EUROPEAN CONCERTED ACTION INDOOR AIR QUALITY & ITS IMPACT ON MAN COST Project 613

Environment and Quality of Life

Report No. 5

Project Inventory

The Community-COST Concertation Committee





Commission of the European Communities Directorate General for Science, Research and Development Joint Research Centre - Institute for the Environment

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1. INTRODUCTION

The Community-COST Concerted Action "Indoor Air Quality & Its Impact on Man" has the scope to promote research and knowledge in this field in the participating European Countries. Operated by a Concertation Committee composed of representatives of the participating Countries and of the Commission (see enclosed list) the Concerted Action intends to

- promote mutual information and contacts between research groups in the participating countries,
- assess the status of knowledge and research needs,
- develop through working groups common research instruments such as guidelines for various types of measurements (e.g. emissions from materials, surveys in indoor spaces, "sick building syndrome" investigations),
- validate measurement methods through the organization of interlaboratory comparisons
- organize discussion meetings on various aspects of its field of action.

For all these activities an *inventory* of ongoing or recently concluded research projects is an important working tool, in particular for identifying expert knowledge in various fields.

Moreover the inventory will enable workers in the field to identify colleagues with similar interests and will hopefully promote contacts within the indoor air quality community.

Although we have made considerable efforts to render this first edition as complete as possible with a total of 239 projects there will still be ongoing work of which we are unaware. We will be grateful for any communication of as yet unreported work and for any corrections or modifications to reported projects. For this purpose empty project reporting forms are included.

It is intended to issue updated versions of the inventory every 12 - 18 months depending on the number of new projects and alterations to those already reported which are received. Projects will no longer be included in the inventory two years after their completion. However a list of titles of completed projects and of names and addresses of their principal investigators will be included, in order to give users the opportunity to contact people with experience in their fields of interest.

Project forms which are lacking one of the following items will also not be included in the inventory: Institute, address, name of principal investigator, descriptive project title and keywords. Starting with the next edition also projects without indication of the year of their start and envisaged end will no longer be included but only mentioned in the list of those already completed. Please ensure that the envisaged end of your project(s) is correctly reported. If your project is open ended, please state this clearly.

'When reporting new projects, please, describe them with keywords taken from the enclosed keyword list. Add new keywords only if absolutely necessary.

Please, send information on new projects or on changes or corrections to those reported at your earliest convenience to:

Dr. Helmut Knöppel
Joint Research Centre
Institute for the Environment
I-21020 Ispra (VA), Italy

We hope that the inventory will be useful for you and thank for your collaboration.

Bernd Seifert
Chairman of the
Concertation Committee

Maurizio De Bortoli Secretary Helmut Knöppel CEC responsible

2. KEYWORDS

Please choose from the following list those **keywords** which characterize your project(s) best. Words in parentheses serve for explanation of keywords and need not to be reported.

KEYWORDS RELATED TO GENERAL PROJECT OBJECTIVES

adsorption annual exposure bioaccumulation concentrations

control

control techniques

cost/benefit (evaluations or calculations)

diurnal dose

electrostatic filters

emissions

energy conservation

exposure guidelines

indoor/outdoor ratios

reactions reactive

seasonal variations

spatial variations

standards (control) strategies

surfaces

TLV (threshold limit values)

variations (of concentrations/exposure)

SOURCE RELATED KEYWORDS

sources (of pollution; if possible specify source)

building equipment building materials combustion (sources)

dogs

drinking water dry cleaning shops external sources

filter systems

furniture

gas cookers

harbour sludge

hobby activities

hobby products

home textiles

household products

outdoor air paints

paraffin heaters

pets plants

refuse shoots renovation

renovation

screen printing plants

soil

soil characteristics

uffi water

waterborne

POLLUTANT RELATED KEYWORDS

aerosols

aldehydes allergens

ammonia

asbestos

bacteria

biocides

biological (pollution)

charged particles

chemical

chloramines

chlorinated dioxins

chlorinated H(ydro-)C(arbons)

chlorine

dioxin

ETS (Environmental Tobacco Smoke)

fibres

food contamination

formaldehyde

fungi

gamma radiation

gases

halogenated H(ydro-)C(arbons)

HCHO (formaldehyde)

home dust

inorganic (chemical)

insecticides

ions

isocyanates

lindane metals

metais

mites

MMMF (man made mineral fibres)

mould noise

NO_X (NO₂, NO)

N-PAH

odours

organic (chemical)

other microorganisms

ozone

PAH (polycyclic aromatic hydrocarbons)

PCB (polychlorinated biphenyls)

PCP (pentachlorophenol)

perchloroethylene (= tetrachloroethylene)

PM (particulate matter)

pollution

pollutants

POM (particulate organic matter = organics extractable from particulate matter)

radioactivity

radon

 SO_2

solvents

styrene

suspended particulates

SVOC (semivolatile organic compounds)

tetrachloroethylene (= perchloroethylene)

vapours

VOC (volatile oranic compounds)

INDOOR ENVIRONMENT RELATED KEYWORDS

buildings (specify further if possible) day-care-centres developing countries dwellings hospitals industrial buildings mobile homes new buildings offices residences schools (incl. nursery schools, universities etc.) sport establishments swimming halls temporary building traffic related (environments, including cars) underground

EFFECT AND OCCUPANT RELATED KEYWORDS

airway allergy asthma asthmatic atopic (neuro-) behavioural effects biochemical effects bronchoreactivity cancer cancerogenic chemical sensitivity children **CNSLD** comfort complaint study complaints (study, investigation) effects (add further specification if possible:) elderly employees general population (other) genotoxicity health hyperreactivity hypersensitivity immunotoxicity infection infestation inhalation irritation (mucuous membranes, eyes, skin) lung function mutagenicity nasal function neurotoxicity non-respiratory nurses

occupants

other immune effects

other systemic (diseases)

physiological (reactions)

respiratory (effects)
risk (assessment, estimate, calculation, analysis)
risk groups
SBS (= "Sick" Building Syndrome investigation)
sensory effects
susceptible groups
toxicological
toxicology

CLIMATE/VENTILATION RELATED KEYWORDS

ACS (Air Conditioning System)
air infiltration
air movement
climate (temperature a/o humidity)
condensation
forced ventilation
humidity
meteorological factors
meteorology
moisture
natural ventilation
temperature
ventilation

METHOD RELATED KEYWORDS

analysis animal study assessment bioassav biochemical monitoring biological monitoring chamber study (human) controlled exposure (study) data base, detection (of any parameter) detection methods development environmental monitoring epidemiological study epidemiology evaluation field measurements field trials interlaboratory comparison inventory investigations in vitro study measurement (of any parameter) measurement methods methods mice modeled approach models multi zonal passive samplers. representative survey review sampling standardization subjective evaluation

validation

3. ORGANIZATION OF THE PROJECT INVENTORY

Information on the projects is contained on formated sheets three of which are accommodated on each page. The projects of each country are grouped together. An identification number has been attributed to each project composed of the country code as used for automobiles and a number. Numbers are sequential and start from 1. They are attributed arbitrarily and may differ from one edition of the inventory to the next.

The project descriptions (section 5.) are preceded by an alphabetic list (section 4.) of all keywords occurring in the project descriptions together with the corresponding project identification number(s) and (in parentheses) the number of times the keyword is occurring.

Section 6. contains the project title and the name and address of the principal investigator for projects which were completed more than two years previously or whose description is lacking important information (see introduction section). These projects are also grouped according to their country of origin.

4. KEYWORDS IN ALPHABETIC ORDER WITH PROJECT IDENTIFICATION NUMBERS

ACS (9) DK 43, P 1, D 23, GB 5, NL 23, NL 30, F 7, F 31,

30

aerosols (2) D 16, CH 22

air-infiltration (2) NL 24, CEC 3

air-movement (16) P 1, GB 6, GB 16, GB 19, GB 26, NL 9, NL 25, NL

29, NL 31, F 27, F 28, CH 4, CH 7, CH 18, CH 20,

CH 24

airway (1) GB 41

aldehydes (2) F 11, F 19

allergens (4) D 14, D 23, D 24, NL 4

allergy (5) DK 1, D 5, D 17, NL 23, F 3

ammonia (1) GB 12

animal-study (7) DK 32, D 10, D 13, D 17, D 21, D 16, F 12

annual-exposure (1) DK 22

asbestos (8) GB 1, GB 9, GB 10, GB 27, GB 29, GB 32, GB 35,

F 6

assessment (26) DK 19, DK 24, DK 26, P 3, IRL 1, GR 1, GR 2, D 5,

D 15, D 21, D 24, D 31, GB 1, GB 14, GB 15, GB 21, GB 22, GB 27, GB 29, GB 34, GB 35, NL 32,

NL 19, 14, 15, CH 14

asthma (2) DK 1, CH 23

asthmatic (5) DK 7, DK 13, DK 40, GB 3, GB 41

atopic (1) DK 13

bacteria (1) F 32

behavioural (4) DK 4, DK 6, F 4, CH 9

bioaccumulation (1) GR 5

bioassay (1) DK 32

biochemical-monitoring (1) D 19

biocides (6) D 19, D 29, D 30, D 32, GB 39, CH 17

biological (25) DK 12, D 14, D 23, D 24, GB 22, GB 39, GB 20,

NL 4, NL 8, NL 16, NL 18, NL 20, NL 23, NL 24, NL 33, NL 36, F 2, F 3, F 4, F 8, F 24, F 31, F 32, I

8, CH 22

biological-monitoring (8) GR 4, GR 5, D 6, D 18, D 27, D 20, GB 39, I 3

bronchoreactivity (1) DK 40

building-equipment (4) D 1, D 9, D 24, NL 7

building-materials (26) DK 8, DK 9, DK 18, DK 32, DK 33, DK 34, DK 37,

P 2, GR 1, D 2, D 15, D 18, D 19, D 29, D 32, GB 4, GB 9, NL 7, NL 17, NL 32, F 29, I 9, I 11, CH 3,

CH 8, CEC 2

buildings (30) DK 19, DK 27, DK 41, IRL 2, GB 27, GB 28, GB

29, GB 30, GB 35, NL 26, F 2, F 5, F 6, F 8, F 9, F 16, F 18, F 19, F 20, F 25, F 26, F 27, F 29, F 30, I

7, 18, CH 2, CH 6, CH 25, CH 26

cancer (1) NL 36

cancerogenic (1) F 12

chamber-study (17) DK 8, DK 10, DK 18, DK 32, DK 33, DK 34, DK

40, D 9, D 13, D 17, D 21, D 16, F 1, F 17, F 25,

CH 10, CEC 2

charged-particles (1) GB 17

chemical-sensitivity (1) GB 15

children (11) D 11, D 12, D 18, D 29, D 32, D 3, GB 2, GB 25,

GB 32, I 12 CH 19

chloramines (1) F 19

chlorinated-HC (5) GR 7, D 7, D 25, D 31, D 20

chlorinated-dioxins (2) D 29, D 30

chlorine (1) D 16

climate (21) P 1, GB 14, GB 22, GB 26, NL 6, NL 8, NL 9, NL

16, NL 18, NL 22, NL 23, NL 24, NL 25, NL 26, NL

28, F 23, F 24, F 27, F 30, F 31, F 32

combustion (8) GB 3, GB 25, NL 14, NL 18, F 9, F 14, F 20, I 1

comfort (2) GB 26, NL 6

complaint-study (2) NL 18, CEC 4

complaints (11) DK 1, IRL 2, D 30, GB 5, GB 14, NL 15, NL 21, NL

22, CH 11, CH 18, CH 20

concentrations (46) DK 9, DK 21, DK 22, DK 30, DK 44, DK 37, DK

39, P 2, P 3, GR 7, D 4, D 11, D 17, D 22, D 27, D 28, GB 1, GB 7, GB 9, GB 10, GB 25, GB 27, GB 29, GB 33, GB 34, GB 35, GB 36, GB 39, GB 20, NL 31, NL 35, F 13, F 14, F 18, F 20, F 29, F 31, F 32, I 2, I 4, CH 1, CH 2, CH 16, CH 17, CEC 3, CEC

condensation (1) **GB 22**

DK 21, DK 23, DK 30, D 2, D, 14, GB 11, GB 21, GB 27, GB 29, GB 30, NL 5, NL 8, NI 11, NI 23, F control (19)

29, F 30, CH 12, CH 21, CH 22

control-techniques (1) **DK 15**

controlled-exposure (4) DK 2, DK 4, DK 6, DK 7

cost-benefit-calculations (1) CH₅

database (8) DK 42, GB 15, NL 13, NL 35, F 13, CH 12, CH 13,

CH 14

detection (3) DK 16, DK 31, F 16

detection-methods (2) NL 24, CH 1

developing-countries (1) **NL 14**

development (18) DK 10, DK 25, D 1, D 2, D 4, D 9, D 14, D 26, GB

4, GB 12, GB, 18, NL 9, NL 3, F 1, F 8, I 5, CH 1,

CH 8

dioxin (3) D 12, D 18, D 19

diurnal (2) F 26, F 32 diurnal-variations (1) CH 4

dogs (1) D 16

P 3, IRL 1, D 12, NL 43, I 5 dose (5)

drinking-water (1)

dry-cleaning-shops ((3) D 7, D 20, CEC 3

dust (2) D6, GB 4

dwellings (4) DK 13, DK 16, NL 33, I 1

effectiveness (1) **NL 25**

DK 1, DK 2, DK 4, DK 6, DK 7, DK 11, DK 13, DK 38, DK 39, DK 40, DK 41, DK 42, DK 43, D 3, D effects (53)

5, D 8, D 10, D 13, D 16, D 17, D 18, D 19, D 27, D 28, D 30, GB 2, GB 3, GB 5, GB 15, GB 17, GB 23, GB 33, GB 38, GB 40, GB 41, NL 6, NL 7, NL 12, NL 14, NL 16, NL 21, NL 23, NL 35, NL 36, F 3, F 4, F 7, F 12, F 31, CH 9, CH 14, CH 19, CH 23

electrostatic-filters (1) **GB 11**

DK 8, DK 9, DK 18, DK 33 DK 37, D 1, D 2, D 9, emissions (20)

D 15, GB 2, GB 3, GB 4, NL 35, F 1, F 10, F 13, F

16, F 19, I 1, CH 3

employee (1) CEC 4

energy-conservation (1) **CH 5**

epidemiological-study (12) D 6, D 11, D 12, D 18, D 19, D 32, GB 2, GB 3, GB

33, NL 21, I 6, CH 19

epidemiology (1) F 6

ETS (7) GB 20, F 17, F 31, CH 10, CH 15, CH 21, CH 23

exposure (56) DK 4, DK 10, DK 37, DK 38, DK 40, DK 44, P 2, P

3, IRL 1, GR 3, GR 4, GR 5, D 6, D 8, D 11, D 17, D 21, D 25, D 29, D 30, D 31, D 32, D 20, D 16, GB 15, GB 25, GB 27, GB 28, GB 32, GB 33, GB 40, NL 4, NL 5, NL 15, NL 18, NL 21, NL 23, NL 32, F

1, F 5, I 5, I 7, I 11, CH 5, CH 10, CH 16

external-radiation (1) **DK 22**

P 2 external-sources (1)

fibres (15) DK 31, GR 4, GB 1, GB 7, GB 9, GB 10, GB 27, GB

28, GB 29, GB 32, GB 34, GB 35, F 29, I 7, CH 8

DK 16, GR 2, GR 3, GR 4, GR 7, D 25, GB 25, GB field-measurements (22)

27, GB 29, GB 36, F 19, F 20, F 21, F 23, F 24, F 29, F 31, I 1, I 4, CH 2, CEC 4, CEC 3

field-trials (1) **GB 21** filter-systems (1) D 23 food-contamination (1) D 7 forced-ventilation (5) DK 27, P 1, F 26, CH 7, CH 24 fungi (4) D 23, GB 39, NL 24, F8 furniture (2) D 1, D 22 gamma-radiation (1) **NL 32** gas-cookers (3) GB 2, GB 3, GB 25 gases (1) **GB 38** general-population (2) IRL 1, D 6 genotoxicity (1) D 21 guidelines (2) D 1, NL 34 halogenated-HC (1) F 19 HCHO = formaldehyde (13) DK 2, DK 34, GR 3, D 1, D 6, GB 4, GB 37, GB 20, F 12, F 18, F 21, I 1, CH 17 health (4) DK 38, DK 39, GB 17, NL 19 hobby (4) D 15, F 9, F 10, F 13 home-dust (1) D 5 home-textiles (1) D 24 hospitals (2) F8, F30 household-products (10) D 9, D 10, D 15, NL 23, F 9, F 10, F 13, F 16, I 6, human-controlled-exposure (1) D 17 humidity (1) **NL 26** hyperreactivity (3) D3, D8, D30 immune (1) **GB 15** immune-effects (2) D 18, D 19 immunotoxicity (1) D 30 indoor-outdoorconcentrations-ratios (1) **GB 13**

GB 6, GB 26

industrial-buildings (2)

infection (1) **NL 23** infestation (1) **NL 23** inhalation (1) D 10 inorganic (8) D 8, GB 12, GB 13, GB 15, GB 38, GB 40, F 20, F 24 insecticides (1) **GB 39** interlaboratory-comparison (1) DK8 inventory (2) GB 9, F 1 investigation (2) IRL 2, GB 14 irritation (3) DK 2, DK 40, D 21 isocyanates (1) CH 2 lindane (2) D 18, D 19 lung-function (4) DK 40, D 16, D 3, GB 33 material-description (1) D 22 measurement (18) DK 21, DK 36, D 2, D 27, GB 4, GB 6, GB 17, GB 19, GB 21, GB 26, NL 3, NL 4, NL 22, NL 23, F 1, F 5, F 6, CH 10 measurement-methods (4) NL 25, CH 8, CEC 1, CEC 2 metals (8) GR 5, GR 7, D 6, D 11, D 27, F 11, F 18, F 21 meteorological-factors (1) **DK 21** meteorology (1) CH 4 methods (23) DK 10, DK 14, DK 16, DK 31, DK 35, D 1, D 2, D 9, D 14, D 26, GB 12, GB 27, GB 29, GB 30, NL 20, F 1, F 8, F 9, F 16, F 22, F 25, I 4, CH 25 mice (1) **DK 32** mites (1) D 24 **MMMF (1) GB 34** mobile-homes (1) D 1 models (25) DK 9, DK 33, DK 34, DK 42, P 1, D 4, GB 16, GB 21, GB 31, NL 8, NL 9, NL 10, NL 23, NL 24, NL 27, NL 28, NL 29, NL 30, NL 31, NL 33, F 17, F 26, F 28, CH 13, CH 24

NL 8, NL 9, NL 16, NL 24, NL 25

moisture (5)

moulds (3) GB 22, NL 8, NL 20

movement (1) **GB 31**

multi-zonal (1) **CH 25**

mutagenicity (5) D 9, D 27, D 28, NL 12, NL 36

N-PAH (1) D 27

nasal-function (1) **DK 40**

natural-ventilation (8) DK 17, DK 23, DK 24, GB 6, NL 24, F 26, CH 7,

CH 24

NO₂ (4) DK 40, D 21, GB 13, CH 19

noise (1) F 4

non-respiratory (1) D 16

NO_X (14) DK 38, DK 39, DK 40, D 8, D 21, GB 3, GB 13, GB

25, GB 20, F 14, F 21, I 1, CH 19

nursery-schools (1) D 29

nurses (1) D 29

occupants (2) D 19, CEC 4

odours (2) D 2, F 16

offices (20) DK 20, IRL 2, GB 8, GB 19, GB 30, GB 35, GB 36, GB 38, GB 20, F 16, F 29, F 31, F 30, I 8, CH 2, CH

11, CH 18, CH 20, CH 21, CH 22

organic (5) D 2, GB 15, GB 38, CH 1, CH 2

ozone (1) **GB 40**

PAH (2) D 27 F, 14

paints (1) **DK 33**

paraffin-heaters (2) GB 2, GB 25

passive-samplers (3) GB 12, GB 13, CEC 1

PCB (1) D 30

PCP (5) D 18, D 19, D 29, D 30, D 32

perchloroethylene (1) **D7**

physiological (4) DK 4, DK 6, CH 9, CH 23 pollutants (35)

DK 8, DK 11, DK 18, DK 37, D 2, D 5, D 10, D 13, D 14, D 22, D 26, D 27, GB 11, GB 12, GB 27, GB 29, GB 36, GB 38, GB 39, GB 40, GR 4, GR 5, NL 4, F 8, F 9, F 12, F 13, F 14, I 1, I 2, I 3, CH 8, CH 17. CEC 3. CEC 4

pollution (88)

DK 12, DK 15, DK 17, DK 19, DK 21, DK 22, DK 42, DK 43, IRL 1, D 7, D 11, D 12, D 17, D 23, D 24, D 25, D 28, D 29, D 30, D 31, D 32, D 20, D 16, D 3, GB 1, GB 3, GB 4, GB 7, GB 9, GB 10, GB 13, GB 14, GB 15, GB 17, GB 18, GB 21, GB 22, GB 25, GB 28, GB 32, GB 33, GB 34, GB 35, GB 37, GB 20, GR 1, GR 2, GR 3, GR 6, GR 7, NL 8, NL 12, NL 18, NL 19, NL 20, NL 21, NL 23, NL 24, NL 31, NL 32, NL 33, NL 34, NL 36, F 2, F 3, F 4, F 5, F 11, F 15, F 16, F 17, F 18, F 20, F 21, F 22, F 24, F 29, F 31, F 32, I 4, I 5, I 11, CH 1, CH 2, CH 16, CH 22, P 2, P 3

POM (6)

D 27, GB 11, NL 36, F 14, F 21, CH 8

radioactivity (1)

GR 2

radon (20)

DK 19, DK 21, DK 22, DK 30, P 2, P 3, IRL 1, GR 1, GR 2, D 4, GB 21, NL 32, F 12, F 15, I 4, I 5, I 11, CH 3, CH 4, CH 5

reactive (1)

CH₁

renovation (2)

D 2, F 2

representative-survey (1)

DK 22

residences (29)

DK 21, DK 30, P 2, P 3, D 4, D 31, GB 2, GB 3, GB 7, GB 10, GB 25, GB 34, GB 35, NL 21, NL 22, NL 23, NL 32, F 2, F 8, F 9, F 10, F 16, F 18, F 20, F 25, CH 2, CH 7, CH 11, CH 22

respiratory (11)

D 8, D 16, D 3, GB 2, GB 3, NL 14, NL 16, F 3, F 31, I 12, CH 19

review (2)

DK 38, DK 39

risk (6)

DK 13, GR 1, D 21, NL 19, NL 33, F 1

risk-groups (3)

GB 23, GB 24, CH 23

sampling-analysis (10)

DK 14, GB 12, GB 13, GB 18, NL 20, NL 34, F 8, F

9, F 22, CH 2

SBS (15)

DK 20, GB 5, GB 8, GB 19, GB 24, GB 30, NL 1, NL 5, NL 15, NL 23, F 7, F 24, F 30, CH 11, CH 18

schools (15)

DK 17, DK 27, D 12, D 18, D 19, D 32, GB 32, F 4, F 5, F 6, F 11, F 29, CH 2, CH 11, CH 20

screen-printing-plants (1)

NL 19

seasonal (1) F 26

sensory (5) DK 11, DK 41, DK 42, DK 43, CH 9

SO₂ (2) D 8, GB 12

soil-characteristics (1) DK 21

solvents (4) GB 36, NL 19, I 2, I 3

sources (40) DK 8, DK 12, DK 33, DK 37, DK 42, DK 43, GR 3,

D 1, D 15, D 22, D 23, D 24, D 25, D 27, D 20, GB 2, GB 3, GB 4, NL 5, NL 14, NL 18, NL 19, NL 21, NL 32, NL 35, F 1, F 4, F 9, F 10, F 13, F 14, F 16, F

20, F 29, I 1, I 9, CH 3, CH 11, CH 19, CH 22

spatial (2) F 26, F 32

standardization (1) D 10

standards (13) DK 9, DK 39, DK 41, GB 18, GB 23, GB 33, NL

23, F 16, F 25, CH 6, CH 9, CH 15, CH 26

strategies (12) NL 23, NL 33, NL 34, NL 36, F 26, CH 6, CH 9, CH

10, CH 12, CH 15, CH 21, CH 26

styrene (1) D 28

subjective-evaluation (1) DK 11

surfaces (1) F 32

survey (1) GB 8

susceptible-groups (10) DK 7, DK 13, DK 40, D 8, D 11, D 12, GB 2, GB 3,

GB 15, GB 32

suspended-particulates (1) D 27

SVOC (15) DK 37, D 12, D 15, D 17, D 18, D 19, D 29, D 30,

D 32, F 13, F 18, F 21, I 1, CH 2, CH 8

swimming-halls (2) F 5, F 19

technique (2) DK 25, DK 26

temperature (1) P 1

temporary-buildings (1) GB 37

test (1) CH 25

tetrachloroethylene (1) D 20

TLV (1) DK 39

toxicological (2) NL 21, NL 36

toxicology (2)

