



COST Action D42 "ENVIART" FINAL CONFERENCE

And FINAL MEETING

IMPACT OF THE INDOOR ENVIRONMENT ON THE PRESERVATION OF OUR MOVABLE HERITAGE

Date: 7-10 November 2010

Venue: Trinity College Dublin, Ireland

Sunday 7 November

Field Trip: Newgrange and the Boyne Valley

Departs: Nassau Street, Dublin 09:00, Sunday 7 November 2010

Returns: to Nassau Street 17:00, via Guinness Hop Store 16:30

The coach trip to the Boyne Valley will be guided by archaeologist Prof. George Eoghan who excavated in the area from 1962 and geologist Prof. George Sevastopulo, who has recently worked on the provenance of the stones used in construction. Ms Claire Tuffy will guide us through the visit to one of the sites, Newgrange. The coach will return to Dublin for 17:00, via the Guinness Hop Store.

The Boyne Valley contains a wealth of Neolithic archaeological monuments and is designated a World Heritage Site by UNESCO. The trip by coach will travel from Dublin, tour the valley and visit two of the monuments, Newgrange and Knowth and also the Brú na Boinne interpretive centre.

Newgrange is a kidney shaped mound of over one acre, retained at the base by 97 kerbstones, some of which are richly decorated with megalithic art. The 19 metre long inner passage leads to a cruciform chamber with a corbelled roof. The passage is oriented so that at dawn on the Winter Solstice sunlight shines through the roofbox over the entrance, down the passage to illuminate the chamber. We will be able to enter the passage with a local guide.

The Great Mound at Knowth is similar in size to Newgrange and was built over 5000 years ago, probably after the construction of Newgrange. It has two passages with entrances on opposite sides, the western passage is 34 metres long and the eastern passage is 40 metres long, ending with a cruciform chamber. It is surrounded by 18 smaller satellite mounds. Knowth has many engraved kerbstones including a lunar map and a calendar.

Conference Programme

Monday 8 November

- 8:30 – 9:00 Registration at the Science Gallery PACCAR Theatre
9:00 – 9:20 Opening and Welcome Address
Vice-Provost/Chief Academic Officer, Trinity College Dublin, Prof Patrick Prendergast
Chair of COST D42, John Havermans

Session 1

CHAIR – Susan Bioletti

- 9:20 – 9:40 **COST D42 - ENVIART: A European Network in Conservation Research**
John Havermans: TNO Built Environment & Geosciences, Netherlands
9:40 – 10:00 **COST Action IE0601 "Wood Science for Conservation of Cultural Heritage"**
Thomas Nilsson: Swedish University of Agricultural Sciences
10:00 – 10:20 **Impact of Climate Change on the Preservation of our Movable Heritage**
Peter Brimblecombe: University of East Anglia, UK
10:20 – 10:40 **Indoor air pollution in museums – what have we learned so far?**
A.Schieweck: Fraunhofer Wilhelm-Klauditz-Institut, Germany
Co-author: T.Salthammer
10:40 – 10:55 QUESTIONS/DISCUSSION

10:55 – 11:30 **TEA/COFFEE**
POSTERS

Session 2

CHAIR – John Havermans

- 11:30 – 11:50 **Pollution Standards in Conservation and Achieving them Using Microclimates Without Mechanical Ventilation**
David Thickett: English Heritage, UK
Co-authors: P.Brimblecombe, T.Grøntoft
11:50 – 12:10 **OCEAN – The completion and review of an Object Centered Environmental Analysis Network**
B.Shah: Victoria and Albert Museum, UK
Co-authors: B.Pretzel, G.Martin
12:10 – 12:30 **EU project PROPAIN: *Improved protection of paintings during exhibition, storage and transit. Final results and implications for conservation***
Terje Grøntoft: Norwegian Institute for Air Research, Norway
Co-authors: E.Dahlin, S.Lopez-Aparicio, M.Odlyha, S.Jakiela, M.Scharff, A.Haack Christensen, T.Larsen, G.Andrade, A.Tabuenca Garcia, A.Ortega, P.Mottner, J.Leissner, M.Obarzanowski, J.Czop, R.Kozłowski, D.Wilk, P.Frączek, M.P.Colombini, I. Bonaduce, M.Ryhl-Svendsen, D.Thickett, S.Hackney, J.Wadum
12:30 - 12:50 **The micro-environment inside archival boxes. Part 2: Air Pollution**

