



WG3 Satellite Meeting program, Saturday 28th June 2025

Venue: J. Heyrovsky Institute of Physical Chemistry of the Czech Academy of Sciences, Brdičkova Hall

Address: Dolejskova 2155/3 182 00 Prague 8, Czech Republic

16 speakers (10' presentation + 10' discussion) and 4 posters

1st session 9.00-10.40

9.00-9.20	Maria Pilar de Lara-Castells, Institute of Fundamental Physics of the Spanish National Research Council, Spain <i>Unsupported and surface-supported subnanometric metal clusters. On the interplay between Jahn-Teller distortions and fluxionality</i>
9.20-9.40	Ernesto Garcia Alfonso, CNR, Italy <i>Subnanometer Transition Metal Clusters: Mixing and matching of structural motifs</i>
9.40-10.00	Thantip Roongcharoen, CNR-ICCOM, Italy <i>Machine-Learning-Accelerated DFT Conformal Sampling of Catalytic Processes</i>
10.00-10.20	Antonija Mravak, Faculty of Chemistry and Technology, University of Split, Croatia <i>Designing catalysts for renewable energy: from single copper sites in MOF to supported copper clusters</i>
10.20-10.40	Estefania German, Universidad de Valladolid, Spain <i>Transition metal clusters supported on graphdiyne and boron-graphdiyne</i>

Coffee break 10.40-11.00 + poster session

2nd session 11.00-12.00

11.00-11.20	Xinran Lu, University of Santiago de Compostela, Spain <i>New polymerization reaction catalyzed by silver clusters</i>
11.20-11.40	Karolina Šimkovičová, J. Heyrovsky Institute of Physical Chemistry of the Czech Academy of Sciences, Czech Republic <i>Selective Low-Temperature Oxidative Dehydrogenation of Propane over Alumina-Supported Copper Nanoparticles with O₂ and CO₂ as Oxidants</i>
11.40-12.00	Junjie Shi, TU Wien, Austria <i>Ceria-Catalyzed Direct Conversion of Methane to Methanol in Continuous Flow Operation: Key Roles of Oxygen and Water</i>

Lunch break 12.00-14.00

3rd session 14.00-15.40

14.00-14.20	Weronika Andrzejewska, NanoBioMedical Centre, Adam Mickiewicz University in Poznań, Poland <i>Growth, structure and magnetic properties of iron oxide nanowires on a vicinal copper surface</i>
14.20-14.40	Lala Gahramanli, Nano Research Laboratory, Excellent Center, Baku State University, Azerbaijan <i>Ag-Based Nanostructures for Catalysis: Insights into Formation and Reactivity</i>
15.00-15.20	Idris Yazgan, Department of Biology-Kastamonu University, Türkiye <i>Synthesis and Characterization of Fluorescent Silver/Silver chloride Nanostructures for Sensing Applications</i>
15.20-15.40	Aynura Karimova, Baku State University, Azerbaijan <i>The Structural Characteristics of Polymers-Coated Iron Oxide Nanoparticles: A Comprehensive Analysis</i>
15.40-16.00	Rana Khankishiyeva, Ministry of Science and Education of Azerbaijan, Institute of Radiation Problems, Azerbaijan <i>Polymer-Nanochitosan Composites as Smart Delivery Systems for Sustainable Agriculture Applications</i>

Coffee break 15.40-16.00 + poster session

4th session 16.00-17.00

16.00-16.20	Deborah Perco, University of Trieste, Italy <i>Limitations in Determining Oxidation States in Condensed Matter at the Sub-Nanometric Scale</i>
16.20-16.40	Luis M. Molina, Departamento de Física Teórica, Atomica y Optica, Universidad de Valladolid, Spain <i>Theoretical studies of oxidation and carbon dioxide production at small bimetallic catalysts</i>
16.40-17.00	Alessandro Fortunelli, CNR, Italy <i>Carbonaceous Materials via DynReaxMas simulations</i>

5th session 17.00 & beyond – General Discussion & Conclusions

Poster contributions with continuous exhibition throughout the Satellite event

1	Mariya Dobrotvorska, NanoBioMedical Centre, Adam Mickiewicz University in Poznań, Poland <i>Interaction of iron and ultrathin iron nitride islands on copper with molecular oxygen</i>
2	Zuzana Kovářová, Palacký University Olomouc <i>Influence of the concentration of NaOH to precipitation and catalytic activity of Co₃O₄</i>
3	Stanislav Valtera, J. Heyrovsky Institute of Physical Chemistry of the Czech Academy of Sciences, Czech Republic <i>Tuning CuPd Pentamer Clusters for Cyclohexene Dehydrogenation</i>
4	Murat Yılmaz, Osmaniye Korkut Ata University, Türkiye <i>Activated Carbon from Biomass as Functional Nanomaterials: Toward Interdisciplinary Solutions in Environmental Remediation and Energy Storage</i>