First TRAPOS-meeting, Brussels 29/30 January 1998

Minutes and conclusions

Agenda:

1. Adoption of the meeting agenda
2. Presentation of the participants
3. Organisation and financial aspects of the Network
4. Presentation of the working plans (15-20 min for each group)
5. Employment procedure of the visiting scientists, co-ordination of the network activity
6. TRAPOS home-page
7. TRAPOS/SATURN
8. Miscellaneous

Ad. 1.
The meeting agenda was adopted without changes.

Ad. 2.
All participating institutions were represented at the meeting.. Stilianos Rafailidis was present on behalf of Michael Schatzmann from the University of Hamburg. Miroslav Jicha and Nouredine Hakimi were present on behalf of the SATURN project. All participants made a short personal presentation.

<u>Present at the meeting</u>
Ruwim Berkowicz, NERI, DK
Finn Palmgren, NERI, DK
Ole Hertel, NERI, DK
Eric Savory. U.Surrey, UK
Evgeni Fedorovich, U.Karlsruhe, DE
Mathias Rotach, ETHZ, CH
Patrice Mestayer, ECN, FR
Achim Lohmeyer, LCE, DE
Nicolas Moussiopoulos, LHTEE, GR
David Carruthers, CERC, UK
Rex Britter, CERC, UK
Kees Van den Bosch, TNO, NL
Stilianos Rafailidis, MIHU, DE
Miroslav Jicha, Faculty of Mechanical Engineering, Technical University, Brno, CZ
Nouredine Hakimi, NUMECA Int. Brussels, BE

Ad. 3.
Ruwim Berkowicz presented the organisational and economical status of the network. The first 40% of the allowable costs are received from the Commission and redistributed among the participants. About 2/3 of the network costs are reserved for Personnel Costs of Visiting Young Researchers and Networking Costs. The Network is obligated to finance at least 264 men-months of the Young Researchers.

Only travelling expenses between two countries can be covered by the TRAPOS budged. Not within the same country (MOBILITY).

It was agreed that a co-ordination group consisting of leading senior scientists (scientists in charge) from each of the Participants will be established. This group will be responsible for implementation of research results and co-ordination of the work performed by the visiting scientists. Publications and working reports concerning results obtained in the frames of the network will be evaluated by the co-ordination group. At least two of the co-ordination group members should actively respond on the submitted publications. They should preferably be experts in one of the disciplines relevant for the publication (modelling, wind-tunnels, measurements, etc.). The reviewing process can be performed by other scientists from the institute of the co-ordination group member, but carefully preserving the necessary confidentiality. The reviewing is advisory only.

Ad. 4.
Each of the participants has presented the general work of their groups and their contribution to TRAPOS (see the copies of the presented transparencies, they will be distributed later by ordinary post).

Identified highlights:

- Implementation of results from CFD-models and wind-tunnel measurements into practical street pollution models (NERI, TNO, LCE, CERC).
- Evaluation strategy and model testing in view of regulatory applications (CERC, LCE, TNO).
- Development of models for dispersion and transformation of particulates (NERI).
- CFD-modelling with special regards to the importance of building topography (roofs, etc.) on dispersion in streets (ECN, U.Karlsruhe, LHTEE).
- CFD-modelling with special regards to the importance of thermal effects on dispersion in streets (ECN, U.Karlsruhe, LHTEE).
- Identification of velocity and length scales for the flow/turbulence fields within typical street canyons from full scale and wind tunnel experiments (ETHZ).
- Wind-tunnel measurements with special regards to the importance of building topography (roofs, etc.) on dispersion in streets (MIHU, U.Karlsruhe, U.Surrey)
- Wind-tunnel measurements with special regards on traffic created turbulence (U.Karlsruhe, MIHU).
- Wind-tunnel measurements with special regards on thermal effects (U.Surrey).
- Modelling of traffic created turbulence (U.Karlsruhe, NERI, ECN)
- Chemical transformations in streets (ECN, LHTEE, NERI)

Ad. 5.
Conditions of employment of young visiting scientists were discussed (see the copy of the presented transparencies by RB). The participants should start to establish the necessary contacts in order to find the appropriate persons. It is preferred, but not necessary, to look for the potential visiting scientists among the participating groups. All suitable forms of advertising are permitted. It is possible to advertise on the CORDIS home-page (http://www.cordis.lu/tmr/src/network1.htm) the candidates must have a doctor degree. Experienced young scientist without a doctor degree should also be considered. The rules of employment and salary must be determined by the host institution. No approval by the Commission is required.

Ad. 6.
The TRAPOS home-page is created at NERI (http://www.dmu.dk/AtmosphericEnvironment/trapos) It was agreed that each of the participating groups will soon submit a one-page description of their contribution to TRAPOS. Links will eventually be created to home-pages of the participants. There should also be links from the participants home-pages to the TRAPOS home-page at NERI. Links to other relevant home pages will also be established (SATURN, COST615, etc.).

The participants are encouraged to provide access to download models and data-sets from the home-page. The access to the data and models might, however, be limited to the members of the Network and associated groups (password protection or similar).

Ad. 7.
Nicolas Moussiopoulos outlined the expected relationships between SATURN and TRAPOS. TRAPOS is considered as part of the MOD1 sub-project.

Ad. 8.
It was decided to organise a workshop on street pollution modelling (and related topics, as e.g. meteorological input data), where the participants of the Network will present their modelling work. The workshop should also be open for groups not within TRAPOS. The possible time for the workshop is October 1998. It would be most convenient (at least for RB) to have the workshop in Copenhagen. It is also possible to have the workshop in connection with the APMS98 Air Pollution Modelling and Simulation conference in France, October 26-29. This possibility should be investigated, but not considered as a primarily option (RB's opinion). In order to find a suitable date for the workshop, in the case it will be organised in Copenhagen, all the participants are asked to fill the enclosed list with indication of the not suitable dates and forward it to NERI no later than February 23. The suggested name for the workshop: TRAPOS Workshop on Mathematical Modelling of Pollution from Traffic in Urban Areas. We may consider a joint submission of the proceedings from the workshop for publication in an international journal (e.g. Atmospheric Environment).

The next TRAPOS workshop might be on wind-tunnel modelling.

NERI, 19. February 1998