

## **ANNEX V**

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### **A List of all publications**



## **EXPOLIS publishing status in 18.6.1999**

### **1. Articles and manuscripts in international peer reviewed journals**

Jantunen MJ, Hänninen O, Katsouyanni K, Knöppel H, Kuenzli N, Lebret E, Maroni M, Saarela K, Sram R, Zmirou D. Air pollution exposure in European cities: The "Expolis"-study. *Journal for Exposure Analysis and Environmental Epidemiology*, Vol 8, No.4, 1998; 495-518.

Boudet C, Dechenaux J, Balducci F, Masclet P, Zmirou D. Total personal exposure to fine particulate matter in a adult urban population: the role of ambient air and transport. *Int. J. Vehicle Design*. Vol 20, no 1-4, p 30-38, 1998.

Koistinen KJ, Kousa A, Tenhola V, Hänninen O, and Jantunen MJ. Fine particle (PM<sub>2.5</sub>) measurement methodology, quality assurance procedures and pilot results of the EXPOLIS study. Submitted to *Journal of Air & Waste Management*.

Boudet C, Poizeau D, Vestri V, Zmirou D. Fraction of PM<sub>2.5</sub> personal exposure attributable to urban traffic: a modeling approach. Submitted to *Inhalation Toxicology*, 1999.

Boudet C, Zmirou D, Dechenaux J. Exposition personnelle aux particules fines (PM<sub>2.5</sub>) de la population grenobloise: 'étude européenne EXPOLIS. Submitted to *Revue d'Epidemiologie et de Santé Publique*. 1999.

Boudet C, Dechenaux J, Zmirou D. Variabilité spatio-temporelle des ratios PM<sub>2.5</sub>/PM<sub>10</sub> et conséquences sur les études d'évaluation de l'exposition. Submitted to *Pollution Atmosphérique*, 1999.

Boudet C, Zmirou D, Künzli N, and Oglesby L. Subjects adapt time-activity pattern during participation in a personal exposure assessment study. Submitted to *Epidemiology*, 1999.

### **2. Articles in international textbooks and peer reviewed conference proceedings**

Jantunen MJ, Hänninen O, Saarela K, Cavallo D, Katsouyanni K, Lebret E, Kuenzli N, Sram R, Zmirou D. Air pollution exposure distributions of adult urban populations in Europe: Design of the Expolis study. The 7th International conference on Indoor Air Quality and Climate, July 21-26, 1996 Nagoya, Japan. *Proceedings vol 1*, pp 1125-29.

Jurvelin J, Bortoli M de, Cavallo D, Knöppel H, Künzli N, Laine-Ylijoki J, Oglesby L, Saarela K, and Jantunen MJ. Methodology and quality assurance of VOC measurements in the Expolis study. *Advances in Occupational Medicine & Rehabilitation*. Volatile organic compounds in the environment. Risk assessment and neurotoxicity (Edited by L. Manzo, J Descotes, J Hoskins) Volume 3, Number 3, pp 27-32, 1997.

Saarela K, Laine-Ylijoki J, Jurvelin J.A., and Jantunen M. Effect of sampling duration on VOC-determination from indoor air. *Indoor Air* August 8-12, 1999, Edinburgh.

### 3. Articles in domestic peer reviewed journals

Jantunen MJ, Hänninen O, Saarela K, Cavallo D, Katsouyanni K, Lebret E, Kuenzli N, Sram R, Zmirou D. Design of the pollution based study (APED-AUPE) on urban air pollution exposure in Europe. *Ilmansuojelu-uutiset (Finnish Air Pollution Prevention Society News)* 1/96 6-8.

Hänninen O. Yhdyskuntailman laadun arviointi - mitä kannattaa mitata ja mallittaa. *Ympäristö ja Terveys (Finnish Environment and Health Journal)* 6/96 56-60.

Tenhola V ja Jantunen M. Pienhiukkasten terveysriskien arviointi. *Ympäristö ja Terveys (Finnish Environment and Health Journal)* 1/99, 52-57.

