

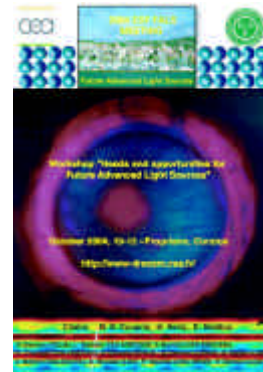


**ESF Meeting 2004**  
**Network on Future Advanced Light Sources (FALS)**  
**Workshop : “Needs and opportunities for**  
**Future Advanced Light Sources”**  
**Program**



**Saturday Oct. 9, 2004**

Saturday, the 9th, AF 7574 15h55 Orly- Ajaccio 17h30  
17:45 Bus for Propriano  
19:45 Registration  
20:30 Welcome aperitif and dinner



**Sunday Oct. 10, 2004**

**12:15 : Lunch**

**13:45: Welcome and Opening:** M. E. Couprie, H. Hertz, E. Seddon

**Session 1: Sources: Chair M.E. Couprie, Assistant G. Lambert**

- 14:00- 14:45 "SASE, seeding and HGHG schemes for the next generation FEL light sources" L. Giannessi (ENEA, Italy)  
14:45- 15:30 "Synchrotron radiation from third generation storage ring and ERLs" M. Eriksson (Max Lab, Sweden)  
15:30-16:15 "Harmonics produced in gas jets M. Uiberacker (Vienna Univ., Austria)  
16:15-16:45 Coffee break

**Chair : G. Jamelot, Assistant : G. Lambert**

- 16:45-17:30 "Laser driven soft x-ray laser sources : status and projects" S. Sebban (LOA, France)  
17:30-18:15 "Compact laboratory x-ray sources" U. Vogt (KTH/Stockholm, Sweden)

**Parallel Meetings**

- 18:30-20:00 **Chair : H. Bachau:**  
Work on the Booklet preparation presenting the different sources.

Participants: Session 1 speakers, Sub-local committee animated by H. Bachau, Round Table animators, everyone welcome

- 18:30-20:15 Steering Committee Meeting  
20:15 Dinner

## Monday Oct. 11, 2004

### • *Session 2: Biology and Chemistry, Chair E. Seddon, assistant : G. Dolan*

- 8:30-9:00 "Time resolved solution chemistry" A. Plech (Univ. Konstanz, Germany)  
9:00-9:30 "Biological X-ray microscopy" G. Schneider (Bessy, Germany)  
9:30-10:00 "Opportunities for the study of biological molecules using Advanced Light Sources" P. Weightman (Liverpool, United Kingdom)

10:00-10:30 Coffee break

### *Session 3: Optics and detectors, Chair : M. Meyer, assistant : M. Gisselbrecht*

- 10:30-11:15 "EUV/Soft X ray optics: Trends and challenges" T. Feigl (IOF, Germany)  
11:15-12:00 "X-ray optics for imaging and lithography experiments" Ch. David (PSI, Switzerland)  
12:00-12:45 "Laser-induced processes in semiconductors probed by X-rays on the femtosecond and picosecond timescale" J. Larsson (Lund, Sweden)

12:45-13:45 Lunch

13:45-15:00 Break

### *Session : Atomic and Molecular Physics, Plasma Physics, Chair : L. Nahon, assistant : M. Gisselbrecht*

- 15:00-15:40 "Time resolved Dynamics in polyatomic molecules with VUV pulses" V. Blanchet (IRSAMC, France)  
15:40-16:20 "Exploring high atomic and molecular excitation with intense coherent short-wavelength radiation." P. Lambropoulos (IESL/FORTH, Greece)  
16:20-17:00 "Interaction of intense VUV radiation with rare gas atoms and clusters" H. Wabnitz (CEA, France)  
17:00-17:40 "Plasma generation and probing with XUV sources" E. Kennedy (Dublin City University, Ireland)

17:40-18:15 Coffee break

18:15- 19:30 Round table on techniques (specificities, sources requirements, domains of applications, future developments). **Chair: E. Seddon**

Preparation of a list of available techniques for the booklet

X-ray diffraction, X-ray microscopy, Photo-electron spectroscopy/microscopy (XPEEM type)...

20:00 Banquet

**Tuesday Oct. 12, 2004**

***Session 5: Material, surface science and chemistry, Chair : I. Lindau, Assistant W. Boutou***

- 8:15-8:45 "Probing electronic relaxation in solids with Ultrashort VUV pulses"  
S. Guizard (LSI/CELIA, France)
- 8:45-9:15 "Ultrafast phase transition probed by X-rays" D. Boschetto (LOA, France)
- 9:15-9:45 "Spectromicroscopy : recent achievements and new projects" M. Kiskinova  
(ELETTRA, Italy)
- 9:45-10:15 "Magnetic properties of materials" H. Cruguel (LURE, France)
- 10:15-10:30 Coffee break

***Session 6: Applications, Chair H. Hertz, assistant W. Boutou***

- 10:30-11:15 "EUV Lithography" W. Neff (Fraunhofer- Aachen; Germany)
- 11:15-12:00 "Medical imaging and radiotherapy" A. M. Charvet (ESRF, France)

12:00-12:15 Conclusions, I. Lindau

12:15-13:00 Lunch

13:00 Bus departure

Possible flight to Paris: AF7569 Ajaccio, 15h35- Paris Orly 17h15

