

# 1<sup>st</sup> IRUVX-PP Annual Meeting

09 – 13 March 2009, Trieste/IT

Monday, 9 <sup>th</sup> March	09.00 - 18.00	II. Timing and Synchronization workshop
Tuesday, 10 <sup>th</sup> March	09.00 - 13.30	Workshop on Frontiers of FEL Technology
Tuesday, 10 <sup>th</sup> March	16.30 - 18.30	<b>1<sup>st</sup> IRUVX-PP Annual Meeting</b> "A bright future for European FELs" (open for the interested public)
Wednesday, 11 <sup>th</sup> March	08.30 - 13.20	
Wednesday, 11 <sup>th</sup> March	14.20 - 18.20	<b>1<sup>st</sup> IRUVX-PP Annual Meeting</b> Internal sessions
Thursday, 12 <sup>th</sup> March	09.00 - 18.30	
Friday, 13 <sup>th</sup> March	09.00 - 15.30	

## II. Timing and Synchronization workshop

Monday

9<sup>th</sup> March 2009

- 09:00 **Welcome**  
A. Gallo, INFN-LNF
- 09:10 **Installation, commissioning and operation of the master laser oscillator at FLASH**  
P. Gessler, DESY
- 09:30 **Specification of the FERMI@Elettra optical hybrid timing system**  
M. Ferianis, Sincrotrone Trieste - Elettra
- 09:50 **Layout and specification of the synchronization system for SPARC-X**  
M. Bellaveglia, INFN-LNF
- 10:10 **Layout of the PSI-XFEL synchronization system and latest results**  
S. Hunziker, PSI
- 10:30 **Layout of the synchronization system for the NLS (incl. experience with fiber laser system at the ERL)**  
S. Jamison / G. Hirst, STFC
- 10:50 *Coffee break*
- 11:20 **Synchronization of Ti:Sapphire lasers to the optical reference system**  
V. Arsov, DESY
- 11:40 **Latest results on laser synchronization at Elettra**  
M. Danailov / P. Sigalotti, Sincrotrone Trieste - Elettra
- 12:00 **Options and performance of laser to RF conversion schemes**  
F. Ludwig/ P. Gessler, DESY
- 12:20 **Precision timing distribution for LCLS laser synchronisation**  
R. Wilcox/J. Byrd, LBL
- 12:40 *Lunch*
- 14:15 **Challenges on a BAM implementation in an accelerator**  
F. Loehl, DESY
- 14:35 **Required infrastructure for the implementation of an optical synchronization system**  
A. Winter, ITER
- 14:55 **New developments and missing components of an optical synchronization system**  
H. Schlarb, DESY
- 15:15 *Coffee Break*
- 15:45 **Discussion:  
Engineering of main components and global T&S system implementation over large scales issues**  
*Convener: N.N*
- 17:45 **Conclusions**

## Workshop on Frontiers of FEL Technology

Tuesday  
Room: Kastler10<sup>th</sup> March 2009

- 08:30 **Start Registration**
- 09:00 **Welcome**  
L. Badano, Elettra  
K.Tiedtke, DESY
- 09:15 **Start-to-end simulation: from the source to the experiment**  
M. Bowler, STFC
- 09:45 **Characterisation of LASER beams ( $M^2$  values, wavefront measurements, etc)**  
K. Mann, LASER LAB Göttingen
- 10:15 **Femtosecond streak camera**  
J. Larsson, MAX-lab
- 10:45 **Critical review on photon arrival time detectors**  
M. Meyer, LIXAM, Université Paris-Sud
- 11:15 *Coffee Break*
- 11:35 **Photon detector development (1D/2D)**  
H. Graafsma, DESY/XFEL
- 12:05 **EMI/EMC electro-magnetic interference and compatibility**  
H. Kapitza, DESY
- 12:35 **Summary of the workshop 'II Timing and Synchronization'**  
T. Quast, HZB
- 13:05 **WP3 status of the expert groups**  
C. Gerth, DESY
- 13:30 *Lunch*

