

PROGRAM

	Monday, 05/09/2022		Tuesday, 06/09/2022		Wednesday, 07/09/2022	Thursday, 08/09/2022
08 ³⁰	Registration					
09 ⁰⁰	Welcome	09 ⁰⁰	X-ray diffraction	09 ⁰⁰	X-ray spectroscopies	X-ray imaging
09 ³⁰	SR production & methods		Powder and single crystal Synchrotron X-ray Diffraction Dr. Evangelia Moschopoulou, NCSR "Demokritos", Greece		X-ray absorption fine structure spectroscopies for the study of matter Dr. Maria Katsikini, Aristotle University of Thessaloniki, Greece	Scanning X-ray microscopies at the ESRF: a synergy between imaging and chemistry Dr. Marine Cotte, ESRF, France
	Science at synchrotrons and at the ESRF Dr. Francesco Sette, General Director of ESRF, France					
10 ³⁰	Accelerator physics for synchrotron light users Dr. Emmanuel Karantzoulis, ELETTRA, Italy	10 ⁰⁰	Introduction to macromolecular crystallography Dr. Irene Margiolaki, University of Patras, Greece	10 ⁰⁰	X-ray Fluorescence Spectrometry Dr. Andreas Germanos Karydas, NCSR "Demokritos", Greece	X-ray tomography Dr. Dr. Benoit Cordonnier, ESRF, France
		11 ⁰⁰	Coffee Break	11 ⁰⁰	Coffee Break	Coffee Break
11 ³⁰	Coffee Break	11 ³⁰	X-ray scattering	11 ³⁰	X-ray spectroscopies	Extreme Conditions/Industrial Applications
12 ⁰⁰	Methods and instrumentation		Small angle X-ray Scattering from macromolecular systems Dr. Dmitri Svergun, BioSAXS GmbH, Germany		An Introduction to high resolution X-ray spectroscopy and energy-science applications Dr. Dimosthenis Sokaras, SLAC National Accelerator Lab., USA	Inelastic x ray scattering: technique and sample environments Dr. Michaela Souliou, Karlsruhe Institute of Technology, Germany
	X-ray optics and beamlines Dr. Frank Siewert, BESSY-II, Helmholtz Zentrum Berlin, Germany					
13 ⁰⁰	Synchrotron Radiation Instrumentation Dr. Raymond Barrett, ESRF, France	12 ³⁰	X-ray total scattering in Materials Science Dr. Alexandros Lappas, Foundation for Research and Technology, Greece	12 ³⁰	X-ray Magnetic Circular Dichroism on ultra-thin layers Dr. Panagiotis Pouloupoulos, University of Patras, Greece	The European Synchrotron: a knowledge hub for industry Dr. Athanasios Papazoglou, ESRF, France
		13 ³⁰	Lunch Break	13 ³⁰	Lunch Break	Lunch Break
14 ⁰⁰	Lunch Break	15 ³⁰	X-ray protein crystallography - challenges and opportunities from sample preparation to 3D structure determination Dr. Evangelia Chrysinia, National Hellenic Research Foundation, Greece	15 ³⁰	Lab-Course 3: XAFS spectroscopies Dr. Fani Pinakidou, Aristotle Univ. of Thessaloniki, Greece	Lab-Course 5: X-ray Imaging Dr. Vicente Armando Solé, ESRF, France
16 ⁰⁰	Free Electron Lasers: principles and selected applications Dr. Federico Boscherini, University of Bologna, Italy	16 ³⁰	Coffee Break			
17 ⁰⁰	Coffee Break	17 ⁰⁰	Lab-Course 2: X-ray diffraction Dr. Vassilis Psycharis, NCSR "Demokritos", Greece	17 ³⁰	Coffee Break	Coffee Break
17 ³⁰	Lab-Course 1: Ray tracing with X-rays Dr. Emmanuel Farhi, Synchrotron SOLEIL, France & Dr. Peter Kjær Willendrup, Technical University of Denmark			18 ⁰⁰	Lab-Course 4: Sy-XRF: spectrum analysis and quantification Dr. Vicente Armando Solé, ESRF, France	Lab-Course 6: X-ray tomography Dr. Ludovic Broche & Dr. Benoit Cordonnier ESRF, France
19 ³⁰	Virtual beamline tour					
20 ⁰⁰	End of day					Closing End of School