D 10, D 27

traffic-related (2)

D 1, F 32

uffi(1)

GB4

underground (1)

F 32

validation (9)

DK 36, D 21, NL 3, NL 20, F 8, F 28, CH 8, CH 9,

CH 25

vapours (1)

GB 38

variations (11)

DK 21, DK 23, DK 44, GR 5, D 4, D 8, D 11, GB

20, F 18, F 26, F 32,

ventilation (38)

DK 15, DK 16, DK 25, DK 26, DK 28, DK 29, DK 30, DK 34, DK 36, DK 41, D 23, GB 16, GB 23, GB 31, GB 20, NL 6, NL 9, NL 11, NL 13, NL 18, NL 22, NL 23, NL 25, NL 27, F 25, F 27, F 28, F 31, F 30, I 8, CH 4, CH 6, CH 18, CH 20, CH 21, CH

25, CH 26, CEC 4

VOC (48)

DK 4, DK 6, DK 7, DK 8, DK 9, DK 11, DK 18, DK 32, DK 33, DK 34, DK 35, DK 37, GR 5, GR 7, D 6, D 7, D 9, D 13, D 17, D 21, D 23, D 25, D 28, D 31, D 20, D 16, GB 4, GB 38, GB 20, NL 18, NL 19, F 5, F 11, F 13, F 14, F 18, F 19, F 21, I 1, I 2, I 3, CH 1, CH 8, CH 17, CEC 1, CEC 2, CEC 3, CEC 4

waterborne (1)

DK 33

yellowing (1)

NL 18

5 .	DESCRIPTIO	N OF	ONGOING	OR	RECENTLY	CONCL	UDED	PROJECTS
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Institute, address: Commission of the European Communties Joint Research Centre			a
Environment Institute I-21020 ISPRA (VARESE) I t a l y			b CEC 1
Name of principal investigator: Dr. Maurizio DE BORTOLI		Telephone No: 0332 - 789230	
Descriptive project title:		legengang ing pamalah di sang pamalah di sapagai papai pa	
Development and performance of a thermally desorbab	le diffusion sam	npler	
Keywords (see attached list) :			
Measurement methods, sampling, passive samplers, VO	C, analysis		
Project start: 1986	(Evisaged) project	end: 1989	
Estimated man power: 1 man year	Estimated cost:		
Institute, address: Commission of the European Communities Joint Research Centre			a
Environment Institute I-21020 ISPRA (VARESE) I t a l y		:	b CEC 2
Name of principal investigator: Dr. Maurizio DE BORTOLI		Telephone No: 0332 - 789230	
Descriptive project title: Method development for the determination of VOC emhousehold products by small test chambers.	nission rates fro	m building/furnishing mater	ials and
Keywords (see attached list) :			ye maki inganyakan ingaliyaka
Measurement methods, chamber study, building mater	ials, household	products, VOC, sampling, ar	nalysis.
Project start: 1988	(Evisaged) project	t end: 1990	
Estimated man power: 2 man year	Estimated cost:		
Institute, address: Commission of the European Communities Joint Research Centre			а
Environment Institute I-21020 ISPRA (VARESE) I t a l y			p CEC 3
Name of principal investigator: Dr. Helmut KNÖPPEL	engereiligeten og gangan går går gannad	Telephone No: 0332 - 789204	
Descriptive project title:	ud v 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 	<u> </u>	
Follow-up study of VOC concentrations in a home samp	le in Northern II	taly.	
Keywords (see attached list) :		and the supposite to the state of the supposite of the s	
pollutants, VOC, field measurements, dwellings, concer	ntrations, air inf	iltration, sampling, analysis	
Project start: 1989	(Evisaged) project	t end: 1990	
Estimated man power: 0.5 man year	Estimated cost:		

Institute, address: Commission of the European Communities Joint Research Centre			а
Environment Institute I-21020 ISPRA (VARESE) I t a l y			b CEC 4
Name of principal investigator: Dr. Helmut KNÖPPEL		Telephone No: 0332 - 789204	
Descriptive project title		and a special process of a substantial process of the second of the sec	
Monitoring of VOC concentrations in some administratioccupant complaints	ve buildings and	d investigations on possible l	inks with
Keywords (see attached list):			
pollutants, VOC, concentration, offices, complaint study	, employee, fie	ld measurements, ventilation	n, occupants
Project start: 1986	(Evisaged) project	end: 1989	
Estimated man power: 15 man year	Estimated cost:		
Institute, address:			a
			b
Name of principal investigator:		Telephone No:	
Descriptive project title:	· · · · · · · · · · · · · · · · · · ·		
	·		
Keywords (see attached list)			
Project start:	(Evisaged) project	end:	
Estimated man power:	Estimated cost:		
Institute, address:			a
			-
			b
<u></u>			
Name of principal investigator:	:	Telephone No:	
Descriptive project title:			and the second of the second o
·			
Keywords (see attached list):			
Project start:	(Evisaged) project	end:	e tradiții în conservații, termanții termanul în manul î
Estimated man power:	Estimated cost:	and the second	

Institute, address: The Danish Institute for Clinical Epidemiology	a			
25, Svanemoellevej <u>DK - 2100 Copenhagen 0</u>			b DK 1	
Name of principal investigator: Niels Kr. Rasmussen		Telephone No: 45 120 7777		
Descriptive project title: The Danish Health and Morbidity Survey 1986/87				
Keywords (see attached list): effects, allergy, asthma, complaints				
Project start: 01/1986	(Evisaged) project	tend: 12/1988		
Estimated man power: 4 M/Y	Estimated cost:			
Institute, address: Institute of Environmental and Occupational Medicine Aarhus Universitetet			a	
Bygn. 180, Universitetsparken <u>DK - 8000 Aarhus C.</u>		·	b DK 2	
Name of principal investigator: Lars Mølhave		Telephone No: 45 612 8288		
Descriptive project title: Human reaction to formaldehyde vapours in a controlled experiment.				
Keywords (see attached list): controlled exposure, formaldehyde, effects, irritation				
Project start: 01/1983	(Evisaged) project	tend: 12/1987		
Estimated man power: 8 M/Y	Estimated cost:			
Institute, address: Institute of Environmental and Occupational Medicine Aarhus Universitetet			a	
Bygn. 180, Universitetsparken DK 8000 Aarhus C.			b DK 3	
Name of principal investigator: Lars Mølhave		Telephone No: 45 612 8288		
Descriptive project title: n-Decane and n-Undecane, a litterature survey				
Keywords (see attached list) :				
Project start: 01/1984	(Evisaged) project	end: 12/1987		
Estimated man power: 1 M/Y	Estimated cost:			

Institute, address: Institute of Environmental and Occupational Medicine Aarhus Universitetet			a		
Bygn. 180, Universitetsparken <u>DK - 8000 Aarhus C</u> .			b DK 4		
Name of principal investigator: Lars Mølhave		Telephone No: 45 612 8288			
Descriptive project title: Human reactions to volatile organic indoor air pollutants					
Keywords (see attached list): controlled exposure, VOC, effects, behavioural, physiological	al				
Project start: 01/1984	(Evisaged) project e	end: 12/1987	· · · · · · · · · · · · · · · · · · ·		
Estimated man power:	Estimated cost:				
Institute, address: Institute of Environmental and Occupational Medecine Aarhus Universitetet			â		
Bygn. 180, Universitetsparken <u>DK - 8000 Aarhus C.</u>			b DK 5		
Name of principal investigator: Lars Mølhave Telephone No: 45 612 8288					
Descriptive project title: Ventilation systems as source for indoor air pollution					
Keywords (see attached list): ventilation, mechanical, ACS, sources, pollution					
Project start: 01/1986	(Evisaged) project e	end: 12/1987	•		
Estimated man power: 1 MY	Estimated cost:				
Institute, address: Institute of Environmental and Occupational Medicine Aarhus Universitetet			a		
Bygn. 180, Universitetsparken <u>DK - 8000 Aarhus C.</u>			b DK 6		
Name of principal investigator: Lars Mølhave		Telephone No: 45 612 8288			
Descriptive project title: Human reaction to n-decane vapours					
Keywords (see attached list): controlled exposure, VOC, effects, behavioural, physiological					
Project start: 01/1984	(Evisaged) project e	end: 12/1987			
Estimated man power: 5 MY	Estimated cost:				

Institute, address: Institute of Environmental and Occupational Medecine Aarhus Universitetet	a				
Bygn. 180, Universitetsparken <u>DK - 8000 Aarhus C.</u>		·	b DK 7		
Name of principal investigator: Henrik Harving/Lungeklinikken		Telephone No: 45 612 8288			
Descriptive project title:					
The reactions of astmatic patients to exposure to volatile or	ganic indoor ai	r pollution.			
Keywords (see attached list):					
controlled exposure, VOC, effects, susceptible groups, asthm	natic				
Project start: 01/1985	(Evisaged) project	end: 12/1987			
Estimated man power: 1 MY	Estimated cost:				
Institute, address: Institute of Environmental and Occupational Medicine Aarhus Universitetet		,	a		
Bygn. 180, Universitetsparken DK - 8000 Aarhus C.			b DK 8		
Name of principal investigator: Lars Mølhave		Telephone No: 45 612 8288			
Descriptive project title:					
International intercalibration of measurements of emissions	s from building	materials			
Keywords (see attached list):		· · · · · · · · · · · · · · · · · · ·			
emissions, pollutants, VOC, sources, building materials, char	mber study, inte	erlaboratory comparison			
Project start: 01/1987	(Evisaged) project	end: 12/1988			
Estimated man power: 1 MY	Estimated cost:				
Institute, address: Institute of Environmental and Occupational Medicine			а		
Aarhus Universitetet					
Bygn. 180, Universitetsparken			b DK 9		
<u>DK - 8000 Aarhus C.</u>					
Name of principal investigator: Lars Mølhave					
Descriptive project title:	6				
Mathematical models for indoor air pollution due to emissions from building material. Standard setting.					
Keywords (see attached list):					
standards, emissions, VOC, building materials, models, concentrations					
Project start: 01/1986	(Evisaged) project	end: 12/1989			
Estimated man power: 1 MY Estimated cost:					

Institute, address: Institute of Environmental and Occupational Medicine Aarhus Universitetet		а			
Bygn. 180, Universitetsparken DK - 8000 Aarhus C.			b DK 10		
Name of principal investigator: Lars Mølhave		Telephone No: 45 612 8288			
Descriptive project title:					
Development of dust exposure facilities in a climate chambe	er. *				
Keywords (see attached list):					
methods, developments, PM, exposure, chamber study					
Project start: 01/1988	(Evisaged) project	end: 12/1989			
Estimated man power: 1 MY	Estimated cost :				
Institute, address:			а		
Institute of Environmental and Occupational Medicine					
Aarhus Universitetet					
Bygn. 180, Universitetsparken <u>DK - 8000 Aarhus C.</u>			b DK 11		
Name of principal investigator: Lars Mølhave					
Descriptive project title:					
Human subjective evaluations of volatile organic indoor air	pollutants.				
		eri - marin , marin marin para , marin - marin	······		
Keywords (see attached list): subjective evaluation, effects, sensory, pollutants, VOC					
Project start: 1/1987	(Evisaged) project	end: 12/1988			
Estimated man power: 1 MY	Estimated cost:				
Institute, address:			а		
The Jutland Technological Institute					
Chemical Technology Department					
Technologiparken <u>DK - 8000 Aarhus C</u>			b DK 12		
<u> </u>					
Name of principal investigator: Hanne Moeller Andersen	Telephone No: 45 612 4200				
Descriptive project title:					
Microorganismus in the indoor climate in relation to the standard of cleaning					
Keywords (see attached list) :					
pollution, biological, sources					
Project start: 1/1988 (Evisaged) project end: 04/1988					
Estimated man power: 0.1 MY	Estimated cost:				

Institute, address: Lungeklinikken og lungemedicinsk afdeling, Aarhus Kommunehospital DK - 8000 Aarhus C Name of principal investigator: Jens Korsgaard, Henrik Harving			a		
DK - 8000 Aarhus C					
Name of principal investigator: Jens Korsgaard, Henrik Harving			b DK 13		
		Telephone No: 06 12 5555			
Descriptive project title:					
Evaluation of the influence of mini-risk dwellings on perso with bronchial asthma and atopic eczema.	ins				
Keywords (see attached list) :					
Evaluation, risk, dwellings, susceptible groups, asthmatics,	atopics, asthma,	effects.			
Project start: 03/1984	(Evisaged) project	t end: 08/1988	**************************************		
Estimated man power: 8 MY	Estimated cost:				
Institute, address:			а		
SBI-Danish Building Research Institute			Ĭ		
P.O. Box 119		:			
DK 2970 Horsholm			b DK 14		
	 	<u> </u>			
Name of principal investigator: Peter A. Nielsen		Telephone No: 286 5533			
Descriptive project title:					
Development of a test method for determination of miner emission from ceiling boards.	al fibre				
Keywords (see attached list) :					
method, sampling, analysis					
Project start: 01/1985	(Evisaged) projec	t end: 12/1988			
Estimated man power: 3 MY	Estimated cost:				
Institute, address:			3		
SBI-Danish Building Research Institute			а		
P.O. Box 119					
DK - 2970 Horsholm	<i>:</i>	`	b DK 15		
Tanda ilaina, kan sengan manakan ilain saina kan san ilain sa manakan manakan manakan manakan manakan manakan m	·	·			
Name of principal investigator: Niels Bergsoe		Telephone No: 286 5533			
Descriptive project title:					
Investigations of air change rates and air quality in occupied buildings.					
Keywords (see attached list):					
control techniques, ventilation, pollution					
Project start: 10/1987 (Evisaged) project end: 04/1989					
Project start: 10/1987	(Evisaged) project	tena. 04/1303			

Institute, address:			a		
SBI-Danish Building Research Institute					
P.O. Box 119 <u>DK - 2970 Horsholm</u>		b DK 16			
			· · · ·		
Name of principal investigator: Niels Bergsoe		Telephone No: 286 5533			
Descriptive project title:					
Study of the perfluorocarbon tracer gas measurement techniques preliminary investigations of air change rates in occupied do					
Keywords (see attached list):	······································				
ventilation, field measurement, method, detection, dwellin	gs				
Project start: 03/1986	(Evisaged) project	end: 12/1988			
Estimated man power: 1.5 MY	Estimated cost:				
Institute, address:			а		
SBI-Danish Building Research Institute					
P.O. Box 119					
DK - 2970 Horsholm			b DK 17		
Name of principal investigator: Ole Valbjørn Telephone No: 286 5533					
Descriptive project title:					
Air quality in modern schools without mechanical ventilation	on systems.				
Keywords (see attached list) :					
natural-ventilation, schools, pollution					
Project start: 01/1987	(Evisaged) project	end: 12/1988			
Estimated man power: 0.5 MY	Estimated cost:				
Institute, address:			а		
SBI-Danish Building Research Institute			a		
P.O. Box 119					
DK - 2970 Horsholm			b DK 18		
	-ioning west group - i est man				
Name of principal investigator: Peter A. Nielsen	Telephone No: 286 5533				
Descriptive project title:					
Emission of gases and vapours from building materials.					
Keywords (see attached list):			,		
emission, pollutants, VOC, building materials, chamber study					
Project start: 01/1985 (Evisaged) project end: 12/1988					
Estimated man power: 1 MY	Estimated cost:	n de la companya de			

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Institute, address: SBI-Danish Building Research Institute			a	
P.O. Box 119				
DK - 2970 Horsholm			b DK 19	
				
Name of principal investigator: Peter A. Nielsen		Telephone No: 286 5533		
Descriptive project title:				
Radon in buildings.				
Keywords (see attached list) :				
assessment, pollution, radon, buildings				
Project start: 01/1987	(Evisaged) project	t end: 12/1988		
Estimated man power: .5 MY	Estimated cost:			
Institute, address:			a	
SBI-Danish Building Research Institute				
P.O. Box 119 <u>DK - 2970 Horsholm</u>			b DK 20	
=: Esto Holanomi			₩ ₽N 40	
Name of principal investigator: Peder Skov and Ole Valbjørn Telephone No: 286 5533				
Descriptive project title:		y y y y y y y y y y y y y y y y y y y		
The Sick Building Syndrome in the Office Environment. The Danish Town Hall Study.			·	
Keywords (see attached list) :				
SBS, offices	·			
Project start: 1/1983	(Evisaged) projec	t end: 12/1988		
Estimated man power: 6.5 MY	Estimated cost:			
Institute, address:			а	
Health Physics Department				
Risoe National Laboratory <u>DK - 4000 Roskilde</u>			b DK 21	
21. JOSO MOSMINE			- UN ZI	
Name of principal investigator: B. Majborn		Telephone No: 452371212		
Descriptive project title:	. ,			
Investigation of factors influencing indoor radon concentrations.				
Keywords (see attached list) :		······································		
radon, concentrations, variations, control, measurement, residences, soil characteristics, meteorological factors.				
Project start: 01/1986 (Evisaged) project end: 12/1987				
Estimated man power: 1.6 M/Y	Estimated cost:			

المراجع			The second secon
Institute, address: National Board of Health			a
National Institute of Radiation Hygiene Frederikssundsvej 378 DK - 2700 Broenshoej			b DK 22
Name of principal investigator: Kaare Ulbak		Telephone No 294 3773	
Descriptive project title:			····
Natural Radiation in Danish Dwellings			
Keywords (see attached list):			
representative survey, radon concentrations, external radiat	tion, annual exp	oosures.	
Project start: 01/1984	(Evisaged) project	end: 12/1987	
Estimated man power:	Estimated cost:		N.
Institute, address		1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	a
Teknologisk Institut Byggeteknik			
Oregersensvej			b DK 23
DK - 2630 Taastrup	·		
Name of principal investigator: Morten Egedorf		Telephone No: 02 996611	
Descriptive project title:		•	· · · · · · · · · · · · · · · · · · ·
Compensation of variations in natural ventilation.		·	
Keywords (see attached list):		•	
natural-ventilation, variations, control			
Project start: 01/1986	(Evisaged) project	tend: 12/1988	
Estimated man power: .4 M	Estimated cost:		
Institute, address:			а
Teknologisk Institut			
Byggeteknik Oregersensvej			L 0/ 0
DK - 2630 Taastrup			b DK 24
Name of principal investigator: Hanne Dybro		Telephone No: 02 996611	Bennyanya Limate and Jayain periope
Descriptive project title:			
Dimensioning of natural ventilation in small houses			
Keywords (see attached list) :			
natural-ventilation, assessment			
Project start: 08/1985	(Evisaged) project	tend: 04/1988	
Estimated man power:	Estimated cost:	. ,	

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Institute, address: Teknologisk Institut			a
Byggeteknik			
Oregersensvej		·	h nv 25
DK - 2630 Taastrup			b DK 25
<u>×1. 2000 (400) (40</u>			
Name of principal investigator: Morten Egedorf		Telephone No: 02 996611	
Descriptive project title:			
Development of an automatic ventilating flop			
Keywords (see attached list) :	 	and a specific of the second 	
ventilation, technique, development			
	,		<u></u>
Project start: 08/1982 (Evisaged) project end: 12/1987		end: 12/1987	
Estimated man power: 0.4 MY	Estimated cost:		
Institute, address:			а
Teknologisk Institut			~
Byggeteknik			
Oregersensvej			b DK 26
DK - 2630 Taastrup			
Name of principal investigator: Morten Egedorf		Telephone No: 02 996611	
Descriptive project title		La caracteria de la compansión de la compa	
Descriptive project title: Test of an automatic ventilating flep			
Test of an automatic ventilating flop			
Keywords (see attached list) :			
ventilation, technique, assessment			
	 		
Project start: 01/1981	(Evisaged) project end: 12/1987		
Estimated man power: 0.4 MY	Estimated cost:		
Institute, address:			a
Teknologisk Institut			, u
Byggeteknik			
Oregersensvej			b DK 27
DK - 2630 Taastrup			
Name of principal investigator: Morten Egedorf		Telephone No: 02 996611	
Descriptive project title:			
Simplification of mechanical ventilation in institutions for cl	hildren		
Simplification of mechanical ventulation in institutions for C	imuren		
Keywords (see attached list):			
ventilation, mechanical, buildings, schools			
Project start:	(Evisaged) project	end: 12/1987	
Estimated man power: 0.6 MY	Estimated cost:		

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Institute, address: Teknologisk Institut Byggeteknik			a
Oregersensvej <u>DK - 2630 Taastrup</u>			b DK 28
Name of principal investigator: Morten Egedorf		Telephone No: 02 996611	
Descriptive project title:	, , , , , , , , , , , , , , , , , , , 	kan manan serien in die er de serien de s On terretain	, , , , , , , , , , , , , , , , , , ,
Energy saving by requirement controlled ventilation		•	
Keywords (see attached list):			
ventilation, energy conservation			
Project start: /1987	(Evisaged) project	end: 12/1989	
Estimated man power: 0.3 MY	Estimated cost:		a Thailine and a suite and
Institute, address:			a
Teknologisk Institut			
Byggeteknik Oregersensvej			h 54 30
DK - 2630 Taastrup			b DK 29
Name of principal investigator: Morten Egedorf, P. F. Collet		Telephone No: 02 996611	
Descriptive project title:			
Measurement of user controlled air change in 3 mechanically ventilated low energy houses in Hjortekar.			
Keywords (see attached list):			
ventilation, measurement			
Project start: /1985	(Evisaged) projec	tend: /1988 .	
imated man power: 0.15 MY Estimated cost.			
Institute, address:			а
Teknologisk Institut			
Byggeteknik			
Oregersensvej <u>DK - 2630 Taastrup</u>			b DK 30
Name of principal investigator: P. C. Collet	,	Telephone No: 02 996611	
Descriptive project title:	~	teritoria de la composición de la contrata del contrata de la contrata de la contrata del contrata de la contrata del la contrata de la contrata del la contrata de la cont	andregen ingenit, et git til en en en en digini migle dige n
Examination of the influence of forced ventilation of the crawling			
space on the concentration of radon in habitations			
Keywords (see attached list) :			
ventilation, radon, concentrations, control, residences			
Project start: 01/1988	(Evisaged) project end: 07/1988		
Estimated man power: .53	Estimated cost:		

Institute, address: -Danish National Institute of Occupational Health Baunegaardsvej 73			a
DK - 2900 Hellerup		•	b DK 31
Name of principal investigator: Thomas Schneider		Telephone No: 01-682868	
Descriptive project title:			
Detection of asbestos in very low concentrations			
Keywords (see attached list):			
asbestos, methods, detection			
Project start: 05/1986 (Evisaged) project end: 10/1987		t end: 10/1987	, and province of the second
Estimated man power:	Estimated cost:		
Institute, address:			а
Danish National Institute of Occupational Health Baunegaardsvej 73			
DK - 2900 Hellerup			b DK 32
			D DK 32
Name of principal investigator: G. Damgard Nielsen		Telephone No: 01-682868	
Descriptive project title: Preliminary project for the set-up of a bio-assay for airway irritants off-gasing from building materials			
Keywords (see attached list) :		i i - i - i	in the state of th
bioassay, mice, VOC, chamber-study, building-materials			
Project start: 5/1987	(Evisaged) projec	t end:	energia per degra de como de c
Estimated man power: 1 MY	Estimated cost:		
Institute, address:	<u>.</u>		a
Danish National Institute of Occupational Health Baunegaardsvej 73			
DK - 2900 Hellerup			b DK 33
Name of principal investigator: Wolkoff/Nielsen		Telephone No: 01-682868	
Descriptive project title:			
Emission from waterborne paints post application			
Keywords (see attached list):			
waterborne paints, chamber-study, models, VOC, emissions,	, sources, buildi	ng-materials	
Project start: /1985	(Evisaged) project	t end: 12/1988	
Estimated man power: 2MY	Estimated cost:		

Institute, address: Danish National Institute of Occupational Health Baunegaardsvej 73			а
DK - 2900 Hellerup			b DK 34
Name of principal investigator: Wolkoff/Nielsen/Moelhave		Telephone No: 01-682868	
Descriptive project title: The twin appartment study			
Keywords (see attached list) . VOC, models, HCHO, ventilation, building-materials, chamb	er-study		
Project start: 09/1987	(Evisaged) project	end: 12/1989	
Estimated man power: 4MY	Estimated cost:		
Institute, address: Danish National Institute of Occupational Health Baunegaardsvej 73			a
DK - 2900 Hellerup			b DK 35
Name of principal investigator: Wolkoff/Nielsen		Telephone No: 01-682868	
Descriptive project title: Cryogenic trapping of VOC			
Keywords (see attached list): VOC, methods, sampling			:
Project start: 01/1988	(Evisaged) project end: 01/1989		
Estimated man power: 1MY	Estimated cost:		
Institute, address: Danish National Institute of Occupational Health Baunegaardsvej 73			a
DK - 2900 Hellerup			b DK 36
Name of principal investigator: N. O. Breum		Telephone No: 01-682868	
Descriptive project title: How to measure the ventilation efficiency			
Keywords (see attached list): ventilation, measurement, validation	,		:
Project start: 04/1986	(Evisaged) project	end: 05/1987	
Estimated man power: 2MY	Estimated cost: D.Kr. 500.000		