### 4. Articles in domestic textbooks and peer reviewed conference proceedings

Künzli N. The EXPOLIS Project. *Forum Lufthygiene und Atemwege. Diskussionsforum, Basel, CH, 22. Oktober 1996.*

Künzli N. Methodik des Projektes EXPOLIS. *Lufthygiene Tagung Cercle Air, Bern, CH, 30. Januar 1997.*

Koistinen K, Kousa A, Tenhola V, Jantunen M. Methodology and quality assurance in particle (PM<sub>2.5</sub>) measurements in the Expolis study. In Hämeri K, and Ahonen P (eds.) *The Sixth Finnish National Aerosol Symposium, April 15-16, 1997. Report Series in Aerosol Science No:31 1997, 136-141.*

Jantunen M. Exposure - New approach to air pollution. *Proceedings for Third Finnish Conference of Environmental Sciences, Jyväskylä 9-10, May, Ambiotica 1/1997, 81.*

Koistinen K, Kousa A, Tenhola V, Jantunen M. Fine particle measurements in the Expolis study; Methodology and quality assurance. *Proceedings for Third Finnish Conference of Environmental Sciences, Jyväskylä 9-10, May, 1997 Ambiotica 1/1997, 88-91.*

Jurvelin J, DeBortoli M, Cavallo D, Knöppel H, Künzli N, Laine-Ylijoki J, Saarela K, Jantunen M. VOC measurements in the Expolis-study; Methodology and quality assurance. *Proceedings for Third Finnish Conference of Environmental Sciences, Jyväskylä 9-10, May, 1997, Ambiotica 1/1997, 321-324.*

Rotko T, Jantunen M. Socioeconomic factors in Expolis study. *Proceedings for Third Finnish Conference of Environmental Sciences, Jyväskylä 9-10, May, 1997, Ambiotica 1/1997, 336-339.*

Vartiainen M, Alm S, Jantunen M. Commuter exposure to different sizes of particles and CO inside an automobile. *Proceedings for Third Finnish Conference of Environmental Sciences, Jyväskylä 9-10, May, 1997. Ambiotica 1/1997, 353-356.*

Tenhola V, Jantunen MJ (1997). Use of a pilot study in developing the PM<sub>2.5</sub> measurements in the EXPOLIS study, Valamo Conference on Environmental Health and Risk Assessment - Health Risks of Inhaled Particles, September 18-21, 1997, Valamo Monastery, Heinävesi, Finland

Jurvelin J, Jantunen MJ (1997). Exposure to fine particles in traffic. Valamo Conference on Environmental Health and Risk Assessment - Health Risks of Inhaled Particles, September 18-21, 1997, Valamo Monastery, Heinävesi, Finland

Hänninen O, Kruize H, Breuglemans O, Lebret E, Samoli E, Lambros G, Katsouyanni K, Jantunen MJ (1997). Simulation of population exposure. Valamo Conference on Environmental Health and Risk Assessment - Health Risks of Inhaled Particles, September 18-21, 1997, Valamo Monastery, Heinävesi, Finland

Jantunen MJ (1997). Issues in the scientific and political argumentation about the health effects of fine PM. Valamo Conference on Environmental Health and Risk Assessment - Health Risks of Inhaled Particles, September 18-21, 1997, Valamo Monastery, Heinävesi, Finland

Jantunen MJ (1997). Exposure to fine particles: Summary of the field studies. Valamo Conference on Environmental Health and Risk Assessment - Health Risks of Inhaled Particles, September 18-21, 1997, Valamo Monastery, Heinävesi, Finland

Rotko T, Stambej T, Jantunen MJ, Notkola V (1997) Socioeconomic distribution of the population exposure to fine particles. Valamo Conference on Environmental Health and Risk Assessment - Health Risks of Inhaled Particles, September 18-21, 1997, Valamo Monastery, Heinävesi, Finland

Koistinen K, Kousa A, Tenhola V, Jantunen MJ (1997). Personal and microenvironmental fine particle (PM<sub>2.5</sub>) measurements in the EXPOLIS study: Methodology and quality assurance. Valamo Conference on Environmental Health and Risk Assessment - Health Risks of Inhaled Particles, September 18-21, 1997, Valamo Monastery, Heinävesi, Finland

Kousa A (1997). Characterisation of particulate exposure. Valamo Conference on Environmental Health and Risk Assessment - Health Risks of Inhaled Particles, September 18-21, 1997, Valamo Monastery, Heinävesi, Finland

Oglesby L., Künzli N, Braun-Fahrlander CH., Camenzind M: "Variability of PM<sub>2.5</sub>-Exposure within the City of Basel: Personal and Microenvironmental Measurements vs. Fixed-Site Concentrations: First Results of the EXPOLIS- and BRISKA studies", Valamo Conference on Environmental Health and Risk Assessment - Health Risks of Inhaled Particles, September 18-21, Valamo Monastery, Heinävesi, Finland

