

DRAFT MINUTES

3rd Meeting of National Air Quality Reference Laboratories Association AQUILA

16 + 17 January 2003 @ JRC Ispra

Agenda

- 1) Opening of 3rd meeting
- 2) Adoption of agenda
- 3) Adoption of minutes of the 2nd meeting (N 4)
- 4) Discussion on progress Memorandum of Understanding
- 5) AQUILA proposal to FP6?
- 6) Logo AQUILA
- 7) News about 4th Daughter Directive Draft
- 8) Setting the scene: Overview of relevant Directives/CEN/TOR/Equivalence/Cermatair (Including WG11)
- 9) Review / Discussion on current philosophy and status of the CEN/TC 264/WG12 standards (SO₂, O₃, NO_x, CO)
- 10) Review / Discussion of the CEN/TC 264/WG13 (Benzene)
- 11) Review / Discussion of the CEN/TC 264/WG14 (Metals)
- 12) CEN/TC 264/WG 21 (BaP) Report / Discussion
- 13) CEN/TC 264/WG 15 (PM 2.5) Report / Discussion
- 14) Report / Discussion on EC Working Group "Equivalence"
- 15) Presentation of CERMATAIR project (FP 5)
- 16) Discussion on the QA/QC Prague Conference (abstracts, time table, contents)
- 17) Euromet - Ozone (414) & future BIPM plans and Euromet / CCQM SO₂ / NO₂ project
- 18) Future workshop (e.g. QC PM, precursor workshop)
- 19) Topics for future meetings
- 20) Any other business
- 21) Date and place of next meeting
- 22) Closure

Participants:

Ivo Allegrini – CNR (I)
Pasquale Avino – ISPESL (I)
Luc Bertrand – ISSEP (B)
Annette Borowiak – JRC (EC) **co-chair, secretariat**
Eva Brorstroem-Lunden – IVL (S)
Emile De Saeger – JRC (EC)
Axel Egelov – NERI (DK)
Vittorio Forcina – JRC (EC)
Beata Frigy – Inst. Env. Management (HU) **observer**
Marina Froehlich – UBA (A) **vice-chair**

Saul Garcia Dos Santos – ISCIII (E)
Michel Gerboles – JRC (EC)
Iren Gyogyne Varaljai – Inst. Env. Management (HU) *observer*
Theo Hafkenscheid – Nmi (NL) *guest*
Stefan Jacobi – DG ENV (EC) **co-chair**
Savvas Kleanthous – Dep. Labour Inspection (CY) *observer*
Andrej Kobe – Env Agency (SLO) *observer*
Friedrich Lagler – JRC (EC)
Jiri Novak – CHMI (CZ) *observer*
Gunnar Nyquist – ITM (S)
Ciaran O’Donnel – EPA (IE)
Pascual Perez Ballesta – JRC (EC)
Remi Perret – INERIS (F)
Hans-Ulrich Pfeffer – LUA NRW (D)
Kevin Saunders – KERIS (UK) *guest*
Alfons Stadlbauer – AOOL (A)
Ken Stevenson – AEAT (UK)
Volker Stummer – UBA (D)
Kjersti Tornkvist – NILU (N)
Leszek Turzanski – Inspec. Env. Protection (PL) *observer*
Anton van der Meulen – RIVM (NL)
Jari Walden – FMI (FIN)
Peter Woods – NPL (UK) **chair**
Silvo Zlebir – Env Agency (SLO) *observer*

1) Opening of 3rd meeting

The meeting has been opened by the chair Peter Woods and the co-chair Marina Froehlich. They welcomed all participants and a Tour de Table to introduce everybody has been made.

2) Adoption of agenda (N 5)

The agenda has been adopted without changes. The 3rd meeting of AQUILA is focussing on information exchange about current work in the different EC activities and CEN WG’s, taking the opportunity that two experienced guests (Saunders, Hafkenscheid) are available.

3) Adoption of minutes of the 2nd meeting (N 4)

The minutes have been agreed without any changes.
As additional information to the minutes, Emile De Saeger is nominating Annette Borowiak as JRC’s representative/co-chair of DG JRC on the board of AQUILA.

