

CRC – ELSEVIER CATALYSIS SYMPOSIUM

CATALYSIS IN A CHANGING ENVIRONMENT – LINKING FUNDAMENTAL ASPECTS TO ENGINEERING

Local Organizers: Roland A. Fischer and Jennifer Strunk; Catalysis Research Center, TUM.

International Advisory Board: Evgeny A. Pidko, Maricruz Sanchez-Sanchez and Carsten Sievers.

Program

Sunday July 21 st , 2024		
Time	Speaker & Location	Topic
16:00	IAS Faculty Club	Get Together - Drinks & Finger Food
17:00	IAS Auditorium R. A. Fischer & M. Sanchez-Sanchez J. A. Lercher R. W. Fischer	Opening <i>Introduction</i> <i>Welcome Address</i> <i>Munich Catalysis Alliance of Clariant and TUM</i>
	Chair E. A. Pidko	Session 1 Catalysis Science – Personal Perspectives
17:30	Avelino Corma	<i>Heterogeneous catalysts design: getting inspiration from homo and enzymatic catalysis</i>
18:15	Rutger van Santen	<i>How computational catalysis evolved</i>
19:00	Dinner - TUM IAS Faculty Club	
20:30	IAS Auditorium	<i>After Dinner Speech</i>
21:00	End of Day 1	
Monday July 22 nd , 2024		
	CH 26411 Chair C. Sievers	Session 2 Site Design
9:00	Yong Wang	<i>tba</i>
9:30	Eranda Nikolla	<i>Modulating metal cationic centers in non-stoichiometric mixed metal oxides for enhanced oxygen electrocatalysis</i>
10:00	Liney Arnadottir	<i>Propane dehydrogenation on modified Pt catalysts</i>
10:30	Coffee Break	
11:00	Moniek Tromp	<i>Understanding catalysis: Probing and tuning active sites and people</i>
11:30	Yue Liu	<i>Molecular reactions in chemical degradation of polyolefin plastics</i>
12:00	Cathy Chin	<i>Journey of Acceleration and Liberation (JAL) of bound molecules towards transition states driving catalysis with excess potential</i>
12:30	Lunch & Round Table Discussion 1 – Site Design CRC Foyer & Garden	
	CH 26411 Chair M. Sanchez-S.	Session 3 Energy Input
14:00	Ulrike Diebold	<i>Surface science & catalysis – how’s the relationship going?</i>
14:30	Silvia Bordiga	<i>Optical spectroscopies as a “swiss army knife” in understanding catalysts.</i>
15:00	Andreas Jentys	<i>Capture and hydrogenation of CO₂ over bifunctional mesoporous catalysts</i>
15:30	Coffee Break	
16:00	Dave Flaherty	<i>New evidence for the active state and reaction pathways for ethylene epoxidation on silver</i>
16:30	Jennifer Strunk	<i>Transfer of active sites between thermal and photocatalysis</i>
17:30	Departure to shuttle bus	
18:00	Shuttle bus transfer to dinner location; departure from U6 subway station	
18:30	Conference Dinner	
22:30	End of Day 2	

Tuesday July 23 rd , 2024		
Time	Speaker & Location	Topic
	CH 26411 Chair A. Jentys	Session 4 Closing the Carbon Cycle
9:00	Gabriele Centi	<i>Solar fuels for carbon circularity and closing the cycle</i>
9:30	Angeliki Lemonidou	<i>Reactive CO₂ capture: Integrating calcium looping with dry reforming</i>
10:00	Unni Olsbye	<i>Avoiding reactions to quantify diffusion of alkenes in zeolites: a new benchmark set by Temporal Analysis of Products (TAP)</i>
10:30	Coffee Break	
11:00	Gerhard Mestl	<i>Sustainability: A new driver for industry, not so new for oxidation catalysis</i>
11:30	Matt Neurock	<i>tba</i>
12:00	Laura Gagliardi	<i>Computational discovery of MOFs for a changing world</i>
12:30	Aditya Bhan	<i>CO₂ hydrogenation on Cu-based catalysts</i>
13:00	Lunch & Round Table Discussion 2 – Energy Input & Closing the Carbon Cycle CRC Foyer & Garden	
14:00	CH 26411 Chair J. A. Lercher	Closing Plenary Discussion
14:30	End of Day 3	Departure