Morten Ryhl-Svendsen, National Museum of Denmark
12:50 – 13:05 QUESTIONS/DISCUSSION

13:05 – 14:00 **LUNCH**
POSTERS

Session 3

CHAIR – David Thickett

14:00 – 14:20 **Paper Deterioration: The role of air pollutants**

John Havermans: TNO Built Environment & Geosciences, Netherlands

14:20 – 14:40 **The impact of anoxic and hypoxic environments on the preservation of cellulose based materials**

A-L Dupont: Centre de recherché sur la conservation des collections, France

Co-authors: M.Gillet, S.Paris, C.Garnier, B.Lavédrine

14:40 – 15:00 **Reduced Degradation Rates in Hypoxic Air?**

Kjersti Marie Ellewsen: Museum of Cultural History, University of Oslo, Norway

Co-author: M.Davy Ball

15:00 – 15:15 QUESTIONS/DISCUSSION

15:15 – 15:50 **TEA/COFFEE**
POSTERS

Session 4

CHAIR – Hannelore Roemich

15:50 – 16:10 **Microclimates in Museums, Churches, and their Impact on Heritage Materials**

M.Odlyha: Birkbeck College, UK

Co-authors: S.Jakiela, J.M.Slater, C.Theodorakopoulos, L.Bozec, M.Horton, R.Larsen, C.J.Bergsten, E.Dahlin, T. Grøntoft, D.Thickett, S.Hackney

16:10 – 16:30 **The indoor air chemistry in Danish churches- with special emphasis on ammonia**

K.L.Rasmussen: University of South Denmark

Co-author: L.Skytte

16:30 – 16:50 **Indoor Air Quality Assessment in the Baroque Hall of the National Library, Prague**

S.López-Aparicio: Norwegian Institute for Air Research

Co-authors: J.Stankiewicz, T. Grøntoft, J.Smolík

16:50 – 17:10 **Do gaseous pollutants and particulate matter endanger our World Heritage? A study in the Museum Plantin-Moretus, Antwerp**

E.Janssen: Museums and Heritage, Antwerp, Belgium; V. Kontozova-Deutsch: University of Antwerp, Belgium

Co-Authors: H.Moris, A.Peckstadt, M.Van Bos, L.Watteeuw, R.Van Grieken

17:10 – 17:25 QUESTIONS/DISCUSSION

Tuesday 9 November

8:50 – 9:00 Announcements

Session 5

CHAIR – Robbie Goodhue

- 9:00 – 9:20 **Aerosol particles in the Baroque Hall of the National Library in Prague**
J.Smolík: ASCR, Czech Republic
Co-authors: L.Ondráčková, L.Andělová, J.Ondráček, J.Stankiewicz, T. Grøntoft, S.López-Aparicio
- 9:20 – 9:40 **Using SEM to characterize dust in the Old Library, Trinity College Dublin**
Allyson Smith: Trinity College Dublin, Ireland
Co-authors: R.Goodhue, S.Bioletti
- 9:40 – 10:00 **Outdoor versus Indoor Environment: A Trans-disciplinary Approach**
Jan Gunneweg: Archaeometry Hebrew University, Israel
- 10:00 – 10:20 **FTIR characterization of white particles from black inks: products of degradation on manuscripts**
M.Carme Sistach: Archive of the Crown of Aragón, Spain
Co-author: N.Ferrer
- 10:20 – 10:35 QUESTIONS/DISCUSSION
- 10:35 – 11:20 **TEA/COFFEE**
POSTERS

