

**Aerosol and Particle Technology Conference - APT2026**

	SUNDAY, May 10	MONDAY, May 11	TUESDAY, May 12	WEDNESDAY, May 13	THURSDAY, May 14
08.30 - 08.45		<b>Opening of APT2026</b> Location: Chair:			
08.45 - 09.00					
09.00 - 09.15		<b>PLENARY 1</b>	<b>PLENARY 3</b>	<b>PLENARY 4</b>	<b>PLENARY 5</b>
09.15 - 09.30		<b>Aerosol-made nanomaterials for diagnostics and therapy</b>  Speaker: Inge Herrmann	<b>Real and virtual particle and aerosol transport in wildfires: the underlying science and the business case</b>  Speaker: Epaminondas Mastorakos	<b>Nanoparticle and Surface Engineering with Aerosols for Chemical Sensors</b>  Speaker: Andreas Guentner	<b>Hetero aggregates – building blocks for many applications</b>  Speaker: Lutz Maedler
09.30 - 09.45					
09.45 - 10.00					
10.00 - 10.15		Coffee Break	Coffee Break	Coffee Break	Coffee Break
10.15 - 10.30		<b>PLENARY 2</b>  <b>Flame-made high-value nanoparticles for biomedicine</b>  Speaker: George Sotiriou	<b>Session V1 - Venturing: From the Lab to the Market</b> Track: Venturing of APT Time: 10.30-12.00 Chair: TBC	<b>Session F4 - Particle Transport, Deposition &amp; Dynamics</b> Track: Fundamentals of APT Time: 10.30-11.30 Chair: TBC	<b>Session H1b - Aerosol Sensors &amp; Detection Technologies</b> Track: High Value Applications of APT Time: 10.30-11.30 Chair: TBC
10.30 - 10.45			<b>V1 - Numerical simulations of ns pulsed laser cavity-based aerosol gold nanoparticle size reduction and necking control via evaporation and sintering</b> Speaker: José Morán Track: Venturing of APT	<b>F4 - Diffusion dynamics of tiny nanoparticles in air</b> Speaker: Dimitrios Tsalikis Track: Fundamentals of APT	<b>H1b - Measuring Urban Aerosol Volatility Fractions with a Catalytic Stripper at an ACTRIS Aerosol Observatory: Characterization and Implementation</b> Speaker: Maximilian Dollner Track: High Value Applications of APT
10.45 - 11.00			<b>V1.1 - Single-Droplet Techniques for Analysis of Evaporation Kinetics and Particle Morphology in Spray Dryers</b> Speaker: Jonathan Reid Track: Venturing of APT	<b>F4.1 - Electrodynamic Particle Suspension in a Gap Between Grid Electrodes</b> Speaker: Karim Mehrabi Track: Fundamentals of APT	<b>H1b.1 -Microwell Aerosol-to-Vapor Conversion for Rapid Mass Spectrometric Analysis</b> Speaker: Igor Novosselov Track: High Value Applications of APT
11.00 - 11.15	<b>V1.2 - Thermally stable and spherical silver particles as a calibration transfer standard for nanoparticle measurement technologies</b> Speaker: Paulus S. Bauer Track: Venturing of APT		<b>F4.2 -New slip model for spherical particle-wall rolling detachment by airflow</b> Speaker: Francois Gensdarmes Track: Fundamentals of APT	<b>H1b.2 -Towards Real-Time Pollen Monitoring in Southern Europe: A Novel Automatic Classifier</b> Speaker: Andreas Schwendemann Track: High Value Applications of APT	
11.15 - 11.30	<b>V1.3 - Gilbert Smart Precision Inhaler For Tunable, Monodisperse Aerosol Generation in Pulmonary Drug Delivery</b> Speaker: Fatemeh Jahanmard Track: Venturing of APT		<b>F4.3 -On the relation between turbulent parameters and aerosol deposition</b> Speaker: Jeanne Malet Track: Fundamentals of APT	<b>H1b.3 -Efficient Butanol Vapor Removal Eliminates Measurement Cross-Sensitivity and Health Risks</b> Speaker: Hans-Joachim Schulz Track: High Value Applications of APT	
11.30 - 11.45	Break		Break	Break	Break
