Program

Sunday, 8 December 2019

16:00 – 19:00	Registration	
18:00	*BUFFET SUPPER and get-together*	
19:15 – 20:15	R. Kramer Campen	**Towards a femtosecond resolved view of the hydrogen evolution reaction on Au and Pt**

Monday, 9 December 2019

08:00	*BREAKFAST*	
08:45 – 09:00	Scientific organizers	**Welcome words**
09:00 – 10:00	Ulrike Diebold	**Bridging ultrahigh vacuum surface science and liquid water: First steps and future opportunities**
10:00 – 10:45	Mira Todorova	**Predicting atomic structure and chemical reactions at solid-liquid interfaces by first principles**
10:45 – 11:15	*COFFEE BREAK*	
11:15 – 12:00	Fabiola Dominguez Flores	**Interaction of ions across carbon nanotubes**
12:00 – 12:45	Karla Banjac	**Emergence of potential-controlled Cu nanocubes under *operando* CO2 reduction**
12:45	*LUNCH / networking*	

Program

Monday, 9 December 2019

14:45 – 15:30	Marc Koper	**Electrochemical surface science of platinum**
15:30 – 16:15	Henrik Kristoffersen	**Modeling the liquid water-Pt(111) interface**
16:15 – 16:45	*COFFEE BREAK*	
16:45 – 17:30	Leon Jacobse	**Operando surface structure determination of Pt(111) under realistic oxygen reduction conditions using high-energy surface X-ray diffraction**
17:30-18:15	Jinggang Lan	**Ionization of water as an effect of quantum delocalization at aqueous electrode interfaces**
18:30	*DINNER*	
19:30	**Posterflash (1 min.) and postersession <u>(even numbers)</u>**	

Program

Tuesday, 10 December, 2019

08:00	*BREAKFAST*	
09:00 – 09:45	Aliaksandr Bandarenka	**Why electrolytes can significantly control the catalytic activity. An experimental approach**
09:45 – 10:30	Jan Rossmeisl	**Electrocatalysis at the atomic scale**
10:30 – 11:00	*COFFEE BREAK*	
11:00 – 11:45	Kristina Tschulik	**Electrochemical studies of nanoparticle observed with dark-field microscopy**
11:45 – 12:30	Karsten Reuter	**On the active site model in computational catalyst screening**
12:30 – 12:40	*Conference Photo (in the front of the lecture hall)*	
12:40	*LUNCH / networking*	
14:30	**Excursion: Wine tasting at the winery Broel**	
18:15	*DINNER*	
19:15 – 20:15	Daniel A. Scherson	**Electrode stimulation**

Program

Wednesday, 11 December, 2019

08:00	*BREAKFAST*	
08:45 – 09:45	Elena Savinova	***Operando* FTIR investigation of borohydride electrooxidation on nickel**
09:45 – 10:30	Stijn Mertens	**Electrochemical orbital imaging**
10:30 – 11:00	*COFFEE BREAK*	
11:00 – 11:45	Markus Valtiner	**Angstrom-resolved characterization of electrochemical interfaces in real time during polarization**
11:45 – 12:30	Jun Cheng	**Ab initio modeling of electric double layers on single crystal electrodes**
12:30	*LUNCH / networking*	
14:45 – 15:30	Clotilde Cucinotta	**Improving the design of electrochemical materials and devices with theory and modelling**
15:30 – 16:15	Bridget Murphy	**Investigating atomic scale structure and kinetics of liquid metal–electrolyte interfaces**
16:15 – 16:45	*COFFEE BREAK*	
16:45 – 17:30	Vivek Sinha	**Towards multiscale modelling of the semiconductor electrolyte interface for oxygen evolution reaction**
17:30-18:15	Celine Merlet	**Exploring the properties of concentrated electrolyte / electrode interfaces in supercapacitors using idealised coarse-grained models**
18:30	*DINNER*	
19:30	**Posterflash (1 min.) and postersession <u>(odd numbers)</u>**	

Program

Thursday, 12 December, 2019

08:00	*BREAKFAST*	
08:45 – 09:00	**Poster awards**	
09:00 – 09:45	Marcella Iannuzzi	**Interfaces by ab initio molecular dynamics**
09:45 – 10:30	Olga Sambalova	**Magneto-optical Kerr effect set-up for operando probing of electrode surfaces**
10:30 – 11:00	*COFFEE BREAK*	
11:00 – 11:45	Izabella Brand	**Investigating molecular scale changes at the electrode-electrolyte interface using polarization modulation infrared reflection absorption spectroscopy**
11:45 – 12:30	David Fermin	**Oxygen electrocatalysis at transition metal oxide nanostructures**
12:30	*LUNCH / networking*	
14:45 – 16:15	**Round table**	**Challenges and opportunities of solid/liquid operando surface science:method development, key applications and interdisciplinarity**
16:15 – 16:45	*COFFEE BREAK*	
16:45 – 17:30	Ismael Pérez Díez	**Mapping charge transport at electrode/liquid interfaces: from oxides films to biomolecules**
17:30-18:15	Ali Ismael	**Tuning the thermoelectric performance of aromatic molecules**
18:30	*HERAEUS DINNER* *(social event with cold & warm buffet with complimentary drinks)*	

Program

Friday, 13 December, 2019

08:00	*BREAKFAST*	
09:00 – 09:45	Harald Oberhofer	**Parametrizing implicit solvation models**
09:45 – 10:30	Manon Bertram	**Adsorbate properties on atomically-defined Co_3O_4(111) in UHV and the electrochemical environment**
10:30 – 11:00	*COFFEE BREAK*	
11:00 – 11:45	Andreas Erbe	**Probing water and surface oxides on electrodes by coupling in situ spectroscopic techniques**
11:45– 12:20	**Brainstorming**	
12:20 – 12:30	Scientific organizers	**Closing words**
12:30	*LUNCH*	

End of the seminar and departure

NO DINNER for participants leaving on Saturday morning