	Wednesday July 10, 2024
8H15-8H30	Welcome
8H30-9H20	Current state of In-situ and operando methodologies in industrial catalysis research - Pablo BEATO - Haldor Topsø, Lingby (Denmark)
9h20-9H40	Identification of activation/deactivation processes in Ni mono and bimetallic catalysts for CH <sub>4</sub> steam reforming by operando XAS and XRD studies - Enrico TUSINI - Karlsruhe Institute of Technology (Germany)
9H40-10H00	Hydrogen spillover is regulating the activity of TiO <sub>2</sub> –supported Rh <sub>1</sub> sites in room-temperature ethylene hydrogenation - Janos SZANYI - Pacific Northwest National Laboratory (USA)
10H00-10h30	Coffee break
10h30-10h50	In-situ/operando <sup>57</sup> Fe mössbauer spectroscopic studies on bimetal electrocatalysts for water oxidation - Junhu WANG - Dalian Institute of Chemical Physics (China)
10H50-11H10	Insight in-situ restructuring of UiO-66-Cu based photocatalysts during driven H <sub>2</sub> production from formic acid under visible light - Zahraa ABOU KHALIL - University of Caen Normandie (France)
11H10-11H30	Oral exhibitors 1
11H30-11H50	UV-visible modulation-excitation X-ray absorption spectroscopy to get insights in photocatalysts active species: the example of CO <sub>2</sub> reduction by TiO <sub>2</sub> supported Mo oxysulfides - Anthony BEAUVOIS - Synchrotron SOLEIL (France)
11H50-12H10	Cu <sup>+</sup> mobility in Cu-SSZ-13: dynamic temperature-dependent speciation quantified by MCR-assisted XAS and QM calculations - Gabriele DEPLANO - Università di Torino (Italy)
12h00-14H00	Lunch
14H00-14H50	Insight into the structural evolution of catalysts in working conditions by in situ electron microscopy - Ovidiu ERSEN - University of Strasbourg (France)
14H50-15H10	Probing minority sites and their activity using chemical perturbations and Fast Fourier Transformed Ambient Pressure X-ray Photoelectron Spectroscopy - Jan KNUDSEN - Lund University (Sweden)
15H10-15H30	Unambiguous chemical speciation of Zn in model methanol catalysts by in situ 1s2p-RIXS - Alexey BOUBNOV - Institute of Nanotechnology, Karlsruhe (Germany)
15H30-15H50	Coffee break
15H50-16H10	Machine learning for quantitative structural characterization of palladium hydride nanoparticles by in situ DRIFTS spectroscopy - Aram BUGAEV - ALBA Synchrotron (Spain)
16H10-16H30	Hard-soft modeling of non-isothermal surface kinetics: application to silica- silane reactions - Jean Pierre DEBS - University of Caen Normandie (France)
16H30-16H50	Unambiguous spectroscopic identification of single atom catalyst species - Nicolo ALLASIA- Politecnico di Milano (Italy)
17H00-17H40	Round Table "Chemometrics, AI and data management"
17H40-19H30	Posters session 1 + Cocktail

	Thursday July 11, 2024
8H30-9H20	<b>Spectroscopy of catalysts at the level of single particles, molecules, and atoms: Seeing is believing - Bert WECKHUYSEN –</b> Inorganic Chemistry and Catalysis - University of Utrecht (Netherland)
9h20-9H40	Elucidating surface and bulk dynamics of iron molybdate catalysts during oxidative dehydrogenation using operando spectroscopies - Christian HESS- TU Darmstadt (Germany)
9H40-10H00	<b>Revealing the chemistry of Mn at the nanoscale in low temperature</b> <b>selective catalytic reduction of NO<sub>x</sub> with NH<sub>3</sub> via in-situ EELS - Polina</b> <b>LAVRIK</b> - KAUST (Saudi Arabia)
10H00-10h30	Coffee break
10h30-10h50	Carburization, passivation and re-activation of Mo- and Ni/Cu-Mo- based catalysts for the upgrading of furfural: a time-resolved, in-situ XAS study - Eric MARCEAU - University of Lille (France)
10H50-11H10	Ni-doped CeO <sub>2</sub> with tetrahedral NiO as highly active catalyst for CO <sub>2</sub> methanation: insights into the catalytic active sites - Mathias BARREAU - University of Caen Normandie (France)
11H10-11H30	<b>Operando ATR-IR on the role of NaOH during the enhanced N<sub>2</sub>H<sub>4</sub>·H<sub>2</sub>O decomposition at the IrCoCeO<sub>x</sub> interface - Silvio BELLOMI - Università degli Studi di Milano (Italy)</b>
11H30-11H50	Oral exhibitors 2
12h00-14H00	Lunch
14H00-14H50	AFM-IR, infrared spectroscopy and imaging at nanoscale: fondamental principles and applications - Alexandre DAZZI - University Paris-Saclay (France)
14H50-15H10	<b>Exploring zeolite pores in methanol-to-hydrocarbon reactions via</b> <b>infrared crystallography - Bettina BAUMGARTNER -</b> Utrecht University (Netherlands)
15H10-15H30	Coffee break
15H30-15H50	High spatial resolution reactivity and poisoning analysis of catalytic nanoparticles with operando IR nanospectroscopy measurements - Elad GROSS - The Hebrew University of Jerusalem (Israel)
15H50-16H10	Time-resolved operando IR studies on nickel-ceria-sepiolite catalysts for the exploration of the CO <sub>2</sub> methanation reaction mechanism - Raul Bruno MACHADO da SILVA – Instituto de Tecnologia Quimica (Spain)
16H10-16H50	Round Table "Operando: instrumental development, new tools"
16H50-18H00	Posters session 2
19H15-23H00	Symposium Diner Le Mancel - Restaurant du Château de Caen (Castle of Caen)

	Friday July 12, 2024
8H30-9H20	Enhancing the sensitivity of in situ/operando experiments to surface processes - Davide FERRI - Paul Scherrer Institute PSI, Villigen (Switzerland)
9h20-9H40	Inelastic neutron scattering insight into catalysts based on metal nanoparticles for hydrogenation reactions - Andrea PIOVANO - Institut Laue-Langevin (France)
9H40-10H00	<b>Dynamic CO-induced reconstruction of Al<sub>2</sub>O<sub>3</sub>-supported Pd nanoparticles at room temperature - Alberto RICCHEBUONO -</b> University of Torino (Italy)
10H00-10h30	Coffee break
10h30-10h50	Insights into the reaction mechanism of low-temperature CO <sub>2</sub> hydrogenation over Ir/MoO <sub>3</sub> using operando DRIFTS-SSITKA - Ahmad ALREFAEI - Delft University of Technology (Netherlands)
10H50-11H10	Tracking active site formation in Cu-exchanged zeolites for partial CH <sub>4</sub> oxidation - Andreas BRENIG - ETH Zurich (Switzerland)
11H10-11H30	<b>Combined in-situ DRIFT/XAFS/MS: monitoring metal, Ce<sup>3+</sup> and</b> <b>coordination species kinetic in Pt/CeO<sub>2</sub> catalysts - Davide SALUSSO -</b> European Synchrotron Radiation Facility (France)
11H30-11H50	Closing session
11H50-13H00	Lunch box