**1<sup>st</sup> IRUVX-PP Annual Meeting**  
**"A bright future for European FELs"**  
 (open for the interested public)

**Tuesday**

**10<sup>th</sup> March 2009**

PLENARY SESSION I  
 Room: Kastler

Chair: C. Rizzuto

- 16:30 **Welcome**  
 J. Feldhaus, DESY  
 C. Rizzuto, Elettra
- 16:40 **FERMI@ELETTRA**  
 S. Milton, Elettra
- 17:10 **The EuroFEL RI**  
 J. Feldhaus, DESY
- 17:40 **Specification and Science Case of the UK New Light Source Project**  
 J. Marangos, STFC
- 18:30 *Reception*  
*Supported by FERMI@Elettra*



**Wednesday**

**11<sup>th</sup> March 2009**

PLENARY SESSION II  
 Room: Kastler

Chair: E. Seddon

- 08:30 **Welcome**
- 08:40 **The PSI-XFEL Scientific Case: 700 eV - 14.4 keV**  
 B. Patterson, Paul-Scherrer-Institute
- 09:10 **Latest news from LCLS**  
 D. Fritz, SLAC
- 09:40 **Lasers and X-rays**  
 W. Sandner, Max-Born-Institute
- 10:10 *Coffee Break*  
*Supported by Instrumentation Technologies*



PLENARY SESSION III  
 Room: Kastler

Chair: C. Bochetta

- 10:30 **Operation of FELs – FLASH**  
 S. Schreiber, DESY
- 11:00 **FEL application: Highly charged ions**  
 J. Crespo, Max-Planck-Institut für Kernphysik
- 11:30 *Coffee Break*

PLENARY SESSION IV  
 Room: Kastler

Chair: U. Möller

- 11:50 **Experience of industry**  
 T. Cross, e2v technologies
- 12:20 **ERI in ERA**  
 U. Krell, DESY
- 12:50 *Lunch*

1<sup>st</sup> IRUVX-PP Annual Meeting

## Internal sessions

(closed session)

Wednesday

11<sup>th</sup> March 2009

## PLENARY SESSION I

Room: Kastler

- 14:20 **Status of the project**  
J. Feldhaus, U. Krell, M. Kreuzeder
- 14:50 **WP1 - aims and first findings**  
WP1/A. Wrulich
- 15:10 **Discussion on first findings**
- 15:30 *Coffee Break*

## PARALLEL SESSIONS I

- |   |   |
|---|---|
| <p>16:20 <b>WP2 – User Needs and Policies</b> (Room: Lundqvist)<br/>O. Schwarzkopf, BESSY</p> <ul style="list-style-type: none"> <li>• Status of the Project</li> <li>• Scan Science Cases</li> <li>• Review on Access Policies &amp; Panels</li> <li>• Refinement Access Policy / Link to ESRF UP WP9</li> <li>• Next Steps</li> <li>• Next Meetings</li> <li>• AOB</li> </ul> | <p><b>WP7 – Photon Beamlines and Experiments</b><br/>(Room: De Nardo), K. Tiedtke, DESY</p> <ul style="list-style-type: none"> <li>• Welcome &amp; introduction</li> <li>• Presentation of each facility: <ul style="list-style-type: none"> <li>MAX-LAB (NN)</li> <li>DESY (P. Juranic)</li> <li>STFC (NN)</li> <li>ELETTRA (NN)</li> <li>BESSY (NN)</li> </ul> </li> <li>Contribution from INFN, CNR, POLFEL, PSI and/or different topics</li> <li>• Project Management <ul style="list-style-type: none"> <li>Updated implementation plan</li> <li>1st periodic report</li> <li>Next WP7 meeting</li> </ul> </li> <li>• Summary</li> </ul> |
|---|---|

18:20 *Closure of Day 2*

## CLOSED SESSION

- 18:30 **General Assembly Meeting**
- 20:30 *Planned End of General Assembly Meeting*

