

## 大连化物所因公出访事后公示表

出访人团组成员基本信息:		
姓名	部门	职务
<b>Andreas Goldbach</b>	<b>DNL1902</b>	<b>研究员</b>
实际执行情况:		
<p><b>2013.10.25</b> 大连-北京-法兰克福-卡尔斯鲁厄 中德合作高效催化制氢集成技术的研发项目讨论会</p> <p><b>2013.11.1</b>卡尔斯鲁厄-法兰克福-北京-大连</p>		
经费开支情况:		
<p>国际机票 13868元</p> <p>国际旅费 2759.08元</p>		
出访总结:		
<p>The purpose of this meeting was threefold:</p> <p>1) In depth discussions with Prof. J.-D. Grunwaldt and Dr. H. Lichtenberg from the KIT Institute of Catalysis Research and Technology (IKFT) on in situ synchrotron X-ray characterization experiments. This meeting was held on Oct. 29 and Dr. Jiafeng Yu of DICP group 1902 attended it too as she was a visiting scientist at KIT at that time. In particular we discussed the type of X-ray absorption spectroscopy (XAFS) measurements that would be carried out by Prof. Grunwaldt's group on PdCuAg membranes from DICP at the European Synchrotron Radiation Facility (ESRF) starting from November 5 this year. We further discussed about what kind of membrane and catalyst samples and measurements could be most interesting going forward and we decided to submit joint applications for synchrotron beam time at synchrotrons ESRF and ANKA (KIT) in 2014. I was also given a laboratory tour at IKFT.</p> <p>2) Research progress of the HCJRG. On Oct. 30 I met with Prof. R. Dittmeyer, Dr. Lichtenberg, Dr. Yu, Mr. F. Dallmann, and Ms. G. Cavusoglu at KIT Institute for Microprocess Engineering (IMVT) for a review of research results of our HCJRG. Ms. Cavusoglu presented first in situ synchrotron XRD measurements which she had carried out on PdCuAg membranes and a Pt/CeO<sub>2</sub> catalyst of DICP. Mr. Dallmann presented the design of an integrated micro-membrane reactor for in operando studies with synchrotron X-rays. Dr. Yu presented her studies on nanostructured alumina catalysts prepared by flame spray pyrolysis followed by a demonstration of this powerful, novel catalyst preparation method in the laboratory. I was also given a demonstration of the ink jet printing technique that is used at IMVT for coating of microreactor channels with nanostructured catalysts.</p> <p>3) Preparation and organization for the then upcoming visit of KIT partners at DICP from Dec. 8-13, and the organization of a Sino-German workshop on 'Nanostructured Materials for Hydrogen Production' on Dec. 9-10 as part of that visit. After some initial discussions with Prof. Grunwaldt and Dr. Lichtenberg on Oct. 29 I had more detail discussions with Prof. R. Dittmeyer on these topics on the following day. We identified candidates for lectures at our workshop and set the agenda for the HCJRG progress meetings following the workshop. We further agreed on research programs for two PhD students, Ms. Cavusoglu and Mr. Dallmann, for their visit at DICP between Nov. 30 and Dec. 14 this year.</p>		