4) Discussion on progress Memorandum of Understanding

26 laboratories are asked to join the draft MoU, which has been circulated in July 2002.

* So far 6 laboratories did not reply: EMPA (CH), MoE (E), ISCIII (E), ISPESL (I), RIVM (NL), MoMac (GR). Saul Garcia explained that the Ministry of Environment (E) is no longer regarded as National Reference Laboratory for Spain and do not want to join the AQUILA group. ISCIII (E) did not reply yet because of translation

problems, but is positive in general. M. Froehlich reports that EMPA (CH) is still negotiating with the Swiss authorities, but is generally positive to join. ISPESL (I) is delayed, but positive to join as well. RIVM is delayed as well but will come back with a statement asap.

ACTION CHAIR: ASK MINISTRY OF MACEDONIA IF THEY ARE STILL INTERESTED TO JOIN.

* FMI (FIN) was the only institute stating disagreement so far. Jari Walden explained that the legal frame seemed to be not acceptable to his authority. Further the confidentiality clause would not be acceptable.

* 10 laboratories agreed completely with the MoU.

* The following 5 laboratories proposed modifications and explained their views:

INERIS (F): The information exchange in AQUILA is not confidential, except it is especially stated (agreement in AQUILA).

NPL (UK): is proposing two additional clauses 1) if collaborative projects come out of AQUILA a new agreement should be made 2) do not support automatic replacement.

As the background of both points was not quite clear Peter Woods will ask for clarification with his legal service.

UBA (A): stress more benefits.

ACTION CHAIR: PROPOSE MORE WHEREAS CLAUSES

AEAT (UK): confidentiality & agreement needs common or unanimous majority??

ACTION SECRETARIAT: CHANGE TO UNANIMOUS

ACTION SECRETARIAT: CHANGE 5.1, SKIP 5.2

LNE (F): proposal to apply for FP 6 funding (no changes to MoU)

Emile De Saeger proposes to include the wording of designation, in order to give the participation in the MoU a stronger position. Shall AQUILA be opened to other Agencies and Ministries? The general feeling of the group is to restrict AQUILA to laboratories. If a higher authority would like to have information, the respective laboratory can inform its authority.

Accession Countries do currently have the status as observers. They are kindly encouraged to a more active participation. As soon as they are officially designated to be responsible for the implementation of Article 3 of the Air Quality Framework Directive as Reference Laboratory they might join the MoU as well.

ACTION SECRETARIAT: FIND MECHANISM FOR REPLACEMENT AND JOINING OF ADDITIONAL MEMBERS (AS ANNEX OF MOU?)

Estimated time planning: a reviewed draft will be circulated in 3 weeks, notification of NRLs on agreement/disagreement/modifications is expected by end of March!

5) AQUILA proposal to FP6?

Peter Woods and Annette Borowiak checked current call for tenders on CORDIS. It seems that there is no suitable open call at the moment. In general the group has the impression that the critical mass of AQUILA is too small for a "Network of Excellence" (NoE) or bringing in an own proposal. Peter Woods informed about an Expression of Interest which has been made in 2002, called MARQUE (Excellence in Measurement and Assessment of Air-Quality and Emissions). AQUILA could join the proposal as a subgroup. Information about the EoI can be found at:

http://eoi.cordis.lu/dsp_details.cfm?ID=31307

Alternatively AQUILA could join the future METROPOLIS network in FP 6.

6) Logo AQUILA

4 different Logos were discussed. The blue circle with the big A and AQUILA had the fewest complaints. The secretariat is asked to modify it slightly (direction of AQUILA, include possibly Europe by stars or flags) and change the name to Air Quality Reference Laboratories.

7) News about 4th Daughter Directive Draft

Stefan Jacobi presented the actual state of the art of the 4th DD for PAH and Metals as well as of the CAFE WG PM. Paper copies of his presentation have been distributed to the AQUILA group.

