

**Programme overview of 3rd Symposium of Advanced Lectures on Fundamentals for Solar Energy Conversion:
Theory and Experiment**

Aug.21-25, Dalian, China

	Aug. 21	Aug. 22	Aug. 23	Aug. 24	Aug. 25
8:30-9:05		Opening Ceremony	Plasmonic photocatalysis Part I Huaiyong Zhu	Charge transport mechanisms of ultrathin oxide separation membranes for artificial photosystems Part I Heinz Frei	Semiconductors and maximum efficiency of solar cells Thomas Dittrich
9:05-9:20		Group photo	Discussion 7	Discussion 13	Discussion 19
9:20-9:30		Break	Break	Break	Break
9:30-10:05		Overview of solar energy conversion Can Li	Plasmonic photocatalysis Part II Huaiyong Zhu	Charge transport mechanisms of ultrathin oxide separation membranes for artificial photosystems Part II Heinz Frei	Light-induced charge separation in photoactive materials Thomas Dittrich
10:05-10:20		Discussion 1	Discussion 8	Discussion 14	Discussion 20
10:20-10:40		Morning Tea	Morning Tea	Morning Tea	Morning Tea
10:40-11:15		Two-electron oxidation of water to get through the bottle neck of four-electron process Part I Haruo Inoue	自然光合作用中光能的吸收与转化机理和启示 Part I Jindong Zhao	Time-resolved FT-IR spectroscopy for unraveling mechanisms of heterogeneous photocatalyst Part I Heinz Frei	Measurement techniques of surface photovoltage signals Thomas Dittrich
11:15-11:30		Discussion 2	Discussion 9	Discussion 15	Discussion 21
11:30-11:40		Break	Break	Break	Break
11:40-12:15		Two-electron oxidation of water to get through the bottle neck of four-electron process Part II Haruo Inoue	自然光合作用中光能的吸收与转化机理和启示 Part II Jindong Zhao	Time-resolved FT-IR spectroscopy for unraveling mechanisms of heterogeneous photocatalyst Part II Heinz Frei	Selected applications of surface photovoltage techniques Thomas Dittrich
12:15-12:30		Discussion 3	Discussion 10	Discussion 16	Discussion 22
12:30-14:00		Lunch	Lunch	Lunch	Lunch
14:00-14:35	Registration	Introduction of transient absorption spectroscopy Tim Lian	Theoretical Approaches to Investigate the Photovoltaic and Thermoelectric Conversion Processes Part I Zhigang Shuai	Nanoelectrochemical techniques for studying photoelectrocatalytic processes Part I Michael V Mirkin	Understanding electrocatalysis Part I Lin Zhuang
14:35-14:50		Discussion 4	Discussion 11	Discussion 17	Discussion 23
14:50-15:10		Afternoon Tea	Afternoon Tea	Afternoon Tea	Afternoon Tea
15:10-15:45		Exciton dynamics in semiconductor nanocrystals Tim Lian	Theoretical Approaches to Investigate the Photovoltaic and Thermoelectric Conversion Processes Part II Zhigang Shuai	Nanoelectrochemical techniques for studying photoelectrocatalytic processes Part II Michael V Mirkin	Understanding electrocatalysis Part II Lin Zhuang
15:45-16:00		Discussion 5	Discussion 12	Discussion 18	Discussion 24
16:00-16:10		Break	Break	Break	Break
16:10-16:45		Photophysics of plasmonic materials Tim Lian	Lightning Presentations (selected from the posters)	Lightning Presentations (selected from the posters)	Concluding Remarks & Closing ceremony
16:45-17:00		Discussion 6			
17:00-17:30			Shuttle Bus to DIFCC	Shuttle Bus to DIFCC	
17:30-20:00		Dinner	BBQ Poster Session Group A (odd numbers)	Conference Banquet Poster Session Group B (even numbers)	Dinner
20:00		Shuttle Bus to DICP	Shuttle Bus to DICP		