



The GDRI-STAR Training Workshops Series

Training Workshop on Materials Microanalysis and Dating for Rock Art Studies

28th September – 5th October 2008
Clanwilliam, South Africa

Sunday 28th September

- 9h00 – 16h00 **Shuttles Cape Town – Travellers Rest Farm**
- 19h00 **Diner at the Khoisan Kitchen**
- 20h00 **Welcome and presentation of the workshop**
Siyakha Mguni, Bushmans Kloof Wilderness Reserve
Jean-Michel Geneste, Centre National de Préhistoire (Périgueux, France)
Loïc Bertrand, Synchrotron SOLEIL (Gif-sur-Yvette, France)
Anne Corval, representative of CNRS in sub-Saharan Africa and the Indian Ocean (Johannesburg, South Africa)
Stéphane Hoerlé, Synchrotron SOLEIL (Gif-sur-Yvette, France)

Monday 29th September

- 08h00 **Breakfast at the Khoisan Kitchen**
- 09h00 – 10h30 **Sampling rock art sites: the South African legislation**
Celeste Rossouw, Amafa aKwaZulu-Natali (Pietermaritzburg, South Africa)
- 10h30 – 12h00 **Analysing rock art materials**
Stéphane Hoerlé, Synchrotron SOLEIL (Gif-sur-Yvette, France)
- 12h00 – 13h00 **Lunch**

- 13h00 – 14h30** **Infrared spectrometry for material analysis**
Paul Dumas, Synchrotron SOLEIL (Gif-sur-Yvette, France)
- 14h30 – 16h00** **Raman spectrometry as a tool to study rock art**
Linda Prinsloo, University of Pretoria (South Africa)
- 16h00** **Tea break**
- 16h30 – 18h00** **Characterisation of organic materials in art and archaeology**
Pascale Richardin, *Centre de Recherche et de Restauration des Musées de France*
(Paris, France)
- 18h00 – 19h00** **Students presentations**
Cuan Hahndiek, University of Cape Town (South Africa)
Camille Bourdier, University of Bordeaux I (France)
Ancila Nhamo, University of Harare (Zimbabwe)
Thomas van der Linden, Deltares (Utrecht, The Netherlands)
Décio Muianga, University of the Witwatersrand (Johannesburg, South Africa)
- 19h00** **Diner at the Khoisan Kitchen**
- 20h00** **An introduction to the rock art of the Cederberg**
John Parkington, University of Cape Town (South Africa)

Tuesday 30th September

- 08h00** **Breakfast at the Khoisan Kitchen**
- 9h00** **Drive to De Hangen**
- 10h00 – 13h00** **Site visit and presentation**
John Parkington, University of Cape Town (South Africa)
Cuan Hahndiek, University of Cape Town (South Africa)
- 13h00 – 14h00** **Lunch**
- 14h00 – 17h00** **Practicals – Spectrophotometry**
Pascale Richardin, *Centre de Recherche et de Restauration des Musées de France*
(Paris, France)
- Practicals – Portable Raman**
Linda Prinsloo, University of Pretoria (South Africa)
Claire Rossouw, DeltaNu (Port Elisabeth, South Africa)
- 17h00** **Drive back to Traveller's Rest Farm**
- 18h00** **Students presentations**

Nicholas Wiltshire, University of Cape Town (South Africa)
Louisa Hutten, University of Cape Town (South Africa)
Jane Noah, University of the Witwatersrand (Johannesburg, South Africa)
Aurélie Abgrall, University of Paris I (France)
Geoffroy Heimlich, University of Toulouse II (France)
Leslie Zubieta, University of the Witwatersrand (Johannesburg, South Africa)

20h00 Diner at the Khoisan Kitchen

Wednesday 1st October

08h00 Breakfast at the Khoisan Kitchen

09h00 – 10h30 X-Ray analytical methods for rock art studies
Loïc Bertrand, Synchrotron SOLEIL (Gif-sur-Yvette, France)

10h30 – 12h00 Proton-Induced X-ray Emission (PIXE) & Rutherford Backscattering (RBS)
Carlos Pineda, iThemba Labs (Somerset West, South Africa)
Leon Jacobson, McGregor Museum (Kimberley, South Africa)

12h00 – 13h00 Lunch

13h00 – 14h30 Laser Induced Breakdown Spectroscopy (LIBS) – Principle and Applications
Vincent Detalle, *Laboratoire de Recherche des Monuments Historiques* (Champs-sur-Marne, France)

14h30 – 16h00 Analytical facilities in the AEON EarthLAB and Geological Sciences, UCT: Brief overview and case study
Petrus LeRoux, University of Cape Town (South Africa)

16h00 – 18h00 Visits of rock art sites

19h00 Students presentations

Christine Sievers, University of KwaZulu-Natal (Durban, South Africa)
Jeremy Hollmann, Natal Museum (Pietermaritzburg, South Africa)
Sewelo Fane, Tsodilo World Heritage (Shakawe, Botswana)
Isabelle Barrier, Mapungubwe Museum (Pretoria, South Africa)

20h00 Diner at the Khoisan Kitchen

Thursday 2nd October

08h00 Breakfast at the Khoisan Kitchen

- 09h00 – 10h30** **AMS radiocarbon dating of rock art**
Elias Sideras-Haddad, University of the Witwatersrand (Johannesburg, South Africa)
- 10h30 – 12h00** **OSL/TL dating in archaeology**
George Susino, Rock Art Research Institute (Johannesburg, France)
- 12h00 – 13h00** **Lunch**
- 14h30 – 16h00** **Archaeology of Rock Art**
Catherine Cretin, *Centre National de Préhistoire* (Périgueux, France)
- 16h00 – 17h00** **Microtopography of rock engravings**
Nicolas Mélard, *Institut National du Patrimoine* (Paris, France)
- 16h00** **Tea break**
- 19h00** **Summary of analytical methods for rock art**
Loïc Bertrand, Synchrotron SOLEIL (Gif-sur-Yvette, France)
- 20h00** **Diner at the Khoisan Kitchen**

Friday 3rd October

- 8h00** **Breakfast at the Khoisan Kitchen**
- 9h00** **Walk to Maidens Pool**
- 10h30 – 11h00** **Site visit and presentation**
Siyakha Mguni, Bushmans Kloof Wilderness Reserve
- 10h00 – 13h00** **Practicals – LIBS**
Vincent Detalle, *Laboratoire de Recherche des Monuments Historiques* (Champs-sur-Marne, France)
- 15h00** **Walk back to Traveller's Rest Farm**
- 17h00 – 19h00** **Round table**
- 19h00** **Diner at the Khoisan Kitchen**

Saturday 4th October

- 08h00** **Breakfast at the Khoisan Kitchen**
- 9h00 – 18h00** **Visit of rock art sites (Bushmans Kloof Wilderness Reserve)**
- 18h00** **Cocktail at Bushmans Kloof**

19h30 Drive back to Traveller's Rest Farm

20h00 Diner at the Khoisan Kitchen

Sunday 5th October

10h00 Shuttle to Cape Town