11.45 - 12.00	<b>Session F1b - Gas-Phase Synthesis &amp; Aerosol Nanoparticle Formation</b> Track: Fundamentals of APT Time: 11.45-12.45 Chair: TBC	<b>V1.4 -The Influence of Hydrodynamic Parameters on Bioaerosol Emissions in Vortex-Driven Motion</b> Speaker: Maheen Shafiq Track: Venturing of APT	<b>Session F4b - Particle Transport, Deposition &amp; Dynamics</b> Track: Fundamentals of APT Time: 11.45-12.45 Chair: TBC	<b>Session H4a - Energy, Combustion &amp; Industrial Aerosol Applications</b> Track: High Value Applications of APT Time: 11.45-12.45 Chair: TBC	
	<b>F1b - Predicting aerogel formation in aerosol phase nanowire synthesis</b> Speaker: Nabil Abomailek Rubio Track: Fundamentals of APT		<b>F4b - Physicochemical characterization and vapor adsorption behavior of jet-like soot particles</b> Speaker: Yiheng Liang Track: Fundamentals of APT	<b>H4a - Determination of the mass of particles generated by explosions in contact with concrete</b> Speaker: Delphine Costa Track: High Value Applications of APT	
12.00 - 12.15	<b>F1b.1 - Spark ablation of Ti and Au for Au@TiO2 hetero-aggregate nanoparticle formation and characterisation</b> Speaker: Benjamin Gfeller Track: Fundamentals of APT	<b>Session H3a - Advanced Materials &amp; Nanofabrication via Aerosols</b> Track: High Value Track Time: 12.00-12.45 Chair: TBC	<b>F4b.1 - Inhalable carbon fibres – CF aerosol generation, characterisation, and numerical simulation of deposition on cell surfaces exposed at air-liquid interface</b> Speaker: Sonja Mülhopt Track: Fundamentals of APT	<b>H4a.1 - Gas-phase chemistry and soot formation during shock-tube pyrolysis of methane at high fuel loadings</b> Speaker: Mohammad Adib Track: High Value Applications of APT	
		<b>H3a - Aerosol Metal-Organic Frameworks (MOFs) Synthesis</b> Speaker: Igor Novosselov Track: High Value Applications of APT			
12.15 - 12.30	<b>F1b.2 - The effect of inductance-controlled energy release rate on the plasma resistance and size distribution of copper nanoparticles generated by spark-discharge discharge ablation</b> Speaker: José Morán Track: Fundamentals of APT	<b>H3a.1 - Beyond lithography: Atomic-level arrangement of aerosol into structural arrays</b> Speaker: Jicheng Feng Track: High Value Applications of APT	<b>F4b.2 -Resolving Particle Size Distributions into Biomass-Burning and Fossil-Fuel Sources in Subarctic Alaska Using Integrated Observations and Machine Learning</b> Speaker: Lorena Albuquerque Zandreis Track: Fundamentals of APT	<b>H4a.2 - Gas-solid particle dynamics in fluidized bed solar receivers for Concentrated Solar Power applications: Experimental investigation and CFD-DEM modelling</b> Speaker: Dimitrios Tsaoulidis Track: High Value Applications of APT	
12.30 - 12.45	<b>F1b.3 - Time-resolved composition of CuZn nanoparticles generated by spark ablation</b> Speaker: Linnéa Jönsson Track: Fundamentals of APT	<b>H3a.2 - Aerosol-assisted Printing of Polyelectrolyte Multilayer Nanofiltration Membranes: From Formation Mechanism to Scalable Production</b> Speaker: Yi Jiang Track: High Value Applications of APT	<b>F4b.3 -Bridging Measurement and Theory with a General Aerosol Microphysical Model</b> Speaker: Fraser Crawford Track: Fundamentals of APT	<b>H4a.3 - Wet Electrostatic Scrubbing for fine and ultrafine particulate matter control in industrial and engine exhausts</b> Speaker: Francesco Di Natale Track: High Value Applications of APT	
12.45 - 13.00				<b>Session H4b - Energy, Combustion &amp; Industrial Aerosol Applications</b> Track: High Value Applications of APT Time: 12.45-13.15 Chair: TBC	

	Lunch	Lunch	Lunch	<b>H4b</b> - Examining of Carbon Fibers Behaviour in a Carbon Conversion Cell Using Digital Microscope Speaker: Andrei Bologna Track: High Value Applications of APT
