

WORLD HERITAGE: SCIENCE AND TECHNOLOGY AN EXPERT WORKSHOP WITHIN THE FRAMEWORK OF THE GLOBAL STRATEGY FOR A BALANCED AND REPRESENTATIVE WORLD HERITAGE LIST

**Monday 21 to Wednesday 23 January 2008
Wellcome Collection Conference Centre, 183 Euston Road, London NW1 2BE, UK**

Co-hosted by
The Department for Culture, Media and Sport
and
The UK National Commission for UNESCO

PROGRAMME

The Workshop aims to bring together international experts from the areas of science and the UNESCO Convention concerning the Protection of the World Cultural and Natural Heritage (1972) (the “World Heritage Convention”) to facilitate the definition of a scientific framework for the identification and recognition of sites of interest for the heritage of science and technology, which are of outstanding universal value, on the World Heritage List.

At its 29th Session (Durban, South Africa 2005) the World Heritage Committee requested ‘the Director of the World Heritage Centre to further explore the thematic initiative “Astronomy and World Heritage” as a means to promote, in particular, nominations which recognize and celebrate achievements in science’.

At the 31st session of the Committee (Christchurch, New Zealand 2007) the UK suggested a workshop to explore further the opportunities, issues and additional guidance necessary to recognise and celebrate achievements of science and technology on the World Heritage List through combining inputs on the interpretation of science heritage in the context of the World Heritage Convention from the scientific community and World Heritage specialists. The Committee (Decision 31 COM 9) accepted the offer of the UK to host an expert meeting.

Problem Statement

Fundamental to all human progress and societies are knowledge, its pursuit and its application to resolve the problems of human existence. The pursuit and application of knowledge underlie all human achievements many of which have been recognised on the World Heritage List, as for example in the case of agriculture and industrialisation as well as achievements of architecture, religion and fortification.

Particular areas relating to knowledge which are under-represented on the World Heritage List are the natural sciences (physical sciences including astronomy and chemistry, and biological sciences) and the development of their application through engineering and technology. These are fundamental to understanding the nature of modern human existence and the World Heritage Committee has for several years been seeking better representation of such places relating to such science.

Scope and Outcome

Experts will assess and examine the interpretation of scientific and technological heritage in the context of the World Heritage Convention with particular focus on four areas: astronomy, physical sciences, biological sciences and engineering & technology.

The outcome of this meeting will contribute to the development of guidelines for the identification of sites and a preliminary framework for the evaluation of properties of interest for the heritage of science and technology and their potential inscription on the World Heritage List. The recommendations of the Workshop will be submitted to the 32nd session of the World Heritage Committee (July 2008 Quebec, Canada).

MONDAY 21 JANUARY 2008

Wellcome Collection Conference Centre, Franks and Steel Room

- From 11.30** Registration (Lobby)
Coffee and refreshment
- 12.30 - 14.00** Lunch
- 14.00 – 14.05** **WORKSHOP OPENING**
CHAIR: Mr Harry REEVES, Head of Architecture & Historic Environment Division, Department for Culture, Media & Sport
- 14.05 – 14.30** **WELCOME ADDRESSES**
Dr Mark WALPORT, Director, The Wellcome Trust
Rt Hon Margaret HODGE MBE MP, Minister for Culture
Mr Guy DEBONNET, Programme Specialist, World Heritage Centre
Professor John BEDDINGTON, Her Majesty's Government, Chief Scientific Adviser
- 14.30 - 15.00** **1 SCIENCE AND TECHNOLOGY IN THE CONTEXT OF THE WORLD HERITAGE CONVENTION: THE BACKGROUND**
The UNESCO Convention concerning the Protection of the World Cultural and Natural Heritage (1972) (the "World Heritage Convention") aims to promote cooperation among nations to protect heritage from around the world that is of such outstanding universal value that its conservation is important for current and future generations.
In 1994, the World Heritage Committee launched the Global Strategy for a Balanced, Representative and Credible World Heritage List, aimed at ensuring that the List reflects the world's cultural and natural diversity of outstanding universal value.
How are scientific and technological innovations recognised in the World Heritage Convention and in the Global Strategy? What are the issues and difficulties faced? What sites are on the World Heritage List recognised for their representation of scientific and technological heritage? Under what criteria were they recognised? How does the Convention address the inter-related values of historical, cultural and scientific heritage?
- 14.30 **THE WORLD HERITAGE CONVENTION, GLOBAL STRATEGY AND THE RECOGNITION OF SCIENTIFIC AND TECHNOLOGICAL INNOVATION**
Dr Christina CAMERON, Chair of the World Heritage Committee
- 14.50 **REPRESENTATION OF SCIENCE AND TECHNOLOGY ON THE WORLD HERITAGE LIST: THE STORY SO FAR**
Mr Guy DEBONNET, Programme Specialist, World Heritage Centre
- 15.00 – 15.20** Break
- 15.20 - 17.00** **2 PLENARY SESSION**
RECOGNISING MILESTONES OF SCIENCE AND TECHNOLOGY WITHIN THE WORLD HERITAGE CONVENTION: CONVERGING THE CONCEPTUAL AND PHYSICAL
This session sets out the context and objectives of the Workshop, by introducing the importance and relevance of the history of science and technology, highlighting the challenges of recognising such heritage in the context of the World Heritage Convention, conceptually as well as illustrating through projects, case studies and other findings.
CHAIR: Mr Jorge GUZMAN, Deputy Head of Mission, Embassy of Chile to Norway
- 15.30 **KEYNOTE SPEECH: INTRODUCTION TO THE HISTORY OF SCIENCE – CHALLENGES AND LIMITATIONS OF THE WORLD HERITAGE CONVENTION**
Professor Helmut ALBRECHT
Professor History of Science, TU Freiberg
- 15.50 **CONTEXT AND OBJECTIVES OF THE EXPERT WORKSHOP: TASKS AHEAD**
Professor Alec BOKSENBERG
Chair, UK National Commission for UNESCO

