

# IPID4all Senior Research Exchange with Carl von Ossietzky University Oldenburg)

## Feedback report

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Research Group Cascade Use  
Ammerländer Heerstr. 114-118, 26129 Oldenburg,  
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10.07.2017 – 13.07.2017

Zhong-Sheng (Simon) Liu,  
PhD Principal Research Officer  
National Research Council Canada (NRC)  
4250 Wesbrook Mall, Vancouver, BC V6T 1W5  
Canada

Host: Zhong-Sheng (Simon) Liu, PhD

Exchange topic: **Energy and Material Efficiency**

### Activities / Contacts

#### a) **Presentation** on “Linking Energy Efficiency to Material Efficiency?”

##### **Abstract:**

The talk discussed current research activities within the CCU group related to energy and material efficiency, with a strong focus on Lithium Ion batteries, fuel cells and e-waste. Material constraints and the benefit of primary raw material substitution were a strong focus of the presentation and of high interest for the Canadians.

##### **Location & Date:**

Monday, July 10<sup>th</sup> 2017 at NRC, Vancouver (via Video conference transmitted to all NRC locations within Canada)

- b) Coordination and discussion of joint activities/collaboration opportunities in the cascade use domain related to new energy vehicles (e.g. fuel cells) with Simon Liu, Qianpu Wang (both Vancouver) and Leila Ahmadi (via videoconference to the colleagues in Ottawa).
- c) Discussed additional exchange and collaboration opportunities between the individual research groups and also potential university wide collaboration in energy related fields.
- d) Meet Prof Jay Sui in Vancouver to reconnect after our joint workshop at the HWK on electro mobility.

### Future collaboration / Outlook

Both institutions will evaluate the possibility of further exchange opportunities and monitor the CfPs for possible bilateral funding opportunities for joint project proposals. Identified, that we both have a strong connection to Prof. Steven Young from UWaterloo who has already used IPID4ALL funding to visit Oldenburg.

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