

3rd Sino-German Young Scientist Symposium on Structures & Dynamics at Surfaces

Organizer: Dr. Chuanyao Zhou, DICP, CAS

Dr. Ulrich Hagemann, University of Duisburg-Essen, Germany

Date: Sep. 16-20, 2019, Dalian

Location: Conference Room on 1st Floor, Energy Fundamentals Building

G: Germany; C: China; T: the Third Party

Tuesday, Sep. 17		
8:30—8:40	Opening Remarks	
8:40—8:50	Photo	
Chair: Qiu, Xiaohui		
8:50—9:40	Hasselbrink, Eckart (G)	Laser Spectroscopy at surfaces
9:40—10:05	Kong, Xueqian (C)	Partitioning ligands on the surface of nanocrystals
10:05—10:30	Park, Barrat (G)	Site-specific oxidation of methanol at stepped Pt surfaces
10:30—10:50	Coffee Break	
Chair: Park, Barrat		
10:50—11:15	Saben �s, Natalia (G)	Development of an ultrafast THz-gated Scanning tunneling microscope combined with optical photoexcitation
11:15—11:40	Zhang, Yang (C)	Investigating intermolecular dipole-dipole coupling with sub-molecular resolved spectroscopy
11:40—12:05	Debus, J�rg (G)	Optically spectroscopic studies on nano-tribological systems
12:05—14:00	Lunch	
Chair: Rettig, Laurenz		
14:00—14:25	Liu, Weitao (C)	Nonlinear optical studies of electrified water interfaces
14:25—14:50	Zhang, Zhen (C)	Insight into the Mechanism of Supramolecular Chirality formation at the interface
14:50—15:15	Lu, Zhou (C)	Surface chemical reactions monitored by nonlinear spectroscopy
15:15—15:40	Gong, Yongji (C)	Methods to tune the properties of 2D materials
15:40—16:10	Coffee Break	
Chair: Liu, Weitao		
16:10—16:35	Chiang, Cheng-Tien (G)	Direct photoelectron spectroscopy on correlated electron pairs in solids
16:35—17:00	Rettig, Laurenz (G)	Strongly correlated materials investigated by complementary time-domain techniques
17:00—17:25	Liu, Xinfeng (C)	Strong exciton-photon coupling in Perovskite micro-cavity

17:25—17:45	Wei, Dong	Products introduction of SPECS-TII
17:45—19:30	Dinner	

Wednesday, Sep. 18		
Chair: Hasselbrink, Eckart		
8:30—9:20	Qiu, Xiaohui (C)	Measuring the bonding energy of a single bond using atomic force microscopy
9:20—9:45	Ding, Songyuan (C)	Developing new nanostructures and lens for ultrasensitive plasmon-enhanced Raman spectroscopy for surface analysis of general materials
9:45-10:10	Tan, Shijing (C)	Submolecular Imaging of Hydrogen-Bond Dynamics at a Water/Oxide Interface
10:10—10:30	Coffee Break	
Chair: Lu, Zhou		
10:30—10:55	Meng, Sheng (C)	Emergence of new states in photoexcited solids
10:55—11:20	Aeschlimann, Sven (G)	Ultrafast charge transfer in a graphene/WS ₂ heterostructure
11:20—11:45	Chen, Hailong (C)	Investigating 2D materials with ultrafast infrared microspectroscopy
11:45—12:10	Ren, Zefeng (C)	Charge Transfer Dynamics at MoS ₂ /SiO ₂ /Si Heterojunction by Micro-area Time-resolved Photoelectron Spectroscopy
12:10—14:00	Lunch	
Chair: Ren, Zefeng		
14:00—14:25	Bera, Anupam (G)	Towards understanding of gas-surface adsorption chemistry under UHV to real conditions
14:25—14:50	Yang, Fan (C)	Interfacial Catalysis over Well-defined Oxide Nanostructures
14:50—15:15	Kley, Christopher (G)	Revealing catalytic materials at the nanoscale: From UHV STM to in-situ electrochemical AFM
15:15—15:40	Chen, Li (C)	Confining vibrational energy at an interface by isotopic phonon-blocking
15:40—16:00	Coffee Break	
Chair: Aeschlimann, Sven		
16:00—16:25	Wu, Kaifeng (C)	Tackling challenging charge transfer reactions using quantum dots
16:25—16:50	LaRue, Jerry (T)	Probing Ultrafast Dynamics of Reaction Pathways on Metal Surfaces using Ultrafast X-Rays
16:50—17:15	Li, Chi (C)	Ultrafast photoemission from carbon nanotubes
17:15—17:40	Tian, Wenming (C)	Charge Carrier Dynamics in Photoelectric Materials
17:40—19:30	Dinner	

Friday, Sep. 20		
Chair: Hagemann, Ulrich		
8:30—8:55	Panosetti, Chiara (G)	Better (random) walking through chemistry: how not to get lost in vast configurational spaces
8:55—9:20	Galparsoro, Oihanna (G)	Transition State Theory: Application to gas-surface reactions
9:20—9:45	Long, Run (C)	Photoexcitation Dynamics at TiO ₂ Interface
9:45—10:10	Fan, Hongjun (C)	The mechanism of H ₂ evolution on TiO ₂ surface: A theoretical study
10:10—10:30	Coffee Break	
Chair: LaRue, Jerry		
10:30—10:55	Li, Qing (C)	C-H bonds activations on metal surfaces studied by scanning tunneling microscopy
10:55—11:20	Bertram, Cord (G)	Electron induced chemical reactions at ice-metal interfaces investigated by microscopy and spectroscopy
11:20—11:45	Fan, Fengtao (C)	Surface imaging of photogenerated charges in photocatalysts
11:45—12:10	Guo, Qing (C)	Photochemistry of water on TiO ₂ surfaces
12:10—14:00	Lunch	
Chair: Ding, Songyuan		
14:00—14:25	Hagemann, Ulrich (G)	Non-adiabatic effects in gas-surface reactions
14:25—14:50	Schäfer, Tim (G)	Molecular beam surface scattering of chiral molecules: towards enantioselective detection of surface reaction products
14:50—15:15	Fu, Bina (C)	Molecule-surface Scattering Dynamics
15:15—15:40	Zhou, Chuanyao (C)	Role of Pt Loading in the Photocatalytic Chemistry of Methanol on TiO ₂ (110)
15:40—15:50	Closing	
15:50—16:10	Coffee Break	
16:10—17:45	Lab Tour (DICP Main Campus)	
17:45—19:30	Dinner	