13.00 - 13.15				<b>H4b.1</b> - Study of Carbon Fibers Conversion in an Experimental Cell Speaker: Andrei Bologna Track: High Value Applications of APT
13.15 - 13.30				Lunch
13.30 - 13.45				
13.45 - 14.00				
14.00 - 14.15	<b>Session F1c - Gas-Phase Synthesis &amp; Aerosol Nanoparticle Formation</b> Track: Fundamentals of APT Time: 14.00-15.00 Chair: TBC	<b>Session F3a - Aerosol Measurement &amp; Instrumentation</b> Track: Fundamentals of APT Time: 14.00-15.00 Chair: TBC	<b>Session F5a - Modelling &amp; Digital Tools for Aerosol Processes</b> Track: Fundamentals of APT Time: 14.00-15.00 Chair: TBC	<b>Closure</b>
	<b>F1c</b> - Time-Resolved Laser Diagnostics of Metal Cluster Formation from Spark Ablation Speaker: Thomas Krinke Track: Fundamentals of APT	<b>F3a</b> - A novel on-line single aerosol-particle laser mass spectrometer for simultaneous inorganic and molecular organic chemical aerosol characterization: Technology and application Speaker: Ralf Zimmermann Track: Fundamentals of APT	<b>F5a</b> - A Monte Carlo Model for Simulating Hetero-Aggregate Formation in Aerosol Streams Speaker: Amir Karimi Noughabi Track: Fundamentals of APT	
14.15 - 14.30	<b>F1c.1</b> - SPES approach to characterizing nano-hetero-aggregates produced by spray synthesis Speaker: Philipp Rembe Track: Fundamentals of APT	<b>F3a.1</b> - A Real-World Benchmarking Method for Intercomparing Airflow Cytometer Coarse Particle Concentration Measurements Speaker: Andreas Schwendemann Track: Fundamentals of APT	<b>F5a.1</b> - CarbonX: A Process Design Tool for the Gas-Phase Synthesis of Metal Nanoparticles and Carbon Nanotubes Speaker: Hossein Rahbar Track: Fundamentals of APT	
14.30 - 14.45	<b>F1c.2</b> - Template-Free Tuning of Magnetic Nanoparticle Self-Assemblies through External Fields Speaker: Mehran Sedpooshan Track: Fundamentals of APT	<b>F3a.2</b> - Better Accuracy & Automation of the CERMS for Calibrating Black Carbon Mass Analysers Speaker: Jonathan Symonds Track: Fundamentals of APT	<b>F5a.2</b> - First steps towards the development of a digital twin for flame spray pyrolysis systems Speaker: Benedetta Franzelli Track: Fundamentals of APT	
14.45 - 15.00	<b>F1c.3</b> - Forced charge transfer to nanoparticles in particle-wall collisions to produce functional hetero-aggregates Speaker: Alexander Plack Track: Fundamentals of APT	<b>F3a.3</b> - Comparison of ELPI+ with SMPS and APS on various laboratory generated aerosols Speaker: Anssi Arffman Track: Fundamentals of APT	<b>F5a.3</b> - The VERT GPF retrofit program within the Horizon Europe AeroSolfid project: Overview and Final results Speaker: Lauretta Rubino Track: Fundamentals of APT	
15.00 - 15.15	Break	Break	Break	
15.15 - 15.30	<b>Session F2a - Electrospays, Droplets &amp; Particle Formation</b> Track: Fundamentals of APT Time: 15.15-16.15 Chair: TBC	<b>Session F3b - Aerosol Measurement &amp; Instrumentation</b> Track: Fundamentals of APT Time: 15.15-16.15 Chair: TBC	<b>Session F6a - Carbon, Soot &amp; Surface Phenomena</b> Track: Fundamentals of APT Time: 15.15-15.45 Chair: TBC	
	<b>F2a</b> - Cone Jet Stability and Surface Morphology of Electrospayed Titania Films Speaker: Arianna Parisi Track: Fundamentals of APT	<b>F3b</b> - Experimental Validation of High-Efficiency Stairmand and Swift Cyclones Using Optical Particle Spectrometry Speaker: Paolo Maria Tronville Track: Fundamentals of APT	<b>F6a</b> - Microstructural Evidence of Soot Compaction and Sulfate Coating in Urban Aerosols of the Indo-Gangetic Basin: A FESEM Study Speaker: Vaishnav Bartaria Track: Fundamentals of APT	
