

Programme for Monday 21 November	
09:30	Welcome and Opening Erik Wagenaars and Hugo de Haan
09:50	<u>Keynote</u> : Dirk Hegemann , Empa, Switzerland, <i>"Added Value by Plasma Coatings for Recyclability, Reuse and Substitution of Plastics"</i>
10:30	Coffee break
	<u>Atmospheric-pressure plasmas 1</u> Session chair: James Walsh, University of York
	<u>Thin films and surfaces</u> Session chair: Ondřej Kylián, Charles University, MFF
11:00	Xin Tu <i>"Plasma Catalysis: An Emerging Technology for Sustainable Production of Fuels and Chemicals"</i>
	Peter Kelly , <i>"Magnetron Sputtering – A Plasma Tool for Functional Films"</i>
11:20	Zaenab Abd-Allah , <i>"The effect of photocatalytic thin films produced via magnetron sputtering on the chemistry of atmospheric pressure plasmas "</i>
	Hanshan Dong , <i>"Active-screen plasma surface activation and functionalization of carbon-based materials"</i>
11:40	Carla McDonnell , <i>"Plasma Jet Characterization Towards Biomedical Applications"</i>
	Damien Thiry , <i>"Investigating the relationship between the mechanical properties of plasma polymer-like thin films and their glass transition temperature"</i>
12:00	Miles Turner , <i>"Efficiency of Nitrogen Fixation by Plasma Process"</i>
	Arutiun Ehasarian , <i>"Real-Time Monitoring of High Power Impulse Magnetron Sputtering for Thin Film Microstructure and Texture Design: Towards a Digital Twin"</i>
12:20	Lunch
	<u>Industry perspectives</u> Session chair: Hugo de Haan, Vision Dynamics
	<u>Streamers, sparks and Townsend discharges</u> Session chair: Adrian Cross, University of Strathclyde
13:50	Anna Dzarasova , <i>"How to spot and develop a business opportunity in plasma research"</i>
	Ben Harris , <i>"Modifying O3 Production in Atmospheric-Pressure Plasmas using Tailored Voltage Waveforms"</i>
14:10	Tom Cosnahan , <i>"Plasma for Sustainable Packaging – Plasma throughout a sustainable plastic package life"</i>
	Liang Zhang , <i>"Characteristics of pseudospark discharge and its applications"</i>
14:30	Geoff Hassall , <i>"The trials and tribulations of an in-house entrepreneur"</i>
	Igor Timoshkin , <i>"Impulsive breakdown behaviour of gases and gas-solid interfaces"</i>
14:50	Joshua Ellingford , <i>"A new plasma source design enabling co-sputter and large area applications of HiTUS (High Target Utilisation Sputtering)"</i>
	Martina Mrkvičková , <i>"Measurements of the electric field: four methods match"</i>
15:10	Coffee break
	<u>Thin films and nanoparticles</u> Session chair: Arutiun Ehasarian, Sheffield Hallam University
15:40	Milos Nesladek , <i>MW plasmas and PE-CVD reactor designs for growing ultrapure diamond crystals</i>
16:00	Ondrej Kylian , <i>"Synthesis of vanadium oxide nanoparticle films using magnetron-based gas aggregation sources"</i>
16:20	Paul Maguire , <i>"Creating high fidelity nanomaterials by atmospheric pressure plasmas"</i>
16:40	Paula Navascués , <i>"Nanoporous plasma polymer films derived from HMDSO as functional layers"</i>
19:30	Conference dinner , The Chopping Block at Walmgate Ale House, 25 Walmgate, York YO1 9TX

Programme for Tuesday 22 November	
	Session chair: Dirk Hegemann, Empa
09:30	<u>Keynote:</u> Jas Pal Badyal , Durham University, UK <i>"Ultra High Selectivity Plasmachemical Functionalization of Solid Surfaces for Technological and Societal Applications"</i>
10:10	Jamerson Carneiro de Oliveira , <i>"Surface Nanostructuring through Plasma Polymerization: State of the Art and Perspectives"</i>
10:30	Coffee break
	<u>Low-pressure plasmas</u> Session chair: Geoff Hassall, Oxford Instruments Plasma Technology
11:00	James Dedrick , <i>"Production of atomic hydrogen and negative ions in low-pressure inductively coupled hydrogen plasmas: impact of spatial gas temperature gradients"</i>
11:20	Gregory Daly , <i>"AI in plasma physics - what can we build and how?"</i>
11:40	James Ellis , <i>"Divisions in Diagnostic Development"</i>
12:00	Ryan Magee , <i>"Measuring work function and negative ion yield from boron doped diamond and graphite in deuterium plasmas"</i>
12:20	Lunch
	<u>Atmospheric-pressure plasmas 2</u> Session chair: Paul Maguire, Ulster University
13:50	David Sawtell , <i>"Microfluidic plasma devices to assess the degradation of water based pollutants"</i>
14:10	Donato Rubineti , <i>"Atmospheric plasma based electrohydrodynamic air amplifier for low-energy airflow generation"</i>
14:30	Tim Egghe , <i>"Plasma-based surface modifications for biomedical applications: the preferred tool?"</i>
14:50	Erik Wagenaars , <i>"Effects of humidity on the dynamics and electron recombination of a pin-to-pin discharge in He+H₂O at atmospheric pressure"</i>
15:10	Close & coffee