Schwickert DM, Oglesby L, Monn CH, Camenzind M, Künzli N: "Feinstaubbelastung in verschiedenen Verkehrsmitteln", Schweizerische Gesellschaft für Prävention und Gesundheitswesen, Wissenschaftliche Jahrestagung 1997, 19./20. Juni 1997, Inselspital Bern, Schweiz

Jurvelin J, De Bortoli M, Cavallo D, Knöppel H, Künzli N, Laine-Ylijoki J, Saarela K,

Jantunen MJ. Methodology and quality assurance of VOC measurements in the Expolis-study. International Conference on Volatile Organic Compounds in the Environment, Risk Assessment, and Neurotoxicity, Pavia, Italy October 5-7, 1997

Jantunen M, Saarela K, Tountas Y, Künzli N, Zmirou D, Maroni M, Lebret E, Sram R. Air pollution exposure distributions of adult urban populations in Europe (EXPOLIS). In: Ecosystems research reports series no. 28: Environment, health and chemical safety: Proceedings of an EC research workshop in Athens on 22-25 March 1998. Luxembourg: European Commission, 1998; 53-9.

Mathys P, Stern WB, Oglesby L, Ackermann-Liebrich L, Braun-Fahrländer C, Jantunen M, Monn C, Künzli N. Elemental Analysis Study in EXPOLIS, Abstract for EXPOLIS Seminar, Musé d'Histoire Naturelle, Paris 9-10 April, 1999.

Oglesby L, Künzli N, Jantunen M, and EXPOLIS TEAM. Fine Particles (PM<sub>2.5</sub>): Personal and Microenvironmental Exposures in Europe, Abstract for EXPOLIS Seminar, Musé d'Histoire Naturelle, Paris 9-10 April, 1999.

Kruize H, Hänninen O, Lebret E. Simulation of exposure distributions in Expolis. Abstract for EXPOLIS Seminar, Musé d'Histoire Naturelle, Paris 9-10 April, 1999.

Saarela K and Wellman K. Volatile organic compounds, VOCs, in the EXPOLIS study. Presentation of VOC results in EXPOLIS Seminar, Musé d'Histoire Naturelle, Paris 9-10 April, 1999

## 5. International conference abstracts

### Presented:

Alm S, Jantunen MJ, Mukala K. Stationary measurements and personal NO<sub>2</sub> exposure among preschool children in Helsinki. Annual Meeting of SRA/ISEA, December 8-12.1996

Jantunen MJ, Hänninen O, Saarela K, Maroni M, Katsouyanni K, Lebret E, Kuenzli N, Sram R, Zmirou D. Air pollution exposure distributions of adult urban populations in Europe: The Expolis study. Annual Meeting of SRA/ISEA, December 8-12.1996

Boudet C, Dechenaux J, Balducci F, Masclat P, Zmirou D. Total personal exposure to fine particulate matter in a urban adult population: the role of ambient air and transport. Avignon International Symposium on Transports and Air Quality 9-13, June 1997, 9 pages.

Oglesby L, Künzli N, Braun-Fährlander C, Monn C, Jantunen M. Personal exposure data: Benefit for air pollution epidemiology. International Society of Exposure Analysis (ISEA) annual meeting Research Triangle Park, NC, November 2-5, 1997

Boudet C, Kuenzli N, Zmirou D, Oblesby L. Subjects adapt time-activity patterns during participation in a personal exposure assessment study. Society of Exposure Analysis (ISEA) annual meeting Research Triangle Park, NC, November 2-5, 1997

Boudet C, Dechenaux J, Vigier N, Kuenzli N, Zmirou D, Camenzind M, Oglesby L, Braun-

Fährlander Ch. Spatial and temporal variability in PM<sub>2.5</sub>/PM<sub>10</sub> ratio in two European towns and consequences on exposure assessment studies. Society of Exposure Analysis (ISEA) annual meeting Research Triangle Park, NC, November 2-5, 1997

Koistinen K, Kousa A, Tenhola V, Oglesby L, Georgoulis L, Cavallo D, Polanska L, Boudet C, Jantunen M. Comparability of personal and microenvironmental PM<sub>2.5</sub> equipment in an international study. Society of Exposure Analysis (ISEA) annual meeting Research Triangle Park, NC, November 2-5, 1997