Air quality standards are being proposed for BaP, As, Cd and Ni. Especially for the metals the proposal to introduce air quality standards is discussed controversially within the Commission because of extremely unbalanced costs versus the benefits. No air quality standard is proposed for mercury. This air pollutant might be covered by deposition measurement; as for human health the oral uptake via the food chain is by far more important than the uptake via air. .

The CAFE WG PM is going forward to update major parts of the PM position paper from 1997 taking into account the information and experience gained since then. One major task is to gather information on the attainability of current limit values for PM10. Based on the results of the review on health effects by WHO the WG will consider recommendations on PM metrics to follow and possible targets for the future. The position paper will be discussed with MS's and other stakeholders during a workshop in June in Stockholm.

8) Setting the scene: Overview of relevant

Directives/CEN/TOR/Equivalence/Cermatair (Including WG11)

Kevin Saunders gave an overview of the connection between EC and CEN and explained the Terms of Reference. Paper copies of his presentation have been distributed.

Emile De Saeger additionally informed about CEN WG 22: certification scheme for continuous measurements.

New WG's on open path measurements and deposition measurements have been founded, but do not operate due to missing mandates yet.

9) Review / Discussion on current philosophy and status of the CEN/TC 264/WG12 standards (SO₂, O₃, NO_x, CO)

Peter Woods gave an overview about the work of CEN WG12. Paper copies have been distributed to the participants.

10) Review / Discussion of the CEN/TC 264/WG13 (Benzene)

Theo Hafkenscheid gave an overview about the 5 standards that are currently under preparation in WG 13. His presentation will be made available as pdf document and distributed to AQUILA.

11) Review / Discussion of the CEN/TC 264/WG14 (Metals)

Kevin Saunders explained the approach of the field validation, uncertainty budget and reference standard for analysis of Pb, Cd, As and Ni in PM 10. Blanks were one of the major problems. Paper copies of this presentation were distributed at the meeting.

12) CEN/TC 264/WG 21 (BaP) Report / Discussion

Theo Hafkenscheid introduced the philosophy and work of WG 21 to AQUILA and first results of analytical intercomparisons were presented. The necessity of ozone (HNO₃, NO₂) removal during sampling is discussed. The slides of this presentation will be distributed by email.

Measuring BaP is being proposed to become a legislative requirement (4th DD). The proposal includes the measurement of other PAH's at a limited number of sites (other PAH = At least 7 specifically mentioned but all on particulate phase).

The development of a CRM for BaP and Metals, PM on filters has been proposed to FP5 by Theo Hafkenscheid (with high ranking results) to be funded by the EC (DG RTD), but the project is on a reserve list at the moment.

In general the AQUILA meeting is not meant as a mirror forum for commenting and proposing changes to certain CEN WG's. However the members of AQUILA should be made aware about activities in order to get them involved at an earlier stage than official enquiries if wished.

13) CEN/TC 264/WG 15 (PM 2.5) Report / Discussion

For coherence reasons it has been decided, that the work of WG 15 (PM 2.5) is presented by Kevin Saunders. Paper copies of the presentation have been distributed. The convenor of WG 15, Anton van der Meulen, also present at the meeting, gave an introduction and listened interested to Saunders' viewpoint of his WG.

Ivo Allegrini asks if the data could be made available to AQUILA beforehand – Ton van der Meulen explained that it was decided by WG 15 to keep the data confidential, at least until the work finished. Further Allegrini suggests not eliminating outliers. The recommendations of AQUILA will be brought into the CEN WG 15.

14) Report / Discussion on EC Working Group "Equivalence"

Theo Hafkenscheid, Convener of the EC WG Equivalence, gave a presentation about the current state-of-the-art discussions and decisions of the Equivalence WG. Considering the intended use of the reference methodologies, the following definition for the demonstration of equivalency applies:

'A method equivalent to the reference method for the measurement of a specified air pollutant is a method meeting the Data Quality Objectives for continuous or fixed measurements specified in the relevant air quality directive'.

Several 'Test Programmes' covering different methods in general (continuous methods, discontinuous methods, PM) will be developed to calculate the overall uncertainty of a candidate equivalence method covering laboratory and field tests. The goal is to complete this work by September 2003.

