

ESRF Auditorium

Monday 24 February 2014

08:30 - 09:00	Registration	
09:00 - 09:10	Welcome	
	Session 1: Presentations	
09:10 - 09:35	The general purpose Monte Carlo code MCSHAPE: main features and recent developments	Viviana Scot Università di Bologna, Italy
09:35 - 10:00	Fixed forced detection for accelerating the simulation of X-ray images with Geant4	Simon Rit CREATIS, Villeurbanne, France
10:00 - 10:25	A Monte Carlo simulation tool based on PENELOPE for imaging plate performance investigation	Min Yao INSA - LYON
10:25 - 10:50	Virtual imaging X-ray experiments using McXtrace	Erik Knudsen Technical University of Denmark
10:50 - 11:10	Coffee break	
	Session 2: Presentations	
11:10 - 11:35	Use of Monte Carlo simulations for Cultural Heritage XRF analysis	Antonio Brunetti Università di Sassari, Italy
11:35 - 12:00	The processing of large, heterogeneous data sets acquired for XRF imaging	Matthias Alfeld DESY Hamburg, Germany
12:00 - 12:25	Determination of gold leaf thickness by realistic Monte Carlo simulations of an EDXRF spectrometer: application to a renaissance illumination	Jorge Sampaio Universidade de Lisboa, Portugal
12:25 - 12:50	Development and applications of Monte Carlo based XRF quantification protocols for the elemental analysis of meteoritic materials	Stephen Bauters Ghent University, Belgium
12:50 - 14:00	Lunch	
14:00 - 14:50	A general introduction to Monte Carlo simulations of X-ray spectroscopy and imaging experiments	Laszlo Vincze Ghent University, Belgium
14:50 - 15:50	Introduction to xraylib (presentation + hands-on)	Tom Schoonjans Università di Sassari, Italy
15:50 - 16:10	Coffee Break	
16:10 - 17:50	Introduction to XMI-MSIM (presentation + hands-on)	Tom Schoonjans Università di Sassari, Italy
17:50 - 18:30	Discussion	
19:00 - 21:00	Wine & Cheese Party	

Tuesday 25 February 2014

Session 3: Presentations		
09:00 - 09:25	A Monte Carlo simulation of confocal X-ray fluorescence experiment	Mateusz Czyzycki Univ. Of science & Technology Krakow, Poland
09:25 - 09:50	The Monte Carlo Simulation of Diffraction Enhanced Imaging of Lung Tissue Model	Li Kun Institute of High Energy Physics (CAS) Beijing, China
09:50 - 10:15	Modeling x-ray phase-contrast imaging of microbubbles	Thomas Millard UCL, London, UK
10:15 - 10:40	Application of a Monte Carlo code to the characterization of novel X-ray imaging systems	Piernicola Oliva Università di Sassari, Italy
10:40 - 11:00	Coffee Break	
Session 4: Presentations		
11:00 - 11:25	A single Monte Carlo program for multiple XRF studies	Charalambos Zarkadas PANalytical, Almelo, NL
11:25 - 11:50	Enhancement of X-ray dose absorption via high-Z radiosensitization	Sara Lim Ohio State University, USA
11:50 - 12:15	A Tool for GIXRF/XRR simulation and data analysis	Nikita Vakula IAEA, Seibersdorf, Austria
12:15 - 14:00	Lunch	
14:00 - 15:50	Introduction to quantification with XMI-MSIM and PyMca (presentation + hands-on)	V. Armando Solé ESRF, Grenoble - France
15:50 - 16:10	Coffee Break	
16:10 - 19:00	Introduction to XRMC (presentation + hands-on)	Bruno Golosio Università di Sassari, Italy
19:00	End of the workshop	