Institute, address: Danish Environmental Center A/S Smedeskovvej 38 DK - 8464 Galten Name of principal investigator: Sv.Aa. Linde/Lene Hansen Descriptive project title: Emission of amines and organic acids from building materials. Development of test and analytical methods. Keywords (see attached list): building-materials, concentrations, exposure, pollutants, emissions, sources, SVOC, VOC Project start: 01/1987 (Evisaged) project end: 06/1989 Estimated man power: 3 MY Estimated cost: Institute, address: Institute of environmental and occupational medicine University of Aarhus DK - 8000 Aarhus C	
Name of principal investigator: Sv.Aa. Linde/Lene Hansen Descriptive project title: Emission of amines and organic acids from building materials. Development of test and analytical methods. Keywords (see attached list): building-materials, concentrations, exposure, pollutants, emissions, sources, SVOC, VOC Project start: 01/1987 (Evisaged) project end: 06/1989 Estimated man power: 3 MY Estimated cost: Institute, address: Institute of environmental and occupational medicine University of Aarhus	: 06 944266
Name of principal investigator: Sv.Aa. Linde/Lene Hansen Descriptive project title: Emission of amines and organic acids from building materials. Development of test and analytical methods. Keywords (see attached list): building-materials, concentrations, exposure, pollutants, emissions, sources, SVOC, VOC Project start: 01/1987 (Evisaged) project end: 06/1989 Estimated man power: 3 MY Estimated cost: Institute, address: Institute of environmental and occupational medicine University of Aarhus	: 06 944266
Descriptive project title: Emission of amines and organic acids from building materials. Development of test and analytical methods. Keywords (see attached list): building-materials, concentrations, exposure, pollutants, emissions, sources, SVOC, VOC Project start: 01/1987 (Evisaged) project end: 06/1989 Estimated man power: 3 MY Estimated cost: Institute, address: Institute of environmental and occupational medicine University of Aarhus	
Emission of amines and organic acids from building materials. Development of test and analytical methods. Keywords (see attached list): building-materials, concentrations, exposure, pollutants, emissions, sources, SVOC, VOC Project start: 01/1987 (Evisaged) project end: 06/1989 Estimated man power: 3 MY Estimated cost: Institute, address: Institute of environmental and occupational medicine University of Aarhus	
building-materials, concentrations, exposure, pollutants, emissions, sources, SVOC, VOC Project start: 01/1987 (Evisaged) project end: 06/1989 Estimated man power: 3 MY Estimated cost: Institute, address: Institute of environmental and occupational medicine University of Aarhus	
building-materials, concentrations, exposure, pollutants, emissions, sources, SVOC, VOC Project start: 01/1987 (Evisaged) project end: 06/1989 Estimated man power: 3 MY Estimated cost: Institute, address: Institute of environmental and occupational medicine University of Aarhus	
Estimated man power: 3 MY Institute, address: Institute of environmental and occupational medicine University of Aarhus	
Institute, address: Institute of environmental and occupational medicine University of Aarhus	a
Institute of environmental and occupational medicine University of Aarhus	a
University of Aarhus	
·	.
	b DK 38
	D DK 38
Name of principal investigator: Soeren Kjaergaard Telephone No.	: 06 128288
Descriptive project title:	
Health effects of Nitrogen oxides in the indoor air	
Keywords (see attached list) review, NO_X , effects, health, exposure	
Project start: /1986 (Evisaged) project end: /1986	
Estimated man power: 1 MY Estimated cost:	
Institute, address: Institute of environmental and occupational medicine University of Aarhus	а
<u>DK - 8000 Aarhus C</u>	b DK 39
Name of principal investigator: Soeren Kjaergaard Telephone No	o: 06128288
Descriptive project title:	<u></u>
A documentation of health effects due to exposure to nitrogen dioxide and nitrogen oxide	
Keywords (see attached list): review, TLV, NO _X , health, effects, concentrations, standards	
Project start: /1987 (Evisaged) project end: /1988	
Estimated man power: 1 MY Estimated cost:	The state of the s

		والمتعادي والمستعمل والمتعادين والمتعادين والمتعادين والمتعادين والمتعادين والمتعادين والمتعادين والمتعادين والمتعادين	
Institute, address:			а
Institute of environmental and occupational medicine University of Aarhus <u>DK - 8000 Aarhus C</u>			b DK 40
Name of principal investigator: Soeren Kjaergaard, Ole Find Pede	rsen	`` Telephone No: 06128288	
Descriptive project title: An exposure study with nitrogen dioxide exposure of healthy and astmatic subjects in climate chambers		ganggan maga pigan disa manan inigarah man majiran kan aparamagan sa managira	a da antique de la constantina de la c
Keywords (see attached list): exposure, NO_X , effects, lung-function, bronchoreactivity, nasusceptible-groups, asthmatic, chamber-study, NO_2	asal-function, in	ritation,	
Project start: (Evisaged) project end:			
Estimated man power:	Estimated cost:		
Institute, address:			a
Laboratory of Heating and Air Conditioning			
Technical University of Denmark Building 402 A DK-2800 Lyngby			b DK 41
Name of principal investigator: P.O.Fanger		Telephone No: 45 42 88 46 22	
Descriptive project title:			
Ventilation requirements in buildings	····		
Keywords (see attached list):			
ventilation, buildings, sensory effects, measurements, standards			
Project start: 07/1987	(Evisaged) project end: 12/1991		
Estimated man power: 4 M/Y Estimated cost:			
Institute, address:			a
Laboratory of Heating and Air Conditioning			
Technical University of Denmark Building 402 A		b DK 42	
DK-2800 Lyngby			
Name of principal investigator: P.O.Fanger		Telephone No: 45 42 88 46 22	
Descriptive project title: Olf-values for materials			
Keywords (see attached list) :			
database, pollution, sensory effects, models, source			
Project start: 01/1988	(Evisaged) project	t end: 12/1990	
Estimated man power: 4 M/Y	Estimated cost:		

Institute, address: Laboratory of Heating and Air Conditioning		a	
Technical University of Denmark Building 402 A DK-2800 Lyngby			b DK 43
Name of principal investigator: P.O.Fanger		Telephone No: 45 42 88 46 22	
Descriptive project title: Air pollution sources in ventilation systems			
Keywords (see attached list): ACS, sources, pollution, sensory effects			
Project start: 01/1988	(Evisaged) project	end: 07/1990	
Estimated man power : 5 M/Y	Estimated cost:		
Institute, address: Danish National Institute of Occupational Health			а
Baunegaardsvej 73 2900 Hellerup			b DK 44
Name of principal investigator: Ole Holm Petersen		Telephone No:	
Descriptive project title: Easy method for measuring dust on surfaces and the effectiveness of cleaning			
Keywords (see attached list): variations of concentrations, exposure measurement			
Project start: 03/1987 (Evisaged) project end: 03/1988			
Estimated man power: 1 MY Estimated cost:			
Institute, address:			а
		e e	
			b
Name of principal investigator:	The state of the s	Telephone No:	
Descriptive project title:			
Keywords (see attached list):	***		
Project start:	(Evisaged) project	t end:	
Estimated man power:	Estimated cost:		

Institute, address: ELECTRICITE DE FRANCE (EDF) avec: Commissariat à l'Energie Atomique (C.E.A.) Direction des Etydes et Beshershes			а
Direction des Etudes et Recherches 6 quai Watier F - 78401 Chatou Cedex Laboratoire d'Hygiène de la Ville de Paris (LHVP) Laboratoire National d'Essais		b F1	
Name of principal investigator: J. Cl. Loewenstein Telephone No: 30.71.76.12		Telephone No: 30.71.76.12	
Descriptive project title:			
Indoor air pollution: sources inventory, measurement techn emission factors caracterisation, sanitary risks evaluation.	iques developm	nent,	
Keywords (see attached list): sources, measurement, exposure, emissions, inventory, meth development, chamber-study	nods, risk, evalu	ation,	
Project start: /1988	(Evisaged) project end: /1990		
Estimated man power: 8 MY	Estimated cost: F	1,600'000	
Institute, address:			а
Centre de la Pierre			u
Laboratoire Municipal de Bordeaux			
17 quai de la Monnaie			b F2
<u>F - 33800 Bordeaux</u>			
Name of principal investigator: J. G. Faugere Telephone No: 56.31.36.36			
Descriptive project title:			
Microbiological and fungal contaminations in buildings or f	lats		
at different steps of renovation.			
Keywords (see attached list):			
biological pollution, building, residences, renovation			
Project start: /1988 (Evisaged) project end:			
Estimated man power: Estimated cost:			
Institute, address:			
Centre Hospitalier Régional Universitaire de Strasbourg Service de Pneumologie II			
Pavillon Laennec			
BP 421			b F3
<u>F - 67091 Strasbourg Cédex</u>		·	
Name of principal investigator: Me G. Pauli Telephone No:			
Descriptive project title:			
Indoor organic pollution from animal origin (Acarus) in			
relation to respiratory allergies in habitations.			
Keywords (see attached list):			
biological, pollution, allergy, effects, respiratory			
Project start: /1988	(Evisaged) project end:		
Estimated man power:	d man power: Estimated cost:		

Institute, address: Laboratoire d'Hygiène de la Ville de Paris (LHVP) avec: Laboratoire des Particules Inhalées 1 bis rue des Hospitalières Saint-Gervais et Médecine Scolaire Ville de Paris, Ci F - 75004 Paris Angers Name of principal investigator: Pr B. Festy Telephone No: 42.74.			
F - 75004 Paris Angers			
Name of principal investigator: Pr B. Festy Telephone No: 42.74.	1		
·	.13.14		
Descriptive project title:			
Atmospheric pollution and health in schools			
Keywords (see attached list) :			
schools, chemical, biological, pollution, noise, sources, behavioural, effects			
Project start: /1988 (Evisaged) project end: /1991	and the second s		
Estimated man power: 10 MY Estimated cost: F 850,000	· · · · · · · · · · · · · · · · · · ·		
Institute, address:	la		
Centre Hospitalier Régional Universitaire d'Angers (CHRU Angers)	_		
Laboratoire de Pharmacologie et de Toxicologie			
<u>F - 45040 Angers Cédex</u>	b F 5		
Name of principal investigator: Pr. P. Allain Telephone No.: 41.88	3.69.51		
Descriptive project title:			
Identification and determination of volatile organic compounds in the atmosphere of collective buildings and in the expired air of the inhabitants.			
Keywords (see attached list) :	And the second s		
swimming-halls, schools, VOC, pollution, exposure, buildings, measurement			
Project start. /1988 (Evisaged) project end:			
Estimated man power: Estimated cost:			
Institute, address:	а		
Institut de Médecine du Travail - Université Paris VI	G		
Faculté de Médecine Broussais - Hôtel Dieu avec INSERM U139			
CRETEIL - Laboratoire des Particules Inhalèes (LEPI) Ville de Paris	b F6		
Name of principal investigator: Pr. J. Proteau Telephone No:	·		
Descriptive project title:			
Revaluation of asbestos exposure in relation to an exposed population in university buildings.			
Keywords (see attached list) :			
buildings, schools, exposure, asbestos, epidemiology	<u> </u>		

Institute, address: Hôpital Sabourin Clinique de Pneumologie			a
BP 125 F - 63020 Clermont Ferrand			b F7
Name of principal investigator: Pr Cl. Molina		Telephone No: 72.26.83.25	
Descriptive project title: Sick building syndrome and air conditioning.		·	
Keywords (see attached list): ACS, SBS, effects			
Project start: /1988	(Evisaged) project	end:	
Estimated man power:	Estimated cost:		
Institute, address: Centre Hospitalier Universitaire (CHU) de Créteil avec: CHU Saint-Antoine (U - INSERM 139 et			a
51 avenue du Marèchal Delattre de Tassigny Service Parasito-mycologíe) <u>F - 94010 Créteil Cédex</u>			b F8
Name of principal investigator: Dr Me M. Feuilhade de Chanvin Telephone No:			
Descriptive project title: Development of methods for indoor fungal contamination			
Keywords (see attached list): methods, sampling-analysis, development, validation, polluta buildings, hospitals, residences	ants, biological, 1	ungi,	
Project start: /1988	(Evisaged) project	t end:	
Estimated man power:	Estimated cost:		
		e (EDF) et Laboratoire e de Paris (LHVP)	a
BP n. 6 F - 92265 Fontenay aux Roses Cédex			b F9
Name of principal investigator: Mr F. Anguenot		Геlephone No: 46.54.74.51.	
Descriptive project title: Inventory of domestic pollutions in relation to combustion, household products, odd jobs - measurement techniques			
Keywords (see attached list): methods, sampling-analysis, evaluation, pollutants, sources, combustion, household-products, hobby, buildings, residences			
Project start: /1987	(Evisaged) project	tend:	
Estimated man power: Estimated cost:			

	<u> </u>		
Institute, address: Association pour la Prévention de la Pollution Atmosphèrique (APPA) Pays de Loire BP 527			a
<u>F - 44026 Nantes Cédex</u> Société d'Etudes des Risques Toxiques La Charterie Route de Gachel, BP 527, <u>F - 44026 Nantes Cédex 03</u>			b F 10
Name of principal investigator: H. L. Boiteau		Telephone No: 40.48.56.90	
Descriptive project title:		andreg julius agrandande i de de de de esta esta de la de esta de	<u> </u>
Indoor air pollution due to household products and odd jobs			
Keywords (see attached list) :			-
hobby, sources, residences, household-products, emissions, r	neasurements		
Project start: /1988	(Evisaged) project	end:	
Estimated man power:	Estimated cost:		
Institute, address: A:P.P.A. Comité Marseille Provence 36 Rue Edouard-Delanglade			a
Laboratoire de Toxicologie Générale et Biotoxicologie Laboratoire de Chimie Analytique- Faculté de Pharmacie 27 boulevard Jean-Moulin, <u>F - 13385 Marseille</u>			b F 11
Name of principal investigator: Pr A. Viala Telephone No:			
Descriptive project title:			
Indoor air pollution: study in school and university building			
Keywords (see attached list) :			
schools, exposure, pollution, metals, aldehydes, VOC		and the state of the	· · · · · · · · · · · · · · · · · · ·
Project start: /1988	(Evisaged) projec	t end:	
Estimated man power:	Estimated cost:		
Institute, address:			a
Institut de Protection et de Sureté Nucléaire Départment de Protection Sanitaire			
BP 6			b F 12
F - 92265 Fontenay aus Roses Cédex			
Name of principal investigator: G. Monchaux, J. P. Morlier, M. Mo	rin	Telephone No:	
Descriptive project title:			
Experimental study of the potential cocarcinogenic effects of combined exposure to radon and formaldehyde in rats.)†		
Keywords (see attached list):			
cancerogenic, effects, radon, HCHO, exposure, animal-study, pollutants			
Project start: /1988	(Evisaged) projec	tend: /1991	
Estimated man power: 2.5 M/Y Estimated cost:			

Institute, address: Institut de Protection et de Sureté Nucléaire			a	
Départment de Protection Sanitaire BP 6 F - 92265 Fontenay aus Roses Cédex			b F 13	
Name of principal investigator: Dr J. Aiqueperse and F. Angueno	t	Telephone No: (1) 46547047	•	
Descriptive project title:		<u> </u>	· · · · · · · · · · · · · · · · · ·	
Evaluation of exposure from household and hobby products	s emissions	•	:	
Keywords (see attached list): exposure, concentrations, household-products, hobby, VOC emissions, pollutants, sources	, SVOC, databas	se, evaluation,		
Project start: /1987	(Evisaged) project	tend: /1990		
Estimated man power: 1.5 M/Y	Estimated cost:			
Institute, address:			_	
Institut de Protection et de Sureté Nucléaire			а	
Départment de Protection Sanitaire				
BP 6			b F 14	
F - 92265 Fontenay aus Roses Cédex				
Name of principal investigator: F. Anguenot and Dr J. Aiqueperse Telephone No: (1) 46547451				
Descriptive project title:				
Evaluation of exposure from wood-burning fireplace emissi	ons ·			
Keywords (see attached list): exposure, concentrations, pollutants, sources, combustion, PAH	evaluation, NO	X, VOC, POM,		
Project start: /1987	(Evisaged) projec	t end: /1990		
Estimated man power: 1 M/Y	Estimated cost:			
Institute, address:				
Institut de Protection et de Sureté Nucléaire			а	
Départment de Protection Sanitaire				
CEN:FAR - BP 6			b F 15	
F - 92265 Fontenay aus Roses				
Name of principal investigator: A. Rannou		Telephone No: (1) 46547718		
Descriptive project title:				
Assessment of the indoor radon exposure in France				
Keywords (see attached list) :				
pollution, radon, exposure				
Project start: 05/1983 (Evisaged) project end: 12/1990				
Estimated man power: 10 M/Y	Estimated cost:			

Institute, address: Commissariat à l'Energie Atomique Centres d'Etudes Nucléaires de Fontenay-aux-Roses BP 6 F - 92265 Fontenay-aux-Roses Cédex France			a	
			b F 16	
Name of principal investigator: Marie-Line Perrin		Telephone No: (1) 46547204		
Descriptive project title: Indoor air pollution: characterization of emission factors of odourous compounds a/o aerosols by housing equipment and equipment for the well-being of occupants				
Keywords (see attached list): standards, odours, PM, exposure, sources, emissions, measuresidences, offices, household-products, pollution, detection		ls, buildings,		
Project start :06/1988	(Evisaged) project	end: 12/1989		
Estimated man power: .25 M/Y	Estimated cost: F	400,000		
Institute, address: Laboratoire d'Hygiène de la Ville de Paris (L.H.V.P)			a	
1bis, rue des Hospitalières St Gervais <u>F - 75004 Paris</u>			b F 17	
Name of principal investigator: B. Festy, A. Person, A. M. Laurent Telephone No: 42.74.13.14				
Descriptive project title: Assessment of environmental tobacco smoke (ETS) contribute to the indoor air quality	tion			
Keywords (see attached list): pollution, ETS, exposure, chamber study, models				
Project start: /1986	(Evisaged) projec	t end:		
Estimated man power :	Estimated cost:			
Institute, address: Laboratoire d'Hygiène de la Ville de Paris (L.H.V.P)			a	
1bis, rue des Hospitalières St Gervais <u>F - 75004 Paris</u>			b F 18	
Name of principal investigator: A. Person, B. Festy		Telephone No: 42.74.13.14		
Descriptive project title: Characterization of emission inside domestic environments. Assessment of personnal cumulative exposure to organic air		rban area		
Keywords (see attached list) . buildings, residences, pollutants, HCHO, NOx, VOC, SVOC , PM, metals , concentrations, exposure, variations				
Project start: /1987	(Evisaged) projec	t end: /1989		
Estimated man power: 2 MY Estimated cost:				

			
Institute, address: Laboratoire d'Hygiène de la Ville de Paris (L.H.V.P)			a
1bis, rue des Hospitalières St Gervais <u>F - 75004 Paris</u>			b F 19
Name of principal investigator: A. Person, B. Festy		Telephone No: 42.74.13.14	
Descriptive project title:		and the second s	······································
Characterization of indoor air quality in covered swimming	pools	·	
Keywords (see attached list): VOC, aldehydes, halogenated-HC, buildings, chloramines, e field-measurements, swimming-halls	xposure, emissi	ons,	
Project start: /1986	(Evisaged) project	tend:	
Estimated man power: 1 MY	Estimated cost:		
Institute, address:			а
Préfecture de Police - Laboratoire Central			
39bis rue de Dantzig <u>F - 75015 Paris</u>			b F 20
Name of principal investigator: M. Donati Telephone No: 45.31.14.80			
Descriptive project title: Control of combustion appliances in residences and measure of pollutants (carbon monoxide and carbon dioxide) in residences.			
Keywords (see attached list): sources, combustion, buildings, residences, pollution, inorg	anic, concentra	tions, field measurements	
Project start: permanent	(Evisaged) project	t end:	
Estimated man power: 10 M/Y	Estimated cost:		
Institute, address:			а
Préfecture de Police - Laboratoire Central 39bis rue de Dantzig			
<u>F - 75015 Paris</u>			b F 21
Name of principal investigator: M. Donati	ar ann de princide de la principie de la com	Telephone No: 45.31.14.80	
Descriptive project title:		Andrew Company of the	, and a second
Determination of atmospheric pollution			
Keywords (see attached list): pollution, HCHO, NOx, SVOC, POM, field measurements			
Project start: permanent	(Evisaged) projec	t end:	
Estimated man power: 10 M/Y	Estimated cost:		

Institute, address: Préfecture de Police - Laboratoire Central			а
39bis rue de Dantzig			
F - 75015 Paris			b F 22
		•	
Name of principal investigator: M. Donati		Telephone No: 45.31.14.80	
Descriptive project title:			
Test methods for atmospheric pollution			
Keywords (see attached list) :	opi, ing oping opingsi di adaminana di	and the second s	egenya, indiang mgamba eti.
methods, sampling-analysis, pollution, evaluation			
	1		and the state of t
Project start: permanent	(Evisaged) projec	t end:	
Estimated man power: 10 M/Y	Estimated cost:		*
Institute, address:			a
Préfecture de Police - Laboratoire Central			Ĭ
39bis rue de Dantzig			<u> </u>
<u>F - 75015 Paris</u>			b F 23
Name of principal investigator M. Donati		Telephone No: 45.31.14.80	
Descriptive project title:		•	
Determination of temperature and humidity			
Keywords (see attached list):			
climate, field measurements			
	Le		
Project start: permanent	(Evisaged) projec	t end:	
Estimated man power: 10 M/Y	Estimated cost:		
Institute, address:			а
Préfecture de Police - Laboratoire Central			_
39bis rue de Dantzig		•	
<u>F - 75015 Paris</u>			b F 24
Name of principal investigator: M. Donati		Telephone No: 45.31.14.80	
Descriptive project title:		,, ,	. , , . ,
Determination of temperature, humidity, Carbon dioxide a	nd monoxide,		
account of germs			
Keywords (see attached list) :			
SBS, pollution, inorganic, biological, climate, field-measurements			
Project start: permanent (Evisaged) project end:			
Estimated man power: 10 M/Y	Estimated cost:		

Institute, address: C.S.T.B			a	
84, av. Jean Jaurés				
Champs/Marne			b F 25	
F - 77421 Marne la Vallée Cédex 02				
Name of principal investigator: D. Bienfait		Telephone No. 1-60.05.90.58		
Descriptive project title:				
Quality assessment of ventilation techniques in residential bu	uilding			
Keywords (see attached list):				
buildings, chamber-study, evaluation, standards, ventilation,	methods resid	dences		
	,			
Project start: /1987	(Evisaged) project	end:		
Estimated man power: 0.3 MY	Estimated cost: F	F 300,000		
Institute, address:			_	
C.S.T.B.			a	
84, av. Jean Jaurés			:	
Champs/Marne			b F 26	
F - 77421 Marne la Vallée Cédex 02			D F 26	
Name of principal investigator: D. Bienfait Telephone No: 1-60.05.90.58				
Descriptive project title:				
Compared efficiency of ventilation techniques with regard to the heat losses and air quality				
Keywords (see attached list):				
buildings, ventilation mechanical, natural, variations, diurna	al, seasonal, spa	itial, models, strategies		
Project start: /1987	(Evisaged) project	end: /1989		
Estimated man power: .5 MY	Estimated cost: F	F 500,000		
Institute, address:				
C.S.T.B.			а	
84, av. Jean Jaurés				
Champs/Marne			1	
F - 77421 Marne la Vallée Cédex 02			b F 27	
- 7742 TWIGHTE TO VALUE CECOX OZ				
Name of principal investigator. M. Millet		Telephone No: 1-60.05.90.58		
Descriptive project title:				
Indoor climate and climate design of buildings in summer for	r			
temperate climates and in warm climates				
Keywords (see attached list) :				
buildings, climate, air movement, ventilation				
Project start: /1982	Project start: /1982 (Evisaged) project end: /1989			