Session 6

CHAIR – Gerrit de Bruin

- 11:20 – 11:40 **Environmental influences on the deterioration of paper: An analytical study**
Yeghis Keheyan: University 'la Sapienza' Rome, Italy
- 11:40 – 12:00 **VOCs in paper-based cultural heritage collections – source of information or risk?**
I.Kralj Cigić: University of Ljubljana, Slovenia
Co-authors: M. Strlič, G.De Bruin, J.Kolar, T.Steemers
- 12:00 – 12:20 **Dead Sea Scrolls studies in the frame of COST D42 Action**
Ira Rabin: Israel Forensic Institute, Israel
- 12:20 – 12:40 **New analytical strategy for the characterisation of naturally and artificially aged egg tempera paints**
Ester S.B.Ferreira: Swiss Institute for Art research, Switzerland
Co-authors: N.C.Scherrer, V.De Villemerueil, D.Gros, K.Beltinger
- 12:40 – 12:55 QUESTIONS/DISCUSSION
- 12:55 – 14:00 **LUNCH**

POSTERS

Session 7

CHAIR – Jozef Hanus

- 14:00 – 14: 20 **Application of Target Factor Analysis as a Chemometric Detector for Identification of Iron-Gall inks in Drawings using FORS in VIS-NIR region**
M.Ceppan: Slovak University of technology, Slovakia
Co-authors: L.Gal, L.Varyova, J.Hanus
- 14:20 – 14:40 **Accelerated weathering experiments to corroborate the formation of magnetite and coquimbite after the continuous attack of atmospheric SO₂ on red hematite pigment: the case of wall paintings from Marcus Lucretius House, Pompeii**
K.Castro: UPV/EHU, Spain
Co-authors: M.Maguregui, U.Knuutinen, R.Wiesinger, M.Schreiner, J.M.Madariaga
- 14:40 – 15:00 **Catalytic Fading of Digital Photographs Printed by Inkjet Technology**
Michal Veselý: Brno University of Technology, Czech Republic
Co-author: P.Dzik
- 15:00 - 15:15 QUESTIONS/DISCUSSION

- 15:15 – 15:50 **TEA/COFFEE**
POSTERS

Session 8

CHAIR – Ira Rabin

- 15:50 – 16:10 **Teaching preventive conservation: preparing conservators for the complex world of interdisciplinary decision making**
H.Roemich: New York University, USA
Co-author: S.Weintraub
- 16:10– 16:30 **The pre-normative activity of the book: “Basic Environmental Mechanisms affecting Cultural Property – Understanding Deterioration Mechanisms for Conservation Purposes”**
D. Camuffo: CNR-ISAC, Italy
Co-author: V.Fassina
- 16:30 – 16:40 QUESTIONS/DISCUSSION

Session 9

CHAIR – John Havermans

- 16:40 – 16:55 **Report by the Chair of Working Group 1**
David Thickett: English Heritage, UK
- 16:55 – 17:10 **Report by Chair of Working Group 2. Overview of WG2 activities in COST D42: Analysis of heritage materials and environments**
Matija Strlič: The Bartlett School of Graduate Studies, UCL, UK

- 17:10 – 17:25 **Report by Chair of Working Group 3: The activities of WG3 – Harmonization of the measurements of environmental parameters – Proposals for standardization of indoor/outdoor air pollution monitoring by using diffusive sampling**
Vasco Fassina: Superintendency to Artistic and Cultural Property of Veneto, Italy
- 17:25 – 17:40 **Short overview. STSM: Impact of 4 years networking**
Ira Rabin: Israel Forensic Institute, Israel
- 17:40 – 17:55 QUESTIONS/DISCUSSION
- 17:55 – 18:15 **CLOSING SESSION**
- 18:15 – 20:00 **RECEPTION IN THE OLD LIBRARY**
- 20:00 – 23:00 **CONFERENCE BANQUET – TRINITY COLLEGE DINING HALL**
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Poster Session: Monday 8 and Tuesday 9 November

