



International initiative on x-ray fundamental parameters

**Third workshop to take place in Paris, France, November 29, 2010.**

The workshop will take place at Laboratoire National d'Essais (LNE), 1 rue Gaston Boissier, 75724 Paris cedex 15, (close to "Porte de Versailles"); rooms: 380-382-384.

**Workshop agenda:**

**Monday, November 29:**

- 9:30 h** Welcome coffee
- 9:45 h** **Welcome to Paris!** *M.-C. Lépy, LNE*  
**Further welcome addresses**
- 9:50 h** **Summary of the second FP workshop and EXRS2010 FP session (participants; agreements; expert groups).** *B.Beckhoff, PTB*
- 10:00 h** **Objectives of the third FP workshop.** *M.-C. Lépy, LNE*
- 10:05 h** **Advanced materials characterisation and nanotechnology: a novel need for improved fundamental parameters.** *B.Beckhoff, PTB*
- 10:20h** **Examples of measurements of some FP.** *Y. Menesguen, LNE*
- 10:35 h** **Individual statements of new participants (expectations, competences, etc.)**
- 11:00 h** Coffee break
- 11:20 h** **Internal discussion of experts groups #1 to #5; Input evaluation on survey of recent FP values among initiative contributors for group #6**
- 11:55 h** **Update report of the expert group 'Prioritisation of FP requirements (energies, elements, uncertainties)'; input generation for this topic section of a FP related road map,** *C. Jeynes, U Surrey*

- 12:25 h** **Specific challenges for FP determinations (chemical binding states, complex excitations, methodologies for CK and fluorescence yields)**  
*T. Papp, Inst. of Nuclear Research of the Hungarian Academy of Sciences*
- 12:40 h** **Update report of the expert group ‘Experimental facilities (need for improved instrumentation)’; input generation for FP related road map: survey on facilities and examples in view of first FPs of interest,**  
*M.-C. Lépy, LNE*
- 13:10 h** Lunch buffet
- 13:55 h** **Moderated discussion on expert group ‘Theory & codes – challenges: competent use and update of existing software’ issues;**
- 14:25 h** **Update reports of the expert group ‘Compilations (need for new strategies), data processing’; completion of material and discussion on road map input,** *J.L. Campbell, U Guelph, and P. Caussin, Bruker AXS*
- 14:55 h** **Short report of the expert group ‘Definition of technical terms’ (National Metrology Institutes) and road map input,** *B. Beckhoff, PTB*
- 15:05 h** **Input generation by survey on recent FP values for the expert group ‘Establishment of common data base accessible to the public’ and road map generation,** *M. Mantler, TU Wien*
- 15:30 h** Coffee break
- 15:45 h** **Continuing a common project (moderation B. Beckhoff, PTB- T. Jach, NIST- M.-C. Lépy, LNE and M. Mantler, TU Wien):**
- **Task update for expert groups (process of road map generation)**
  - **Discussion of financial applications (EU FP7, EMRP, national science foundations, etc. )**
  - **Coordination of activities**
- 16:40 h** **Follow-up activities of the FP initiative,** *T. Jach, NIST*
- 16:50 h** **Conclusions and summary of next steps,** *M.-C. Lépy, LNE*
- 17:00 h** 5’ walking to Mercure Hotel (near LNE) for aperitif

**Tuesday, November 30:**

- 10:00 h** Visit at SOLEIL synchrotron radiation facility