

DFG SPP 1613 Project Meeting, Hotel Commundo Darmstadt, 25th-26th September, 2014

Program

Arrival on 24th September

18:00 Welcome Reception

19:00 Dinner

25th September 2014:

ID	Time	Applicants	Topic
	07:00 – 08:30		Breakfast
	09:00 – 09:10	Jaegermann, Darmstadt	Welcome / Introduction
1	09:10 – 09:30 2 projects	Jacob, Ulm Over, Gießen	Elementary Steps in the photocatalytic Water Splitting over TiO ₂ -based Model Electrode Systems
2	09:30 – 09:45 1 project	Klüner, Oldenburg	Quantum chemical and quantum dynamical studies of the photo-catalytic water splitting on titanium dioxide surfaces
3	09:45 – 10:10 3 projects	Jaegermann, Darmstadt Kaiser, Darmstadt Finger, Jülich Schäfer, Darmstadt	Photoelectrochemical water splitting using adapted silicon based semiconductor tandem structures
4	10:10 – 10:25 1 project	Berghoff, Aachen	A monolithic all-silicon multi-junction photovoltaic electrolysis device for solar hydrogen production by direct water splitting
	10:25 – 10:55		Coffee Break
5	10:55 – 11:20 3 projects	Dau, Berlin Fiechter, Berlin Kurz, Freiburg	Development of catalysts, namely manganese oxides and molybdenum-iron sulphides, for an implementation in a light-driven water-splitting device using a multi-junction solar cell
6	11:20 – 11:40 2 projects	Rossmesl, Lingby Strasser, Berlin Teschner, Berlin	Nanostructured mixed metal oxides for the electrocatalytic oxidation of water
7	11:40 – 12:05 3 projects	Fiechter, Berlin Ludwig, Bochum Schuhmann, Bochum	Nanostructured transition metal oxide electrodes for the light-induced water splitting - a combinatorial approach
8	12:05 – 12:25 2 projects	Bein, München Scheu, München	Nanostructured Hierarchical Oxide Photoelectrodes for Photoelectrochemical Water-Splitting
9	12:25 – 12:55 4 projects	Behrens, Berlin Fischer, Berlin Lerch, Berlin Schedel-Niedrig, Berlin	Nanostructured Ta-oxide nitride and Chalcopyrite-based Thin Film Composites and Co-Catalysts for Visible Light-driven Overall Water Splitting

	12:55 – 14:00		Lunch
10	14:00 – 14:15 1 project	Schmuki, Erlangen	Photoelectrochemical water splitting based on aligned and doped nanotubes of Fe ₂ O ₃ and Ta ₃ N ₅
11	14:15 – 14:35 2 projects	Bahnemann, Hannover Wark, Bochum	Iron oxides with highly ordered mesoporosity for photoelectro-chemical oxygen formation from water
12	14:35 – 15:00 3 projects	Beller, LIKAT Rostock Brückner, LIKAT Rostock Brüser, INP Greifswald Lochbrunner, Rostock	Tuning the (magneto)optical properties of supported plasmonic metal catalysts towards high performance and stability in photo(electro)catalytic water splitting
13	15:00 – 15:20 2 projects	Heine, Bremen Mädler, Bremen	Enhanced water splitting activity through flame made heterojunctions of doped and functionalized mixed metal oxide nanoparticles predicted by combinatorial computational materials design
14	15:20 – 15:40 2 projects	Kortz, Bremen Vankova, Bremen	Highly Robust and Efficient Water Oxidation Catalysts based on Nanoscopic Metal Oxide Species (Polyoxometalates): from Fundamental Science to Devices
	15:40 – 16:10		Coffee Break
	16:10 – 19:10 18:00 – 19:00		Poster Session <i>Meeting of advisory board</i>
	19:30 – 21:00		Dinner

26th September 2014:

	07:00 – 08:30		Breakfast
	09:00 – 10:00		Organizational topics: future meetings, organization of cooperation, time table and organization of the SPP, second funding period
	10:00 – 11:00		Discussion of cooperation within the main four project areas: Photoelectrochemical systems, Photocatalytic systems, Electrocatalytic systems, Model systems
	11:00 – 11:30		Coffee break
	11:30 – 12:30		Hot topics / International Cooperation
	12:30		Lunch