Institute, address: C.S.T.B. Et de Sophia		a		
B.P. 21 <u>F - 06562 Valbonne Cedex</u>			b F 28	
Name of principal investigator R. Pelletret		Telephone No: 93.65.34.00		
Descriptive project title: Air movement measurements in multicelled dwellings				
Keywords (see attached list): ventilation, models, validation, air-movement				
Project start: /1986	(Evisaged) projec	tend: /1989		
Estimated man power:	Estimated cost:			
Institute, address: Laboratoire d'Etude des Particules Inhalées 44, rue Charles Moureu			a	
F - 75013 Paris			b F 29	
Name of principal investigator: Guy Dufour Telephone No: 45.84.12.09				
Descriptive project title: Asbestos and non-asbestos fibre measurements in building	atmospheres			
Keywords (see attached list): pollution fibres, concentration, source building materials,c evaluation, buildings, offices, schools)	ontrol, field me	asurements		
Project start: Routine Work - Know How	(Evisaged) projec	t end:		
Estimated man power:	Estimated cost:			
Institute, address: Laboratoire d'Hygiène de la Ville de Paris (L.H.V.P) 1 bis, rue des Hospitalières St Gervais			a	
<u>F - 75004 Paris</u> and Ministries of Health and Construction and Housing			b F30	
Name of principal investigator: B. Festy, F. Squinazi, A. Mouillese	aux	Telephone No:		
Descriptive project title: Air and water quality in buildings with A.C.S.				
Keywords (see attached list): buildings, offices, hospitals, climate, control, SBS, ventilation, ACS				
Project start:	start: (Evisaged) project end:			
Estimated man power:	Estimated cost:			

Institute, address:			_
Laboratoire d'Hygiène de la Ville de Paris (L.H.V.P)			а
1 bis, rue des Hospitalières St Gervais <u>F - 75004 Paris</u>			b F31
Name of principal investigator: S. Perdrizet, P. Durieux, B. Festy		Telephone No: 42.74.13.14	
Descriptive project title:			
Respiratory symptoms and environmental measurements in with different ventilation systems	two buildings		
Keywords (see attached list): offices, epidemiology, ACS, ETS, pollution, biological, clima ventilation, field measurements	te, concentratio	on, respiratory effects,	
Project start: /1987	(Evisaged) project	end: /1 987	
Estimated man power:	Estimated cost:		
Institute, address:			а
Laboratoire d'Hygiène de la Ville de Paris (L.H.V.P) 1 bis, rue des Hospitalières St Gervais			
1bis, rue des Hospitalières St Gervais <u>F - 75004 Paris</u>			b F 32
Name of principal investigator: C. Parfait, B. Festy Telephone No.: 42.74.13.14			
Descriptive project title:	:-		
Air and surface quality of the underground railway system			
Keywords (see attached list): underground, climate, concentrations, air, surfaces, bacteri spatial, biological, pollution, traffic-related	a, variations, di	urnal,	
Project start: /1982 routine work	(Evisaged) project	t end:	
Estimated man power: FF 500,000	Estimated cost:		
Institute, address:			а
			b
Name of principal investigator:	Name of principal investigator: Telephone No:		
Descriptive project title:			
Keywords (see attached list) :			
Project start: (Evisaged) project end:			
Estimated man power:	Estimated cost:		

Institute, address:			а	
Fraunhofer-Institut für Holzforschung (WKI) Bienroderweg 54 E				
D-3300 Braunschweig			b D1	
The second secon				
Name of principal investigator: Dr.rer.nat. R. Marutzky		Telephone No: 0531-39090		
Descriptive project title:				
Investigations aimed at the preparation of guidelines for th emissions from furniture and furnished caravans/mobile ho		of formaldehyde		
Keywords (see attached list): HCHO, guidelines, development, methods, measurements, building-equipment, furniture, traffic-related, mobile home		es,		
Project start: 04/1986	(Evisaged) project	t end: 12/1988		
Estimated man power: 35 MMonth	Estimated cost:			
Institute, address:			а	
Fraunhofer-Institut für Holzforschung				
Bienroderweg 54 E				
<u>D-3300 Braunschweig</u>			b D2	
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Name of principal investigator: Dr.rer.nat. R. Marutzky Telephone No: 0531-39090				
Descriptive project title:			_	
Investigations on the contribution of building and renovati				
indoor air. Development of methods for the measurement	, assessment an	a reduction of emissions from	n materials	
Keywords (see attached list): emissions, pollutants, organic, odour, building materials, co measurement, development, renovation	ontrol, methods			
Project start: 03/1985	(Evisaged) projec	tend: 12/1988		
Estimated man power: 75 MMonth	Estimated cost:			
Institute, address:			а	
Universitäts-Kinderklinik			~	
Projekt Atemwege und Luftverschmutzung				
Mathildenstraße 1			b D3	
D - 7800 Freiburg				
Name of principal investigator: Prof. Dr. R. Urbanek	Name of principal investigator: Prof. Dr. R. Urbanek Telephone No: 0761/270-444			
Descriptive project title:				
Air pollution, bronchial hyperreactivity and bronchial pulm	onary disorders	in children and adults		
Keywords (see attached list)				
pollution, effects, hyperreactivity, respiratory, lung function, children:				
Project start: 1/1987 (Evisaged) project end: 12/1989				
Estimated man power: 3 M/Y	Estimated cost:			

Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH. Institut für Strahlenschutz			a
Ingolstädter Landstr.1 8042 Oberschleißheim			b D4
Name of principal investigator: Prof. W. Jacobi		Telephone No: 089-3187-0	
Descriptive project title: Development and application of a model for the computation of radon distribution in houses			
Keywords (see attached list): radon, concentrations, variations, residences, models, devel	opment		
Project start: 01/1985	(Evisaged) project	end: 12/1987	
Estimated man power:	Estimated cost:		
Institute, address. Institut für Wasser-,Boden- und Lufthygiene des Bundesgesundheitsamtes			а
Corrensplatz 1 1000 Berlin 33			b D5
Name of principal investigator: Dr. C. Krause Telephone No: 030-8308-2715		;	
Descriptive project title:			
Occurrence of home dust allergies in the FRG	••••••••••••••••••••••••••••••••••••••		
Keywords (see attached list): allergy, pollutants, PM, home dust, effects, assessment			
Project start: /1987	(Evisaged) project	end: /1989	
Estimated man power: 1.5 MY	Estimated cost:		
Institute, address: Institut für Wasser-, Boden- und Lufthygiene des Bundesgesundheitsamtes			a
Corrensplatz 1 1000 Berlin 33			b D6
Name of principal investigator: Dr. C. Krause		Telephone No: 030-8308-2715	· · · · · · · · · · · · · · · · · · ·
Descriptive project title: Measurement and analysis of environmental exposure in the - Project " Environment and Health "	e FRG		
Keywords (see attached list): epidemiological study, general population, exposure, biological monitoring, VOC, HCHO, dust, metals, drinking water			
Project start: 07/1985	(Evisaged) project	end: 12/1989	
Estimated man power: 7 MY Estimated cost: DM 3,500,000		The state of the s	

Institute, address: Max von Pettenkofer Institut des Bundesgesundheitsamtes			a
Unter den Eichen 82-84 1000 Berlin 45			b D7
Name of principal investigator: Dr. R. Weber, Dr. M. Fischer, Dr. C	Krauso	7.7.1	V2.40.7
	. Krause	Telephone No: 030-8308 2298	72487
Descriptive project title: Transfer of air pollutants to foodstuff			
Keywords (see attached list): pollution, chlorinated HC, perchloroethylene, food contami	nation, dry clea	ning shops	
Project start: 09/1986	(Evisaged) project	end: 06/1987	
Estimated man power: .3 MY	Estimated cost:		
Institute, address: Institut für Wasser-,Boden- und Lufthygiene des Bundesgesundheitsamtes			a
Corrensplatz 1 1000 Berlin 33			b D8
Name of principal investigator: Dr. N. Englert		Telephone No: 030-8308-280	5
Descriptive project title: Comparative investigation of the acute effect of air pollutants. Part III: Air quality and respiratory illness in selected population groups			
Keywords (see attached list): effects, hyperreactivity, respiratory effects, exposure variat	ions, NOx, SO ₂ ,	PM, susceptable groups	
Project start: 12/1986	(Evisaged) projec	t end: 12/1989	
Estimated man power: 6 MY	Estimated cost:	OM 800,000	
Institute, address: Institut für Wasser-,Boden- und Lufthygiene des Bundesgesundheitsamtes			a
Corrensplatz 1 1000 Berlin 33			b D9
Name of principal investigator: Dr. M. Fischer		Telephone No: 030-8308-0	
Descriptive project title: Measurement and assessment of pollutants in indoor air (see D 22)			
Keywords (see attached list): emissons, VOC, household products, building equipment, methods, development, chamber study, mutagenicity			
Project start: 09/1986 (Evisaged) project end: 08/1989			
Estimated man power: 6.5 MY Estimated cost: DM 1,500,000			

Corrensplatz 1 D - 1000 Berlin 33 Name of principal investigator: Dr. G. Hoffmann Telephone No: 030-8308-0 Descriptive project title: Standardized animal model for the assessment of noxious pollutants	Institute, address: Institut für Wasser-,Boden- und Lufthygiene des Bundesgesundheitsamtes			a	
Descriptive project tritle: Standardized animal model for the assessment of noxious pollutants inhaled with indoor air increches Repwords (see attached (sp.): animal study, inhalation, toxicology, effects, standardization, pollutants, household products Project start: 70/1985 Estimated man power: 1MY Institute, address: Freie und Hansestadt Hamburg Gesundherits behörde Abteilung Gesundherit und Umwelt Tesdorphstraße 8 D _ 2000 Hamburg 13 Name of principal investigator: Dr. Neus Descriptive project tritle: Epidemiological study of the internal burden of arsenic and heavy metals in inhalations of the city of Hamburg Reywords (see attached (sp.): pollution, metals, concentrations, exposure, variations, epidemiological study, susceptable groups, children Project start: 10/1987 (Evitaged) project end: 12/1991 Estimated man power: 9 MY Institute, address: Freie und Hansestadt Hamburg, Gesundheitsbehörde Ante (für Gesundheits und Umwelt Tesdorphstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr. Sagunski Telephone No. 040-44 195-1 (385) Descriptive project tritle: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached (sp.): epidemiological study, dose, pollution, SVOC, dioxin, schools, susceptible groups, children Project start: 08/1987 (Evitaged) project end: 07/1988	Corrensplatz 1			b D 10	
Standardized animal model for the assessment of noxious pollutants inhaled with indoor air Keywords (see attached list): animal study, inhalation, toxicology, effects, standardization, pollutants, household products Project start: 07/1985	Name of principal investigator: Dr. G. Hoffmann		Telephone No: 030-8308-0		
animal study, inhalation, toxicology, effects, standardization, pollutants, household products Project start: 07/1985 Estimated cost: Institute, address: Preie und Hansestadt Hamburg Gesundheitsbehorde Abteilung Gesundheit und Umwelt Tesdorpfstraße 8 D - 2000 Hamburg 13 Name of principal investigator: Dr. Neus Descriptive project title: Epidemiological study of the internal burden of arsenic and heavy metals in inhabitants of the city of Hamburg Keywords (see attached list): pollution, metals, concentrations, exposure, variations, epidemiological study, susceptable groups, children Project start: 10/1987 Estimated man power: 9 MY Institute, address: Freie und Hansestadt Hamburg, Gesundheitsbehorde Amt für Gesundheits- und Veterinärwesen Abteilung GS, Gesundheit und Umwelt Tesdorpfstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr. Sagunski Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study, dose, pollution, SVOC, dioxin, schools, susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Descriptive project title: Standardized animal model for the assessment of noxious p inhaled with indoor air	ollutants			
Institute, address: Institute, address:	animal study, inhalation, toxicology, effects, standardization,	pollutants,			
Institute, address: Freie und Hansestadt Hamburg Gesundheit und Umwelt Tesdorpfstraße 8 D - 2000 Hamburg 13 Name of principal investigator: Dr. Neus Telephone No: 040-44195-1 (386) Descriptive project title: Epidemiological study of the internal burden of arsenic and heavy metals in inhabitants of the city of Hamburg Keywords (see attached list): pollution, metals, concentrations, exposure, variations, epidemiological study, susceptable groups, children Project start: 10/1987 Estimated man power: 9 MY Trele und Hansestadt Hamburg, Gesundheitsbehörde Amt für Gesundheits- und Veterinärwesen Abteilung GS, Gesundheit und Umwelt Tesdorpfstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr. Sagunski Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study, dose, pollution, SVOC, dioxin, schools, susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Project start: 07/1985	(Evisaged) project	end: 06/1988		
Freie und Hansestadt Hamburg Gesundheit behörde Abteilung Gesundheit und Umwelt Tesdorpfstraße 8 D-2000 Hamburg 13 Name of principal investigator: Dr. Neus Descriptive project title: Epidemiological study of the internal burden of arsenic and heavy metals in inhabitants of the city of Hamburg Keywords (see attached list): pollution, metals, concentrations, exposure, variations, epidemiological study, susceptable groups, children Project start: 10/1987 Estimated man power: 9 MY Estimated cost: Institute, address: Freie und Hansestadt Hamburg, Gesundheitsbehörde Amt für Gesundheits- und Veterinärwesen Abteilung G5, Gesundheit und Umwelt Tesdorpfstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr. Sagunski Telephone No: 040-44 195-1 (385) Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study, dose, pollution, SVOC, dioxin, schools, susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Estimated man power: 1MY	Estimated cost:			
Testoprofistraße 8 D-2000 Hamburg 13 Name of principal investigator: Dr. Neus Telephone No: 040-44195-1 (386) Descriptive project title: Epidemiological study of the internal burden of arsenic and heavy metals in inhabitants of the city of Hamburg Keywords (see attached list): pollution, metals, concentrations, exposure, variations, epidemiological study, susceptable groups, children Project start: 10/1987 Estimated man power: 9 MY Estimated man power: 9 MY Estimated cost: Institute, address: Freie und Hansestadt Hamburg, Gesundheitsbehörde Amt für Gesundheits- und Veterinärwesen Abteilung GS, Gesundheit und Umwelt Tesdorfpstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr. Sagunski Telephone No: 040-44 195-1 (385) Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study, dose, pollution, SVOC, dioxin, schools, susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Freie und Hansestadt Hamburg Gesundheitsbehörde			a	
Descriptive project title: Epidemiological study of the internal burden of arsenic and heavy metals in inhabitants of the city of Hamburg Keywords (see attached list): pollution, metals, concentrations, exposure, variations, epidemiological study, susceptable groups, children Project start: 10/1987 (Evisaged) project end: 12/1991 Estimated man power: 9 MY Estimated cost: Institute, address: Freie und Hansestadt Hamburg, Gesundheitsbehörde Amt für Gesundheits- und Veterinärwesen Abteilung G5, Gesundheit und Umwelt Tesdorpfstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr. Sagunski Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study, dose, pollution, SVOC, dioxin, schools, susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Tesdorpfstraße 8			b D 11	
Epidemiological study of the internal burden of arsenic and heavy metals in inhabitants of the city of Hamburg Keywords (see attached list): pollution, metals, concentrations, exposure, variations, epidemiological study, susceptable groups, children Project start: 10/1987 (Evisaged) project end: 12/1991 Estimated man power: 9 MY Estimated cost: Institute, address: Freie und Hansestadt Hamburg, Gesundheitsbehörde Amt für Gesundheits- und Veterinärwesen Abteilung G5, Gesundheit und Umwelt Tesdorpfstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr.Sagunski Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study,dose,pollution,SVOC,dioxin,schools,susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Name of principal investigator: Dr. Neus		Telephone No: 040-44195-1 (3	386)	
pollution, metals, concentrations, exposure, variations, epidemiological study, susceptable groups, children Project start: 10/1987 (Evisaged) project end: 12/1991 Estimated man power: 9 MY Estimated cost: Institute, address: Freie und Hansestadt Hamburg, Gesundheitsbehörde Amt für Gesundheits- und Veterinärwesen Abteilung G5, Gesundheit und Umwelt Tesdorpfstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr.Sagunski Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study,dose,pollution,SVOC,dioxin,schools,susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Epidemiological study of the internal burden of arsenic and	heavy			
Estimated man power: 9 MY Estimated cost: Institute, address: Freie und Hansestadt Hamburg, Gesundheitsbehörde Amt für Gesundheits- und Veterinärwesen Abteilung G5, Gesundheit und Umwelt Tesdorpfstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr.Sagunski Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study,dose,pollution,SVOC,dioxin,schools,susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988		demiological stu	dy, susceptable groups, child	dren	
Institute, address: Freie und Hansestadt Hamburg, Gesundheitsbehörde Amt für Gesundheits- und Veterinärwesen Abteilung G5, Gesundheit und Umwelt Tesdorpfstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr. Sagunski Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study,dose,pollution,SVOC,dioxin,schools,susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Project start: 10/1987	(Evisaged) project	end: 12/1991		
Freie und Hansestadt Hamburg, Gesundheitsbehörde Amt für Gesundheits- und Veterinärwesen Abteilung G5, Gesundheit und Umwelt Tesdorpfstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr. Sagunski Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study, dose, pollution, SVOC, dioxin, schools, susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Estimated man power: 9 MY	Estimated cost:			
Tesdorpfstr. 8, 2000 Hamburg 13 Name of principal investigator: Dr. Neus, Dr.Sagunski Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study, dose, pollution, SVOC, dioxin, schools, susceptible groups, children Project start: 08/1987 D	Freie und Hansestadt Hamburg, Gesundheitsbehörde Amt für Gesundheits- und Veterinärwesen			a	
Descriptive project title: Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study,dose,pollution,SVOC,dioxin,schools,susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Tesdorpfstr. 8,	str. 8,		b D 12	
Epidemiological study of the dioxin dose of infants due to indoor air in creches Keywords (see attached list): epidemiological-study,dose,pollution,SVOC,dioxin,schools,susceptible groups, children Project start: 08/1987 (Evisaged) project end: 07/1988	Name of principal investigator: Dr. Neus, Dr.Sagunski Telephone No: 040-44 195-1 (385)			385)	
epidemiological-study,dose,pollution,SVOC,dioxin,schools,susceptible groups, children *Project start: 08/1987 (Evisaged) project end: 07/1988	Epidemiological study of the dioxin dose of infants due to indoor				
Estimated man power. 5 MY Estimated cost:	Project start: 08/1987	(Evisaged) project	end: 07/1988		
	Estimated man power. 5 MY	Estimated cost:			

Fraunhofer Institut für Umweltchemie und Okotoxikologie 5948 Schmallenberg-Grafschaft. Name of principal investigator: Dr. U. Glaser Descriptive project tittle: Inhalation study using experimental animals for the diagnosis of subclinical health disturbances caused by mixtures of volatile compounds in indoor air and by home dust Keywords (see attached list): effects, animal study, chamber study, pollutants, VOC, PM Project start: /1988 Estimated man power: 2.5 MY Estimated cost: Institute, address: Fraunhofer-Institut für Umweltchemie und Okotoxikologie 5948 Schmallenberg-Grafschaft. Name of principal investigator: Dr. D. Hochrainer Descriptive project title: Development of air filters for the protection of residences and offices from allergens Acywords (see attached list): pollutants, biological, allergens, control, methods, development Project start: 01/1988 Estimated cost: Estimated cost: Descriptive project title:	Institute, address:			а	
SP48 Schmallenberg-Grafschaft Name of principal investigator: Dr. U. Glaser Descriptive project title: Inhalation study using experimental animals for the diagnosis of subclinical health disturbances caused by mixtures of volatile compounds in indoor air and by home dust Keywords (see attached list): effects, animal study, chamber study, pollutants, VOC, PM Project start: 11988 (Evisaged) project end: /1989 Estimated man power: 2.5 MY Estimated cost: Institute, address: Fraunhofer-Institut für Umwelthemie und Ökotoxikologie S948 Schmallenberg-Grafschaft. Name of principal investigator: Dr. D. Hochrainer Descriptive project title: Development of air filters for the protection of residences and offices from allergens Keywords (see attached list): pollutants, biological, allergens, control, methods, development Project start: 01/1988 (Evisaged) project end: 12/1990 Estimated man power: 6 MY Estimated cost: Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. I. Gebefügi Telephone No: 089-3187-2690 Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):	•				
Name of principal investigator: Dr. U. Glaser Descriptive project title: Inhalation study using experimental animals for the diagnosis of subclinical health disturbances caused by mixtures of volatile compounds in indoor air and by home dust Keywords (see attached list): effects, animal study, chamber study, pollutants, VOC, PM Project start: /1988			b D 13		
Descriptive project title: Inhalation study using experimental animals for the diagnosis of subclinical health disturbances caused by mixtures of volatile compounds in indoor air and by home dust Keywords (see attached list): effects, animal study, chamber study, pollutants, VOC, PM Project start: /1988					
Inhalation study using experimental animals for the diagnosis of subclinical health disturbances caused by mixtures of volatile compounds in indoor air and by home dust Keywords (see attached list): effects, animal study, chamber study, pollutants, VOC, PM Project start: /1988	Name of principal investigator: Dr. U. Glaser	taria de la composición del composición de la composición de la composición del composición de la composición de la composición de la composición de la composición del composición de la composición del composic	Telephone No: 02972-302-0		
caused by mixtures of volatile compounds in indoor air and by home dust Keywords (see attached list): effects, animal study, chamber study, pollutants, VOC, PM Project start: /1988	Descriptive project title:		. Paragraphia da da	<u>, and the state of the state o</u>	
effects, animal study, chamber study, pollutants, VOC, PM Project start: /1988 (Evisaged) project end: /1989 Estimated man power: 2.5 MY Estimated cost: Institute, address: Fraunhofer-Institut für Umweltchemie und Okotoxikologie 5948 Schmallenberg-Grafschaft: Name of principal investigator: Dr. D. Hochrainer Descriptive project title: Development of air filters for the protection of residences and offices from allergens Keywords (see attached list): pollutants, biological, allergens, control, methods, development Project start: 01/1988 (Evisaged) project end: 12/1990 Estimated man power: 6 MY Estimated cost: Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Okologische Chemie Ingolstädter Landstr.1 8042 Neuherberg Name of principal investigator: Dr. I. Gebefügi Telephone No: 089-3187-2690 Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):			al health disturbances		
Estimated man power: 2.5 MY Estimated cost: Institute, address: Fraunhofer-Institut für Umweltchemie und Ökotoxikologie 5948 Schmallenberg-Grafschaft Name of principal investigator: Dr. D. Hochrainer Descriptive project title: Development of air filters for the protection of residences and offices from allergens Keywords (see attached list): pollutants, biological, allergens, control, methods, development Project start: 01/1988 (Evisaged) project end: 12/1990 Estimated man power: 6 MY Estimated cost: Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. 1. Gebefügi Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):	Keywords (see attached list):				
Institute, address: Fraunhofer-Institut für Umweltchemie und Okotoxikologie 5948 Schmallenberg-Grafschaft. Name of principal investigator: Dr. D. Hochrainer Descriptive project title: Development of air filters for the protection of residences and offices from allergens Keywords (see attached list): pollutants, biological, allergens, control, methods, development Project start: 01/1988 Estimated man power: 6 MY Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Okologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg. Name of principal investigator: Dr. I. Gebefügi Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):	effects, animal study, chamber study, pollutants, VOC, PM				
Institute, address: Fraunhofer-Institut für Umweltchemie und Ökotoxikologie 5948 Schmallenberg-Grafschaft Name of principal investigator: Dr. D. Hochrainer Descriptive project title: Development of air filters for the protection of residences and offices from allergens Keywords (see attached list): pollutants, biological, allergens, control, methods, development Project start: 01/1988 Estimated man power: 6 MY Estimated cost: Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. I. Gebefügi Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):	Project start: /1988	(Evisaged) projec	t end: /1989	tanan ya kata kata ana ana ang kata kata ana ang kata kata ang kata kata ang kata kata ang kata kata ang kata	
Fraunhofer-Institut für Umweltchemie und Ökotoxikologie 5948 Schmallenberg-Grafschaft Discriptive project title: Development of air filters for the protection of residences and offices from allergens Keywords (see attached list): pollutants, biological, allergens, control, methods, development	Estimated man power: 2.5 MY	Estimated cost:			
für Umweltchemie und Ökotoxikologie 5948 Schmallenberg-Grafschaft Descriptive project title:	Institute, address:			а	
Syda Schmallenberg-Grafschaft					
Name of principal investigator: Dr. D. Hochrainer Descriptive project title: Development of air filters for the protection of residences and offices from allergens Keywords (see attached list): pollutants, biological, allergens, control, methods, development Project start: 01/1988 (Evisaged) project end: 12/1990 Estimated man power: 6 MY Estimated cost: Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. 1. Gebefügi Telephone No: 089-3187-2690 Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):				b D 14	
Descriptive project title: Development of air filters for the protection of residences and offices from allergens Keywords (see attached list): pollutants, biological, allergens, control, methods, development Project start: 01/1988 (Evisaged) project end: 12/1990 Estimated man power: 6 MY Estimated cost: Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. 1. Gebefügi Telephone No: 089-3187-2690 Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):					
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offices from allergens Keywords (see attached list): pollutants, biological, allergens, control, methods, development Project start: 01/1988 (Evisaged) project end: 12/1990 Estimated man power: 6 MY Estimated cost: Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. 1. Gebefügi relephone No: 089-3187-2690 Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):					
Keywords (see attached list): pollutants, biological, allergens, control, methods, development Project start: 01/1988 (Evisaged) project end: 12/1990 Estimated man power: 6 MY Estimated cost: Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. I. Gebefügi Telephone No: 089-3187-2690 Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):	· ·	ind			
pollutants, biological, allergens, control, methods, development Project start: 01/1988 (Evisaged) project end: 12/1990 Estimated man power: 6 MY Estimated cost: Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. I. Gebefügi Telephone No: 089-3187-2690 Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):		<u> </u>		this transport of the first transport of the second	
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Institute, address: Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. I. Gebefügi Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):	Project start: 01/1988	(Evisaged) projec	t end: 12/1990		
Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr.1 8042 Neuherberg Name of principal investigator: Dr. 1. Gebefügi Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):	Estimated man power: 6 MY	Estimated cost:			
Gesellschaft für Strahlen- und Umweltforschung mbH Institut für Ökologische Chemie Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. 1. Gebefügi Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):	Institute, address:			а	
Ingolstädter Landstr. 1 8042 Neuherberg Name of principal investigator: Dr. I. Gebefügi Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):	•			_	
Name of principal investigator: Dr. 1. Gebefügi Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):				b D 15	
Descriptive project title: Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list):				0 0 13	
Detection and assessment of organic chemicals potentially present in indoor air over long periods of time Keywords (see attached list)	Name of principal investigator: Dr. 1. Gebefügi Telephone No: 089-3187-269		0		
Keywords (see attached list):	Descriptive project title:				
	Detection and assessment of organic chemicals potentially present in indoor air over long periods of time				
sources, building materials, household products, hobby, SVOC, emissions, sampling, analysis, assessment					
Project start: 06/1985 (Evisaged) project end: 1989	Project start: 06/1985	(Evisaged) projec	tend: 1989		
Estimated man power: 7 MY Estimated cost:	Estimated man power: 7 MY	Estimated cost:			
	L				

