

IAP Copenhagen 2001
The 4th meeting of the Indoor Air Pollution Working Group
The National Museum of Denmark
Programme

Wednesday, Nov. 7th

(The Cinema, National Museum of Denmark, Ny Vestergade, Copenhagen K)

16:00-18:00 **Pre-Registration**

Thursday, Nov. 8th

(The Cinema, National Museum of Denmark, Ny Vestergade, Copenhagen K)

08:00-09:00 **Registration**

09:00 *Opening of IAP 2001*

09:00-09:05 **Welcome, Start of meeting**
Morten Ryhl-Svendsen, *National Museum of Denmark*

09:05-09:15 **Welcome**
Mads Chr. Christensen, *National Museum of Denmark*

09:15-09:25 **Practical information**
Morten Ryhl-Svendsen, *National Museum of Denmark*

Opening presentation

09:25-09:55 **Microclimate: A difficult variable in museums**
Dario Camuffo, *National Research Council, Italy*

10:00-10:30 Coffee break

10:30 *Session on Air Physics and Chemistry*

10:35-10:55 **Surface reactions of deposited NO₂ in the museum environment**
Peter Brimblecombe, Michele Raychaudhuri, Derek Bowden
University of East Anglia, UK

10:55-11:15 **Copper and lead corrosion in carbonyl environments**
Jean Tétreault, *Canadian Conservation Institute*
Emilio Cano, *Centro Nacional de Investigaciones Metalúrgicas (CENIM) Spain*
Maarten Van Bommel, *Netherlands Institute for Cultural Heritage*
David Scott, *Getty Conservation Institute, USA*
Luc Robbiola, *École nationale supérieure de chimie de Paris, France*
Jean-Pierre Dallas, Marie-Geneviève Barthes, *Centre d'études de chimie métallurgique CNRS, France*

Thursday, Nov. 8, continued

- 11:20-11:40 **Measurement of case exchange rates and the use of such measurements**
Hubertus Ankersmit, *Netherlands Institute for Cultural Heritage*
Max Lebedinsky, Simon F. Watts, *Oxford Brookes University, UK*
- 11:40-11:55 Short break**
- 12:00-12:20 **Non-spherical holes and wavy tracer gas decay curves.
A comparison of theory and real life with respect to leakage of display cases**
Frank J. Ligterink, Hubertus A. Ankersmit, Maarten van Bommel,
The Netherlands Institute for Cultural Heritage
- 12:20-12:40 **The ventilation of enclosures to reduce internally generated pollutants and simple techniques
to measure air exchange rates within enclosures: report on progress to date**
Andrew Calver, *Museum of London, UK*
- 12:40-12:55 Questions for Air Physics/chemistry session
- 13:00-14:00 Lunch**
- 14:10 *Session on Communication and IAQ problems***
- 14:10-14:30 **The conservation of ceramics contaminated with acid induced salts: necessity of a
multi-disciplinary approach**
Lieve Halsberghe, *La Cambre, Belgium*
- 14:30-14:50 **Clearing the air: communicating air quality issues to museum staff and responding to
external accusations at the National Gallery of Australia**
Janet Hughes, *National Gallery of Australia*
- 14:50-15:10 **“Indoor Environment Engineering for Heritage Conservation”: Report from a workshop
at the Clima2000 Conference**
Livio de Santoli, *Dept. Fisca Tecnica, Italy*
(*REHVA - Representatives of European Heating and Ventilating Associations*)
- 15:10-15:30 Questions and discussion
- 15:30-16:00 Coffee break**
- 16:05-16:25 **The IAQ in Museums Website: Future directions**
Morten Ryhl-Svendsen, *National Museum of Denmark*
- 16:25-16:50 Final discussion/questions for all presentations
- 16:50 *End of meeting***
- 18:00 *Reception, National Museum of Denmark***
Welcome by The Danish Keeper of Antiquities Steen Hvass

Friday, Nov. 9th

(The Cinema, National Museum of Denmark, Ny Vestergade, Copenhagen K)

09:00-09:10 Start, practical informations

09:10 Session on Pollution Monitoring and Control

09:10-09:30 **A study on Monitoring in the Germanic National Museum**
Arnulf v. Ulmann, *Germanisches Nationalmuseum*

09:30-09:50 **Acid sampling collection rates**
Claire Watt, Lorraine Gibson, *University of Strathclyde, Glasgow, Scotland*

09:50-10:10 **Development of a damage assessment dosimeter using piezoelectric quartz crystals coated with egg based films**
Marianne Odlyha, Gary M. Foster, J.M Slater
School of Biological and Chemical Sciences, Birkbeck College, UK

10:10-10:30 **The protection of Cultural Heritage and the use of diffusive sampling**
Franco De Santis, S. Menichelli, C. Vazzana, I. Allegrin, *CNR – Istituto Inquinamento Atmosferico, Italy*
T. Dogeroglu, *Anadolu University Environmental Engineering Department, Turkey*

10:30-11:00 Coffee break

11:00-11:10 Questions to first part of Monitoring session

11:10 Session on Pollution Monitoring, continued

11:10-11:30 **Emission of organic acids from wooden construction materials in a small test chamber; preliminary results of optimisation of the Solid Phase Micro Extraction technique**
Maarten van Bommel, Bart van Elst and Francien Broekens
Netherlands Institute for Cultural Heritage

11:30-11:50 **Recent improvements in SPME-GC/MS detection of acetic and formic acid in air**
Jens Glastrup, Morten Ryhl-Svendsen, *National Museum of Denmark*

11:50-12:10 "A speaker"

12:10-12:25 Questions to Monitoring session

12:30-13:30 Lunch

13:30 Session on Particulates in Museum Air

13:40-14:00 **Measuring particulates in historic buildings: a comparison of methodologies**
Barry Knight, *English Heritage, UK*

14:00-14:20 **Measuring soiling on vertically mounted textiles**
Richard Kibrya, *The Victoria & Albert Museum, UK*

Friday, Nov. 9, continued

- 14:20-14:40 **Airborne Dust in the Museum Environment**
Anne Lisbeth Schmidt, Pernille Bronée, *National Museum of Denmark*
Kåre Kemp, Jes Fenger, *National Environmental Research Institute, Denmark*
- 14:40-15:00 **Particle Profiles and Filtration Efficiency in Museums**
William Esposito, *Ambient Group, USA*
(*ISIAQ - International Society of Indoor Air Quality and Climate*)
- 15:00-15:30 Coffee break**
- 15:30-15:40 Questions to Particulates session
- 15:40-16:45 Working Group Discussion Forum**
- 16:45-16:55 End of IAP 2001**

Saturday, Nov. 10th

Visit to the Conservation Department, National Museum of Denmark
Meeting time **10:00** at Central Station Copenhagen

The Conservation Department is located in Brede, Lyngby
approximately 30 minutes by train north of Copenhagen.

The visit including transport will take about 2 hours 30 minutes

For contact regarding the meeting:

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