


ACTOP 8

*2nd workshop on
X-ray and XUV active optics*

October 9-11 2008, Trieste, Italy

Hosted by:  **elettra**

FERMI
@elettra 

Supported by:  **I3**
IA-SFS

List of participants

Alcock	Simon	Diamond Light Source Ltd
Atkins	Carolyn	University College London
Barrett	Ray	ESRF
Braam	Bernardus	TNO Science and Industry
Bucourt	Samuel	Imagine optic
Canestrari	Rodolfo	Osservatorio Astronomico di Brera
Cautero	Marco	Sincrotrone Trieste
Cerenius	Yngve	MAX-lab
Chang	Shih-Hung	NSRRC
Chung	Shih-Chun	NSRRC
Ciceri	Ferdinando	Physik Instrumente (PI) S.r.l.
Cimino	Roberto	LNF-INFN
Cocco	Daniele	Sincrotrone Trieste
Cudin	Ivan	Sincrotrone Trieste
Dent	Andrew	Diamond light Source
Feldman	Charly	University of Leicester
Fischetti	Robert	Argonne National Lab.
Flehsig	Uwe	Paul Scherrer Institut
Frassetto	Fabio	CNR-INFN, LUXOR Lab
Gleeson	Anthony	STFC Daresbury Laboratory
Gore	David	Illinois Institute of Technology
Hartmann	Bastian	Universität Göttingen
Hertlein	Frank	Incoatec GmbH
Huang	Rong	IMCA-CAT/CARS
Idir	Mourad	Synchrotron SOLEIL
Jastrow	Fini	DESY
Jensen	Brian	MAX-lab
Johansson	Ulf	MAX-lab
Kalbfleisch	Sebastian	Universität Göttingen
Kimura	Takashi	Osaka University
Martinez	Juan Carlos	CELLS
Nicolas	Josep	CELLS
O'Dell	Stephen	NASA Marshall Space Flight Center
Polack	François	Synchrotron SOLEIL
Quinn	Paul	Diamond Light Source
Ramsey	Brian	NASA Marshall Space Flight Center
Reininger	Ruben	Synchrotron Radiation Center
Rommeveaux	Amparo	ESRF
Roper	Mark	STFC Daresbury Laboratory
Sawhney	Kawal	Diamond Light Source Ltd
Sergo	Rudi	Sincrotrone Trieste
Siewert	Frank	Bessy GmbH
Signorato	Riccardo	ACCEL Instruments GmbH
Sinn	Harald	DESY- XFEL
Sostero	Giovanni	Sincrotrone Trieste
Spielmann	Sibylle	Swiss Light Source
Spiga	Daniele	Osservatorio Astronomico di Brera
Sutter	John	Diamond Light Source
Svetina	Cristian	Sincrotrone Trieste
Thiess	Helge	Carl Zeiss Laser Optics
Thomasset	Muriel	Synchrotron SOLEIL
Tiedtke	Kai	DESY
Touzet	Bruno	HORIBA Jobin Yvon
Vidal	Josep	CELLS
Wang	Hongchang	University College London
Weffort	Ildi	Sincrotrone Trieste
Yamauchi	Kazuto	Osaka University
Yashchuk	Valeriy	Lawrence Berkeley National Laboratory
Zangrando	Marco	TASC INFN-CNR
Zizak	Ivo	Bessy GmbH

Thank!

ACTOP 08

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>	AGH Terrace
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 – 10:30	Coffee break	AGH Terrace
Section 6. Astrophysics applications section Chair B. Ramsey		
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11:00 – 11:20	C. Atkins <i>Generation of X-ray telescopes</i>	“
11:20 – 11:40	D. Spiga <i>X-Ray Imaging Telescopes: Prediction of the Expected Image Quality from Surface Roughness Metrology data.</i>	“
11:40 – 12:00	R. Canestrari <i>Hot Press Direct Slumping: An option to manufacture deformable optics</i>	“
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14:00 – 14:30	K. Yamauchi <i>Manufacturing, alignment and on-site compensation of wavefronts for X-ray nanobeam</i>	Giambiagi hall
14:30 – 14:50	T. Kimura <i>Development of active optics for wavefront correction of hard X-ray nanobeam</i>	“
14:50 – 15:10	R. Signorato <i>Optical metrology for the control in the Hard X-ray Domain: Past, Present and Future</i>	“
15:10 – 15:40	M. Idir <i>Application of the Hartmann wavefront analyzer</i>	“
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17:20 – 17:40	U. Flechsig <i>The SLS Optics Beamline - Performance Measurements and Status</i>	“
17:40 – 19:00	Discussion and closing remarks	“

**Talk of 20 or 30 minutes
MEANS: 20 or 30 minutes
including questions! 15+5 or
25+5!
Chairmen. Be cruel and
intransigent! Speakers:
please respect the time and
use respect for the other
speakers and the attendees
THANK!**

