

Testimonial: Research Stay in Australia through the German Academic Exchange Service (DAAD)

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Dr. Cheng Li and Yu Zhong

Macromolecular Chemistry I, University of Bayreuth

Our research stay in Melbourne was carried out between 15. Oct and 11. Nov. It consisted of three parts: (1) the GSAXS/GWAXS characterization in Australian Synchrotron Center, (2) academic communication in Bio 21 Center of University of Melbourne and (3) visiting Department of Material Science and Engineering in Monash University. From the Australian side, Prof. Udo Bach, Assoc. Prof. Chris McNeill (Monash University), Prof. Paul Mulvaney, Dr. David Jones and Dr. Wallace Wing Ho Wong (University of Melbourne) were involved, and on the German side, Prof. Sven Hüttner (University of Bayreuth) was involved.

The first purpose in Australia was to process the collaborative research on the structural characterization on perovskite material in Australian Synchrotron Center. This structural study is an important part of my doctoral research. Besides the SAXS/WAXS beamline, the center also provided us a well-equipped chemical laboratory. The scientists here were always kindly to solve the problems with the beamline. What is more, concerning the SAXS/WAXS data analysis, the discussion with Mr. Adam Welford from Assoc. Prof. Chris McNeill's group was very helpful. Without these help, it is impossible to achieve such result in so short periods. The acquired data during the research stay will be converted into scientific journal publications in the recent future.

Another important purpose was for the scientific and intellectual exchange with these groups. Our group in Bayreuth focused on the device physics of organometal halide

perovskite materials, while Prof. Udo Bach's group was expert in the perovskite crystal growth and optical/semiconductor modelling. After several talks, we had a deeper understanding of this material (perovskite) and a broadened scientific horizon. We studied on the same type of material but different aspects of it. This provided us a very good opportunity to collaborate. The work is currently under way.

The group members from Monash University and University of Melbourne gave us warm welcome. As shown in Figures, the industrial roll-to-roll flexible polymer solar cells fabrication line was demonstrated to us. Not only the academic atmosphere and by also the home-like feeling in their groups impressed us. For our research stay in Melbourne, we were financially supported by DAAD with a travel allowance. It covered our flight ticket and accommodation. Thanks for the DAAD and its staffs.

