XIV School on Synchrotron Radiation:
Fundamentals, Methods and Applications
Muggia, Italy / 18-29 September 2017

Monday September the 18th

9.00 – 9.30	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
A. Di Cicco **A. Franciosi** **A. Goldoni** **S. Mobilio:** *Opening Session*	**A. Di Cicco:** ***Introduction to synchrotron radiation***	**Coffee Break**	**G. Margaritondo:** ***Characteristics and properties of synchrotron radiation***	**Lunch time**	**G. Margaritondo:** ***Characteristics and properties of synchrotron radiation***	**Coffee Break**	**A. Goldoni:** ***Instrumentation at synchrotron radiation beamlines***

Tuesday September the 19th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 15.30	15.30 – 16.30	16.30 -17.00	17.00 – 18.30
S. Mobilio: ***Introduction to the interaction between matter and radiation***	**Coffee Break**	**C.M. Bertoni:** ***Quantum description of the matter-radiation interaction***	**Lunch time**	**G. Stefani:** ***Photoelectron spectroscopy: fundamentals***	**G. Stefani:** ***Photoelectron spectroscopy: fundamentals***	**Coffee break**	***C.M. Bertoni:*** ***Quantum description of the matter-radiation interaction***

Wednesday September the 20th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 16.00	16.00 – 16.30	16.30 – 18.30
P. Fornasini: ***X-ray Absorption Spectroscopy***	**Coffee Break**	**P. Fornasini:** ***X-ray Absorption Spectroscopy***	**Lunch time**	**S. Mobilio:** ***Introduction to the interaction between matter and radiation***	**Coffee Break**	**S. Lupi:** ***Infrared synchrotron radiation: from the production to the scientific applications***

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Elettra Sincrotrone Trieste

Thursday September the 21th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 16.00	16.00 – 16.30	16.30 – 18.00
G. Zanotti: ***X-ray Diffraction***	**Coffee Break**	**G. Zanotti:** ***X-ray Diffraction***	**Lunch time**	***M. Benfatto: XANES Spectroscopy - I***	**Coffee Break**	**M. Ferrario:** ***Advanced Radiation Sources based on plasma accelerators***

Friday September the 22th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 16.00	16.00 – 16.30	16.30 – 18.00
J.R. Plaisier : ***Powder Diffraction & Synchrotron Radiation***	**Coffee Break**	**C. Meneghini:** ***XANES Spectroscopy - II***	**Lunch time**	**G. Aquilanti:** ***Studies of matter at extreme conditions***	**Coffee Break**	**F. Boscherini:** ***Applications of XAFS to nanostructures and materials science***

Saturday September the 23th

8.30 – 10.00	10.00 – 11.30	11.30 – 12.00	12.00 - 13.30
P. Scardi: ***Diffraction from nanocrystalline materials***	**H. Amenitch:** ***Small angle X-ray scattering***	**Coffee Break**	**M. Kiskinova:** ***New high flux and coherent photon sources and their multi-disciplinary applications***

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Monday September the 25th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 16.30	16.30 – 17.00	17.00 – 18.30
A. Baraldi: ***High resolution and time resolved core level photoelectron spectroscopy***	**Coffee break**	**G. Monaco:** ***High resolution inelastic x-ray scattering***	**Lunch time**	**J.Y. Buffiere:** ***X-ray imaging tecniques***	**Coffee Break**	**D. Eichert:** ***X ray microscopy***

Tuesday September the 26th

Parallel session

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30
G. Artioli: ***Synchrotron radiation in the earth sciences***	**Coffee Break**	**P. Lattanzi:** ***Synchrotron Radiation in the environmental Science***

8.30 – 10.00	10.00 – 10.30	10.30 – 12.30
L. Paolasini: ***Resonant and magnetic x-ray diffraction***	**Coffee Break**	**G. Rossi:** ***Spin resolved photoemission*** **&** ***Linear and circular x-ray dichroism***

12.30-14.30	14.30 - 15.00	15.00 – 16.30	16.30 – 17.00	17.00 – 18.30
Lunch time	**G. Paolucci:** ***Science for peace***	**G. Ghiringhelli:** ***Resonant Inelastic X-ray Scattering***	**Coffee break**	**C. Meneghini and M. Merlini:** ***Data analysis session: introduction and software set-up***

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Elettra Sincrotrone Trieste

Wednesday September the 27th

9.00 – 19.00
Practical &Data Analysis at ELETTRA

Thursday September the 28th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 16.00	16.00 – 16.30	16.30 – 18.00	18.00 – 19.30
C. Giannini : ***Watching nanomaterials with X-ray eyes***	**Coffee Break**	**L. Bertrand:** ***Synchrotron radiation and heritage materials***	**Lunch time**	**C. Lamberti:** ***Catalytic studies "in operando"***	**Coffee break**	**G. Tromba:** ***Medical Imaging with synchrotron radiation***	**A. Locatelli:** ***Photoemission electron spectroscopy for chemical and magnetic imaging***

Friday September the 29th

8.30 – 10.00	10.00 – 10.30	10.30 – 12.30	12.30 – 13.00
A. Martorana: ***Synchrotron Radiation and Chemistry***	**Lunch time**	**M. Nardini:** ***Synchrotron Radiation and Biocrystallography***	**A. Goldoni** **S. Mobilio:** ***Concluding remarks***

Practical and Data Analysis sessions at ELETTRA are foreseen for Wednesday 27th: Students will be divided into two groups; in the morning one group will attend a practical session on beam-lines at ELETTRA and the other one will attend a data analysis session. In the afternoon the two groups will exchange sessions.