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ACTOP 18

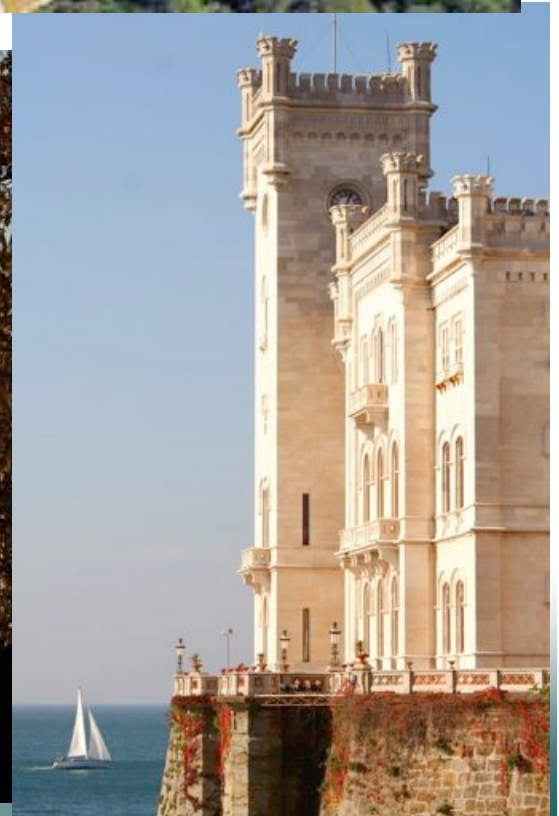
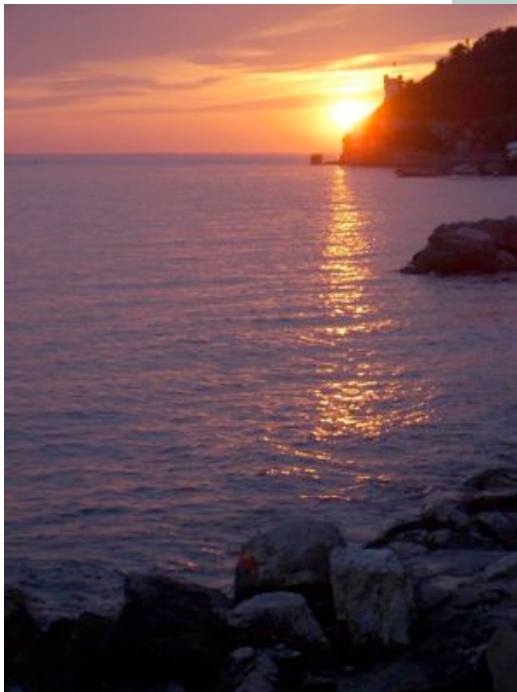
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ACTOP 18



Take time to visit the Miramare Castle



Tonight at 7:30
Dinner at Guademus

Please inform us if You do
not like to eat fish but,
please be sure about it!
It will be a real pity!

Gaudemus



Saturday at 8:45 bus departure
to Rond Table on bimorph mirrors
system and technology.
Event located at Rocca Bernarda.



ACTOP 08

calendar of events
on water

- 6/10 - 11/10 Fvg RC44 Cup Fvg RC44 Cup organized by SVBG, Yacht Club Adriaco, Società Triestina della Vela, Lega navale italiana and QB solution.
- 6/10 - 11/10 Barcolana Classic Barcolana Classic, in collaboration with Yacht Club Adriaco, classic and traditional boats gathering.
- 11/10 Barcolana by night In collaboration with Yacht Club Adriaco, regatta dedicated to Ufo class
- 12/10 Barcolana 40 Start at 10 a.m.

on land

9/10 - 11/10 Barcolana festival

Free entrance concerts in Piazza Unità d'Italia: Friday 10th October from 8.00 p.m. – Young bands will open the first night of concerts: the Harddiskaunt, ska band coming from Varese province, who debuted in '97 with an album called "Greatest Hits n.7", the Carnicats, regional hip hop group consisting of 4 boys from Tolmezzo, in their twenties, who have recently issued their first album and Terza Sfera, electronic pop group, with lyrics in English sung by an artist from Sri Lanka. The stage will then host one of teenagers' most beloved groups: Fabri Fibra, a famous name of Italian hip hop. Saturday 11th October from 8.00 p.m. – The night will open with Dj Lele Sacchi, among the most esteemed Italian DJs and producers well known abroad. He is also art director of Magazzini Generali in Milan. El Tres, quintet from Piedmont ranging from blues, folk to rock'n'roll will follow. Then it's Micol Barsanti's turn on the stage of 3 Barcolana Festival. Guest Stars of the night are Frankie hi-nrg mc, one of the most politically and socially engaged voices of Italian Rap Elio e le Storie Tese, the Italian group that has already taken part in the Barcolana and will play both new songs and old successes well known to the regatta public.



ACTOP 08

Forecasts

**Today,
wednesday, October 8th**

issued on 07.10.08 at 10:27 - reliability 70%



Throughout the region cloudy to temporarily overcast except for the Tarvisio area where weather conditions are likely to be better. Chance of rainfalls on the lowland and along the coast.

**Tomorrow,
thursday, October 9th**

issued on 08.10.08 - reliability 70%



Mostly cloudy on the plain and along the coast, sunnier in the mountains in the morning. Mostly scarcely cloudy throughout the region in the afternoon. Weak wind blowing along the coast.

**The day after tomorrow,
friday, October 10th**

issued on 08.10.08 - reliability 80%



Throughout the region clear or scarcely cloudy. Gentle Bora blowing along the coast.

ACTOP 08

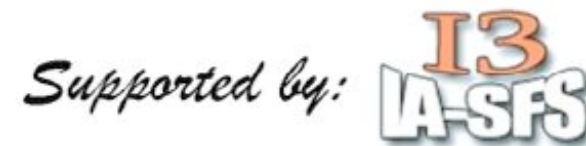
Thank to:

The organizing Committee

Frank Siewert, Riccardo Signorato, Ivan Cudin

Mourad Idir (active optics workshop generator!)

Ilde Weffort Deus ex machina of ACTOP



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... to the speakers, the chairmen, the attendees,
and all the persons who collaborated and are still
working for the success of this workshop, people
of Elettra and the great staff of the ICTP

I wish You a fruitful workshop!

Hosted by:  **elettra**

FERMI
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Supported by:  **I3**
IA-SFS