Institute, address: GSF - Proj.Inhalation			а
Ingolstädter Landstr.1 D - 8042 Neuherberg			b D 16
Name of principal investigator: Prof. Dr. J. Heyder, Dr. W. G. Krey	ung	Telephone No: 089-3187 2309)
Descriptive project title: Effect of environmental aerosols on function and structure of	of the respirator	ry tract	·
Keywords (see attached list): pollution, PM, aerosols, chamber study, chronic exposure, as non-respiratory, lung function	nimal study, do	gs, effects respiratory,	
Project start: /1987	(Evisaged) project	end: open	
Estimated man power: 30 MY	Estimated cost:		
Institute, address: Technische Universität München Lehrstuhl für Ökologische Chemie			а
Institut für Chemie Am Löwentor <u>D - 8050 Freising-Weihenstephan</u>			b D 17
Name of principal investigator: Prof. Dr. F. Korte		Telephone No: 8161-71-3277	
Descriptive project title: Behaviour and effects of indoor chemicals - Identification, of exposure, hazard assessment with toxicological verification.		•	
Keywords (see attached list): pollution, VOC, SVOC, concentrations, exposure, effects, an human controlled exposure, allergy, chamber study	imal study,		
Project start: /1988	(Evisaged) project	end: /1991	
Estimated man power: 4 M/Y	Estimated cost:		
Institute, address: Universitäts-Krankenhaus Eppendorf Pediatric Clinic, Institute for Medical Sociology & Department of Clinical Biochemistry			a
Martinistrasse 52 D - 2000 Hamburg 20			b D 18
Name of principal investigator: Prof. Dr. Schulte, Dr. W. Karmaus Telephone No.: 040-468 33 96			
Descriptive project title: Health consequences of wood preservatives on children in day-care centres			
Keywords (see attached list): building materials, schools, effects, PCP, dioxin, lindane, immune effects, biological monitoring, epidemiological study, children ($N = 600$)			
Project start: 06/1987 (Evisaged) project end: 9/1988			
Estimated man power: 14 M/Y Estimated cost: DM 420,000			

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Institute, address: Universitäts-Krankenhaus Eppendorf Institute for Medical Sociology &			a	
Department of Clinical Biochemistry Martinistrasse 52 <u>D - 2000 Hamburg 20</u>			b D 19	
Name of principal investigator: Dr. W. Karmaus	Telepi	hone No: 040-468 33 96		
Descriptive project title:				
Health consequences of wood preservatives on teacher in day-care centres				
Keywords (see attached list): building-materials, schools, effects, immune-effects, bioche epidemiological-study, PCP, dioxin, lindane, biocides, occup				
Project start: 10/1987	(Evisaged) project end: 0	09/1988		
Estimated man power: 12 MY	Estimated cost: DM 390	0,000		
Institute, address:			а	
Städtisches Gesundheitsamt Augsburg				
Labor für Umwelthygiene Hoher Weg 8	d.		b D 20	
D - 8900 Augsburg			b D 20	
Name of principal investigator. Prof. J. Gostomzyk, Th. Gratza	Telep	hone No: 0821-324 2073		
Descriptive project title:				
Tetrachloroethylene causing indoor air pollution and result blood concentrations in the neighbourhood of dry cleaning	-			
Keywords (see attached list) :				
Tetrachloroethylene, pollution, VOC, chlorinated HC, source	es, dry cleaning, expo	sure, biological monito	oring	
Project start: /1988	(Evisaged) project end:	-		
Estimated man power.	Estimated cost:			
Institute, address:			а	
Fraunhofer-Institut für Umweltchemie und Ökotoxicologie Postfach 12 60				
D - 5948 Schmallenberg-Grafschaft			b D 21	
Name of principal investigator: Dr. Ulrich Glaser	Telen	hone No: 02972-302-0		
Descriptive project title	1.00			
Validation of experimental animal analyses for risk assessment of indoor air pollutant mixtures	ent			
Keywords (see attached list): NO_2 , NO_K , VOC , PM , exposure, chamber study, animal study, genotoxicity, irritation, risk, assessment, validation				
Project start: 01/1989	(Evisaged) project end	12/1991		
Estimated man power. 6 MY	Estimated cost:			

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Institute, address: Fraunhofer-Institut für Systemtechnik und Innovationsforschung			a	
Breslauerstraße 48 D - 7500 Karlsruhe 1			b D 22	
Name of principal investigator: Dr. Walter Tötsch Telephone No: 0721-6809-11			.	
Descriptive project title:			**************************************	
Measurement and assessment of pollutants in indoor air (in collaboration with Institut für Wasser-, Boden-, Lufthygic	ene ,see D 9)			
Keywords (see attached list):				
concentrations, pollutants, sources, furniture, material desc	ription			
Project start: 09/1986	(Evisaged) project	end:		
Estimated man power: 2.5 M/Y	Estimated cost: 0	9/1989		
Institute, address:			а	
Förderverein Allergieforschung e.V. Mönchengladbach			· 	
Tomperstraße 27			b D 23	
D - 4050 Mönchengladbach 6			U U 23	
Name of principal investigator: Josef H. Elixmann		Telephone No: 02161-550755		
Descriptive project title:				
Air conditioning filters as ecosystem and distributor forfung	ji and fungal all	ergens		
Keywords (see attached list): ACS, biological, allergens, pollution, sources, VOC, ventilati filter systems	on, for fungi			
Project start: 10/1984	(Evisaged) project	tend: 12/1988		
Estimated man power: 4 M/Y	Estimated cost:			
Institute, address:			·a	
G A F - Gesellschaft für angewandte und experimentelle				
Allergieforschung mbH Tomper Straße 27		÷ .	1 00	
D - 4050 Mönchengladbach			b D 24	
Name of principal investigator: Josef H. Elixmann Telephone No. 02161-550755				
Descriptive project title				
Evidence of dust mites in home textiles of different type and				
fibre and in different environment				
keywords (see attached list): pollution, biological, sources, building equipment, home textiles, mites allergens, assessment				
Project start: 06/1988	(Evisaged) projec	tend 06/1989		
Estimated man power :	<u> </u>			

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Institute, address: Institut für Umweltuntersuchungen im Amt für Umweltschutz der Stadt Köln			a	
Eifelwall 7 D - 5000 Köln			b D 25	
Name of principal investigator: Dr. Willfried Dulson, Kirsten Reinh	nardt	Telephone No: 0221-221 7626	,	
Descriptive project title: Indoor perchlorethylene concentrations in the neighbourho dry cleaning shops	od of			
Keywords (see attached list)				
pollution, VOC, field measurements, exposure, sources, chlo	rinated HC	4		
Project start: 08/1987	(Evisaged) project	end: 08/1988		
Estimated man power:	Estimated cost:			
Institute, address:			a	
Medizinische Universität zu Lübeck Institut für Hygiene		•		
Ratzeburger Allee 160			b D 26	
<u>D - 2400 Lübeck</u>			5 20	
Name of principal investigator: Prof. Dr. med. J. Beckert		Telephone No: 0451-5002796		
Descriptive project title:				
Heat recovery and indoor air pollution. Determination of ca indoor environment and development of simple passive air	7	-	he	
Keywords (see attached list) :				
pollutants, methods, sampling, development				
Project start: 09/1987	(Evisaged) project	t end: 12/1989		
Estimated man power: 5 M/Y	Estimated cost:			
Institute, address: Institut für Hygiene der Freien Universität Berlin			a	
Leiter:Prof.Dr.med.Rüden			b D 27	
Hindenburgdamm 27 <u>D - 1000 Berlin 45</u>			3 2 2.	
Name of principal investigator: DrIng. HJ. Moriske Telephone No: 030-798 3680			81	
Descriptive project title:				
Biological and chemical characterization of organic pollutants and heavy metals in indoor air				
Keywords (see attached list): metals, PAH, concentrations, sources, measurement, toxicology, mutagenicity, POM, PM, effects, biological monitoring, suspended particulates, N-PAH, pollutants				
Project start: /1989	(Evisaged) project	tend: /1991		
Estimated man power: 4 MY	Estimated cost: [OM 200,000		

Institute, address: Institut für Hygiene der Freien Universität Berlin Leiter:Prof.Dr.med.Rüden Hindenburgdamm 27			a b D 28	
<u>D - 1000 Berlin 45</u> Name of principal investigator: Drlng. HJ. Moriske Telephone No: 030-798 3680/			21	
		Telephone No. 030-736 3000N	,	
Descriptive project title: Concentrations of styrene monomeres in indoor air				
Keywords (see attached list): styrene, pollution, concentrations, mutagenicity, effects, √0	ЭС			
Project start: /1987	(Evisaged) project	end: /1988		
Estimated man power: 2 MY	Estimated cost: D	M 20,000		
Institute, address: Institut für Hygiene, Ruhr-Universität Bochum Postfach 102148			a	
D - 4630 Bochum 1			b D 29	
Name of principal investigator: Prof. Dr. med. F. Selenka		Telephone No: 0234-700 2365		
Descriptive project title: Transmission of PCP, HCH and chlorinated dioxins and furan preserved wood to man. Study at nursery schools from North		ia		
Keywords (see attached list) pollution, SVOC, biocides, chlorinated dioxins, pentachloropschools, exposure, nurses, children	phenol, building	g materials, nursery schools,		
Project start: /1984	(Evisaged) project	end: /1989		
Estimated man power: 5 MY	Estimated cost:	000,000 Mg		
Institute, address: Institut für Hygiene, Ruhr-Universität Bochum Postfach 102148			a	
D - 4630 Bochum 1			b D30	
Name of principal investigator: Prof. Dr. med. F. Selenka Telephone No: 0234-700 2365				
Descriptive project title: Immunological parameters influenced by chlorinated organic compounds				
Keywords (see attached list): Pollution SVOC, biocides, exposure, chlorinated dioxins, PCP, PCB, HCH, effects, immunotoxicity, hyperreactivity, complaint				
Project start: /1987 (Evisaged) project end: /1988				
Estimated man power: 3 MY	Estimated cost: C	DM 360,000		

Institute, address:			а
Institut für Hygiene, Ruhr-Universität Bochum Postfach 102148			
D - 4630 Bochum 1			b D 31
Name of principal investigator: Prof. Dr. med. F. Selenka		Telephone No: 0234-700 2365	
Descriptive project title:			
Volatile chlorinated organic compounds in residences			
Keywords (see attached list) :	da, gerieda salfani spalj		yendini ke musunganya sandiya ayen sandiya ayen
Pollution VOC, chlorinated HC, residences, exposure, assess	ment		
Project start: /1985	(Evisaged) projec	tend: /1989	
Estimated man power: 3 MY	Estimated cost:	OM 180,000	
Institute, address:			a
Untersuchungsstelle für Umwelttoxikologie			
des Landes Schleswig-Holstein Fleckenstraße 4			h p.ss
D - 2300 Kiel 1			b D 32
Name of principal investigator: Dr. med. Birger Heinzow	and the second s	Telephone No: 0431-597 3545	Š
Descriptive project title:			
Indoor air pollution in day-nurseries in Schleswig-Holstein			
Keywords (see attached list) :	r din ar gan i ar gan ar gan a		
Pentachlorphenol, exposure, schools, pollution, biocides, ch	nildren, epidem	iological, study, building ma	terials
Project start: /1986	(Evisaged) projec	tend: /1988	
Estimated man power: 2 MY	Estimated cost: [OM 50,000	
Institute, address:			а
	a.		
			b
Name of principal investigator:		Telephone No:	•
Descriptive project title:		,	
Keywords (see attached list) :			aratangan is in anagajagayya sa Arata dalahangan ara dar jam
Project start:	(Evisaged) projec	t end:	
Estimated man power:	Estimated cost:	و به محمد محمد همه همه این	
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Institute, address: Health & Safety Executive			a	
The Occupational Medicine & Hygiene Laboratories 403, Edgware Rd. London NW2 6LN			b GB 1	
Name of principal investigator: Dr. A. P. Rood Telephone No: 01-450-8911				
Descriptive project title Asbestos in the non-occupational Environment				
Keywords (see attached list) : fibres, pollution, asbestos, concentrations, assessment				
Project start: 1978	(Evisaged) project	tend: 1988		
Estimated man power: 2 M/Y	Estimated cost:			
Institute, address: Department of Community Medicine			а	
St. Thomas's Campus London SE1 7EH			b GB 2	
Name of principal investigator: Dr. Jane Melia		Telephone No:01-928-9292 Ex	ct.3150	
Descriptive project title: Investigation of the relation between respiratory illness in p in inner city areas and the use of gas cookers and paraffin h	-	-		
Keywords (see attached list): emissions, sources, gas-cookers, paraffin-heaters, residence epidemiological-study, respiratory, susceptible-groups, chil				
Project start: 1987	(Evisaged) project	t end: 1989		
Estimated man power: 9 M/Y	Estimated cost:			
Institute, address: Department of Community Medicine University of Dundee The Medical School, Ninewells Hospital			a	
Dundee DD1 9SY Scotland			b GB 3	
Name of principal investigator: Charles du V. Florey Tel. No: 0382-60111-X2124			Fax No.: 645748	
Descriptive project title: Relation of the severity of asthmatic symptoms to the use of gas for cooking in the home.				
Keywords (see attached list): Susceptible-groups, effects, epidemiological-study, respiratory, as thmatic, pollution, NOX, emissions, gas-cookers, residences, emissions, sources, combustion				
Project start: 01/1986 (Evisaged) project end: 12/1987				
Estimated man power:	Estimated cost:			

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Institute, address: Building Research Establishment		а		
Building Research Station				
Garston, Watford			b GB 4	
Hertfordshire, WD2 7JR				
Name of principal investigator: Dr. B. Gardiner and Dr. D. Crump Telephone No.: 0923-674040				
Descriptive project title:				
Analysis of Volatile Emissions from Polymeric Materials				
Keywords (see attached list):				
emissions, pollution, HCHO, VOC, dust, sources, building ma	iterials, uffi, me	asurement, development		
Project start: 04/1986	(Evisaged) projec	tend: 03/1989		
Estimated man power: 1 M/Y	Estimated cost:			
Institute, address:			a	
South Manchester Health Authority			Ĭ	
Wythenshawe Hospital				
Manchester M23 9LT			b GB 5	
		given the same of the same		
Name of principal investigator. Dr. C. A. C. Pickering		Telephone No. 0619-987070		
Descriptive project title:				
A Study of Air Conditioning Systems and their Effect on Mar	า			
				
Keywords (see attached list):				
SBS, effects, epidemiological, complaint, ACS				
Project start: 08/1985	(Evisaged) projec	t end: 08/1988		
Estimated man power: 2 M/Y	Estimated cost:			
Institute, address:			а	
Welsh School of Architecture (R&D)			a	
UWIST				
20/22 North Road			b GB 6	
Cardiff CF1 3DY				
Name of principal investigator: Dr. P. J. Jones and Prof. P. E. O'Sullivan Telephone No: 0222-42588				
Descriptive project title:				
Ventilation rates in large buildings - Tracer gas and air leakage measurements carried out in 10 factories.				
Keywords (see attached list):				
ventilation, natural, industrial buildings, air movement, measurement				
Project start: 12/1986 (Evisaged) project end: 05/1989				
Estimated man power: 3 M/Y	Estimated cost:	ni manana kanana ka Tanana kanana kanan		

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	Edinburgh EH8 9SU		
		b GB 7	
	Telephone No: 031-6675131		
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(Evisaged) projec	t end: 12/1987		
Estimated cost:			
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		b GB 8	
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Name of principal investigator: 5. Wilson Telephone No: 01-387-3332			
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	Telephone No. 01-387-3332		
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Estimated cost:	t end: 08/1987		
- 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 	t end: 08/1987		
Estimated cost:	t end: 08/1987 Telephone No: 01-636-8636		
		ivisaged) project end: 12/1987	

Institute, address: Department of Occupational Health London School o Hygiene and Tropical Medicine			а	
Keppel St.		•		
London WCIE YHT			b GB 10	
Name of principle investigator: G. W. Crockford Telephone No.: 01-636-8636				
Descriptive project title:				
Indoor Asbestos Levels on a Housing Estate				
Keywords (see attached list):				
pollution, fibres, asbestos, concentrations, residences				
Project start:	(Evisaged) project	t end:		
Estimated man power: 1.5 M/Y	Estimated cost:			
Institute, address:			a	
Department of Occupational Health London School of Hygiene and Tropical Medicine				
Keppel St.			b GB 11	
London WCIE YHT		*	D 95 11	
Name of principle investigator: G. W. Crockford		Telephone No: 01-636-8636		
Descriptive project title:				
Electrostatic Air Filtering of Mixed Pollutant Clouds (Indoor Pollution Control)	Air			
Keywords (see attached list) :				
POM, PM, control, pollutants, electrostatic-filters				
Project start: 10/1987	(Evisaged) project	tend: 10/1990		
Estimated man power: 1.25 M/Y	Estimated cost:			
Institute, address:			а	
Environmental and Medical Sciences Division			3	
B.551, Harwell Laboratory				
<u>Didcot, Oxfordshire OX11 ORA</u>			b GB 12	
Name of principle investigator: D. H. F. Atkins		Telephone No: 0235-24141 Ex	t.4076	
Descriptive project title:				
Development of passive sampling systems for ammonia and sulphur dioxide				
Keywords (see attached list) :				
passive-samplers, development, ammonia, SO_2 , methods, sampling-analysis, pollutants, inorganic				
Project start: /1986 (Evisaged) project end: 1988				
Estimated man power:	Estimated cost:			

Institute, address: Environmental and Medical Sciences Division			a	
B.551, Harwell Laboratory <u>Didcot, Oxfordshire OX11 ORA</u>			b GB 13	
Name of principal investigator: H. F. Atkins	and the second of the second o	Telephone No: 0235-24141 Ex	t.4076	
Descriptive project title: Investigation of indoor-outdoor concentration ratios for nit	trogen dioxide			
Keywords (see attached list): NO ₂ , passive-samplers, indoor-outdoor-concentration-ratio	s, pollution, ino	rganic, NO _X , sampling-analy	/sis	
Project start: /1985	(Evisaged) project	end: /1987	· · · · · · · · · · · · · · · · · · ·	
Estimated man power: 0.5 M/Y	Estimated cost:			
Institute, address: Environmental and Medical Sciences Division B.551, Harwell Laboratory			a	
Didcot, Oxfordshire OX11 ORA			b GB 14	
Name of principal investigator: D. H. F. Atkins		Telephone No: 0235-24141 Ex	t.4076	
Descriptive project title: Investigation of specific complaints concerning indoor air quality on a commercial basis.				
Keywords (see attached list) pollution, climate, complaints, assessment, investigation				
Project start:	(Evisaged) project	tend:		
Estimated man power:	Estimated cost:			
Institute, address: Allergy and Environmental Medicine Department Lister Hospital			а	
Chelsea Bridge Road London SW1			b GB 15	
Name of principal investigator: Dr. J. Monro Telephone No: 01-730-3417				
Descriptive project title: Assembly of data on chemical sensitivity of patients and compilation of assessments.				
Keywords (see attached list): pollution, organic, inorganic, exposure, effects, immune, susceptible-groups, chemical-sensitivity, assessment, database				
Project start: 01/1983	(Evisaged) project	t end: 12/1987		
Estimated man power: 6.5 MY	Estimated cost:			

Institute, address:			a
Institute of Occupational Medicine 8 Roxborough Place			
Edinburgh EH8 9SU			b GB 16
Name of principal investigator: Dr. James H. Vincent	energia en	Telephone No: 031-667 5131	
Descriptive project title:		<u> </u>	
Feasibility of using scale aerodynamic models for ventilation	n studies.		
Keywords (see attached list):			
air movement, ventilation, models			
Project start: ongoing	(Evisaged) projec	t end:	
Estimated man power: 2 MY	Estimated cost:		
Institute, address:			а
Institute of Occupational Medicine 8 Roxborough Place			
Edinburgh EH8 9SU			b GB 17
Name of principal investigator: Mr. A. D. Jones		Telephone No: 031-667 5131	
Descriptive project title:			
Electrostatic charge properties of aerosols			
Keywords (see attached list) :	eti, e tim ene e e e e e e e e e e e e e e e e e e	ayanna aya aya aran aya aya an aya aya aya aya aya aya ay	
measurement, health effects, pollution, PM, charged partic	les		
Project start: ongoing	(Evisaged) projec	t end:	
Estimated man power : 2 M/Y	Estimated cost:		
Institute, address:	y ny pangana ana ang katalan at ana at a I		а
Institute of Occupational Medecine			
8 Roxburgh Place Edinburgh EH8 9SU			b GB 18
Name of principal investigator: Mr. D. Mark		Telephone No: 031-667 5131	
Descriptive project title:	*		,
Development of versatile personal and static samplers			
Keywords (see attached list) :			·
standards, pollution, PM, sampling-analysis, development			
Project start: Ongoing	(Evisaged) projec	tend: 12/1987	ilan, saasaan ta ka ir jiri ayaan gaad qaara ka ga saasaa ir dhira a
Estimated man power: .5 MY	Estimated cost:		<u>a ta an ann an dean an a</u>

Institute, address: Welsh School of Architecture (R&D) UWIST			a	
20/22 North Roas Cardiff CF1 3DY			b GB 19	
Name of principal investigator: Dr. P. J. Jones and Prof. P. E. Sulliv	/an	Telephone No: 0222-42588		
Descriptive project title: Monitoring the Thermal Environment in nine offices as part a 'Sick' Building Study	t of			
Keywords (see attached list): SBS, air movement, measurement, offices				
Project start: 11/1986	(Evisaged) project	tend: 09/1987		
Estimated man power: .25 MY	Estimated cost:			
Institute, address: Imperial College of Science, Technology and Medicine			a	
South Kensington London SW7 2BU			b GB 20	
Name of principal investigator: Prof.R.Perry and Dr.J.N.Lester		Telephone No: 01 589 5111		
Descriptive project title: Air quality in the indoor working environment				
Keywords (see attached list): Pollution, HCHO, NOX, VOC, ETS, biological, concentration	s, variations, ver	ntilation, measurement, offic	es	
Project start: 10/1988	(Evisaged) project	t end: 09/1990		
Estimated man power: 1.75 MY	Estimated cost:	135'000		
Institute, address: Building Research Establishment Burknalls Lane			a	
Garston, Watford WD2 7JR United Kingdom			b GB 21	
Name of principal investigator: Dr. S. S. Wozinak, Mrs.C.Uglow,D	r.P.R.Warren	Telephone No: 0923-674040		
Descriptive project title: Radon in Buildings - Remedial Measures				
Keywords (see attached list): pollution, radon, control, measurement, field trials, models, assessment				
Project start: 04/1987	(Evisaged) project	t end: 03/1989	·	
Estimated man power:	Estimated cost:	,		