Hänninen O, Kruize H, Samoli E, Georgoulis L, Katsouyanni K, Lebret E, Jantunen M. Simulation framework for assessing air pollution exposure distributions of urban populations in the Expolis project. Society of Exposure Analysis (ISEA) annual meeting Research Triangle Park, NC, November 2-5, 1997

Jurvelin J, DeBortoli M, Cavallo D, Knoeppel H, Kuenzli N, Laine-Ylijoki J, Oglesby L, Saarela K, Schläpfer K, Jantunen MJ. Performance of two VOC exposure measurement techniques in the Expolis-study. Society of Exposure Analysis (ISEA) annual meeting Research Triangle Park, NC, November 2-5, 1997

Jantunen MJ, Hänninen O, Katsouyanni K, Knöppel H, Kuenzli N, Lebret E, Maroni M, Saarela K, Sram R, Zmirou D. Air pollution exposure distributions of adult urban populations in Europe: Field phase of the "Expolis"-study. Society of Exposure Analysis (ISEA) annual meeting Research Triangle Park, NC, November 2-5, 1997

Alm S, Vartiainen M, Jantunen MJ. Commuter exposures to different sizes of particles and CO inside an automobile. Society of Exposure Analysis (ISEA) annual meeting Research Triangle Park, NC, November 2-5, 1997

Jantunen M: Application of Personal Exposure Data for Urban Air Quality Management: It Can Be Done. *Epidemiology* 1998; 9, 4, S69. Annual ISEE/ISEA conference, Boston, MA, August 16-19, 1998

Katsouyanni K: Application of personal exposure data in air pollution epidemiology investigating short term health effects. *Epidemiology* 1998; 9,4, S68 Annual ISEE/ISEA conference Boston, MA, August 16-19, 1998

Oglesby L: Air Pollution Exposure Assessment: Shall We Ask or Measure. *Epidemiology* 1998, 9; 4, S68 Annual ISEE/ISEA Conference, Boston, MA, August 16-19, 1998.

Oglesby L, Krütli P, Künzli N, Jantunen M. Better air- better participation? Evaluation of selection bias in the European Air Pollution Exposure Study EXPOLIS. *Epidemiology* 1998; 9,4, S87. Annual ISEE/ISEA conference Boston, MA, August 16-19, 1998.

Künzli N: Personal Exposure data in Air Pollution Epidemiology for Long-Term Health Effects. *Epidemiology* 1998;9,4, S69. Annual ISEE/ISEA conference, Boston, MA, August 16-19, 1998

Polanska L, Tischerova E, Sram R, Jantunen M. Personal vs. Microenvironmental PM<sub>2.5</sub>



Exposure Monitoring in EXPOLIS Study: Prague Experience. *Epidemiology* 1998; 9, 4, S86. Annual ISEE/ISEA conference, Boston, MA, August 16-19, 1998

Boudet C, D. Zmirou, J. Déchenaux, P. Masclet: Assessment of the Personal Exposure to PM<sub>2.5</sub> Fraction Attributable to Traffic Exhausts: a First Approach. Society of Exposure Analysis (ISEA) and International Society for Environmental Epidemiology (ISEE) annual meeting, Boston, MA, August 16-19, 1998

Rotko T, E Samoli, L Oblesby, K Katsouyanni, N Künzli, M Jantunen: Smoking Prevalence, Annoyance and SES-Related Variables in 3 European EXPOLIS Cities. *Epidemiology* 1998; 9, 4, S88. Annual ISEE/ISEA conference , Boston, MA, August 16-19, 1998

Rotko, T., Koistinen, K., Jantunen, M.: Sociodemographic Differences of the Population Exposure to Fine Particles in Helsinki. *Epidemiology* 1998; 9, 4, S88. Annual ISEE/ISEA conference , Boston, MA, August 16-19, 1998

Georgoulis L, E Samoli, P Vouros, K Katsouyanni, M Jantunen: Urban Commuting and CO Exposure: A Preliminary Analysis within the EXPOLIS project. *Epidemiology* 1998; 9, 4 S87. Annual ISEE/ISEA conference, Boston, MA, August 16-19, 1998

Georgoulis L, E. Samoli, L.Oglesby, N.Kuenzli, K. Katsouyanni, M. Jantunen: Can personal exposure to particulate matter be predicted by time activity diaries and fixed site monitoring data? *Epidemiology* 1998; 9, 4,S86. Annual ISEE/ISEA conference , Boston, MA, August 16-19, 1998

