



The supervisory board of the Kestcells Project announces the Seminar EMPA-04:

“Zn-based alternative buffer layers – a challenge worthwhile?”

Dates: 24th of February, 2015.

Place: Meeting room SH 521, Empa, Ueberlandstrasse 129, CH-8600 Dübendorf

Summary: Alternative buffer layers for Cu(In, Ga)Se (CIGS) solar cells based on Zn(S, O, OH) have been widely researched in the past two decades. Not only from an ecological point of view but even more so because of the wider, tunable bandgap and increased absorption in the blue wavelength region (330-550 nm) a substitute for CdS is desirable. This seminar provides an overview of the development of deposition procedures for Zn(S, O, OH) based buffers with a focus on chemical bath deposition (CBD) and the current status of research. Challenges and inherent characteristics of the layer such as the transient behavior induced by heat and light soaking and the tailoring of the conduction band offset are discussed. In an outlook the current status in our group and growth related issues based on the bath chemistry are discussed.

Program

Time	Subject	Speaker
10:30-12:00	Overview, first results and future direction for Zn – based alternative buffer layers	Johannes Löckinger (Empa)