



### Monday September the 19<sup>th</sup>

### 9.00 – 9.30 Opening session

- Cinzia Giannini SILS President, Istituto di Cristallografia CNR
- Alfonso Franciosi President and CEO, Elettra Sincrotrone Trieste S.C.p.A.
- Giorgio Paolucci School Director, Elettra Sincrotrone Trieste S.C.p.A.
- Settimio Mobilio School Director, Department of Science University Roma Tre

9.30 - 11.00	11.00 - 11.30	11.30 - 13.00	13.00 - 15.00	15.00 - 16.00	16.00 - 16.30	16.30 - 18.00
<b>A. Balerna</b> Introduction to synchrotron radiation	Coffee Break	<b>G. Margaritondo</b> Characteristics and properties of synchrotron radiation	Lunch time	<b>G. Margaritondo</b> Characteristics and properties of synchrotron radiation	Coffee Break	<b>G. Paolucci</b> Synchrotron radiation facilities

#### **Tuesday September the 20th**

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9.00 - 10.30	10.30 - 11.00	11.00 - 13.00	13.00 - 15.00	15.00 - 16.00	16.00 - 17.00	17.00 - 17.30	17.30 - 18.30
<b>S. Mobilio</b> Interaction between matter and radiation	Coffee Break	A.Di Cicco X-ray absorption and fluorescence spectroscopy	Lunch time	<b>A.Di Cicco</b> X-ray spectroscopy and data-analysis	M. Benfatto Applications of multiple scattering application to X- ray absorption spectroscopy	Coffee break	<b>C. Meneghini</b> XANES spectroscopy





Wednesday September the 21th

9.00 - 10.30	10.30 - 11.00	11.00 - 13.00	13.00 - 15.00	15.00 - 18.00
G. Stefani		G. Stefani		I. Carlomagno
Photoelectron spectroscopy	<b>Coffee Break</b>	Photoelectron spectroscopy	Lunch time	Analysis of X-ray absorption spectroscopy
				data

Thursday September the 22th

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9.00 - 10.30	10.30 - 11.00	11.00 - 13.00	13.00 - 15.00	14.30 - 16.00	16.00 - 16.30	16.30 - 18.00
<b>G. Zanotti</b> X-ray diffraction	Coffee Break	<b>G. Zanotti</b> X-ray diffraction	Lunch time	J.R. Plaisier Powder Diffraction with Synchrotron Radiation	Coffee Break	H. W. Amenitsch Small angles X-ray scattering

# Friday September the 23<sup>th</sup>

9.00 - 10.30	10.30 - 11.00	11.00 - 13.00	13.00 - 15.00	15.00 - 18.00
<b>A.Baraldi</b> High resolution and time resolved core level photoelectron spectroscopy	Coffee Break	A.Perucchi e L. Vaccari Infrared spectroscopies with synchrotron radiation and free electron lasers	Lunch time	<b>M. Merlini</b> Analysis of diffraction data

Saturday	September the	24th

9.00 - 12.00

**L. Bignardi** Analysis of photoelectron spectroscopy data





#### Monday September the 26th

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9.00 - 10.30	10.30 - 11.00	11.00 - 13.00	13.00 - 15.00	15.00 - 16.30	16.30 - 17.00	17.00 - 18.30
L. Mino Watching nanomaterials with X-ray eyes: from nanoparticles to real devices	Coffee Break	A.Chaves Structural biology: Biocrystallography and an appetizer for cryo-EM and FEL		<b>S. Pascarelli</b> Overview of research activities with FEL in the hard X-ray	Coffee Break	A.Moliterni Combining synchrotron radiation and Crystallography to decrypt the structure of materials impacting Energy, Environment and Health

Tuesda	y September the	e 27th

9.00 - 10.30	10.30 - 11.00	11.00 - 13.00	13.00 - 15.00	15.00 - 16.30	16.30 - 17.00	17.00 - 18.30
L. Monico Synchrotron radiation- based X-ray techniques & cultural heritage objects: an integrated multi- material, multi-technique and multi-scale approach to study their composition and evolution		<b>A.Gianoncelli</b> X-ray imaging	Lunch time	<b>A.Gianoncelli</b> X-ray imaging	Coffee break	<b>P. Wernet</b> Seeing chemical interactions and dynamics with time-resolved x-ray spectroscopy





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9.00 - 10.30	10.30 - 11.00	11.00 - 13.00	13.00 - 15.00	15.00 - 16.30	16.30 - 17.00	17.00 - 18.30
M. Stampanoni Advanced X-ray imaging: from complex applications at synchrotron sources to early detection of breast cancer in hospitals	Coffee Break	<b>O. Bunk</b> X-ray Imaging in scanning mode	Lunch time	<b>G. Aquilanti</b> Extreme conditions studies at synchrotrons	Coffee break	<b>P. Torelli</b> X ray photoemission spectroscopy new applications: HAXPES and NAP- XPS.

# Wednesday September the 28<sup>th</sup>

Thurday September the 29<sup>th</sup>

9.00 - 19.00

## Visit and Practical at ELETTRA and FERMI facilities

Friday September the 30 <sup>th</sup>							
9.00 - 10.30 10.30 - 11.00 11.00 - 12.30 12.30 - 13.00							
C.Masciovecchio		G. Tromba	Concluding				
Overview of research activities	<b>Coffee Break</b>	Medical Imaging with	remarks				
with FEL in soft X-ray		synchrotron radiation	remarks				