plasma Institute, University of York, United Kingdom</i> , "Plasma-Enhanced Pulsed Laser Deposition: Proof-of-concept for metal oxide thin films"
12.30-12.50	Kishor Acharya , <i>PhD student, LIST</i> , "Organic/inorganic deposition at ambient temperature of submillimetric patterns using an atmospheric pressure plasma torch CVD"	Mokbul Hossain , <i>SEFAR AG, Switzerland</i> "PECVD-modified SEFAR composite membrane provides ultimate protection for high demanding applications"
12.50-13.00	Photo shoot participants	
13.00-14.00	Lunch	

Program Afternoon 14 November 2019

	Plasma Industrial PE-CVD (1) Moderator: Tomáš Homola	
14.00-14.20	Tomáš Homola , <i>R&D Centre for Low-Cost Plasma and Nanotechnology Surface Modifications(CEPLANT), Masaryk University, Brno, Czech Republic</i> , "Low-cost and high-speed atmospheric plasma engineering of thin films for roll-to-roll manufacturing of perovskite solar cells"	
14.20-14.40	Jean-François Coulon , <i>ECAM RENNES, France</i> , "Correlation between the plasma surface modification, the surface free energy and the practical adhesion in the case of Poly(Ether Ether Ketone)"	
14.40-15.00	Fabienne Poncin-Epaillard , <i>Institut des Molécules et Matériaux du Mans, France</i> , "Antifogging thin layers : plasma process and characterization"	
15.00-15.20	David Pai , <i>Université de Poitiers, France</i> , "In-situ Raman spectroscopy of plasma-surface/liquid interactions at atmospheric pressure"	
15.20-15.50	Coffee Break	

Program Afternoon 14 November 2019 continued

	Plasma Science and Diagnostics Moderator: Damien Thiry
15.50-16.10	Damien Thiry , <i>Chimie des Interactions Plasma Surface (ChIPS), University of Mons (UMONS), Belgium</i> , "An innovative way for structuring plasma polymers at the nanoscale"
16.10-16.30	Tobias Gergs , <i>Brandenburg University of Technology; Ruhr University Bochum, Germany</i> , "Crystal Orientation during AlN Sputter Deposition: A Molecular Dynamics Study"
16.30-16.50	Jean-paul Booth , <i>LPP-CNRS, Ecole Polytechnique, France</i> , "A test-bed for models of plasmas in a diatomic gas: a comprehensive diagnostic study of a DC positive column in O ₂ "
16.50-17.10	Ondrej Kylian , <i>Charles University, Czech Republic</i> , "Plasma assisted production of heterogeneous nanoparticles"
17.10-17.30	Lenka Zajickova , <i>Masaryk University, Brno, Czech Republic</i> , "Atmospheric pressure plasma jets for surface modification"
17.30-17.50	Nicolas Bellomo , <i>LIST</i> , "Plasma radical assisted polymerization-chemical vapour deposition (PRAP-CVD) as a novel competitive polymer synthesis method"
17.50-18.30	Coffee Break (ISC Steering Committee Meeting)
19.00-23.00	Dinner & musical event

Program Morning 15 November 2019

07.50-8.40	Coffee / tea at booth area
	Plasma Industrial (2) Moderator: Thierry Belmonte
08.40-09.00	Thierry Belmonte , <i>Université de Lorraine, CNRS-Institut Jean Lamour</i> , "Study of an industrial atmospheric dielectric barrier discharge plasma process"
09.00-09.20	Denis Dowling , <i>University College Dublin, Ireland</i> , "Application of atmospheric plasma's to enhance the mechanical properties of 3D printed composites"
09.20-09.40	Joanna Borek-Donten , <i>Molecular Plasma Group (MPG), Luxembourg</i> , "Industrial plasma deposition process - key parameters"
09.40-10.00	Floran Peeters , <i>DIFFER, the Netherlands</i> , "CO ₂ microwave plasma's – renewable energy driven chemistry"
10.00-10.50	Coffee Break
10.50-11.20	2 nd keynote: Michel R. Wertheimer , <i>Dept. of Engineering Physics; Ecole Polytechnique, Canada</i> , "Energetics of Reactions in a Dielectric Barrier Discharge with Argon Carrier Gas and Admixed Hydrofluoromethanes"
11.20-11.50	Coffee Break
	PECVD /PLD Thin Films (2) Moderator: Dirk Hegemann
11.50-12.10	Dirk Hegemann , <i>Empa, CH</i> , "Exploring surface and subsurface effects using plasma polymer nanolayers"
12.10-12.30	Agnes Granier , <i>Institut des Matériaux de Nantes (IMN) - CNRS - Université de Nantes, France</i> , "Deposition of TiO ₂ and nanocomposite TiO ₂ /SiO ₂ thin films by low pressure PECVD at low temperature"
12.30-12.50	Götz B. Thorwarth , <i>Imt Masken und Teilungen AG (IMTAG), Switzerland</i> , "Challenges in fabrication of nanostructured plasma-based functionalization for diagnostics"
12.50-13.10	Dimitri Boivin , <i>Institut Jean Lamour, CNRS, France</i> , "Characterization of transport of neutral and ionized species in reactive HiPIMS process"
13.10-14.20	Lunch (when no ISC meeting time 14 th ; 13.45 meeting International Scientific Committee (ISC))

Program Afternoon 15 November 2019

14.20	Workshop session
	Title: Plasma Industrial (3) Moderator: Peter Awakowicz
14.20-14.40	Peter Awakowicz , <i>Ruhr University Bochum, Germany</i> , "Reduction of Volatile Organic Compounds (VOC) with DBD-plasma: fundamental understanding and industrial applications"
14.40-15.00	Emile Haye , <i>University of Namur, Innovative Coating Solutions (ICS), Belgium</i> , "Adding advanced functional properties to nanoparticles via low-pressure plasma coating: from research to practical application"
15.00-15.20	Robert Quintana , <i>LIST</i> , "Liquid-Assisted Atmospheric-Pressure Plasma Deposition of Methacrylic Layers for Biomedical Applications: Deposition, Biofunctionalization and Biocompatibility"
15.20-15.40	Aymane Najah , <i>Institut Jean Lamour, CNRS, France</i> , "Functionalization and characterization study of MOFs by plasma process"
15.40-16.00	Maryline Moreno , <i>LIST, Luxembourg</i> , "Atmospheric pulsed plasma copolymerization of acrylic monomers: kinetic, chemistry and application"
16.00-16.30	Plenary Closure