Analysis of Organic Materials from Archaeological and Historical context by NMR Spectroscopy

E.Kartsonaki: University of Crete, Greece

Co-authors: S.Sfakianaki, A.Spyros, U.Knuutinen

Degradation of Dyed Fibres – overview of the project results

M.Škrdlantová: ICT, Prague, Czech Republic

Co-author: K.Doubravová

The effect of climate and dust on the state of preservation of historic stained glass windows

Manfred Torge: BAM, Berlin, Germany

Co-authors: I.Feldmann, M.Bücker, S.Seeger

The behaviour of books in changing environmental conditions and the implications for collection storage

P.Garside: The British Library, UK

Co-author: B.Knight

Pigments and their degradation products in Oriental illuminated manuscripts using micro-Raman spectroscopy: A case study

Zorica Spirovska-Jakovlevska : National and University Library, Republic of Macedonia

Co- authors: Vinka Tanevska, Biljana Minčeva-Šukarova, Orhideja Grupče, Marijana Kavčić

Collection assessment: determination of the paper condition with SurveNIR

Dirk Andreas Lichtblau

Monitoring Indoor Air Quality – or how to Measure Nothing

V.Hubert: Swiss National Museum, Switzerland

Co-authors: K.Hunger, M.Wörle, L.Philippe, M.Heuberger-Vernooij

Environmental impact on Richard Serra's sculptures: A portable instrument study

K.Castro: UPV/EHU, Spain

Co-authors: J.Aramendia, A.Sanz, D.Vega, J.M.Madariaga

The air quality inside the showcase containing the remains of the Danish King St.Knud (11) and the Holy (+AD 1086)

Morten Ryhl-Svendsen: National Museum of Denmark

Co-authors: J.Glastrup, K.L.Rasmussen, F.Nielsen

Characterisation of Historic Parchment Using Near Infrared Spectroscopy

Alenka Možir: University of Ljubljana, Slovenia

Co Authors: Matija Strlič, Tanja Trafela, Irena Kralj Cigić, Jana Kolar, Viorica Deselnicu

Atmospheric pollution at the Alhambra monument, Granada, Spain: A preventive conservation study

V. Kontozova-Deutsch: University of Antwerp, Belgium

Co-Authors: B.Horemans, C.Cardell, R.Van Grieken

Collections Demography – On Dynamic Evolution of Populations of Objects

Matija Strlič: The Bartlett School of Graduate Studies, UCL, UK

Co-authors: Peter Brimblecombe, Nancy Bell, Joel Taylor, Jinghao Xue, David Thickett, Fenella France

Complementary use of the chemical and structural analysis for surface layer identification on historical metal objects

I.Żmuda-Trzebiatowska: Polish Academy of Science, Gdańsk, Poland

Co-authors: A.Iwulska, R.Jendrzewski, M.Sawczak, G.Śliwiński

COST Action D42

John Havermans: TNO Built Environment & Geosciences, Netherlands

COST D42: Impact of 4 years networking. Posters from member countries on COST D42 activities

Wednesday 10 November

FINAL MEETING OF MEMBERS OF COST D42 AND MANAGEMENT COMMITTEE

Final meeting open to all members of COST D42

9:00 – 9:15 Registration at The Trinity Long Room Hub building

9:15 – 9:30 Opening and Welcome Address

9:30 – 10:30 Report by evaluators

10:30 – 11:00 Discussion

11:00 – 11:30 **Morning coffee/tea**

Final meeting of the Management Committee of COST D42

11:30 – 13:00 Final meeting and discussion

13:00 LUNCH for Management Committee at the 1592 Restaurant



IRISH PROFESSIONAL CONSERVATORS' AND RESTORERS' ASSOCIATION

