

CONVENTION ON LONG-RANGE TRANSBOUNDARY AIR POLLUTION
International Co-operative Programme
on
Effects on Materials, including Historic and Cultural Monuments

MINUTES OF THE TWENTY-SECOND MEETING
OF THE PROGRAMME TASK FORCE
April 5, 2006, Catania, Italy

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- 1 The twenty-second meeting of the Programme Task Force of the International Co-operative Programme on the Effects on Materials including Historic and Cultural Monuments was held in Catania, Sicily, Italy on April 5, 2006. The meeting was organised by and held in the premises of the University of Catania. The meeting was held back to back with the 4th CULT-STRAT meeting (April 3-4) and the Joint workshop of Economic Impacts of Air Pollution on Cultural Heritage (April 6-7).
- 2 The meeting was attended by representatives from the following Parties to the Convention on Long-Range Transboundary Air Pollution: Canada, Czech Republic, Estonia, France, Germany, Italy, Norway, Spain, Sweden, Switzerland, United Kingdom.
- 3 The host, Prof. G. Signorello, introduced the meeting on behalf of the organisers. Mr V. Kucera chaired the meeting.
- 4 The main items discussed at the meeting were:
 - a) Information from the Working Group on Effects (WGE)
 - b) Presentation and discussion of final report from the multipollutant exposure programme and the MULTI-ASSESS project
 - c) Report on technical manual and the start of the new ICP Materials network of test sites for trend exposures
 - d) Planning of report on evaluation of previous trend results
 - e) Co-ordination of activities with the EU 6FP project CULT-STRAT
 - f) Report from the new sub-centre for stock-at-risk and cultural heritage in Italy – presentations of work on stock-at-risk and mapping by other members of ICP Materials.

5 Information from the Working Group on Effects (WGE)

No representative of WGE was present at the meeting: Johan Tidblad informed about the proposal for new data rules (attached). The new rules are intended to encourage the programme centres to have publicly available data. On the other hand there is a room for individual policies at programme centres. The policy for ICP Materials was discussed and it was decided to distribute the rules to all Task Force members together with a simple questionnaire. The results will be discussed at the next meeting and serve as a basis for formulation of an ICP Materials policy.

The 2006 workplan was presented for the participants:

- (a) High-resolution exceedance maps for heritage materials for Germany and the Czech Republic;
- (b) European maps of increased risk of copper run-off for 1980, 1985, 1990, 1995, 2000 and 2005 (using EMEP data);
- (c) Report on trends of corrosion and pollution for 1987-2003;
- (d) Technical manual for detecting corrosion trends through exposure of samples in a new network of test sites;
- (e) Workshop on economic impacts of air pollution on cultural heritage (in collaboration with the Network of Experts on Benefits and Economical Instruments and the European Union (EU) Cult-Strat project), to be held in Catania, Italy, on 6 and 7 April 2006; report of the workshop;
- (f) Twenty-second meeting of the Programme Task Force, to be held in Catania, Italy, on 5 April 2006 (following a meeting of the EU Cult-Strat project on 3–4 April 2006).

The relevant results was discussed and approved. Also, the Task Force reconvened after the workshop and approved the workshop report.

6 Presentation and discussion of final report from the multipollutant exposure programme and the MULTI-ASSESS project

The final report of the MULTI-ASSESS project was presented by Johan Tidblad in detail. The report, including annexes is publicly available at the home page of MULTI-ASSESS, <http://www.corr-institute.se/MULTI-ASSESS/>

7 Report on technical manual and the start of the new ICP Materials network of test sites for trend exposures

Johan Tidblad described the manual and it was approved by the meeting. Stefan Doytchinov informed about a new test site in Sofia, Bulgaria. It was decided that trend exposures will be performed at this site in the fall of 2006 and also at the sites in Lincoln, Cathedral and Vienna, Austria. It was concluded that it is not necessary to have new racks of the same large size as the original rack since the number of samples exposed at this stage of the programme is much smaller.

8 Planning of report on evaluation of previous trend results

Johan Tidblad presented results from ICP materials trend exposures, i.e. one year corrosion rate data. The trend for steel corrosion is still declining while corrosion rates for zinc and limestone seem to have increased slightly during the last couple of years. Main reasons for the decline is supposedly reductions in SO₂ levels, while there are no specific trends in concentrations for other pollutants (O₃, HNO₃, NO₂, SO₂), nor in climatic data, explaining the observed increase in corrosion. It was concluded that further analyses are needed, considering individual sites and at trends for other materials. These results will be presented in the annual technical report of ICP Materials.

Katerina Kreislova presented long term (20 years) trend data for one urban and one rural site in the Czech Republic.

It was concluded that after further analysis the ICP Materials trend data and the long term data from the Czech Republic should be considered for publication in a scientific journal.

9 Co-ordination of activities with the EU 6FP project CULT-STRAT

The 5th meeting of the CULT-STRAT project will be held in Madrid, Spain, October 2-3, 2007. The 6th meeting and the 2nd workshop of the CULT-STRAT project will be held back to back with the next meeting of the ICP Materials Task Force (see below).

10 Report from the new sub-centre for stock-at-risk and cultural heritage in Italy – presentations of work on stock-at-risk and mapping by other members of ICP Materials.

Stefan Doytchinov presented a series of stock at risk maps to illustrate the current state of the art and development of methods to map at national/city scales where pollution may be higher. The first one shown was at European scale (based on EMEP grid). An emerging stock at risk map of France was presented based on GIS, where stock at risk was included based on UNESCO heritage listings and information from tourist guides. Medieval stone churches in France were used as an example of how the mapping may be used. A city scale map for Milan was presented with 900 monuments plotted. This presentation was also given at the Joint workshop of Economic Impacts of Air Pollution on Cultural Heritage.

Johan Tidblad presented a newly developed model for calculating copper run-off that will be used for producing copper run-off maps on an EMEP scale as soon as data is available from EMEP.

11 Next meeting

The twenty-third meeting of the Programme Task Force will be held in Paris, France, March 13-14, 2007 back to back with the 6th meeting of the CULT-STRAT project (March 12-13) and the 2nd workshop of the CULT-STRAT (March 15-16).