Jurvelin JA, Vartiainen M, Pasanen P, and Jantunen MJ. Personal exposure to formaldehyde and acetaldehyde. *Epidemiology* 1998; 9, 4, S107. Annual ISEE/ISEA conference, Boston, MA, August 16-19, 1998

Tähtinen M, JA Jurvelin, J Laine-Ylijoki, K Saarela and MJ Jantunen. Comparison of Indoor and Outdoor VOC Concentrations in Helsinki Metropolitan Area. *Epidemiology* 1998; 9, 4, S108. Annual ISEE/ISEA conference, Boston, MA, August 16-19, 1998

Hänninen O, Samoli E, Breugelmans O, Kruize H, Katsouyanni K, Künzli N, Lebret E, Jantunen M: EXPOLIS Database for Exposure Assessment and Simulation with Data from Six European Cities. *Epidemiology* 1998; 9, 4, S88. Annual ISEE/ISEA conference, Boston, MA, August 16-19, 1998

Stambej T, Koistinen K, Hänninen O, and Jantunen M. Determinants fro PM<sub>2.5</sub> personal exposures in Helsinki. *Epidemiology* 1998; 9, 4, S88. Annual ISEE/ISEA conference, Boston, MA, August 16-19, 1998

Kousa A, Jantunen M: Centrally Monitored, Home Indoor and Outdoor and Personal Fine PM Levels During the Haze, 17-23.10.1997, in Kuala Lumpur, Malaysia. *Epidemiology* 1998; 9, 4, S103. Annual ISEE/ISEA conference , Boston, MA, August 16-19, 1998

Kousa A, Tenhola V, Camenzind M, Oglesby L Spatial variability of PM<sub>2.5</sub> outdoor levels from the Expolis study. *Epidemiology* 1998; 9, 4 S87. Annual ISEE/ISEA conference, Boston, Ma August 16-19.1998.



Kruize H, Breugelmans O, Hollander AEM de, Hänninen O, Lebret E. Microenvironmental exposure simulation in Expolis. *Epidemiology*, 1998; 9;4, S87. Proceedings of the Annual ISEE/ISEA Conference 1998, Boston, Ma, USA.

## 6. Non peer reviewed scientific articles

Jantunen M, Hänninen O: Air Pollution Exposure in European Cities: The "EXPOLIS" Study. Newsletter, WHO Collaborating Centre for Air Quality Management and Air Pollution Control, at Inst WaBoLu, BGA, Berlin, Germany. No:20, Dec. 1997, p 10-14

Hänninen O. Väestön altistus ilman epäpuhtauksille mitataan. Ilmansuojelun neuvottelukunnan seminaari, Helsinki 30.10.1996, 3 sivua.

Hänninen O. Väestön altistus ilman epäpuhtauksille mitataan - Expolis alkanut. *Kansanterveys* 1/1997.

## 7. Plenaries, seminar presentations, meeting reports...

Jantunen M. Volatile organic compounds (VOC) exposures and health effects. Buildings for Healthy Living, Prague 21-24.5.1996.

Jantunen M. Health effects of air pollutants: Review of the outdoor - indoor international studies. ARIA '96, 4<sup>o</sup> Convegno Nazionale dell'Associazione ARIA, 12-14 giugno 1996.

Jantunen M. Health effects of air pollutants: Review of the international studies. Tampereen TTK seminaari (Tampere Technical University Seminar) 3.10.1996, 16 pp.

Jantunen M. PM Exposure: Review of the outdoor-indoor international studies. Pienhiukkasseminaari TTKK (Tampere Technical University Fine Particle Seminar), 6.5.1997, Tampere, Finland

## 8. Reports:

Schwickert DM (Betreuung: Monn Ch. ETH, Künzli N.) Feinstaubbelastung in verschiedenen Verkehrsmitteln. Ein Projekt im Rahmen von EXPOLIS, Diplomarbeit Umweltnaturwissenschaften (Master Thesis in environmental sciences), ETH Zürich, Switzerland, März 1997

Künzli, N. Oglesby, L., Air Pollution Exposure Distributions of Adult Urban Populations in Europe "EXPOLIS", Intermediate Scientific Report for the Federal Office for Education and Sciences (BBW), Basel, Switzerland, 24.7.97

Tenhola V. PM<sub>2.5</sub> particle mass collection methods in the Expolis study. Techniques, quality assurance and quality control. Master thesis. University of Kuopio, Environmental Sciences, May 1998.