Institute, address: Building Research Establishment Scottish Laboratory, Kelvin Road			a	
East Kilbride Glasgow G75 ORZ			b GB 22	
Name of principal investigator: Dr. J. P. Cornish, Dr. A. F. Bravery		Telephone No: 03552-33001		
Descriptive project title: Condensation and Mould Growth				
Keywords (see attached list): climate, condensation, pollution, biological, moulds, assessi	ment			
Project start:	(Evisaged) project	end:		
Estimated man power:	Estimated cost:			
Institute, address: Building Research Establishment Burknalls Lane			a	
Garston, Watford WD2 7JR United Kingdom			b GB 23	
Name of principal investigator: Dr. P. R. Warren Telephone No: 0923-674040				
Descriptive project title: Indoor Air Quality and Ventilation Requirements				
Keywords (see attached list): ventilation, standards, effects, risk groups				
Project start: 04/1985	(Evisaged) projec	t end: 03/1989	· · · · · · · · · · · · · · · · · · ·	
Estimated man power:	Estimated cost:			
Institute, address: Building Use Studies 14-16 Stephenson Way			а	
Euston London NW1 2HD			b GB 24	
Name of principal investigator: Adrian Leman and David Tong		Telephone No: 01-387 3332		
Descriptive project title: Sick Building Syndrome: Individual and organisational aspects				
Keywords (see attached list): SBS, risk groups				
Project start: 03/1988	(Evisaged) project	end: 09/1988		
Estimated man power: 1 MY	Estimated cost:			

Institute, address: Department of Community Medicine United Medical and Dental Schools Social Medicine and Health Services			a	
Research Unit and Division of Community Health St. Thomas' Campus, London SE1 7EH			b GB 25	
Name of principal investigator: Dr. Jane Melia		Telephone No: 01-928 9292 E)	ct 3150	
Descriptive project title: Investigation of indoor NO_2 levels in inner city homes with cookers and paraffin heaters	gas			
Keywords (see attached list): NO _X , concentrations, exposure, pollution, field-measureme children, gas-cookers, paraffin-heaters	nts, combustion	, residences,		
Project start: /1988	(Evisaged) project	end: /1988		
Estimated man power: 1 MY	Estimated cost:			
Institute, address: Welsh School of Architecture (R&D) UWIST			a	
PO Box 25 Cardiff CF1 3XE			b GB 26	
Name of principal investigator: Dr. P. J. Jones		Telephone No: 0222-42588		
Descriptive project title: Investigation on heating system options for low energy factories Study of heat delivery and distribution for radiant and convective systems				
Keywords (see attached list): industrial-buildings, measurement, comfort, air-movement	, climate			
Project start: 11/1986	(Evisaged) project	end: 09/1987		
Estimated man power: .25 MY	Estimated cost:		·	
Institute, address: McCrone Research Associates Ltd. 2 McCrone Mews, Belsize Lane			a	
London NW3 5BG			b GB 27	
Name of principal investigator: Miss J. Prentice		Telephone No: 01-435-2282/3		
Descriptive project title: Investigations into the effectiveness of asbestos management and removal programmes in buildings				
Keywords (see attached list): control, buildings, fibres, field-measurements, exposure, asbestos, pollutants, assessment, concentrations, methods				
Project start: 10/1986	(Evisaged) project	end: 03/1988	•	
Estimated man power: 1 MY	Estimated cost: £	43,000		

Institute, address: McCrone Research Associates Ltd.	,		·a	
2 McCrone Mews, Belsize Lane London NW3 5BG		-	b GB 28	
Name of principal investigator: Miss J. Prentice		Telephone No: 01-435-2282/3		
Descriptive project title:		terre i de la companya de la company La companya de la co		
Man made mineral fibres in the environment				
Keywords (see attached list):				
pollution, fibres, measurement, buildings, exposure				
Project start: 05/1988	(Evisaged) project	tend: 11/1989		
Estimated man power: 1.5 MY	Estimated cost: £	61,500		
Institute, address:	s		a	
London School of Hygiene and Tropical Medicine				
Keppel Street London WCIE 7HT			b GB 29	
Name of principal investigator: Mr. C. Purnell	······································	Telephone No: 01-636-8636		
Descriptive project title:				
Investigation of the effectiveness of asbestos management programmes in buildings	and removal		:	
Keywords (see attached list): asbestos, control, buildings, fibres, field-measurements, me concentrations, pollutants	thods, assessme	ent,		
Project start: 11/1986	(Evisaged) projec	t end: 03/1988		
Estimated man power: 1 MY	Estimated cost: f	38,000		
Institute, address:			а	
Building Research Establishment Bucknalls Lane				
Garston, Watford WD2 7JR			b GB 30	
United Kingdom			ט מט ט	
Name of principal investigator: Dr. G. Raw, Dr. P. R. Warren	· · · · · · · · · · · · · · · · · · ·	Telephone No: 0923-894040		
Descriptive project title:	1	,		
Sick Building Syndrome - Pilot Study				
Keywords (see attached list):			· · · · · · · · · · · · · · · · · · ·	
SBS, buildings, offices, control, methods				
Project start: 01/1988	(Evisaged) project	t end: 10/1989		
Estimated man power:	Estimated cost:			

Institute, address: Building Research Establishment			а	
Bucknalls Lane <u>Garston, Watford WD2 7JR</u> United Kingdom			b GB 31	<u> </u>
Name of principal investigator: Dr. P. R. Warren	······································	Telephone No: 0923-894040		
Descriptive project title:				-
Indoor Air Movement				
Keywords (see attached list):				
air movement, models, ventilation				
Project start: 04/1989	(Evisaged) project	t end: 03/1992		
Estimated man power:	Estimated cost:			
Institute, address:			а	
The Occupational Medicine & Hygiene Laboratories		·		
403 Edgware Rd. London NW2 6LN		·	b GB 3	2
Name of principal investigator: Dr. A. P. Rood		Telephone No: 01 - 450 8911		
Descriptive project title:				
Asbestos in the non-occupational environment				
Keywords (see attached list):				
pollution, fibres, asbestos, schools, exposure, susceptible-gr	oups, children			
Project start: /1980	(Evisaged) projec	tend: /1992		
Estimated man power: 12 MY	Estimated cost: 1	500,000		
Institute, address:			а	
Institute of Occupational Medicine				
8 Roxburgh Place Edinburgh EH8 9SU			b GB 3:	3
				,
Name of principal investigator: Dr. R. Love		Telephone No:		
Descriptive project title:				
Respiratory symptoms and lung function effects of exposure	e to wool textile	e dust		
Keywords (see attached list): standards, pollution, PM, concentrations, exposure, epidemiological-study, effects, lung-function				
Project start: 08/1985	(Evisaged) projec	t end: 07/1988		
Estimated man power: 9 MY	Estimated cost: 1	£180,000		

			the state of the s	
Institute, address: Institute of Occupational Medicine			a	
8 Roxburgh Place				
Edinburgh EH8 9SU			b GB 34	
Name of principal investigator: M. J. Cherrie		Telephone No: 031-667 5131		
Descriptive project title:				
Assessment of airborne man-made mineral fibres in domest	ic houses			
Keywords (see attached list):				
concentrations, pollution, fibres, MMMF, residences, assess	ment			
Project start: 06/1987	(Evisaged) project	tend: 12/1987		
Estimated man power:	Estimated cost: 1	35,000		
Institute, address:			a	
Institute of Occupational Medicine				
8 Roxburgh Place			h coar	
Edinburgh EH8 9SU			b GB 35	
Name of principal investigator: M. A. Bradley		Telephone No: 031-667 5131		
Descriptive project title:				
Assessment of airborne asbestos fibres in domestic houses a	nd offices			
Keywords (see attached list):				
fibres, buildings, concentrations, pollution, asbestos, reside	nces, offices, as	sessment		
Project start: on going	(Evisaged) projec	t end:		
Estimated man power: 1 M/Y	Estimated cost:			
Institute, address:			а	
Institute of Occupational Medicine			-	
8 Roxburgh Place				
Edinburgh EH8 9SU			b GB 36	
A. I. Charles				
Name of principal investigator: M J. Cherrie		Telephone No: 031-667 5131	and the state of 	
Descriptive project title:	,			
Solvent concentrations in offices				
Keywords (see attached list):				
solvents, offices, concentrations, pollutants, field measurements, VOC				
Project start: ongoing	(Evisaged) project	t end:		
Estimated man power: 0.5 MY	Estimated cost		Maragonya aribumanya an a ya a u manipatanja inaya	

			ومستوب والمستون والمراجعات	
Institute, address:			a	
Institute of Occupational Medicine				
8 Roxburgh Place Edinburgh EH8 9SU			b GB 37	
<u>Lamburgh Erio 330</u>			5 6 5 5.	
Name of principal investigator: Dr. A. Robertson		Telephone No: 031-667 5131		
Descriptive project title:				
Formaldehyde in temporary buildings				
Keywords (see attached list) :				
pollution, HCHO, temporary-buildings				
Project start: ongoing	(Evisaged) project	end:		
Estimated man power: 0.5 M/Y	Estimated cost:			
Institute, address:			a	
Institute of Occupational Medicine				
8 Roxburgh Place			L co >>	
Edinburgh EH8 95U			b GB 38	
Name of principal investigator: Dr. A. Robertson		Telephone No: 031-667 5131		
Descriptive project title:	:			
Gases and vapours related to health effects in offices				
dases and vapodis related to health effects in offices				
Keywords (see attached list):				
pollutants, organic, inorganic, VOC, gases, vapours, effects,	offices			
Project start: ongoing	(Evisaged) project	t end:	Aleman dagan bagan pada an ang ang ang ang ang ang ang ang ang	
Estimated man power:	Estimated cost:			
Institute, address:			a	
Institute of Occupational Medicine				
8 Roxburgh Place				
Edinburgh EH8 9SU			b GB 39	
Name of principal investigator: Dr. A. Robertson		Telephone No: 031-667 5131		
Descriptive project title:	 			
Aspergillus fumigatus in the asthmatic airway.				
Insecticides in homes, environmental levels and biological n	nonitoring			
Keywords (see attached list):				
insecticides, biological-monitoring, pollutants, biocides, fungi, concentrations, biological				
Project start: 09/1987 (Evisaged) project end: 09/1990				
Estimated man power: 1.5 MY	Estimated cost:	mannaya mendagan ayaliya aya ayinan ayin manan iya menan aya manan ayan magaa aya a		
والمراقب				

Institute, address:			а
Institute of Occupational Medicine 8 Roxburgh Place			
Edinburgh EH8 9SU			b GB 40
Name of principal investigator: Dr. Donaldson (K)		Telephone No: 031-667 5131	
Descriptive project title:		<u> Andrewski – Andrewski Andrewski andrewski andrewski andrewski andrewski andrewski andrewski andrewski andrews</u>	· j. · · · · · · · · · · · · · · · · · ·
Leucocyte-mediated injuries in ozone-exposed lungs			
Keywords (see attached list):			•
ozone, pollutants, inorganic, exposure, effects, lung			
Project start: 08/1987	(Evisaged) project	end: 078/1990	
Estimated man power: 1.52 M/Y	Estimated cost: £	128,000	
Institute, address:			а
Institute of Occupational Medicine			
8 Roxburgh Place Edinburgh EH8 9SU	•		b GB 41
			D GB 41
Name of principal investigator: Dr. A.Robertson		Telephone No: 031-667 5131	
Descriptive project title:			
Aspergillus fumigatus in the asthmatic airway			
Keywords (see attached list) :			
asthmatic,airway, effects			
Project start: 09/1987	(Evisaged) project	end: 09/1990	
Estimated man power: 1.5 M/Y	Estimated cost:	•	A
Institute, address:			a
			_
			b
Name of principal investigator:		Telephone No:	
Descriptive project title:	<u> </u>	and a few five and a few and a second and a few and a f	
Keywords (see attached list) :		and the same that the same the same of the same that the same the same that the same the same the same the same	
ney words (see accached hist).			
Project start:	(Evisaged) project	end:	
Estimated man power:	Estimated cost:		e estantiamente de la companya de l Companya de la companya de la compa
			The state of the s

Institute, address:	a		
Nuclear Physics Laboratory			
University of Thessaloniki GR-54006 Thessaloniki			
Greece			b GR 1
Name of principal investigator Prof. Constantin Papastefanou		Telephone No: 30-31-991455	
Descriptive project title			
Radon in dwellings as a function of the radioactivity of building materials and other parameters.			
Keywords (see attached list) :			
pollution, radon, building materials, risk, assessment			
Project start: 07/1988	(Evisaged) projec	t end: 06/1991	
Estimated man power: 12 M/Y	Estimated cost:	ORA 20,000,000	
Institute, address:		a da di la colonia de la colo	a
Institute of Nuclear Technology - Radiation Protection			•
NCRPS "Democritos", Aghia Paraskevi Attikis Athens			
Greece			b GR 2
			<u></u>
Name of principal investigator: Dr. Panusiotis Kritidis		Telephone No: 01-6517306	<u> </u>
Descriptive project title:		•	
Investigation of enhanced natural and artificial environme activity in Greece	ntal radio-		
Keywords (see attached list):			
pollution, radon, radioactivity, field measurements, assessn	nent		
Project start: /1985	(Evisaged) projec	tend: /1989	
Estimated man power: 4 M/Y	Estimated cost:		
Institute, address:			а.
Aristoteles University of Thessaloniki			a .
Division of Hydraulics and Environmental Engineering			
School of Technology			b GR 3
GR - 54006 Thessaloniki			
Name of principal investigator: Assis. Prof. E. Papachristou		Telephone No: 31-992728	
Descriptive project title:			
Determination of formaldehyde in indoor places			
Keywords (see attached list) :	, , , , , , , , , , , , , , , , , , , 		
pollution, HCHO, field measurements, sources, exposure			
Project start: 06/1988	(Evisaged) projec	t end: 07/1989	
Estimated man power: 8 MY	Estimated cost:	DRA 2,400,000	

Institute, address.			а	
The National Hellenic Research Foundation				
48 Vassilos Constantinou Ave,			b GR 4	
<u>GR - 11635 Athens</u>			D GK 4	
Name of principal investigator: Dr. Chem. Wanna Pandi-Agatokli		Telephone No:		
Descriptive project title:				
Determination of asbestos in indoor air and in biofluids of habitants.				
Keywords (see attached list)				
pollutants, fibres, asbestos, exposure, field measurements, b	oiological moni	toring		
Project start: 01/1988	(Evisaged) project	tend: 12/1990		
Estimated man power: 2 MY	Estimated cost:			
Institute, address:			а	
Laboratory of Analytical Chemistry			u	
University of Athens				
104 Solonos str. GR - 10680 Athens		a a	b GR 5	
dit-10000 Atriens				
Name of principal investigator: Prof. P. A. Siskos		Telephone No: 1-3613869		
Descriptive project title:				
Determination of toxic compounds in air of chemical labora	itories			
and in biological samples of working staff.				
Keywords (see attached list)		, , , , , , , , , , , , , , , , , , ,		
pollutants, VOC, metals, bioaccumulation, variations, expos	sure, biological	monitoring		
Project start: 11/1984	(Evisaged) projec	tend: 07/1987		
Estimated man power: 4 MY	Estimated cost: [DRA 3,000,000		
Institute, address:			а	
Department of Community Dentistry			ď	
School of Health Sciences University of Athens				
2 Thivon str.			b GR 6	
<u>GR - 11527 Athens</u>				
Name of principal investigator: Prof. A. X. Apostolopoylos	yaken mengana pangalah mengalah mend	Telephone No: 1-7706036	lagada, e promo irralamana ya izalama	
Descriptive project title:		. In the second second	ka anda di manyon yang ang ang ang ang ang an	
Determination of mercury levels in the atmosphere of work	place			
and the biological samples of dental practitionisers				
Keywords (see attached list) :				
pollution, measurement of mercury, exposure, effects, risk groups, variations				
Project start: 07/1986	(Evisaged) projec	t end: 06/1988		
Estimated man power: 4 MY	Estimated cost: [DRA 3,000,000		

Institute, address: University of Thessaloniki			а	
Department of Chemistry				
Environmental Pollution Control Laboratory			b GR7	
GR - 54006 Thessaloniki				
Name of principal investigator: Prof. Th. Kouimtzis		Telephone No: 31-991483		
Descriptive project title: Indoor air quality in the area of Thessaloniki				
Keywords (see attached list) :	· · · · · · · · · · · · · · · · · · ·	<u> </u>		
pollution, metals, heavy metals, chlorinated HC, concentrat	ions, field meas	urementas		
Project start: 09/1988	(Evisaged) project	t end: 03/1990		
Estimated man power . 4 MY	Lstimated cost: D	RA 3,000,000		
Institute, address:			а	
	-		·	
			b	
		<u> </u>		
Name of principal investigator:		Telephone No:		
Descriptive project title:				
Keywords (see attached list) :				
Project start:	(Evisaged) project	t end:		
Estimated man power:	Estimated cost:			
Institute, address:			_	
,		,	a	
			b	
	*	,		
Name of principal investigator:		Telephone No:		
Descriptive project title:				
Keywords (see attached list) :				
Project start:	(Evisaged) project	t end:	er i jan en er en	
Estimated man power:	Estimated cost:	aga ara-ara-ara-ara-ara-ara-ara-ara-ara-ar		

Institute, address: Physics Department			a
University College Dublin Dublin 4			h IDI 1
Ireland			b IRL 1
Name of principal investigator: J. P. McLaughlin	:	Telephone No: 01-693244	
Descriptive project title:			
Assessment of the population dose indoors from natural rac with particular emphasis on radon daughter properties and		d	
Keywords (see attached list):			
pollution, radon, exposure, dose, general-population, asses	sment		
Project start: 07/1985	(Evisaged) project	tend: 12/1989	
Estimated man power: 9 MY	Estimated cost:		
Institute, address: EOLAS The Irish Science & Technology Agency			a
Glasnevin			b IRL 2
<u>Dublin 9</u> Ireland			U IKL 2
Name of principal investigator: P. A. Wright Telephone No: 353 1 370101			
Descriptive project title:	· · · · · · · · · · · · · · · · · · ·	Provident di grande di compressione de la compressione de la compressione de la compressione de la compressione de	, , , , , , , , , , , , , , , , , , ,
Investigation of complaints by the occupants of a multistorion open plan office block in relation to air quality/comfort con			
Keywords (see attached list): complaint, buildings, office, investigation			
	1 : 		
Project start: 02/1986	(Evisaged) projec	t end: 06/1988	
Estimated man power: 0.5 MY	Estimated cost:		
Institute, address:			а
u.			t.
			b
Name of principal investigator:		Telephone No:	
Descriptive project title:	•	de per la colonia de la colo	
Keywords (see attached list):			
Project start:	(Evisaged) projec	t end:	
Estimated man power:	Estimated cost:		

Institute, address: CISE-Tecnologie Innovative Spa			а
PO Box 12081 I - 20134 Milano			b i 1
Name of principal investigator: Roberto Ferraroli		Telephone No: 02-21672503	
Descriptive project title: Pollutant emissions from natural gas combustion sources in	dwellings		,
Keywords (see attached list): source, combustion, emissions, field-measurement, HCHO, N	√0x, VOC, SVO	C, dwellings, pollutants	
Project start: 03/1987	(Evisaged) project	t end: 12/1989	
Estimated man power: 2 M/Y	Estimated cost:		
Institute, address:			а
Instituto di Medicina del Lavoro Universita di Verona			
Policlinico Borgo Roma <u>I - 37134 Verona</u>			b 12
Name of principal investigator: Francesco Brugnone Telephone No: 045-933295/50			34456
Descriptive project title:		· · · · · · · · · · · · · · · · · · ·	
Industrial solvents in indoor air			
Keywords (see attached list):			
pollutants, VOC, solvents, concentrations			
Project start:	(Evisaged) project	t end:	
Estimated man power:	Estimated cost:		
Institute, address:			а
Instituto di Medicina del Lavoro Universita di Verona			
Policlinico Borgo Roma <u>I - 37134 Verona</u>			b 13
Name of principal investigator: Francesco Brugnone and Luigi Per	bellini	Telephone No: 045-933295/58	34456
Descriptive project title:			
Industrial solvents in human biological materials (Breath, blood, urine and fat tissue)			
Keywords (see attached list) :			
pollutants, VOC, solvents, biological-monitoring			
Project start (Evisaged) project end:			
Estimated man power: Estimated cost:			

Institute, address: Instituto Superiore di Sanita			a
Viale Regina Elena, 299 I - 00161 Roma			b 14
Name of principal investigator. Prof. G. Campos Venuti	o conference and a specific consequence and a	Telephone No: 06-4990 Ext 22	29
Descriptive project title: A regional indoor radon research to test the methodology for a national survey			
Keywords (see attached list) · pollution, radon, concentrations, field-measurements, methods	nods, assessmen	t	
Project start: 01/1982	(Evisaged) project	end: 12/1987	
Estimated man power: 10 M/Y	Estimated cost:		
Institute, address: Instituto Superiore di Sanita ENEA-DISP Viale Regina Elena, 299 Via Vitaliano Brancati,48		a	
1-00161 Roma		b 15	
Name of principal investigator Prof. G.Campos Venuti and S.Piermattei Telephone No: 06-4990 Ext 22			9
Descriptive project title Organisation and development of a national survey to evaluate the average effective dose equivalent due to radon indoors			
Keywords (see attached list) pollution, radon, exposure, dose, assessment, development			
Project start: 06/1987	(Evisaged) project	tend: 12/1990	
Estimated man power	Estimated cost:	tena. 12/1990	and and the second second
	Estimated cost.		
Institute, address: Institute of Occupational Health			a
University of Milano	•		
Via S.Barnaba 8 <u>I - 20122 Milano</u>		b 16	
Name of principal investigator. Dr. Cesare Nava Telephone No: 02-55181729			
Descriptive project title: Epidemiological and clinical study of skin disorders induced by household products in housewifes (multicentric study in northern and southern Italy)			
Keywords (see attached list)			
effects, epidemiological-study, household-products			
Project start: /1987	(Evisaged) project	end: /1989	
Estimated man power: Estimated cost:			

		· · · · · · · · · · · · · · · · · · ·	
Institute, address Institute of Occupational Health			а
University of Milano Via S.Barnaba 8 I - 20122 Milano			b 17
Name of principal investigator: Prof. Mario Patroni	,	Telephone No: 02-55181729	
Descriptive project title: Assessment of human exposure to asbestos in public buildings and subway stations			
Keywords (see attached list): exposure, fibres, buildings			
Project start: /1987	(Evisaged) project	tend: /1989	·
Estimated man power :	Estimated cost:		
Institute, address: Institute of Occupational Health		a	
University of Milano Via S.Barnaba 8 <u>I - 20122 Milano</u>			b 18
Name of principal investigator: Prof. Marco Maroni Telephone No: 02-55181729			
Descriptive project title: Characterization of biological pollutants in offices and community buildings with non-natural ventilation			
Keywords (see attached list): biological pollutants, offices, buildings, ventilation			
Project start: /1988	(Evisaged) projec	t end:	
Estimated man power :	Estimated cost:		
Institute, address: Cattedra di Tecnologia dell'Architettura Universita degli Studi di Reggio Calabria			а
Via Diana 4 I - 89100 Reggio Calabria			b 19
Name of principal investigator: Prof. Adriana Baglioni Telephone No: 0965-21158			America approximate a plane principal approximate a pr
Descriptive project title: Assessment of pollution sources in buildings and identification of preventive strategies in the building design and in the choice of building materials			
Keywords (see attached list): sources, building-materials			
Project start: /1988 (Evisaged) project end: /1990			
Estimated man power: Estimated cost:		دور در در	

Institute, address: Dipartimento di programmazione, progettazione e produzione edilizia			а
Politecnico di Milano - Facoltà di Architettura Via Bonardi 3 <u>I - 20133 Milano</u>			b 10
Name of principal investigator: Prof. Guido Nardi		Telephone No: 02-2364345	
Descriptive project title:			
Energy saving and indoor pollution: assessment of the probletypologies and identification of remedies with social and economics.			
Keywords (see attached list) :			
Project start: /1988	(Evisaged) project	t end: /1991	
Estimated man power :	Estimated cost:		
Institute, address:			a
Instituto Superiore di Sanita			
Viale Regina Elena <u>I - 00161 Roma</u>			b 11
Name of principal investigator: Prof. G. Campos Venuti	and the second 	Telephone No: 06-4990	· · · · · · · · · · · · · · · · · · ·
Descriptive project title: Assessment of human exposure to radon in selected areas of central Italy characterized by extensive use of tufa as a building material			
Keywords (see attached list): pollution, human exposure, radon, building-materials			
Project start: /1987	(Evisaged) projec	tend: /1990	· · · · · · · · · · · · · · · · · · ·
Estimated man power :	Estimated cost:		
Institute, address			a
Osservatorio Epidemiologico della Regione Lazio Via di S.Costanza 53			
Via di S. Costanza 53 <u>I - 00198 Roma</u>		•	b 1 12
,			`
Name of principal investigator: Dr. F. Forastiere		Telephone No: 06-8322315	
Descriptive project title:		•	
Respiratory functions and air pollution in children: cross sectional study in three areas with different outdoor and indoor pollution levels			
Keywords (see attached list):			
effects, respiratory, children			
Project start: /1986 (Evisaged) project end: /1989			
Estimated man power: Estimated cost:			

