

„Gas Phase Model Systems for Catalysis – GPMC 2018“

Programme:

	Monday, 18 June 2018	Tuesday, 19 June 2018	Wednesday, 20 June 2018
08:30	Conference Opening		
08:45	President of UUIM Welcome		
09:00 - 09:40	Uzi Landman Old questions, new paradigms	Helmut Schwarz The methane challenge: C-H bond activation	Sheng-Gui He Catalytic reactions by hetero-nuclear metal oxide clusters
09:40 - 10:20	Fumitaka Mafuné Adsorption forms of NO on Rh_n^+ and Rh_nTa^+	Joachim Sauer Structure and reactivity of metal oxide	Alexander Gentleman CO adsorption on Nb-Rh nanoalloy clusters
10:20 - 10:40	Coffee break	Coffee break	Coffee break
10:40 - 11:05	Kit Bowen Activation of H_2O , CO_2 , and CH_4 by single atomic metal anions	Akira Terasaki Chemical analysis of oxygen storage/release processes	Roy Johnston The effect of Pd doping on cationic gold clusters
11:05 - 11:30	Detlef Schooss Hydrogen induced structure change of Ru clusters	Martin Tschurl Ta cluster cations and their oxides	Albert Viggiano Oxidation of CO by N_2O catalyzed by $AlVO_4^+$
11:30 - 11:55	Masashi Arakawa Nitridation mechanism of Ta cluster cations	Toshiaki Nagata Geometrical structures and reactions of cerium oxide	Luis Molina Control of CO adsorption at Pt clusters
11:55 - 12:20	Mikkel Jørgensen Catalytic reactions over small metal nanoparticles	Tobias Lau Molecular iron oxides	Jan Vanbuel Hydrogen chemisorption on Rh doped Al clusters
12:20 - 14:00	Lunch	Lunch	Conference Closure
14:00 - 14:40	Richard O'Hair One-pot routes to synthesise amides, thioamides, amidines	Lai-Sheng Wang CO oxidation by size-selected Au clusters	
14:40 - 15:20	Vlasta Bonačić-Koutecký $[LCu_{2,1}(H)]^+$ – catalysed decomposition of formic acid	Mark Johnson Small molecule activation in homogeneous catalysis	
15:20 - 15:40	Coffee break	Coffee break	
15:40 – 16:20	Konrad Koszinowski Organometallic ate complexes	Gereon Niedner-Schatteburg Non Haber-Bosch iron clusters	15:40 – 16:05
16:20 – 16:45	Mathias Schäfer Structure and reactivity of gas-phase phenylhydroxycarbenes:	André Fielicke Activation of carbon dioxide by anionic metal clusters	16:05 – 16:30
16:45 – 17:10	Christian van der Linde Electron catalyzed reactions in the gas phase	Joost Bakker Methane activation by 5d transition metals	16:30 – 16:55
17:10 – 17:35	Knut Asmis Methane activation by $Al_8O_{12}^+$ vs. $Al_7FeO_{12}^+$	Marko Förstel Gas phase UV/VIS spectroscopy on Au_4^+	16:55 – 17:20
		Masahiko Ichihashi Formation and spectroscopy of $Co_m^+He_n$	17:20 – 17:45
18:00 – 19:00	Evening Lecture Martin Vollmer Innovation Driver in Catalysis: An Industrial Perspective	Poster Session	17:55
		Conference Dinner	20:00