PARALLEL SESSIONS II

09:00	<p><b>WP1 – Construction of the IRUVX-FEL Consortium</b> (Room: Lundqvist), A. Wrulich, Elettra</p> <ul style="list-style-type: none"> <li>• Status of Consortium Development, <i>A.F. Wrulich</i></li> <li>• The EuroFEL possible Legal Framework, <i>M. Gliarelli-Fiumi</i></li> <li>• Implementation Plan and Meeting schedule, <i>F. Mazzolini</i></li> <li>• Input required from other WPs and Discussion, <i>A.F. Wrulich</i></li> </ul>	<p><b>WP3 – Coordination and Consolidation of Joint Technical Developments</b> (Room: De Nardo), G. Hirst, STFC</p> <ul style="list-style-type: none"> <li>• First activities of expert groups - How is the start up?</li> <li>• Planned activities for the first 6 months - contributions from EG members</li> <li>• The WP3 Wiki - First experiences</li> <li>• Travelling of expert group members: Questions and answers</li> <li>• Upcoming Milestones and Deliveries WP3</li> <li>• Planning of Intermediate Report Meeting (D3.3, month 18)</li> </ul>	<p><b>WP8 – FEL Source</b> (Room: Kastler), L. Badano, Elettra</p> <ul style="list-style-type: none"> <li>• Task 8.1 (Patrick Gessler) Next steps Staffing Face-to-face meetings Input from other WPs Discussion and questions</li> <li>• Discussion on components industrialization</li> </ul>
-------	--	--	---

11:00 *Coffee Break*

PARALLEL SESSIONS III

11:30	<p><b>WP4 – Development of Human Resources</b> (Room: De Nardo), S. Svensson, MAX-lab</p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Problems in Mobility for researchers", <i>Laura Strazzeri</i></li> <li>• Discussions of the situation for WP4.1-4.5</li> <li>• Concluding discussion of the future work of the WP4</li> </ul>	<p><b>WP5 – Communication and Dissemination</b> (Room: Lundqvist), U. Krell, DESY</p> <ul style="list-style-type: none"> <li>• Corporate identity for EuroFEL</li> <li>• Website/ Picture database</li> <li>• Joint dissemination activities</li> <li>• Interaction with other WPs</li> <li>• Workplan for project year 2</li> <li>• Next steps</li> </ul>	<p><b>WP6 – Collaboration with Industry</b> (Room: Kastler), S. Webb, STFC</p> <ul style="list-style-type: none"> <li>• Overview of work progress and problems with cross-check to implementation plan</li> <li>• WP6.1 in detail - critical suppliers - report due April 09</li> <li>• Communications with industry and workshops</li> </ul>
-------	--	--	---



- Face-to-face meetings
- Input requirements from other WPs
- Next steps

13:30

*Lunch*

PLENARY SESSION II  
(Room: Kastler)

14:30

**Status of the design of the UK's New Light Source**  
R. Walker

SPECIAL SESSION  
(Room: Kastler)

15:30

**5DM-EUFELL and joint dinner**

23:00

*Return at ICTP*

## PARALLEL SESSIONS IV

09:00	<p><b>WP8 – FEL Source</b> (Room: Kastler), L. Badano, ELETTRA</p> <ul style="list-style-type: none"> <li>Task 8.2 Progress and cross-check with implementation plan Next steps Staffing Face-to-face meetings Input from other WPs Discussion and questions</li> <li>Task 8.3 Progress and cross-check with implementation plan Next steps Staffing Face-to-face meetings Input from other WPs Discussion and questions</li> </ul>	<p><b>Joint meeting of WP1, WP2, WP4, WP5, WP6</b> (Room: Lundquist), Participants: WP Leaders</p>	<p><b>WP3- Expert Group Meeting – “Photon beam transport and diagnostics” (closed session)</b> (Room: De Nardo), M. Zangrando</p> <ul style="list-style-type: none"> <li>Welcome and Introduction, <i>M. Zangrando</i></li> <li>Various mechanisms of XUV/X-ray damage to material, <i>L. Juha</i></li> <li>Overview on the Optical Propagation Code, <i>P. van der Slot</i></li> <li>Recent results of the autocorrelator at FLASH, <i>R. Mitzner</i></li> <li>Multilayers at FOM and damage mechanisms studied at FLASH, <i>E.Louis</i></li> <li>Activities of the Expert Group – Discussion: <ul style="list-style-type: none"> <li>- <i>Status of the workplan</i></li> <li>- <i>Organisation of the</i></li> <li>- <i>Wavefront Propagation Workshop: program and period</i></li> <li>- <i>Possible beamtimes at FLASH (damage studies)</i></li> </ul> </li> <li>Summary</li> </ul>
11:00	<i>Coffee Break</i>		
	<b>PLENARY SESSION III</b> (Room: Kastler)		
11:30	<b>Summary of WP1 – WP8 Meetings</b>		
12:30	<b>Conclusions and next steps</b> J. Feldhaus, DESY		
12:45	<i>Closure of Meeting</i>		



