

JOINT FINAL CONFERENCE OF COST ACTIONS IE0601 and MP0601
14-18 November 2011
Research Centre of the Polish Academy of Sciences in Paris, rue Lauriston 74
Dedicated to the memory of Professor Zsolt Kajcsos (1946-2011)

IE0601 *Wood Science for Conservation of Cultural Heritage* 14–15 November
 Joint Session *Photon Technologies for Conservation of Wooden Cultural Heritage*
 16 November

MP0601 *Short Wavelength Laboratory Sources* 17–18 November
 Organizers for COST Action MP0601: Janusz Lekki & Alan Michette

Preliminary Programme for COST Action MP0601

16 November	Joint Session <i>Photon Technologies for Conservation of Wooden Cultural Heritage</i>	
09.00 – 09.15	In memory of Professor Zsolt Kajcsos	
09.15 – 10.45	Session managed by Action IE0601	Including a report on synergy activity by the Actions' Chairs
10.45 – 11.15	Coffee break	
11.15 – 12.30	Session managed by Action MP0601	2 oral presentations [‡]
12.30 – 14.00	Lunch	
14.00 – 18.00	Visits*	
20.00	Conference dinner during a cruise on the Seine	
17 November		
09.00 – 11.00	Registration and Poster Session, with coffee at 10:30	
11.00 – 11.45	Keynote talk by External Evaluator	
11.45 – 12.35	Oral presentations, session I	2 presentations [¶]
12.35 – 13.45	Lunch	
13.45 – 15.25	Oral presentations, session II	4 presentations [¶]
15.25 – 16.00	Coffee break	
16.00 – 17.40	Oral presentations, session III	4 presentations [¶]
18 November		
09.00 – 10.40	Oral presentations, session IV	4 presentations [¶]
10.40 – 11.10	Coffee break	
11.10 – 12.50	Oral presentations, session V	4 presentations [¶]
12.50 – 14.00	Lunch	
14.00 – 15.30	Evaluation session A	
15.30 – 16.00	Coffee break	
16.00 – 17.30	Evaluation session B	

[‡]30 minutes plus 5 minutes for questions. See next page for details.

* Participants can select one of the following three visits:

- Centre de Recherche et Restauration des Musées de France, le Louvre
- Cité de la Musique
- Synchrotron SOLEIL in Saclay

[¶]20 minutes plus 5 minutes for questions. See following pages for details.

Wednesday 16 November

Joint Session *Photon Technologies for Conservation of Wooden Cultural Heritage*

IE0601_1 E.H. Lehmann, D. Mannes, K. Hunger, M. Wörle, S. Braovac, H. Kutzke, M. Christensen *Wood investigations by means of radiation transmission techniques in the analysis of cultural heritage objects of different size scale.*

IE0601_2 Jan Van den Bulcke, Denis Van Loo, Manuel Dierick, Matthieu Boone, Bert Masschaele, Yoni De Witte, Kristof Haneca, Koen Deforce, Maaïke De Ridder, Wannes Hubau, Hans Beeckman, Luc Van Hoorebeke, Joris Van Acker *Multi-resolution x-ray tomography for multi-purpose use in cultural heritage.*

IE0601_3 Łukasz Bratasz *High resolution x-ray radiography for monitoring wood impregnation.*

11:15-12:20 MP0601_1 Alexei Erko *Nanometre optics technologies at Helmholtz Centre Berlin*

12:20-12:55 MP0601_2 Jeremy Frey *X-ray imaging and phase reconstruction with HHG sources*

Thursday 17 November

Posters (09:00-11:00, during Registration and Coffee)

Przemysław Wachulak *A 50nm spatial resolution EUV imaging using incoherent, desk-top plasma source*

Vladimir Ac *Advanced simulations of heat load at photon and electron interactions with the matter*

Sebastian Bozek *Cultured cells irradiation with X-ray microprobe – biological experiment and numerical simulations of the dose*

Ivan Yakimchuk *Ellipsoidal concentrators for laboratory x-ray sources: analytical optimization*

Vasily Zakharov *EUV and soft X-ray spectral modeling for nonequilibrium gadolinium plasma*

Veronika Pickova, Radka Havlíková, Ladislav Pina *Focusing EUV radiation from the capillary discharge source*

Jakub Bielecki *Investigations of complex structures by means of the x-ray computed microtomography method*

