

## New lights on ancient materials 2007

ageing, alteration and conservation  
European training school on the analysis of ancient artefacts using synchrotron radiation  
Synchrotron SOLEIL

### (ALMOST) DEFINITIVE PROGRAMME

	Monday 12 March grand amphithéâtre	Tuesday 13 March grand amphithéâtre	Wednesday 14 March grand amphithéâtre	Thursday 15 March pavillon d'accueil - bas	Friday 16 March pavillon d'accueil - bas
08:30	opening of the school 09:00				
09:00	A1. Welcome D. RAOUX	A4. Synchrotron radiation methods for conservation L. BERTRAND, SOLEIL	C3. Alteration mechanisms in glass G. CALAS, IMPMC, Paris, FR	E2. Groups for tutorials	B5. Rock as a support for art, rock art painting conservation J.-M. GENESTE, Centre National de Préhistoire, Périgueux, FR
09:30	A2. Basics of synchrotron radiation A. NADJI, SOLEIL			C1. Synchrotron techniques in metal alteration Ph. DILLMANN, Lab. Pierre Süe, Saclay, FR	
10:00		B1. Introductory course on conservation N. HUET, laboratoire Arc'Antique, FR	B4. Challenges in glass conservation and analytical approaches H. ROEMICH, NY University, USA		D4. Synchrotron 2-d imaging using X ray fluorescence / absorption... D. GROLIMUND, SLS
10:30	A3a. Synchrotron radiation methods A. SOMOGYI, SOLEIL			D1a. Synchrotron X-ray diffraction, methods and case study	
11:00		13:00	LUNCH: 13:00		BUFFET LUNCH: 13:00
11:30	A3b. Synchrotron radiation methods A. SOMOGYI, SOLEIL			D1b. Synchrotron X-ray diffraction, methods and case study	
12:00		Visit: safety information	B3. Challenges in stone conservation E. ZENDRI, Univ. Cà Foscari, IT		C4. In-situ synchrotron monitoring of corrosion processes A. ADRIAENS, Ghent Univ., BE
12:30	Visit: SOLEIL L. BERTRAND, S. KUBSKY			C2. Use of tomographic techniques for building materials D. BERNARD, ICMCB Bordeaux, FR	
13:00		B2. Challenges in metal conservation R. van LANGH, Rijksmuseum, Amsterdam, NL	E1. Groups for tutorials		School dinner
13:30					
14:00					
14:30					
15:00					
15:30					
16:00					
16:30					
17:00					
17:30					
18:00					
evening					

#### A. General introduction (4)

General presentation of synchrotron techniques specificities oriented towards heritage users

#### B. Conservation (4)

Basic courses on conservation, taught by heritage specialists, focussing on the limitations imposed by laboratory methods.

#### C. Ageing, corrosion, alteration studied by synchrotron techniques (5)

Examples given by tutors at the frontier between the heritage community and natural sciences showing the interest of using synchrotron techniques to clarify research aspects on ancient materials.

#### D. Synchrotron methods (6)

In-depth presentation of synchrotron techniques adapted to an heritage audience, illustrated by examples and accompanied by case studies and/or data processing of samples studied in previous experiments.

#### E. Synchrotron experiments and/or case studies (depending on SOLEIL operation)

Experiments on samples brought by participants and/or tutors to be prepared well in advance in order to integrate as strongly as possible further data processing in the synchrotron courses.



AMBASSADE DE FRANCE EN AFRIQUE DU SUD