



The supervisory board of the Kestcells Project announces the Seminar EMPA-02:

“Advanced characterization of chalcogenide thin film solar cells”

Dates: 17th of June, 2014.

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

Summary: Several unique methods for characterization of high-efficiency CIGS solar cells will be presented, which can be extended to other chalcogenide solar cells like kesterites. TEM-based valence electron energy-loss spectroscopy (VEELS), Atomic probe tomography (APT) are used to probe compositional gradients on a nanometer scale; ion-beam-induced current (IBIC) measurements in He-FIB microscope allow visualization of charge collection, whereas time-resolved PL measurements help to study dynamics of carrier recombination.

Program

Time	Subject	Speaker
13:30-14:30	VEELS, in-line holography, and APT of thin film CIGS solar cells	Debora Keller
14:30-15:15	He-FIB and IBIC of thin film CIGS solar cells	Beni Bissig
15:15-16:00	Time resolved PL, sub-band gap excitation of thin film CIGS solar cells	Fabian Pianezzi