



4th International Workshop on X-ray Fundamental Parameters

Building 215 Room C103.
National Institute of Standards and Technology ([NIST](http://www.nist.gov)),
Gaithersburg, MD, USA, July 28 - 29, 2011

Workshop agenda:

Thursday, July 28:

- 9:00 h** Welcome to Gaithersburg *T. Jach, NIST*
- 9:05 h** Introductory address *Michael Mantler, TU Vienna & Rigaku Corp.*
- 9:15 h** Invited contribution, “*The current status of the Absorption Database*”,
Tim Elam, University of Washington,
- 9:45h** Invited contribution, “*The CXRO database and Fundamental Parameter work*”,
Eric Gullikson, Center for X-ray Optics, Lawrence Berkeley Laboratory
- 10:15 h** Invited contribution, “*Precision X-ray Energy measurements at NIST*”,
Larry Hudson, NIST
- 10:45 h** Coffee break
- 11:15 h** Invited contribution, “*X-ray Fundamental Parameter Work at PTB*”,
Matthias Müller, PTB
- 11:45 h** Invited contribution, “*X-ray Fundamental Parameter Work in Japan*”,
Jun Kawai, University of Kyoto
- 12:15 h** Invited contribution, “*X-ray Fundamental Parameter Work in Australia*”,
Jack Glover, University of Melbourne and NIST
- 12:45 h** Lunch buffet

- 13:30 h** Summary of the third FP workshop in Paris (participants; agreements; expert groups). *M.-C. Lépy, LNE*
- 13:50 h** Objectives of the fourth FP workshop. *B. Beckhoff, PTB*
- 14:10 h** Update report of the expert group 1 ‘Prioritisation of FP requirements (energies, elements, uncertainties)’; status of this topic section of the FP related road map, *B. Beckhoff, PTB*
- 14:30 h** Update report of the expert group 2 ‘Experimental facilities (need for improved instrumentation)’; status of this topic section of the FP related road map: survey on facilities and examples, *M.-C. Lépy, LNE*
- 14:50 h** Coffee break
- 15:10 h** Update report on expert group 3 ‘Theory & codes – challenges: competent use and update of existing software’ issues; status of this topic section of the FP related road map, *P. Indelicato, ENS*
- 15:30 h** Update report of the expert group 4 ‘Compilations (need for new strategies), data processing’; status of this topic section of the FP related road map, *V. Kobyltchak, Bruker AXS Handheld*
- 15:50 h** Short report of the expert group 5 ‘Definition of technical terms’ (National Metrology Institutes) and road map status, *T. Jach, NIST*
- 16:00 h** Input generation by survey on recent FP values for the expert group 6 ‘Establishment of common data base accessible to the public’ and road map input, *M. Mantler, TU Vienna & Rigaku Corp.*
- 16:10 h** Individual statements of new participants (expectations, competences, etc.)
- 17:00 h** Directions for dinner
- 17:30 h** Board Shuttle to Metro to conference dinner in DC
- 19:00 h** Conference dinner in DC

Friday, July 29:

- 9:00 h** **Current industrial priorities for FPs, *J. Hoszowska, U Fribourg***
- 9:20 h** **Project proposals with respect to industrial priorities for FPs, *J. Hoszowska, U Fribourg***
- 9:40 h** **Statements of x-ray companies with respect to FP priority project proposals, *Bruker AXS, Oxford Instruments, PANalytical, Rigaku and others***
- 10:00 h** **Coffee/split up into expert groups**
- 10:15 h** **Individual Discussions of expert groups**
- 10:45 h** **Continuing a common project (moderators: *T. Jach, NIST; M.-C. Lépy, LNE; B. Beckhoff, PTB and M. Mantler, TU Vienna & Rigaku Corp.*):**
- **Task update for expert groups (process of road map updating)**
 - **Discussion of financial applications (US, Japan, EU, national science foundations, etc.)**
 - **Coordination of activities**
- 12:00 h** **Follow-up activities of the FP initiative, *B. Beckhoff, PTB***
- 12:15 h** **Conclusions and summary of next steps, *T. Jach, NIST***
- 12:30 h** **End of Workshop. Lunch available at the NIST Cafeteria**