MONDAY 21 JANUARY 2008 (cont'd)

16.10 **ADVISORY BODIES: THEIR OBSERVATIONS AND CONTRIBUTIONS**

ICOMOS, IUCN and ICCROM are the three official Advisory Bodies of UNESCO in the implementation of the World Heritage Convention. What are their views and experience on the issue of recognising scientific and technological heritage in the context of the Convention? Are the arrangements for obtaining the necessary expert advice satisfactory?

16.15 **Professor Michel COTTE**

Adviser, International Council on Monuments and Sites (ICOMOS)

16.25 **Mr Tim BADMAN**

Special Advisor, World Heritage, The World Conservation Union (IUCN)

16.35 **Dr Gamini WIJESURIYA**

International Centre for the Study of the Preservation and Restoration of Cultural Property (ICCROM)

16.45 **PLENARY DISCUSSION**

Moderated discussion on issues raised.

17.15 END OF SESSION, followed by:

17.30 to 21.00 EVENING RECEPTION AT THE WELLCOME COLLECTION GALLERY

Hosted by The Wellcome Trust

TUESDAY 22 JANUARY 2008

Wellcome Collection Conference Centre, Franks and Steel Room

From 08.30

Coffee and refreshment**09.00 – 10.00 3 PLENARY SESSION
FROM POLICY TO PRACTICE: PRESENTATION OF STUDIES**

Four studies on aspects of science and technology, each, with reference to specific cases, illustrating issues and challenges in recognising science and technology heritage in the context of the World Heritage Convention.

The Workshop will then split into three facilitated working groups, to discuss and draw up recommendations on issues identified.

- 09.10 a. The Astronomy and World Heritage Initiative
Professor Clive RUGGLES
Emeritus Professor of Archaeoastronomy, University of Leicester
- 09.25 b. Physical Sciences
Ms Phyllis M ELLIN
Cultural Resources Specialist, US National Park Service
- 09.40 c. Biological Sciences: recognising botanist Carl von Linné
Mrs Monika MINNHAGEN-ALVSTEN
National Heritage Board, Sweden
- 09.55 d. Engineering and Technology
Professor Yukio NISHIMURA
Department of Urban Engineering, University of Tokyo

10.10 - 10.30 Break**10.30 - 12.00 4 WORKING GROUPS**

With reference to the UK Context Paper and issues highlighted in the case studies above, the following three Working Groups will be formed: (Refer to delegate pack for information on remit and scope of discussion of each group, allocated rooms and composition)

- WG 1:** What are the conditions that allow recognition of heritage of science on the World Heritage List? What lessons can be learnt from experience so far?
- WG 2:** What priority should the World Heritage Committee give to heritage of science? What should be done at the international level to improve understanding of the heritage of science and World Heritage?
- WG 3:** What can or should States Parties be doing to improve the representation of heritage of science on the World Heritage List?

12.00 - 12.45 Lunch**12.45 - 13.45 5 FEEDBACK FROM WORKING GROUPS: IN PLENARY**

Rapporteurs of each working group to present initial feedback and recommendations.

13.45 - 14.15 6 PLENARY DISCUSSION

Moderated discussion of working groups' recommendations

Chair: Professor Amareswar GALLA, PhD

Convener, Pacific Asia Observatory for Cultural Diversity in Human Development & Professor of Museum Studies, The University of Queensland

14.15 **END OF SESSION****14.30** **Depart for Tour and Reception at the Natural History Museum****14.30** Meeting of the Workshop Secretariat**19.30** Dinner for delegates at the Aston Restaurant at the Radisson Edwardian Grafton Hotel

WEDNESDAY 23 JANUARY 2008

Wellcome Collection Conference Centre, Franks and Steel Rooms

- From 08.30 Coffee and refreshment
- 09.30 – 11.00 Tour of the Wellcome Trust Collections (Optional)**
- 11.00 - 11.30 Coffee and Refreshment**
- 11.30 – 12.30 7 PLENARY SESSION**
PRESENTATION OF CONCLUSIONS AND PROPOSALS BY THE WORKING GROUPS
Professor Alexander GILLESPIE
The University of Waikato Law School, New Zealand
- 12.30 - 13.30 Lunch**
- 13.30 - 16.00 8 PLENARY SESSION**
ADOPTION OF FINAL RECOMMENDATIONS AND PROPOSALS
CHAIR: Sir Neil COSSONS
Former Chair, English Heritage
- 16.00 - 16.15 9 CLOSING REMARKS**
Dr Christina CAMERON, Chair of the World Heritage Committee
- 16.30 WORKSHOP ENDS**
Coffee and refreshment
Delegates depart