



NCCR MARVEL — Second Experimental verification workshop **23 October 2015, 10:00 – 17:15** **Empa, Dübendorf**

We are glad to announce the second “experimental verification” workshop of the NCCR MARVEL, to be held at Empa, Dübendorf on February 23 2015.

The meeting of 2014 at PSI acted as effective ideas catalyser and the first call for “Experimental verification” MARVEL proposals led to the selection eight currently running projects.

The major aim of this workshop is to report on the existing projects from the experimental platform of Marvel (approved at the beginning of 2015) initiate future collaborations between theory groups from the NCCR and experimental groups (from PSI, EMPA and Swiss Universities) and to prepare for the call of proposals end of November 2015.

This year we will focus more on the following question: **WHAT IS THE MEANING OF “EXPERIMENTAL VALIDATION”?** The simulation-driven discovery of novel materials requires the guide of the experimental groups playing an important role not only for a “*a posteriori*” verification of the theoretical prediction, but also in suggesting important steps to be considered in the theoretical design: synthesis, contacts, experimental conditions, roadmap to application.

Participants are expected to give a short presentation (max 5 minutes) about a project idea. We expect projects ideas that are relevant to MARVEL ranging from general vague ideas to concrete plans. The projects must contribute to the experimental verification involving sample growth or characterization of NCCR MARVEL topics. Presentations can be from theory and experiment groups.

Three invited speakers will inspire the audience on this discussion line:

Rolf Erni (Electron microscopy center, Empa), Patrice Bujard (BASF; Basel), Teodoro Laino (IBM Zurich)

Tentative program:

- 10:00 P. Gröning (Empa): Welcome/Short Introduction
- 10:15 Patrice Bujard (BASF, Basel): *TBD*
- 10:45 Presentation of ongoing projects from the first call (8 projects, 10 minutes talk)
- 12:15 Lunch Break
- 13:30 Teodoro Laino (IBM, Rüschlikon): *“Computational Design of Novel Materials for Energy Storage Applications”*
- 14:00 Short talks presenting project ideas (8-10 talks by participants each about 5 minutes)
- 15:15 Coffee break
- 15:45 Rolf Erni (Empa): *“Transmission Electron Microscopy of Complex Oxides for Energy Applications”*
- 16:15 Short talks presenting project ideas (6-8 talks by participants each about 5 minutes)
- 17:15 End of the Workshop

Information

Please register via this webpage: http://indico.psi.ch/event/MARVEL_Experiment_2015

Deadline for registration: 12.10. 2015

There is no registration fee. Participants are asked to arrange themselves their travel and accommodation.

Place: Empa Dübendorf,

Room: Theodor Erismann Auditorium (VE102, Verwaltungsgebäude)

Contact: pierangelo.groening@empa.ch; daniele.passerone@empa.ch, (or frithjof.nolting@psi.ch)