Institute, address: Groep Beleidsstudies en Informatie TNO, Studie- en Informatiecentrum voor Mileu-Onderzoek			â
Schoemakerstr. 97 2600 AD Delft			b NL 1
Name of principal investigator: R. W. Keulen		Telephone No: 015-696900	
Descriptive project title: Sick Building Syndrome		-	
Keywords (see attached list) : SBS			
Project start: /1986	(Evisaged) project	tend: /1987	
Estimated man power:	Estimated cost:		
Institute, address: Nederlandse Organisatie voor Toegepast Natuurweten- schappelijk Onderzoek TNO, Hoofdgroep Maatschappelijke		a	
Technologie. Postbus 217 2600 AE Delft			b NL 2
Name of principal investigator: H. Rolloos, B. Boesmans		Telephone No: 015-696900	
Descriptive project title: Indoor environment quality in dwelling and working circumstances: safety in working circumstances			
Keywords (see attached list) :			
Project start: 01/1987	(Evisaged) project	t end: 12/1992	
Estimated man power:	Estimated cost:		
Institute, address: Hoofdgroep Maatschappelijke Technologie TNO Afdeling Binnenmilieu			a
Postbus 217 2600 AE Delft			b NL3
Name of principal investigator: M. Rolloos		Telephone No: 015-696900	
Descriptive project title: Development of measurement techniques for indoor air quality			
Keywords (see attached list): development, evaluation, validation, techniques, measurement			
Project start: 01/1987	(Evisaged) project	t end: /1992	
Estimated man power:	Estimated cost:		

			
Institute, address: Hoofdgroep Maatschappelijke Technologie TNO			a
Afdeling Binnenmilieu Postbus 217 2600 AE Delft			b NL 4
Name of principal investigator: W. M. ter Kuile	, and the control of the control of	Telephone No: 015-696900	
Descriptive project title:	· · · · · · · · · · · · · · · · · · ·	 	<u>, i i angli ang mga mga mga ang at ang at Arabi ma</u>
Detection of aero allergens			
Keywords (see attached list):			:
measurement, evaluation, exposure, pollutants, biological,	allergens		
Project start: 07/1986	(Evisaged) project	tend: /1989	
Estimated man power:	Estimated cost:		
Institute, address:			a
Hoofdgroep Maatschappelijke Technologie TNO Afdeling Rippenmilieu			
Afdeling Binnenmilieu Postbus 217			b NL 5
2600 AE Delft			- INE 3
Name of principal investigator: J. F. van der Wal, M. Dubbeld Telephone No: 015-696900			
Descriptive project title:	,		
Indoor air quality			
Keywords (see attached list): exposure, control, sources, SBS			
	\[\(\tau_{-} \)	A / 1000	
Project start: /1987	(Evisaged) projec	τ ena: / ۱992	·
Etimated man power:	Estimated cost:		
Institute, address:			а
Hoofdgroep Maatschappelijke Technologie TNO Afdeling Binnenmilieu			·
Postbus 217			b NL 6
2600 AE Delft			₩ ME U
Name of principal investigator: M. Dubbeld		Telephone No: 015-696900	
Descriptive project title:	 		., ., ye jimiye , ., eenad aaaaa, e, d, . jaqaaqaaa
Behaviour of occupants and comfort valuation			
Keywords (see attached list) :	,,	en e	
climate, ventilation, effects, comfort, evaluation			
Project start: 04/1985	(Evisaged) project	t end: 12/1989	anaga, daga mangadag jaga manga gaga a
Estimated man power:	Estimated cost:		

			فيحور والمراجع والمراجع والمراجع والمراجع
Institute, address: Hoofdgroep Maatschappelijke Technologie TNO Afdeling Binnenmilieu			а
Postbus 217 2600 AE Delft			b NL7
Name of principal investigator: J. F. van der Wal		Telephone No: 015-696900	
Descriptive project title:	***************************************		
Discoloration of surfaces in houses	·		
Keywords (see attached list): effects, building-materials, building-equipment			
Project start: /1987	(Evisaged) project	end: /1988	and the state of t
Estimated man power:	Estimated cost:		ya a a ,
Institute, address: Hoofdgroep Maatschappelijke Technologie TNO Afdeling Binnenmilieu			a
Postbus 217 2600 AE Delft			b NL8
Name of principal investigator: W. F. de Gids Telephone No: 015-696900			
Descriptive project title: Moisture and mould problems in houses			
Keywords (see attached list) : models, control, pollution, biological, moulds, climate, moi	sture		
Project start: 03/1986	(Evisaged) project	end: /1989	
Estimated man power:	Estimated cost:		
Institute, address: Hoofdgroep Maatschappelijke Technologie TNO Afdeling Binnenmilieu			a
Postbus 217 2600 AE Delft			b NL 9
Name of principal investigator: W.F. de Gids Telephone No: 015-696900		Telephone No: 015-696900	
Descriptive project title: Development of a moisture/ventilation model			
Keywords (see attached list) ventilation, models, air-movement, development, climate, moisture			
Project start: 01/1987	(Evisaged) project	end: /1989	
Estimated man power:	Estimated cost:		

Institute, address: Hoofdgroep Maatschappelijke Technologie TNO Afdeling Binnenmilieu			a
Postbus 217 2600 AE Delft			b NL 10
Name of principal investigator: R. W. Lanting		Telephone No: 015-696900	digasego de el manoj estas menos selembros i como
Descriptive project title:		 	
Models for indoor air quality			
Keywords (see attached list): models			
Project start: 03/1986	(Evisaged) project	t end:	der fenste og på energerete og
Estimated man power:	Estimated cost:		ent, judge y grit som i som yns
Institute, address:			
Hoofdgroep Maatschappelijke Technologie TNO			a
Afdeling Binnenmilieu			
Postbus 217 2600 AE Delft			b NL 11
		<u></u>	
Name of principal investigator: B. Knoll		Telephone No: 015-696900	
Descriptive project title:			
Prototype of a self-regulating ventilation system			
Keywords (see attached list) :	· · · · · · · · · · · · · · · · · · ·	 	
Control, ventilation			
Project start: 02/1987	(Evisaged) project	t end: /1989	erica en di amorpo que incorpi pareci y a superport
Estimated man power:	Estimated cost:		
Institute, address:			а
Landbouwuniversiteit Wageningen, vakgroep Toxicologie			
De dreijen 12			b NL 12
6703 BC Wageningen			b NL 12
Name of principal investigator: J. J. van Houdt	The state of the s	Telephone No: 08370-82137	
Descriptive project title:	· · · · · · · · · · · · · · · · · · ·	tana ay ana at ay an ay an ay an	and the control of t
Mutagenicity of Indoor Air	ø.	-	
Keywords (see attached list) :	<u> </u>	ija sa maja mahan ing mang apang apang at manging manging mang apang apang at manging mang at mang apang apang	
pollution, effects, mutagenicity			
Project start: 01/1984	(Evisaged) project	end: 07/1987	
Estimated man power:	Estimated cost:		and the second s

Institute, address: Hoofdgroep Maatschappelijke Technologie TNO Afdeling Binnenmilieu			a	
Postbus 217 2600 AE Delft			b NL 13	
Name of principal investigator: W.F. de Gids		Telephone No: 015-696900		
Descriptive project title: Behaviour of occupants on ventilation houses				
Keywords (see attached list) : ventilation, data base				
Project start: 03/1986	(Evisaged) projec	t end: 12/1989		
Estimated man power:	Estimated cost:			
Institute, address: University of Wageningen Department of Air Pollution			а	
P.O.Box 8129 NL - 6700 EV Wageningen			b NL 14	
Name of principal investigator: J. S. M. Boleij Telephone No. 08370-82684				
Descriptive project title: Biomass burning and indoor air quality in developing countries				
Keywords (see attached list): exposure, developing countries, respiratory effects, sources	, combustion			
Project start: /1986	(Evisaged) projec	t end: /1990		
Estimated man power: .3 M/Y	Estimated cost: [OFI 200,000/yr		
Institute, address. University of Wageningen Department of Environmental Health and Air Pollution			a	
P.O.Box 238 NL - 6700 AE Wageningen			b NL 15	
Name of principal investigator: J. S. M. Boleij and B. Brunekreef		Telephone No: 08370-82684 /	82080	
Descriptive project title: Health complaints in the office environment				
Keywords (see attached list): complaints, SBS				
Project start: /1988	(Evisaged) projec	tend: /1993		
Estimated man power: 2 M/Y	Estimated cost: [ofl. 200,000/yr (manpower n	ot included)	

Institute, address: University of Wageningen Department of Environmental Health and Air Pollution			a
P.O.Box 238 NL - 6700 AE Wageningen		· · · · · · · · · · · · · · · · · · ·	b NL 16
Name of principal investigator: B. Brunekreef and J. S. M. Boleij	:	Telephone No: 8370-82080 / 8	2684
Descriptive project title: Health effects associated with home dampness			
Keywords (see attached list): respiratory effects, homes, biological, climate, moisture			
Project start: /1988	(Evisaged) project	tend: /1993	
Estimated man power: 1 M/Y	Estimated cost: [ofl. 100,000/yr (manpower no	ot included)
Institute, address: Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek TNO, Hoofdgroep Maatschappelijk	e		а
Technologie, Postbus 217 <u>2600 AE Delft</u>			b NL 17
Name of principal investigator: J. G. Wiebenga		Telephone No: 015-696900	
Descriptive project title: Construction Materials			
Keywords (see attached list) : building materials			
Project start: 01/1987	(Evisaged) project	t end: 07/1987	
Estimated man power:	Estimated cost:		
Institute, address: Gemeente Amsterdam, Gemeentelijke Geneeskundige en Gezondheids Dienst, Sector Volksgezondheid en Milieu			a
Nieuwe Achtergracht 100 NL - 1018 WT Amsterdam			b NL 18
Name of principal investigator: T. Fast	······································	Telephone No: 020-555588	
Descriptive project title: The relation between health complaints and indoor air quality			
Keywords (see attached list): complaint study, exposure, sources, climate, ventilation, yellowing, VOC, biological pollution, combustion			
Project start: /1988	(Evisaged) project	t end:	
Estimated man power: 1 M/Y	Estimated cost:		**: **********************************

Institute, address: Gemeente Amsterdam, Gemeentelijke Geneeskundige en Gezondheids Dienst, Sector Volksgezondheid en Milieu Nieuwe Achtergracht 100 NL - 1018 WT Amsterdam			a b NL 19	
Name of principal investigator: A. Verhoeff Telephone No: 020-5555584				
Descriptive project title: Residential indoor air contamination by screen printing plan	nts			
Keywords (see attached list) : pollution, VOC, solvents, sources, external, screen printing p	lants, health, ri	sk, assessment		
Project start: 09/1985	(Evisaged) project	end: 03/1987		
Estimated man power: 0.5 M/Y	Estimated cost: D	fl 60,000		
Institute, address: Gemeente Amsterdam, Gemeentelijke Geneeskundige en Gezondheids Dienst, Sector Volksgezondheid en Milieu			a	
Nieuwe Achtergracht 100 NL - 1018 WT Amsterdam			b NL 20	
Name of principal investigator: A. Verhoeff Telephone No: 020-5555584				
Descriptive project title: Enumeration and identification of airborne viable mould propagates in houses. A comparison of selected measurement techniques				
Keywords (see attached list): pollution, biological, moulds, methods, sampling technique	s, evaluation, va	alidation		
Project start: 10/1986	(Evisaged) project	end: 05/1988		
Estimated man power: 1 M/Y	Estimated cost: D	ofl 100,000		
Institute, address: TNO Institute of Preventive Health Care (NIPG-TNO) P.O.Box 124			a	
NL - 2300 AC Leiden			b NL 21	
Name of principal investigator: R. G. de Jong and J. E. F. van Dongen Telephone No: 071-178811				
Descriptive project title: Survey on health aspects and quality in the indoor environment				
Keywords (see attached list): pollution, exposure, sources, complaints, effects, epidemiological study, toxicological, residences				
Project start: 05/1987	(Evisaged) project	end: 11/1988		
Estimated man power: 1 MY	Estimated cost:			

Institute, address:			а	
TNO Institute of Preventive Health Care (NIPG-TNO) P.O.Box 124				
NL - 2300 AC Leiden			b NL 22	
TIE TAXA US COINCII			- 14L &&	
Name of principal investigator: J. E. F. van Dongen Telephone No: 071-178811				
Descriptive project title:				
Inhabitant's behaviour and experiences on indoor air qualit	y, heating and v	ventilation		
Keywords (see attached list) :			:	
residences, climate, ventilation, measurement, complaint, e	valuation			
Project start: /1983	(Evisaged) project	tend: /1989		
Estimated man power:	Estimated cost:			
Institute, address:			а	
Interuniversity Working Group " Home & Health"			-	
State University Utrecht / Technological University Eindhov	en			
Catharijnesingel 101			b NL 23	
NL - 3511 GV Utrecht				
Name of principal investigator: J. Vorenkamp and J. E. M. H. van Bronswijk Telephone No: 030-372830				
Descriptive project title:				
Management of biotic damage to buildings and human hea	ilth			
Keywords (see attached list) strategies, standards, biological pollution, exposure, clima models, measurement, residences, SBS, effects, allergy, in				
Project start: 03/1988	(Evisaged) project	t end: 03/1992		
Estimated man power: 7 MY	Estimated cost:	·		
Institute, address:			a	
Technisch Physische Dienst TNO-TH		·	ľ	
TNO Institute of Applied Physics				
P.O.Box 155			b NL 24	
<u>NL - 2600 AD Delft</u>				
Name of principal investigator: J. Oldengarm Telephone No: 015-788020				
Descriptive project title:				
The crawl space as a source to indoor air pollution				
Keywords (see attached list):				
air infiltration, climate, moisture, ventilation, natural, mod	el, detection-m	ethods, pollution, biological	, fungi	
Project start: /1987 (Evisaged) project end: /1990				
Estimated man power	Estimated cost:			

			جيشت مستورين ويوسون والمواري	
Institute, address: Technisch Physische Dienst TNO-TH			а	
TNO Institute of Applied Physics P.O.Box 155			b NL 25	
NL - 2600 AD Delft				
Name of principal investigator: J. Oldengarm Telephone No: 015-788020				
Descriptive project title:				
Airborne moisture transfer in residences		ngana da		
Keywords (see attached list):				
air movement, climate, moisture, measurement method, ver	ntilation, effect	iveness	:	
Project start: /1987	(Evisaged) project	tend: /1990		
Estimated man power:	Estimated cost:			
Institute, address:			а	
Technisch Physische Dienst TNO-TH				
TNO Institute of Applied Physics				
P.O.Box 155 NL - 2600 AD Delft		•	b NL 26	
The property seems				
Name of principal investigator: H. C. Peitsman Telephone No: 015-787115				
Descriptive project title:				
Accurate humidity measurements in buildings				
Keywords (see attached list) :				
humidity, measurements, buildings, climate				
Project start: /1985	(Evisaged) project	t end: /1990		
Estimated man power:	Estimated cost:			
Institute, address:		· · · · · · · · · · · · · · · · · · ·	а	
Technisch Physische Dienst TNO-TH				
TNO Institute of Applied Physics P.O.Box 155				
NL - 2600 AD Delft			b NL 27	
	·			
Name of principal investigator: H. A. L. van Dijk		Telephone No: 015-787071		
Descriptive project title:				
Modelling ventilation exchange between zones				
Keywords (see attached list) :				
ventilation, models				
Project start: /1985	(Evisaged) project	tend: /1990		
Estimated man power:	Estimated cost:			

Institute, address: Technisch Physische Dienst TNO-TH TNO Institute of Applied Physics			a	
P.O.Box 155 NL - 2600 AD Delft			b NL 28	
Name of principal investigator: H. J. Nicolaas Telephone No: 015-787108				
Descriptive project title:	anus () ((o y yang menerista di sebasah sebasah	- 1/ 1 	
Thermal modelling of indoor climate	•			
Keywords (see attached list):			· · · · · · · · · · · · · · · · · · ·	
climate, models			······································	
Project start: /1986	(Evisaged) project	end: /1991	· · · · · · · · · · · · · · · · · · ·	
Estimated man power:	Estimated cost:			
Institute, address:			a	
Technisch Physische Dienst TNO-TH TNO Institute of Applied Physics				
P.O.Box 155			b NL 29	
NL - 2600 AD Delft				
Name of principal investigator: A. D. Lemaire Telephone No: 015-787107				
Descriptive project title:	ns			
Modelling of air movement based on Navier Stokes equatio	115			
Keywords (see attached list) :				
models, air movement				
Project start: /1986	(Evisaged) projec	tend: /1991		
Estimated man power	Estimated cost:			
Institute, address:			а	
Technisch Physische Dienst TNO-TH TNO Institute of Applied Physics				
P.O.Box 155			b NL 30	
<u>NL - 2600 AD Delft</u>				
Name of principal investigator: H. J. Nicolaas		Telephone No: 015-787108		
Descriptive project title				
Models for air conditioning systems				
Keywords (see attached list) :	, , , , , , , , , , , , , , , , , , , 	and the second seco		
models, ACS				
Project start: /1970	(Evisaged) projec	tend:/1990 and later		
Estimated man power:	Estimated cost:			

<u> </u>		<u> </u>		
Institute, address: Technisch Physische Dienst TNO-TH	a			
TNO Institute of Applied Physics				
P.O.Box 155 NL - 2600 AD Delft			b NL 31	
and the second s				
Name of principal investigator: A. D. Lemaire		Telephone No: 015-787107	·	
Descriptive project title:		· ver element		
Models for pollution concentration in air movements				
Keywords (see attached list):			,	
air movement, pollution, concentrations, models				
Project start: /1986	(Evisaged) project	end: /1991 and later		
Estimated man power:	Estimated cost: To	outine work		
Institute, address:			а	
Radiological Service TNO				
P.O.Box 9034			b NL 32	
NL - 6800 ES Arnhem			₩ INL 34	
Name of principal investigator: J. G. Ackers Telephone No: 085-562469				
Descriptive project title:	,	lander og fyrigerende er er	en la completa de la	
Calculation of the radiation doses from natural sources in but materials used in various types of dwellings	uilding			
Keywords (see attached list):				
pollution, radon, gamma radiation, sources, building mater	ials, residences,	exposure, doses, assessment		
Project start: /1987	(Evisaged) project	tend: /1991		
Estimated man power: 2 MY	Estimated cost:			
Institute, address:			а	
Hoodfgroep Maatschappelijke Technologie TNO	•		-	
Afdeling Binnenmilieu				
Postbus 217 NL - 2600 AE Delft			p NF 33	
IL ZVVAL DEIIL				
Name of principal investigator: R.W.Lanting		Telephone No: 015-696900		
Descriptive project title:			· · · · · · · · · · · · · · · · · · ·	
Risk assessment of toxic agents in dwellings				
Keywords (see attached list):		<u>, and an annual prijet any a state of a state of an angle any and a state of a state of a state of a state of a</u>		
pollution, chemical, biological, dwellings, risk, models, stra	tegies			
Project start: /1988	(Evisaged) project	end: /1989		
Estimated man power:	Estimated cost:			

Institute, address: Hoodfgroep Maatschappelijke Technologie TNO Afdeling Binnenmilieu			a
Postbus 217			b NI 24
NL - 2600 AE Delft			b NL 34
Name of principal investigator: J.F. van der Wal, R.W.Lanting		Telephone No: 015-696900	
Descriptive project title:			
Sampling strategies for indoor air pollution			
Keywords (see attached list):			,,,,
strategies, guidelines, pollution, sampling-analysis			
Project start: /1988	(Evisaged) project	tend: /1989	
Estimated man power:	Estimated cost:		
Institute, address:			a
Hoodfgroep Maatschappelijke Technologie TNO			~
Afdeling Binnenmilieu			
Postbus 217			b NL 35
<u>NL - 2600 AE Delft</u>			
Name of principal investigator: M.Leupen, R.W.Lanting		Telephone No: 015-696900	
Descriptive project title:			
Data bases sources/ emissions/ concentrations/ effects			
Keywords (see attached list) :	<u> </u>	i yanin di izana ya izana di zana di z	
database, sources, emissions, concentrations, effects			
Project start: /1988	(Evisaged) project	tend: /1992	
Estimated man power:	Estimated cost:		· .
Institute, address:			а
Landbouwuiniversiteit Wageningen			~
Vakgroep Toxicologie			
Bomenweg 2			b NL 36
NL - 6703 HD Wageningen			
Name of principal investigator: G. A. H. Heussen		Telephone No: 08370-82137	
Descriptive project title:			
Mutagenicity of Indoor Air			
Keywords (see attached list): pollution, PM, POM, biological, effects, toxicological, mutagenicity, genotoxic, cancer, strategies			
Project start: 01/1984	(Evisaged) project	t end: 06/1989	
Estimated man power:	Estimated cost:		

Institute, address: Universidade de Aveiro			а
Departamento de Ambiente			
Campo de Santiago			b P1
<u>P - 3800 Aveiro</u>			
Name of principal investigator: A. J. B. Samagaio and C. Borrego		Telephone No: 034-25085	
Descriptive project title:			
Numerical modelling of recirculating flows in rooms	ns arana inventorio de la ciencia de la c		
Keywords (see attached list) :			
climate, temperature, air movement, ventilation, mechanic	al ACS,models		
Project start: 05/1987	(Evisaged) project	t end: 08/1990	
Estimated man power: 0.4 M/Y	Estimated cost:		
Institute, address:			a
LNETI- Departamento de Protecção e Segurança Radiológic	a		
Estrada Nacional 10			L 00
<u>P - 2685 Sācavem</u>			b P2
	rigonalia da	give the company of t	
Name of principal investigator: Dr. J. P. Galvão Telephone No: 1-2550021			
Descriptive project title:			
Evaluation of the population exposure to radon in the vicini of uranium mining facilities	ty		·
Keywords (see attached list) :			
pollution, radon, concentrations, exposure, residences, build	ding materials,	external sources	
Project start: 07/1986	(Evisaged) projec	t end: 12/1989	
Estimated man power: 3 M/Y	Estimated cost:		
Institute, address:			a
LNETI- Departamento de Protecção e Segurança Radiológica	a		~
Estrada Nacional 10			
P - 2685 Sacavem		·	b P3
Name of principal investigator: Dr. J. P. Galvão Telephone No: 1-2550021			
Descriptive project title:			
Assessment of population doses from radon inhalation in ho	ouses		
built in the vicinity of mining facilities or in which wastes have been used			
Keywords (see attached list) :			
pollution, radon, concentrations, exposure, residences, doses, assessment			
Project start: 07/1986 (Evisaged) project end: 12/1989			
Estimated man power 3 M/Y Estimated cost:			

Institute, address: Institut für Toxikologie ETH und UNI Zürich			a
Schorenstrasse 16 CH - 8603 Schwerzenbach			b СН 1
Name of principal investigator H. Rothweiler and Ch. Schlatter		Telephone No: 01-8251010	
Descriptive project title: Concentrations of reactive and toxic VOC (bp < 250°C) in new and freshly renovated buildings	w		
Keywords (see attached list) pollution, organic, VOC, reactive, concentrations, detection	ı methods, deve	lopment	
Project start: 01/1988	(Evisaged) project	end:	
Estimated man power: 2 M/Y	Estimated cost:		
Institute, address. Institut für Toxikologie ETH und UNI Zürich			a
Schorenstrasse 16 CH - 8603 Schwerzenbach			b СН 2
Name of principal investigator: S. Kehl and Ch. Schlatter Telephone No: 01-8251010			
Descriptive project title: Determination of isocyanates-concentrations at workplaces offices, schools and residences	5,		
Keywords (see attached list) pollution, organic, SVOC, isocyanates concentrations, build measurements	ings, offices, sch	ools, residences, sampling, a	nalysis, field
Project start: 06/1987	(Evisaged) project	tend: 06/1990	
Estimated man power 1.2 M/Y	Estimated cost:		
Institute, address. Radiation Hygiene Division Paul Scherrer Institute			a
vormals EIR CH - 5303 Wärenlingen			b сн з
Name of principal investigator: Dr. R. Crameri, Dr. W. Burkart		Telephone No 056-992343	
Descriptive project title. Building materials as source of exposure in Swiss buildings			
Keywords (see attached list) radon, source, building materials, emissions			
Project start: /1987	(Evisaged) project	end:	
Estimated man power: 1 MY	Estimated cost: Si	fr 100,000 /year	