Discussion rose on the basic idea: should the equivalence be based on metrological statistics (U = 25 %) or on some critical Directives requirements (specifically the number of exceedances of the daily limit value).

15) Presentation of CERMATAIR project (FP 5)

Theo Hafkenscheid gave an overview over the CERMATAIR project (FP5). For more information:

<http://www.cermatair.com>

A discussion came up on the benefit of reference material for diffusive sampling, keeping in mind that the largest uncertainty is sampling (not included in CRM).

The presentations of Theo Hafkenscheid (CEN WG 21, CERMATAIR, EQUIVALENCE, CEN WG 13) will be made available via electronic distribution.

ACTION SECRETARIAT: DISTRIBUTE PRESENTATIONS WHEN AVAILABLE

16) Discussion on the QA/QC Prague Conference (abstracts, time table, contents)

The web page, time schedule and conference topics have been presented. All AQUILA participants are asked to send in abstracts (deadline 31st January) and distribute information/make publicity for the conference. Deadline for registration to the conference is 28th February! More information and the brochure for downloading can be found at:

<http://ies.jrc.cec.eu.int/Units/eh/events/EAQH>

It has been decided to include poster contributions and possibly avoid parallel sessions!

ACTION SECRETARIAT: CONTACT CONFERENCE ORGANIZER FOR POSTER FACILITIES AND CHANGE WEB PAGES INFORMATION ABOUT POSTERS!

The possibility of short presentations on focused themes has been discussed (e.g. on blank handling or on particulates). The importance of good rapporteurs has been stressed in order to draw valuable conclusions.

17) Euromet - Ozone (414) & future BIPM plans and Euromet / CCQM SO₂ / NO₂ project

Peter Woods informed about the ozone photometry comparison, which was carried out by EUROMET, and will be continued and expanded by BIPM. There are further CCQMs ongoing for SO₂ and NO in gas cylinders. In case of interest the participants may contact Peter Woods for further information and involvement in the CCQMs.

18) Future workshops

- a) VOC workshop at JRC: ozone precursor measurement for the ozone directives purpose. Last intercomparison happened in 1995. What has happened in between? Restricted audience, 6 + 7 March 2003, state-of-the-art analysis, future recommendations. For further information contact bo.larsen@jrc.it
- b) Future PM 10 workshop? At the next meeting of AQUILA time will be dedicated to PM. Including scientific issues, handling, DG ENV views. See agenda point 19.
- c) QC PM10 measurement campaign in Europe organized by JRC in collaboration with AQUILA

19) Topics for future meetings

* PM 10 workshop. One full day dedicated to PM 10 and PM 2.5, role of JRC in transnational comparisons.

- * Part of each meeting: update of CEN and EC WG's
 - * Website of AQUILA. JRC shall set up a draft website.
- ACTION SECRETARIAT: DRAFT WEB SITE*
- * Experience as NRL. Some discussion and exchange of information concerning the role of NRL's, their qualities and requirements.

20) Any other business

- a) Uli Pfeffer reported about activities of the German NRL LUA (intercomparison exercises, PM comparison).
- b) Ken Stevenson presented a request on preliminary and other kind of assessment according to the requirements of the FWD.
Stefan Jacobi raised the attention on an already existing EC report giving an "Overview of methods and results of the preliminary assessment of air quality in Europe under Directives 96/62/EC and 1999/30/EC". This report is published on the web page of DG ENV (<http://europa.eu.int/comm/environment/air/ambient.htm>). A report on results of the first year of assessment under Directive 1999/30/EC is also planned to be prepared by DG ENV.
- c) Luc Bertrand would like to receive from the participants information about the performance of their used PM 10 correction factors for possible use for the WG PM.

21) Date and place of next meeting

The following proposals have been made: 23 + 24 October, 20 + 21 October, 30 + 31 October, meeting place is Ispra. The meeting will last 1.5 days, 70 % PM, 15 % Precursor, 15 % update on new information.

Note secr.: The date 23 + 24 October has been confirmed!

22) Closure

The chair Peter Woods has closed the meeting. He thanked the participants for their contributions and the JRC for the organization.

□

Annette Borowiak
20.01.03