Jesus Alvarez Ruiz *Synchrotron X-ray photoabsorption spectroscopy of plasmas*

Robert Mroczka *X-ray capillaries with a lacquer-metal internal bilayer for focusing hard X-rays*

Niksa Krstulovic, Robert Stefanuik *X-ray emission from plasma induced by dual pulse laser ablation with the ns and fs pulses*

Thursday 17 November

Session I (Chair: Alan Michette)

11:00-11:45 Keynote Lecture Anatoly Snigirev *15 years of X-ray refractive optics*

11:45-12:10 I_1 Francois De Gaufridy de Dortan *Progress in the simulation of short wavelength sources during the 5 years of COST MP0601*

12:10-12:35 I_2 Alexander Vinogradov *Reflection imaging of objects coherently illuminated at grazing angles*

Session II (Chair: Davide Bleiner)

13:45-14:10 II_1 Paolo Di Lazzaro *Mitigation and selection of ion and particulate emission from laser-plasma sources used for extreme ultraviolet lithography sources*

14:10-14:35 II_2 Klaus Mann *NEXAFS spectroscopy with table-top XUV source*

14:35-15:00 III_3 Takeshi Higashiguchi *Extreme ultraviolet alkali metal source at 40 nm*

15:00-15:25 II_4 Vladimir Zvorykin *Powerful X-ray source on the basis of CW 600-keV electron LINAC*

Session III (Chair: Dusan Korytar)

16:00-16:25 III_1 Michela Fratini *Towards an advanced X-ray source based on field emitting carbon nanotubes cold cathode: latest updates*

16:25-16:50 III_2 Larissa Juschkin *Investigation and optimisation of spatial and spectral characteristics of EUV emission from laser assisted vacuum arc*

16:50-17:15 III_3 Sergey Bobashev *Photoionization devices for diagnostic of X-ray intensive radiation*

17:15-17:40 III_4 Matthew Shand *Development and characterization of optical elements for soft X-ray micro-probing and microscopy*

Friday 18 November

Session IV (Chair: Stefano Lagomarsino)

09:00-09:25 IV_1 Peter Hoghoj *Grazing incidence aspheric and multilayer coated optics for x-ray sources*

09:25-09:50 IV_2 Piergiorgio Nicolosi *Multilayer coatings for Space applications*

09:50-10:15 IV_3 Johannes Hauck *Characterization and optimization of an imaging micro-channel plate EUV detector with high temporal resolution*

10:15-10:40 IV_4 Stefan Herbert *Novel CMOS detector design for fast imaging applications in the extreme ultraviolet*

Session V (Chair: Leszek Ryc)

11:10-11:35 V_1 Serhiy Danylyuk *EUV interference lithograph with partially coherent sources*

11:35-12:00 V_2 Boris Roshchin *Laboratory X-ray reflectometer for liquid interfaces investigation*

12:00-12:25 V_3 Ruben Seisyan *The two pulses two colour system of EUV radiation LPP source and of 4m Bragg mirror lens for laboratory EUV lithography tool: Development of the ISTC project #3857*

12:25-12:50 V_4 Kai Sven Schulze *Time-resolved experiments with a laser-driven x-ray diode*

Friday 18 November

Evaluation Session A

This session is open to all participants.

14:00-14:15 ES_1 Francois De Gaufridy de Dortan *Summary of WG1 activities* (10 minutes + 5 minutes discussion)

14:15-14:30 ES_2 Andrzej Bartnik (substituting for Henryk Fiedorowicz) *Summary of WG2 activities* (10 minutes + 5 minutes discussion)

14:30-14:45 ES_3 Ladislav Pina *Summary of WG3 activities* (10 minutes + 5 minutes discussion)

14:45-15:00 ES_4 John Costello (substituting for Gerry O'Sullivan) *Summary of WG3 activities* (10 minutes + 5 minutes discussion)

15:00-15:30 ES_5 Alan Michette *General summary, including STSMs, publications, the final book, follow-on activities* (20 minutes + 10 minutes discussion)

Evaluation Session B

16:00-17:30

Attended by the MC members, the external Evaluators and the COST Office representatives.

Financial report from the COST Office, comments and questions from the DC Rapporteur and the external Evaluators, general discussion, future plans including final reporting requirements and deadlines.