



International initiative on x-ray fundamental parameters

8th workshop, Lisbon, Portugal, April 16-17, 2015

Thursday, April 16

14:00 Welcome to Lisbon *José Paulo Santos (U. Nova Lisboa)*

Welcome to FCT-UNL *Fernando Santana (Dean of the FCT-UNL)*

14:10 Objectives of the workshop *Burkhard Beckhoff (PTB)*

14:20 Summary of the 2014 FP workshop at Paris *Marie-Christine Lépy (LNHB)*

Report of funded projects

14:30 EMRP projects IND07, NEW01 and ENG53 *Burkhard Beckhoff (PTB)*

Industrial collaborative project *Matthias Müller (PTB)*

Scientific and technical presentations

14:50 Comparison between new and old $I(K\beta)/I(K\alpha)$ intensity ratios for elements in the range $12 < Z < 34$ *Joanna Hozowska (Univ. Fribourg)*

15:10 Novel self-consistent method to determine the instrumental broadening of a Laue-type crystal spectrometer *Jean-Claude Dousse (Univ. Fribourg)*

15:30 Soft x-ray emission spectrometry for FP determinations *Matthias Müller (PTB)*

15:50 X-ray energy metrology using superconducting microcalorimeter arrays: a test campaign on lanthanide L lines *Joel Ullom (NIST)*

16:15 Coffee break

16:40 Measurement of the L fluorescence yields of bismuth *Yves Ménesguen (LNE-LNHB)*

17:00 Recent FP related activities of PTB in EMRP *Philipp Hönicke (PTB)*

17:20 Improved calculations of fundamental atomic parameters *José Marques / J. Sampaio (Univ. Lisboa)*

17:45 Presentation of recent developments in Ion Beam Analysis (synergistic particle-induced X-ray emission and elastic particle backscattering - PIXE and EBS)
Chris Jeynes (Univ. Surrey)

18:05 Webpage and publication database - updates and follow-ups *Michael Kolbe (PTB)*

18:30 Bus to Excursion and Dinner

Friday, April 17

9:00 Update process of the FP roadmap based on expert group results at recent FP workshops (see FP board for details) – part I

Suggestion on procedure for the roadmap update, Burkhard Beckhoff (PTB)

Project management and fund raising (group 1)

Summary on previous work B. Beckhoff (PTB)

New experimental determinations and methodology (group 2)

Summary on previous works M.-C. Lépy (LNHB)

Joint discussion and generation of roadmap update

Details on the fitting of an energy dispersive high resolution XMS-PIXE UO₂ M-shell spectrum (M. A. Reis, C2TN)

Ad-hoc input by workshop attendees

10:20 Coffee break

10:40 Update process of the FP roadmap based on expert group results at recent FP workshops (see FP board for details) – part II

Theory & codes – challenges: competent use and update of parameters – (group 3)

Summary on previous works José Paulo Santos (Univ. Nova Lisboa)

Comparison between theoretical and experimental data Mauro Guerra (Univ. Nova Lisboa)

Joint discussion and generation of roadmap update

Ad-hoc input by workshop attendees

Integration of new experimental as well as theoretical parameters into critically evaluated compilations (group 4)

Summary on previous works Burkhard Beckhoff (PTB)

Joint discussion and generation of roadmap update

Ad-hoc input by workshop attendees

12:30 Lunch

14:00 Continuing a joint project Moderator: Michael Mantler (Rigaku)

Discussion on activities, priorities and funding options

14.50 Follow-up events and FP workshops B. Beckhoff and M.-C. Lépy

15:00 Conclusions and summary B. Beckhoff and J. P. Santos