15.30 - 15.45	<b>F2a.1</b> - Cone-Jet Mode in Bipolar Electrospays Speaker: Jose L Castillo Track: Fundamentals of APT	<b>F3b.1</b> - Mass, Size and Density Fingerprints of Engineered Particles Speaker: Jonathan Symonds Track: Fundamentals of APT	<b>F6a.1</b> - Oxidation rate of carbon black nanoparticles generated by sustainable fuel combustion Speaker: Constantinos Moularas Track: Fundamentals of APT	
15.45 - 16.00	<b>F2a.2</b> - Controlled Morphology of Microparticles Formed by Evaporation of Aerosol Droplets Containing Nanoparticles with Varying Glass Transition Temperatures Speaker: Sorrel Haughton Track: Fundamentals of APT	<b>F3b.2</b> - SEMS Transfer functions for accurate signal inversion Speaker: Mark Kanaparthi Track: Fundamentals of APT	<b>F6a.2</b> - Nucleation, Surface Growth and Coagulation of Soot by Hierarchical Modeling Speaker: Eirini Goudeli Track: Fundamentals of APT	
16.00 - 16.15	<b>F2a.3</b> - Electro-Assisted Flow Blurring for High-Throughput Generation and Charging of Newtonian Droplets Speaker: Lius Modesto- Lopez Track: Fundamentals of APT	<b>F3b.3</b> -Solid or Liquid? Substances to use in a CPC to make ultrafine particles detectable Speaker: Patrick Weber Track: Fundamentals of APT	<b>Session H2a - Biomedical Aerosols &amp; Drug Delivery</b> Track: High Value Track Time: 15.45-16.45 Chair: TBC	
	<b>F2a.3</b> - Electro-Assisted Flow Blurring for High-Throughput Generation and Charging of Newtonian Droplets Speaker: Lius Modesto- Lopez Track: Fundamentals of APT	<b>F3b.4</b> -Solid or Liquid? Substances to use in a CPC to make ultrafine particles detectable Speaker: Patrick Weber Track: Fundamentals of APT	<b>H2a</b> - Nanoparticles for Drug Delivery: Predictive Manufacturing and Translation Speaker: Maryam Parhizkar Track: High Value Applications of APT	
16.15 - 16.30	<b>Session F2b - Electrospays, Droplets &amp; Particle Formation</b> Track: Fundamentals of APT Time: 16.15-17.45 Chair: TBC	<b>Session H1a - Aerosol Sensors &amp; Detection Technologies</b> Track: High Value Track Time: 16.15-17.45 Chair: TBC	<b>H2a.1</b> - Nitrogen-assisted particle fluidization for dry coating of high-dose inhalable powders: Impact on particle micrometrics H. A. Al-Assaf <sup>1</sup> , A. Rahman <sup>2</sup> , R. Badhan <sup>3</sup> , D. Kirby <sup>1</sup> , A. R. Speaker: Haia Al-Assaf Track: High Value Applications of APT	

		<p><b>F2b</b> - Evaporation kinetics and dried microparticle morphology of aqueous aerosol droplet containing nanoparticles Speaker: Jonathan Reid Track: Fundamentals of APT</p>	<p><b>H1a</b> - A new single-channel portable water CPC Speaker: Lucia Bustin Track: High Value Applications of APT</p>	<p><b>H2a.1</b> - Nitrogen-assisted particle fluidization for dry coating of high-dose inhalable powders: Impact on particle micrometrics H. A. Al-Assaf<sup>1</sup>, A. Rahman<sup>2</sup>, R. Badhan<sup>1</sup>, D. Kirby<sup>1</sup>, A. R. Speaker: Haia Al-Assaf Track: High Value Applications of APT</p>
16.30 - 16.45		<p><b>F2b.1</b> - Morphology of Electrospayed Titania Films Speaker: Arianna Parisi Track: Fundamentals of APT</p>	<p><b>H1a.1</b> - Aerosol synthesis of carbon nano onions and its role as sensing layer in In2O3/CNOs composite for sensitive H2S detection at room temperature Speaker: Muhammad Tanveer Track: High Value Applications</p>	<p><b>H2a.2</b> - Novel High-Efficiency Cyclone Collector Using a 15 mL Falcon Tube for Bioaerosol Collection and Molecular Detection Speaker: Richard Baxter Track: High Value Applications</p>
