

	HSC5: HERCULES Specialised Course: Synchrotron Radiation and Neutrons for Cultural Heritage Studies (4-bunch period)						
	Sunday, 7 October 2007	Monday, 8 October 2007	Tuesday, 9 October 2007	Wednesday, 10 October 2007	Thursday, 11 October 2007	Friday, 12 October 2007	
08:00							08:00
08:15		Welcome (J. Baruchel)	Meeting point ESRF auditorium	Safety Training ESRF auditorium (8h00 - 9h00)	Meeting point ESRF auditorium <b>Practicals - 8h30-12h30</b>		08:15
08:30		Introduction E. Pantos (UK)	XRD/XAS Tutorials (8h30-10h30) F. D'Acapito (IT) Groups A and B T. Hansen (DE) Groups C and D	Practicals ( 9h00 - 13h00 ) micro-beam Diffraction ID13 (M. Burghammer, DE)	micro-beam IR ID21 (M. Cotte, FR)	Synchrotron radiation and neutrons for painting and cosmetic studies M. Cotte (FR) (9h00-10h00)	08:30
9:00	X-ray Fluorescence and X-ray Absorption spectrometry A. Somogyi (HU) (9h00-10h30)			Powder Diffraction ID15 (V. Honkimaki, FI)	Powder Diffraction ID31 (M. Brunelli, IT)	9:00	
9:30							9:30
10:00						Metals G. Artioli (IT) (10h00-11h00)	10:00
10:30	COFFEE (10h30-11h00)	COFFEE (10h30-11h00)				COFFEE (11h00-11h30)	10:30
11:00	Exploring Archeology and Cultural Heritage with Synchrotron infrared light P. Dumas (FR) (11h00-12h30)	Neutron diffraction analysis of archaeological materials W. Kockelmann (DE) (11h00-12h30)		XAS BM08 (F. D'Acapito, IT)	Neutron Diffraction D20 (T. Hansen, DE)	COFFEE (11h00-11h30)	11:00
11:30				Tomography/Imaging ID19 (P. Tafforeau, FR)	Grazing Incidence/2theta diffraction BM02 (N. Boudet, FR)	Application of SR spectroscopy to studies of corrosive inks and pigments J. Kolar (SL) (11h30-12h30)	11:30
12:00							12:00
12:30	LUNCH (12h30 - 13h45)	LUNCH (12h30 - 13h45)		Grazing Incidence/2theta diffraction BM02 (N. Boudet, FR)	LUNCH (12h30 - 14h00)		12:30
13:00						LUNCH (12h30 - 14h00)	13:00
13:30				LUNCH (13h00 - 14h00)			13:30
14:00	Synchrotron based X-ray micro-analysis: principles and applications J. Susini (FR) (13h45-15h00)	Presentation of practicals		Practicals - 14h00-18h00 micro-beam Diffraction ID13 (M. Burghammer, DE))	Practicals - 14h00-18h00 micro-beam IR ID21 (M. Cotte, FR)	Wood & Bones T. J. Wess (UK) (14h00-15h00)	14:00
14:30		2D and 3D Absorption and Fluorescence Imaging P. Bleuet (FR) (14h00-15h30)				REFRESHER (15h00 - 15h30)	14:30
15:00	REFRESHER (15h00 - 15h30)			Powder Diffraction ID15 (V. Honkimaki, FI)	Powder Diffraction ID31 (M. Brunelli, IT)	REFRESHER (15h00 - 15h30)	15:00
15:30	Crystallography and Diffraction techniques for Cultural Heritage Materials M. Anne (FR) (15h30 - 16h45)	REFRESHER (15h30-16h00)		XAS BM08 (F. D'Acapito, IT)	XAS BM08 (C. Maurizio, IT)	Lustre pottery: medieval nanotechnology seen by SR M. Vendrell (ES) (15h30 - 16h30)	15:30
16:00		XRD/XAS Tutorials (16h00-18h00)		Tomography/Imaging ID19 (P. Tafforeau, FR)	Neutron Diffraction D20 (T. Hansen, DE)	Round table and Conclusion Ph. Walter (FR) (16h30 - 18h00)	16:00
16:30	16h45 bus to Museum	F. D'Acapito (IT) Groups C and D T. Hansen (DE) Groups A and B		Grazing Incidence/2theta diffraction BM02 (N. Boudet, FR)	Grazing Incidence/2theta diffraction BM02 (N. Boudet, FR)		16:30
17:00							17:00
17:30	Visit of the Musée de Grenoble						17:30
18:00	Registration and Buffet (Hotel Suisse et Bordeaux) (18h00-20h00)			Qumran and the Dead Sea Scrolls, a handshake between SR and Nuclear reactions J. Gunneweg (ISR) (18h00-19h00)	Application of X-ray synchrotron microtomography for non-destructive 3D imaging of fossils P. Tafforeau (FR) (18h00-19h00)	Farewell cocktail (ESRF entrance hall) (18h00-20h00)	18:00
18:30		Poster Session Wine & Cheese ESRF restaurant (18h00-20h00)				Dinner downtown uphill	18:30
19:00							19:00

Lectures in the ESRF auditorium

Tutorials in the ESRF auditorium (T. Hansen) and in the ESRF computer training room (F. D'Acapito)