



The supervisory board of the Kestcells Project announces the Seminar EMPA-06:

“Interface passivation at heterojunctions and grain boundaries in CIGS-based solar cells:

Current status in view of the development of novel passivation strategies”

Dates: 19th of August, 2015.

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

Summary: Efficiencies of Cu(In,Ga)Se₂ (CIGS)-based solar cells are still far from the maximum theoretical values due to optical and electronic losses. The main electronic losses are related to competing charge carrier recombination mechanisms at the front and back surfaces of the CIGS absorber layer and at the grain boundaries (GBs) within the CIGS microcrystalline structure. Several passivation strategies to reduce each recombination mechanism have been developed in recent years, leading to record cell efficiencies above 20%. This seminar reviews the state-of-art passivation strategies at surfaces, interfaces and GBs in the vision of the developing new methods to reduce carrier recombination in the near future.

Program

Time	Subject	Speaker
10:00-11:00	Interface passivation at heterojunctions and grain boundaries in CIGS-based solar cells will be reviewed as well as novel passivation strategies presented	Enrico Avancini