Institute, address: Radiation Hygiene Division Paul Scherrer Institute			a	
vormals EIR <u>CH - 5303 Wärenlingen</u>			b CH 4	
Name of principal investigator: Dr. R. Crameri, Dr. W. Burkart Telephone No: 056-992343				
Descriptive project title: Mechanisms influencing the indoor radon concentration	7			
Keywords (see attached list): radon, diurnal variations, air movements, ventilation, meteo	orology			
Project start: /1985	(Evisaged) project	end: .		
Estimated man power: 2.5 MY	Estimated cost: S	fr 300,000 /year		
Institute, address: Radiation Hygiene Division Paul Scherrer Institute			a	
vormals EIR CH - 5303 Wärenlingen			b CH 5	
Name of principal investigator: Dr. R. Crameri, Dr. W. Burkart Telephone No: 056-992343				
Descriptive project title: Radiation exposures due to air tightening of dwellings				
Keywords (see attached list): radon, energy conservation, exposure, cost/benefit calculati	ons			
Project start: /1987	(Evisaged) project	end:		
Estimated man power : 1.5 MY	Estimated cost: \$1	fr 200,000 /year		
Institute, address: Basler & Hofmann AG Forchstrasse 395			a	
CH - 8029 Zürich			b СН 6	
Name of principal investigator: Dr. C. Filleux		Telephone No: 01-551122		
Descriptive project title: Demand controlled ventilating systems, Swiss contribution to IEA Annex XVIII				
Keywords (see attached list): ventilation, buildings, strategies, standards				
Project start: 11/1987	(Evisaged) project	end: 12/1991		
Estimated man power: 6.5 MY	Estimated cost: \$1	fr 605,000		

Institute, address: Laboratoire d'Energie Solaire			a	
GRES / EPFL			_	
CH - 1015 Lausanne			b СН 7	
Name of principal investigator: Dr. J. B. Gay Telephone No: 021-474543				
Descriptive project title:				
Natural and forced convection				
Keywords (see attached list):		•		
ventilation, natural, mechanical, air movement, residences				
Project start: 09/1987	(Evisaged) project	end: 08/1989		
Estimated man power. 2.5 MY	Estimated cost: S	fr 206,000		
Institute, address:			a	
EMPA Abt. Luftfremdstoffe		:		
Ueberlandstr. 129			b сн 8	
<u>Döbendorf</u>			D CIA 0	
Name of principal investigator: P. Hofer, J. Morkowski Telephone No.: 823 55 11				
Descriptive project title				
Indoor pollution caused by building materials				
Keywords (see attached list): measurement methods, development, evaluation, validatio pollutants, VOC, SVOC, POM, PM, fibres, building materials	n,			
Project start: 09/1988	(Evisaged) project	t end:		
Estimated man power: 1 MY	Estimated cost:			
Institute, address:		opusantus la estrum popular estraballe la figlialista de la fi nal	а	
Institut universitaire de medécine et d'hygiène du travail				
Rue du Bugnon 19				
CH - 1005 Lausanne			b сн 9	
Name of principal investigator: M.P. Guillemin		Telephone No:		
Descriptive project title:				
Feasibility of a guide for the prevention of psycho-physiological annoyance at the workplace in non-industrial environments				
Keywords (see attached list):				
standards, strategies, validation, sensory effects, behavioural effects, physiological effects				
Project start: /1988 (Evisaged) project end: /1988				
Estimated man power: 1 MY Estimated cost: Sfr 40,000			,	

Institute, address: Institut universitaire de medécine et d'hygiène du travail		а	
Rue du Bugnon 19 <u>CH - 1005 Lausanne</u>			b СН 10
Name of principal investigator: T. Vu Duc	Name of principal investigator: T. Vu Duc Telephone No:		
Descriptive project title:	erin erin kanada yan kerin aji asi kanada yan	the second s	
Chemical tracers of passive exposure to tobacco smoke			
Keywords (see attached list) :		and the second of the second o	
ETS, chamber, measurement strategies, exposure			
Project start: /1988	(Evisaged) projec	t end: /1990	
Estimated man power: 2 M/Y	Estimated cost: S	fr 250,000	
Institute, address:			a
Institut universitaire de medécine et d'hygiène du travail Rue du Bugnon 19			
CH - 1005 Lausanne			b CH 11
Name of principal investigator: C. A. Bernard		Telephone No:	
Descriptive project title:			
Causative factors, mechanisms of complaint and approach of in sick building syndrome and related housing outbreaks	procedures		
Keywords (see attached list):			
complaint, SBS, source, residences, schools, offices			
Project start: /1988	(Evisaged) projec	t end: /1990	
Estimated man power: 2 M/Y	Estimated cost:		
Institute, address:			а
Zingg Markus			
Hochstrasse 55 CH - 8200 Schaffhausen		•	b CH 12
			32
Name of principal investigator: M. Zingg		Telephone No: 053-54782	
Descriptive project title:	and, it is a special processor and it is a	2	en germania de la composition della composition
Questionnaire for evaluating indoor air problems			
Keywords (see attached list) :			, , , , , , , , , , , , , , , , , , ,
control, strategies, data base			
Project start: 12/1985	(Evisaged) projec	it end:	
Estimated man power:	Estimated cost:		

	with the same of the same of the same of			
Institute, address:			а	
Zingg Markus Hochstrasse 55				
CH - 8200 Schaffhausen			b сн 13	
GIT 0200 SCHOTHOUSETT			D CH 13	
Name of principal investigator: M. Zingg Telephone No: 053-54782		Telephone No: 053-54782		
Descriptive project title:			· · · · · · · · · · · · · · · · · · ·	
The possibility to calculate the indoor-concentration of sub	stances			
Keywords (see attached list):				
models, data base				
		, , i , , , , , , , , , , , , , , , , ,		
Project start: 06/1987	(Evisaged) projec	t end:	- prince and the property of t	
Estimated man power:	Estimated cost:			
Institute, address:			а	
Zingg Markus				
Hochstrasse 55				
CH - 8200 Schaffhausen			b CH 14	
Name of principal investigator: M. Zingg Telephone No: 053-54782				
Descriptive project title:				
The possibility to estimate the toxicological effects of indoo	or pollution	•		
Keywords (see attached list):			***************************************	
effects, assessment				
	Transaction			
Project start:	(Evisaged) project	end:		
Estimated man power:	Estimated cost:			
Institute, address:			3	
Bundesamt für Gesundheitswesen			a	
Lebensmittelkontrolle				
c/o Institut für Toxikologie der ETH und UNI Zürich Schorenstrasse 16			b CH 15	
CH - 8603 Schwerzenbach			D CITIS	
Name of principal investigator: J. Schlatter	redución o escilores de cio	Tolonhone No. 01 9351010		
	,,			
Descriptive project title:				
Tobacco Smoke				
Keywords (see attached list) :				
strategies, standards, evaluation, ETS				
Project start:	(Evisaged) project	end:	, mandament of the state of the	
Estimated man power:	Estimated cost:	and the second		

Institute, address: Bundesamt für Gesundheitswesen			a
Lebensmittelkontrolle Haslerstrasse 16 CH - 3008 Bern			b CH 16
Name of principal investigator B. Zimmerli		Telephone No: 031-619577	
Descriptive project title: Air Pollutants-Contamination of Foodstuff			
Keywords (see attached list). exposure, pollution, concentrations			
Project start:	(Evisaged) project	end:	· · · · · · · · · · · · · · · · · · ·
Estimated man power:	Estimated cost:		
Institute, address Kantonales Laboratorium Luzern		a	
Vonmattstrasse 16 CH - 6002 Luzern			b CH 17
Name of principal investigator: A. Tuor		Telephone No: 041-246103	
Descriptive project title: Indoor air contamination by technical substances			
Keywords (see attached list) pollutants, HCHO, VOC, concentrations, biocides			
Project start: 1.5 M/Y	(Evisaged) project end:		
Estimated man power:	Estimated cost:		
Institute, address: Department of Hygiene and Applied Physiologie Federal Institute of Technology Zürich			a
CH - 8092 Zürich			b сн 18
Name of principal investigator: Hans-Urs Wanner Telephone No: 01-256 3973			
Descriptive project title: Indoor air quality and indoor climate depending on the heating- and ventilation-system in dwellings and offices			
Keywords (see attached list) air movement, complaint, offices, SBS, ventilation			
Project start: /1988	(Evisaged) project	tend: /1990	
Estimated man power 1 M/Y	Estimated cost:		

Institute, address: Department of Hygiene and Applied Physiologie Federal Institute of Technology Zürich CH - 8092 Zürich			a
			b CH 19
Name of principal investigator: Hans-Urs Wanner		Telephone No: 01-256 3973	
Descriptive project title: $ \label{eq:Descriptive project title:} Measurement of NO_2-concentrations in dwellings and respin$	ratory symptom	ns in children	
Keywords (see attached list): children, epidemiological study, NO_x , NO_2 , respiratory effe	cts		
Project start: /1987	(Evisaged) project	tend: /1989	
Estimated man power: 1 M/Y	Estimated cost.	`	
Institute, address:			а
Department of Hygiene and Applied Physiologie Federal Institute of Technology Zürich			
<u>CH - 8092 Zürich</u>			b СН 20
Name of principal investigator: Hans-Urs Wanner Telephone No: 01-256 3973			
Descriptive project title: Measurement of carbon dioxide and odours of the indoor air to control the fresh air supply			
Keywords (see attached list): air movement, complaint, offices, schools, ventilation		4	
Project start: /1986	(Evisaged) projec	t end: /1988	
Estimated man power: 1 M/Y Estimated cost:			
Institute, address:	Institute, address:		
Department of Hygiene and Applied Physiologie Federal Institute of Technology Zürich			
<u>CH - 8092 Zürich</u>			b CH 21
Name of principal investigator: Hans-Urs Wanner		Telephone No: 01-256 3973	
Descriptive project title:			
Strategies to avoid negative health effects of passive smoking			
Keywords (see attached list): control, ETS, strategies, offices, ventilation			
Project start: /1986	(Evisaged) project	t end: /1988	
Estimated man power 0.5 M/Y	Estimated cost:		

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Institute, address: Department of Hygiene and Applied Physiologie			а
Federal Institute of Technology Zürich CH - 8092 Zürich			b сн 22
Name of principal investigator: Hans-Urs Wanner		Telephone No: 01-256 3973	
Descriptive project title			
Measurement of microorganisms in the idoor air			
Keywords (see attached list)			
pollutants, biological aerosols, control, offices, residences, s	ource	•	
Project start: /1980	(Evisaged) project	t end:	
Estimated man power: 0.2 M/Y	Estimated cost:		
Institute, address:			а
Department of Hygiene and Applied Physiologie			
Federal Institute of Technology Zürich <u>CH - 8092 Zürich</u>			b сн 23
<u> </u>			5 01 23
Name of principal investigator Brigitta Danuser		Telephone No: 01-256 3975	
Descriptive project title			
Passive smoking: Acute effects on lung function in sensitive	persons		
Keywords (see attached list) .			
asthma, effects, ETS, risk groups, physiological reactions			
Project start: /1987	(Evisaged) project	t end: /1989	
Estimated man power 1 M/Y Estimated cost:			
Institute, address			а
Institut für Energietechnik			
ETH-Zentrum CH - 8092 Zurich		b CH 24	
<u> </u>			₩ CΠ Z4
Name of principal investigator. Prof. Dr. P. Suter	 	Telephone No: 01-2562738	
Descriptive project title.			
Numerical determination of air movement in single rooms			
Keywords (see attached list):			
air movement, ventilation (natural,mechanical), models			
Project start: 07/1986	(Evisaged) project	tend: 01/1991	
Estimated man power: 9 MY	Estimated cost: S	fr 1,438,000	

Institute, address:			a
Laboratoire d'Energie Solaire GRES / EPFL			·
CH -1015 Lausanne			b CH 25
Name of principal investigator: Dr. C. A. Roulet		Telephone No: 021-474557	
Descriptive project title:			
Measurement of air exchange between rooms and environment	nent		
Keywords (see attached list) :			
ventilation, test methods, validation, buildings (multi-zona	1)		
Project start: 07/1987	(Evisaged) project	end: 12/1989	
Estimated man power: 4 MY	Estimated cost: S	fr 478,000	
Institute, address:			а
Basler & Hofmann AG			_
Forchstrasse 395			b сн 26
<u>CH - 8029 Zürich</u>			D CH 26
Name of principal investigator: Dr. C. Filleux	ngara da sa anagara da da da sagara	Telephone No: 01-551122	i en la companya de l La companya de la companya de
Descriptive project title:			
State-of-the-art analysis of ventilation systems for buildings	of various use-	types	
Keywords (see attached list):			
ventilation, buildings, strategies, standards			
Project start: 08/1987	(Evisaged) project	t end: 12/1988	
Estimated man power: 4 MY Estimated cost: Sfr 450,000			
Institute, address:		i kirin di di san ga k <u>i dama ka dikiran kaji kirana a</u> di jila <u>na di kir</u> i	а
		,	b
			5
Name of principal investigator:	· · · · · · · · · · · · · · · · · · ·	Telephone No:	
Descriptive project title:			
Keywords (see attached list) :			
Reywords (see attached list)			
Project start:	(Evisaged) project	t end:	
Estimated man power:	Estimated cost:		
	1		

6. COMPLETED PROJECTS

DENMARK

Radon in dwellings SMI-Booklet

Teknologisk Institut, Byggeteknik, Oregersensvej, 2630 Taastrup

Development of a measurement method for the monitoring of indoor allergens - Pilot Study Laboratoriet for medicinsk allergologi

Micro organisms in the indoor environment and their relation to the level of cleaning - pilot project

Teknologisk Institut, Afdelingen for Bioteknik, Oregersensvej, 2630 Taastrup

Ventilation requirements in buildings - Compilation of a rational basis for regulations demands issued by authorities. Phase 1. Offices and meeting rooms. Part 2

Institute of Environmental and Occupational Medicine, Aarhus Universitet, Universitetsparken, Bygn. 180, 8000 Aarhus C

Impact of off-gasing from materials on indoor air quality

SBI - Danish Building Research Institute, P.O. Box 119, 2970 Horsholm

A/S Dominia - Improvements of ventilation techniques for existing buildings with gas kitchen and evaluation of the effect

Teknologisk Institut, Byggeteknik, Oregersensvej, 2630 Taastrup

Emission of nitrogen oxides from a gas oven in a gas kitchen and from movable oven.

Addition to the report "Nitrogen oxides emission, occurence and impact on health in dwellings with unvented appliances"

Teknologisk Institut, Byggeteknik, Oregersensvej, 2630 Taastrup

Ventilation requirements in buildings - Compilation of a rational basis for regulations issued by authorities. Phase 1: Offices and meeting rooms. Part 1

Laboratoriet for Varme- og Klimateknik, Danmarks Tekniske Hoejskole, Bygn. 402, 2800 Lyngby

Easy method for measuring dust on surfaces and the effectiveness of cleaning

Ole Holm Petersen, Danish National Institute of Occupational Health, Baunegaardsvej 73, 2900 Hellerup

Outdoor air fans - positioning and function

SBI - Danish Building Research Institute, P.O. Box 119, 2970 Horsholm

Nitrogen oxides emission, occurence and consequence health in dwellings using unvented gas appliances - literature review -

Teknologisk Institut, Byggeteknik, Oregersensvej, 2630 Taastrup

Database for indoor pollutants

SBI - Danish Building Research Institute, P.O. Box 119, 2970 Horsholm

Reporting of experiences and results of consulting activity in the field of indoor climate at the Occupational Medicine Clinic during the period 1982-1985

Arbeidsmedicinsk klinik Aalborg sygehus nord

FRANCE

Air and surface quality in two day-care centres in Paris: phyisico-chemical and bacteriological aspects

B.Festy, Dr Lambert, Laboratoire d'Hygiène de la Ville de Paris (L.H.V.P), 1bis rue des Hospitalières St Gervais, 75004 Paris

Bio-contamination and control of refuse shoots in residence buildings

B. Festy, F. Squinazi, A. Mouilleseaux, Laboratoire d'Hygiène de la Ville de Paris (L.H.V.P), 1bis rue des Hospitalières St Gervais, 75004 Paris and Ministries of Health and Construction and Housing

GERMANY

Determination of minimum ventilation rates warranting hygienically unobjectionable indoor air quality: the example of formaldehyde and other organic substances (Phase III)

Dr. Jürgen Wegner, Institut für Wasser-,Boden-, und Lufthygiene des Bundesgesundheitsamtes, Corrensplatz 1, 1000 Berlin 33

R & D Programme "Ventilation in residential buildings" Sub-project 2150.

"Minimum ventilation rates as a function of use pattern and intensity"

Dr. Jürgen Wegner, Institut für Wasser-,Boden-, und Lufthygiene des Bundesgesundheitsamtes, Corrensplatz 1, 1000 Berlin 33

Experimental animal analyses for risk assessment of indoorair pollutant mixtures

Dr. Ulrich Glaser, Fraunhofer-Institut für Umweltchemie und Ökotoxikologie, Postfach 12 60, 5948 Schmallenberg-Grafschaft

GREAT BRITAIN

Development of a Predictive Model for Air Movement and Heat Distribution in Factories

Dr. P. J. Jones and Prof. P. E. Sullivan, Welsh School of Architecture (R&D), UWIST, 20/22 North Roas, Cardiff CF1 3DY

GREECE

Determination of mercury levels in the atmosphere of workplace and the biological samples of dental practitionisers

Prof. A. X. Apostolopoylos, Department of Community Dentistry, School of Health Sciences, University of Athens, 2 Thivon str., 11527 Athens

NETHERLAND

Air-tight houses

W.F. de Gids, Hoofdgroep Maatschappelijke Technologie TNO, Afdeling Binnenmilieu, Postbus 217, 2600 AE Delft

Heat

H. de Waal, HoofdgroepTechnisch-Wetenschappelijke Diensten TNO, Technisch Physische Dienst TNO-TH, Stieltjesweg 1, 2600 AD Delft

Assessment of the health risk of the soil pollution Steendijkpolder at Maassluis, the Netherlands J. H. van Wijnen, Gemeente Amsterdam, Gemeentelijke Geneeskundige en Gezondheids Dienst, Sector Volksgezondheid en Milieu, Nieuwe Achtergracht 100, 1018 WT Amsterdam

Integrated exposure of (risk) populations to some air pollutants and correlated health effects

B. Brunekreef, Department of Environmental and Tropical Health, Agricultural University, P.O.

Box 238, 6700 AE Wageningen

Integrated exposure of (risk) populations to some air pollutants and related health effects

J. S. M. Boleij, Landbouwuniversiteit Wageningen, Vakgroep Luchthygiene en Veronreiniging,

De Dreijen 12, 6700 EV Wageningen

Organic air pollution in living-rooms

H. J. v.d.Wiel, Rijksinstituut voor de Volksgezondheid en Milieuhygiene, Antonie van Leeuwenhoeklaan 9, 3721 MA Bilthoven

Indoor air pollution

H. J. v.d.Wiel, Rijksinstituut voor de Volksgezondheid en Milieuhygiene, Antonie van Leeuwenhoeklaan 9, 3721 MA Bilthoven

Causes of CNSLD in children and adolescents, with special regard to air pollution

P. J. van der Maas, Rijksuniversiteit Rotterdam, faculteit der Geneeskunde, Instituut voor Maatschappelijke Gezondheidszorg, 3000 DR Rotterdam

Organic solvents in a car-body repair shop, a offset printing factory, silk screen printing factory and surrounding houses

A. Verhoeff, Gemeente Amsterdam, Gemeentelijke Geneeskundige en Gezondheids Dienst, Sector Volksgezondheid en Milieu, Neuwe Achtergracht 100, 1018 WT Amsterdam

Allergens of plants and their effects

M. J. M. Martens, Katholieke Unversiteit Nijmegen, Faculteit der Wiskunde en Natuurwetenschappen, subfaculteit Biologie, vakgroep Botanie II, Toernooiveld, 6525 ED Nijmegen

The relation between soil pollution and indoor air pollution with volatile organic compounds
T. Fast, Gemeente Amsterdam, Gemeentelijke Geneeskundige en Gezondheids Dienst, Sector Volksgezondheid en Milieu, Nieuwe Achtergracht 100, 1018 WT Amsterdam

7. MEMBERS OF THE COMMUNITY-COST CONCERTATION COMMITTEE

BELGIUM

Dr. Eddy **MUYLLE** Institut d'Hygiene et d'Epidemiologie Bruxelles

DENMARK

Prof. P. Ole **FANGER** Laboratoriet for Varme- og Klimateknik Danmarks Tekniske Hojskole Lynby

Dr. Lars MØLHAVE (vice chairman) Institute for Miljø-og Arbejdsmedicin Århus Universitet Århus

FRANCE

Prof. Bernard **FESTY** Laboratoire d'Hygiene de la Ville de Paris Paris

Prof. Claude MOLINA Hopital Sabourin Clermont-Ferrand

GERMANY

Dr. Bernd **SEIFERT** (chairman) Bundesgesundheitsamt Institut für Wasser-, Boden- und Lufthygiene Berlin

GREECE

Prof. Panayotis **SISKOS**Laboratory of Analytical Chemistry
University of Athens
Athens

Dr. Athanasios VALAVANIDIS
Department of Chemistry
Laboratory of Organic Chemistry
University of Athens
Athens

IRELAND

Dr. James P. Mc LAUGHLIN Department of Physics University College Belfield Dublin

Mr. Patrick A. WRIGHT EOLAS Glasnevin Dublin

ITALY

Prof. Marco MARONI Istituto di Medicina del Lavoro Clinica del Lavoro "Luigi Devoto" Università di Milano Milano

Prof. Antonio **REGGIANI** Istituto Superiore di Sanità Roma

THE NETHERLANDS

Ir. Anton P.M. **BLOM**Ministry of Housing, Physical
Planning and Environment
Leidschendam

Prof. Jan S.M. **BOLEIJ**Department of Air Pollution
Agricultural University
Wageningen

PORTUGAL

Eng. David A. **BIZARRO LEANDRO**Direction-General for Hygiene and
Security at Work
Lisboa

SWITZERLAND

Dr. Heinz **ROTHWEILER** Institut für Toxikologie der ETH u. Universität Zürich Schwerzenbach

Prof. Dr. H. U. **WANNER** Institut für Hygiene und Arbeitsphysiologie de ETH Zürich

UNITED KINGDOM

Dr. Peter **WARREN**Department of the Environment
Romney House
London

WORLD HEALTH ORGANIZATION

Dr. Michael J. **SUESS**Regional Officer for
Environmental Health Hazards
Copenhagen

COMMISSION OF THE EC

Dr. Jean-Guy **BARTAIRE** DG XI/B/2 Bruxelles

Mr. Louis **GRAVIGNY** DG III/C/3 Guimard Room 1/18 Bruxelles

Dr. Maurizio **DE BORTOLI** (secretary) JRC, Ispra Establishment Ispra (Varese)

Dr. Helmut **KNÖPPEL** JRC, Ispra Establishment Ispra (Varese)

Institute, address:		a	
			b
Name of principal investigator:		Telephone No:	
Descriptive project title:			7
Keywords (see attached list):	•		
Project start:	(Evisaged) project	t end:	
Estimated man power :	Estimated cost:		
Institute, address:		a	
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Name of principal investigator:		Telephone No:	
Descriptive project title:			
Keywords (see attached list) :			
Project start:	(Evisaged) projec	t end:	
Estimated man power: Estimated cost:			
Institute, address:			a
			b
Name of principal investigator:		Telephone No:	
Descriptive project title:			
Keywords (see attached list) :			
Project start:	(Evisaged) projec	t end:	
Estimated man power:	Estimated cost:		

Institute, address:			a
			b
Name of principal investigator:	<u> </u>	Telephone No:	
Descriptive project title:			
Keywords (see attached list) :			
Project start:	(Evisaged) project	t end:	
Estimated man power:	Estimated cost.		
Institute, address:		·	a
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Name of principal investigator:		Telephone No:	
Descriptive project title:			
Keywords (see attached list) :			
Project start:	(Evisaged) projec	t end:	
Estimated man power: Estimated cost:			
Institute, address:			a
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Name of principal investigator:		Telephone No:	
Descriptive project title:			
Keywords (see attached list) :			
Project start:	(Evisaged) projec	t end:	
Estimated man power:	Estimated cost:		

Institute, address:		a	
			b
Name of principal investigator:		Telephone No:	
Descriptive project title:			
Keywords (see attached list) :			
Project start:	(Evisaged) project	end:	Ministra
Estimated man power :	Estimated cost:		
Institute, address:			a
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Name of principal investigator:		Telephone No:	:
Descriptive project title:			
Keywords (see attached list)			
Project start:	Project start: (Evisaged) project end:		
Estimated man power: Estimated cost:			
Institute, address:			a
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Name of principal investigator:		Telephone No:	
Descriptive project title:			
Keywords (see attached list):			
Project start:	(Evisaged) project	end:	
Estimated man power:	Estimated cost:		

Institute, address:		,	а
			b
Name of principal investigator:		Telephone No:	
Descriptive project title:	This is a surple of the second of the first of the second of the second		
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Keywords (see attached list):			
Project start:	Project start: (Evisaged) project end:		
Estimated man power :	Estimated cost:		
Institute, address:		а	
			b
Name of principal investigator:		Telephone No:	
Descriptive project title:			
Keywords (see attached list) :			
Project start:	(Evisaged) project	end:	
Estimated man power	Estimated cost:		
Institute, address.			а
			b
			3
Name of principal investigator:		Telephone No:	
Descriptive project title:			
Keywords (see attached list) :			
Project start:	(Evisaged) project	t end:	
Estimated man power:	Estimated cost:		