

## ACTOP08 program

Wednesday Oct. 8		
17:00 – 19:00	Registration	AGH terrace
18:00 – 20:00	Welcome drink	AGH terrace
Thursday Oct. 9		
8:30 – 9:10	Registration	Conference hall
9:10 – 9:20	Opening Remarks (D. Cocco)	Giambiagi hall
9:20 – 9:35	Welcome Address (A. Franciosi)	“
Section 1. Free Electron Laser needs Chair M. Roper		
9:40 – 10:10	K. Tiedtke <i>The Quest for the perfect focus for high power density XUV and X-Ray beams: Experience from FLASH</i>	Giambiagi hall
10:10 – 10:30	H. Sinn <i>Requirements for bimorph mirrors at the European XFEL</i>	“
10:30 – 11:00	M. Zangrando <i>The FERMI@Elettra beamlines. From diagnostics to microfocusing.</i>	
11:00 – 11:40	Coffee break	AGH Terrace
Section 2. Bimorph mirrors on SR beamlines Chair R. Signorato		
11:40 – 12:10	P. Quinn <i>Bimorph mirrors: Performance and optimization on the microfocus spectroscopy beamline at Diamond</i>	Giambiagi hall
12:10 – 12:30	M. Cautero <i>New high voltage control system for bimorph bending mirrors Performance and applications</i>	“
12:30 – 12:50	A.J. Dent <i>Overview of Bimorph Mirrors at Diamond Light Source</i>	“
12:50 – 14:40	Lunch	AGH Terrace
Section 3. Sponsor section Chair I. Cudin		
14:40 – 15:00	F. Ciceri, P.I. S.r.l. <i>From piezo actuators to piezo walk drives, PI solutions serving active optics designers</i>	Giambiagi hall
15:00 – 15:20	F. Hertlein, Incoatec GmbH <i>State-of-the-art thin film X-ray optics for synchrotrons and FEL sources</i>	“
15:20 – 15:40	H. Thiess, Carl Zeiss Laser Optics GmbH <i>Fabrication of freeform mirrors: metrology and figuring</i>	“
15:40 – 16:00	Bruno Touzet, Horiba Jobin Yvon SAS <i>New Tunable Blaze Diffraction Gratings for EUV Applications</i>	“
16:00 – 16:20	M. Maeda JTEC <i>Ultra-precise figuring of KB mirrors</i>	“
16:20 – 17:00	Coffee Break	AGH Terrace
Section 4. Metrology 1 section Chair K. Sawhney		
17:00 – 17:30	V.V Yashchuk <i>Bendable X-Ray Optics at the ALS: Design, Tuning, Performance and Applications</i>	Giambiagi hall
17:30 – 17:50	F. Polack <i>Simultaneous estimation of the surface shape and the instrument error function from a highly redundant set of LTP data</i>	“
17:50 – 18:10	S.G. Alcock <i>Using the slope measuring profiler to optimize the shape of Adaptive Bimorph Optics</i>	“
18:10 -19:00	Discussion time	“
19:15	Bus departure	AGH entrance
19:30 – 23:00	Dinner at Gaudemus restaurant, Duino	Gaudemus
23:00	Bus departure to AGH	

Friday Oct. 10		
Section 5. Metrology 2 section Chair F. Polack		
8:50 – 9:20	A. Rommeveaux <i>ESRF Optical Metrology Applied to bent optical surfaces</i>	Giambiagi hall
9:20 – 9:40	J. Nicolas <i>The Optics Laboratory at ALBA</i>	“
9:40 – 10:00	F. Siewert <i>Characterization and Calibration of Slope Measuring Instruments</i>	“
10:00 – 10:50	Coffee break	AGH Terrace
Section 6. Astrophysics applications section Chair B. Ramsey		
10:50 – 11:20	S. O'Dell <i>Optics Requirements for the Generation-X X-Ray telescopes</i>	Giambiagi hall
11:20 – 11:40	C. Atkins <i>Smart X-ray Optics for the next generation of X-ray telescopes</i>	“
11:40 – 12:00	D. Spiga <i>X-Ray Imaging Telescopes: Prediction of the Expected Image Quality from Surface Roughness Metrology data.</i>	“
12:00 – 12:20	R. Canestrari <i>Hot Press Direct Slumping: An option to manufacture deformable optics</i>	“
12:20 – 14:00	Lunch	AGH Terrace
Section 7. Wavefront preservation and characterization Chair F. Siewert		
14:00 – 14:30	K. Yamauchi <i>At-wavelength measurement and on-site compensation of wavefront error for hard X-ray nanobeam</i>	Giambiagi hall
14:30 – 14:50	T. Kimura <i>Development of adaptive mirror for wavefront correction of hard X-ray nanobeam</i>	“
14:50 – 15:10	R. Signorato <i>Adaptive Optics and Wavefront control in the Hard X-ray Domain – Past, Present and Future</i>	“
15:10 – 15:40	M. Idir <i>X-ray active mirror coupled with a Hartmann wavefront analyzer</i>	“
15:40 – 16:20	Coffee Break	AGH Terrace
Section 8. Devices for laboratory Laser and SR beamlines Chair M. Idir		
16:20 – 16:40	F. Frassetto <i>Bidirectional Membrane deformable mirror</i>	Giambiagi hall
16:40 – 17:00	S. Kalbfleish <i>A Waveguide-based Imaging setup for Petra III</i>	“
17:00 – 17:20	R. Reininger <i>Correcting Heat Load Induced Deformations on a XUV Beamline</i>	“
17:20 – 17:40	U. Flechsig <i>The SLS Optics Beamline - Performance Measurements and Status</i>	“
17:40 – 19:00	Discussion and closing remarks	“

Saturday Oct. 11		
Round table on Bimorph mirrors system and technology		
08:45	Bus departure from AGH	
10:00 – 12:00	Round table	Rocca Bernarda Castle, Ipplis
12:00 – 13:30	Visit at the castle, wine yard and cantinas	“
13:30 – 15:00	Lunch	“
15:00 – 17:00	Round table	“
17:30	Bus departure to AGH	“