



The supervisory board of the Kestcells Project announces the Seminar EMPA-05:

“20% efficiency CIGS-based thin film solar cells grown by LT-PED (Low Temperature Pulsed Electron Deposition) technique”

Dates: 16th of July, 2015.

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

Summary: The "Thin Film Group" at IMEM-CNR in Parma has developed in the last few years the Pulsed Electron Deposition (PED) technique to grow CIGS-based thin film solar cells. PED exploits the non equilibrium ablation process, thus enabling the transfer of complex stoichiometry from the poly-crystalline target to the growing film, allowing the deposition of CIGS at remarkable low temperature (270 °C) in a single stage process (no post-growth selenization required). In this talk, the milestones to obtain solar cells with 20% efficiency (compositional control, alkali doping, cell processing, etc) and the ongoing activities towards both the material optimization and the large area solar cell deposition will be presented.

Program

Time	Subject	Speaker
15:00-16:30	Milestones to obtain solar cells with 20% efficiency and the ongoing activities towards both the material optimization and the large area solar cell deposition will be presented	Edmondo Gilioli, IMEM-CNR, Parma, Italy