



# PANE 2022

Plasma-Assisted Nanomaterials Engineering

Workshop Programme Overview

Website:

<https://www.mff.cuni.cz/en/kmf/pse-satellite-2022>

Contact:

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## Thursday Feb 10

8:45 - 9:00				Opening		
9:00 - 9:40	Hellmut	Haberland		Clusters and Nanoparticles, properties, generation, and some applications	University of Freiburg	Germany
9:55 - 10:15	Niko	Carstens		Long-term memristive dynamics of Ag-based Nanostructures	Kiel University	Germany
10:20 - 10:40	Bruno	Honnorat		Polypropylene nanoparticles generation using 355 nm laser ablation	Leibniz-Institute for Plasma Science and Technology (INP Greifswald)	Germany
10:50 - 11:10	Agustín	González-Elípe		Patterning and nanostructuring of plasma thin films grown under acoustic wave activation	Instituto de Ciencia de Materiales de Sevilla (CSIC-Univ. Sevilla)	Spain
11:15 - 11:35	Oleksandr	Mashchenko		Plasmonic MALDI MS: Ag nanoparticles as a booster for organic matrix	University of South Bohemia in České Budějovice	Czech Republic
11:40 - 12:05				General discussions ("Virtual coffee")		
13:15 - 13:55	Pavel	Mareš		Research and development of novel pulsed plasma technologies for deposition of advanced thin-film materials	HVM PLASMA, spol. s r.o.	Czech Republic
14:10 - 14:30	Ajinkya M.	Trimukhe		Pulsed plasma surface functionalized nanosilver for gene delivery	Institute of Chemical Technology, Mumbai	India
14:35 - 14:55	Blessing	Adejube		Dynamic Resistive Switching in Nanoparticle Networks with and without dielectric matrix	Kiel University	Germany
15:05 - 15:25	Lenka	Zajíčková		Cu-coated polymer nanofibers for antibacterial effects	Brno University of Technology	Czech Republic
15:30 - 15:50	Yasmina	Al-Muhkhrabi		Impregnation of C:H:N:O films by dyes with different functional groups in way to enhance sorption of antibiotics	University of South Bohemia in České Budějovice	Czech Republic
15:55 - 16:20				General discussions ("Virtual coffee")		
16:20 - 16:25				Closing		

## Friday Feb 11

8:55 - 9:00				Opening		
9:00 - 9:40	Jiri	Houska		Pathways for the preparation of functional coatings by simulations at various scales	University of West Bohemia	Czech Republic
9:55 - 10:15	Vladimir	Popok		AIN Nanostructures Formed by Reactive Magnetron Sputtering	Aalborg University	Denmark
10:20 - 10:40	Anastasiya	Sergievskaya		In operando analysis during sputtering onto liquids for nanoparticle synthesis	University of Mons	Belgium
10:50 - 11:10	Anne-Lise	Thomann		Nanostructured and composite films using helium behavior in materials	Université d'Orléans/CNRS	France
11:15 - 11:35	Regina	Del Sole		Oxygen plasma surface modification of fullerene C60 for stable aqueous dispersion	Università degli Studi di Bari	Italy
11:40 - 12:05				General discussions ("Virtual coffee")		
13:15 - 13:55	Jan	Hanuš		Nanomaterials produced using gas aggregation source of nanoparticles	Charles University	Czech Republic
14:10 - 14:30	Alexander	Vahl		Memristive Switching and Photon Sensing in Nanoparticle-based Devices	Kiel University	Germany
14:35 - 14:55	Stanislav	Haviar		Thin-Film-Based Gas Sensors Prepared by Advanced Magnetron Sputtering Deposition Techniques	University of West Bohemia	Czech Republic
15:05 - 15:25	Bogdana	Mitu		Nanocomposites based on chitosan and Ag nanoparticles for wound fast healing	National Institute for Lasers, Plasma and Radiation Physics	Romania
15:30 - 15:50	Sanjay	Kumar		Water stable Ag/C:H:N:O nanocomposites for LSPR sensing applications	University of South Bohemia in České Budějovice	Czech Republic
15:55 - 16:20				General discussions ("Virtual coffee")		
16:20 - 16:35				Closing		