		<p><b>F2b.2</b> - Nanoparticulate Coatings by Electro Spray Speaker: Joan Rosell-Llompart Track: Fundamentals of APT</p>	<p><b>H1a.2</b> -Fabrication of filter paper-based SERS substrates via spark ablation and their applications Speaker: Attila Kohut Track: High Value Applications of APT</p>	<p><b>H2a.3</b> - Scalable microfluidic production of drug-loaded microparticles: Controlled synthesis, characterisation, and CFD-assisted design Speaker: Dimitrios Tsaoulidis Track: High Value Applications of APT</p>
16.45 - 17.00		Break	Break	Break
17.00 - 17.15				
17.15 - 17.30		<p><b>F2b.3</b> - Nucleic acid-marked nanoplastics produced by electrohydrodynamic atomization (EHDA) for applications in water technology Speaker: Kelly Moreira Track: Fundamentals of APT</p>	<p><b>H1a.3</b> - Key aspects of sizing and counting particles using a Time-Of-Flight technique Speaker: Amel KORT Track: High Value Applications of APT</p>	<p><b>Session H3b - Advanced Materials &amp; Nanofabrication via Aerosols</b> Track: High Value Track Time: 17.15-18.15 Chair: TBC</p>
		<p><b>F2b.3</b> - Nucleic acid-marked nanoplastics produced by electrohydrodynamic atomization (EHDA) for applications in water technology Speaker: Kelly Moreira Track: Fundamentals of APT</p>	<p><b>H1a.3</b> - Key aspects of sizing and counting particles using a Time-Of-Flight technique Speaker: Amel KORT Track: High Value Applications of APT</p>	<p><b>H3b</b> - Flame Spray Pyrolysis Engineering of Interfacial Quantum States in H2-Photocatalytic Semiconductors: control of Photophysics via Precision Engineering Speaker: Yiannis Deligiannakis Track: High Value Applications of APT</p>
17.30 - 17.45		<p><b>Session F1a - Gas-Phase Synthesis &amp; Aerosol Nanoparticle Formation</b> Track: Fundamentals of APT Time: 10.30-11.30 Chair: TBC</p>	<p><b>35 Years of Serving APT</b> <b>A special presentation and roundtable discussion</b> Coordinated by: Athanasios G. Konstandopoulos with Sotiris Pratsinis, Jose Castillo, Pedro Garcia-Ybarra, Oliver Bischoff and others</p>	<p><b>H3b.1</b> - Highly porous carbon blacks for supercapacitors and electrochemical energy storage Speaker: Georgios Kelesidis Track: High Value Applications of APT</p>
	<p><b>F1a</b> - Closing the loop: Processing End-of-Use Photovoltaic Silicon in a Gas Phase Reactor for Application in Additive Manufacturing Speaker: Sophie Marie Schnurre Track: Fundamentals of APT</p>	<p><b>H3b.1</b> - Highly porous carbon blacks for supercapacitors and electrochemical energy storage Speaker: Georgios Kelesidis Track: High Value Applications of APT</p>		
17.45 - 18.00	<p><b>F1a.1</b> - Eco-friendly Fast-facile Synthesis of Single-phase Hydroxyapatite Nanoparticles for Biomedical Applications Speaker: Alireza Charmforoushan Track: Fundamentals of APT</p>	<p><b>H3b.2</b> - Large-scale silicon nanowire paper fabrication via aerosol- catalysed CVD Speaker: Isabel Gómez-Palos Track: High Value Applications</p>		
18.00 - 18.15	<p><b>F1a.2</b> - Gas-Phase Engineering of Heterogeneous Metal Nanoaggregates Speaker: Cyprien Jourdain Track: Fundamentals of APT</p>	<p><b>H3b.3</b> - Nanoprinting of aerosols with subsequent etching to fabricate patterned substrates Speaker: Jicheng Feng Track: High Value Applications of APT</p>		
18.15 - 18.30	<p>Registration open and Cocktail reception</p>	<p><b>F1a.3</b> - Generating Nanoparticles from Tellurium, Bismuth, Gallium, Gold, Iron and Various Salts Using the Silver Particle Generator Speaker: Vinicius Berger Track: Fundamentals of APT</p>		
18.30 - 18.45				
18.45 - 19.00				
19.00 - 19.15				
19.15 - 19.30				
19.30 - 20.00				
20.00 - 21.00				
21.00 - 22.00			Dinner	