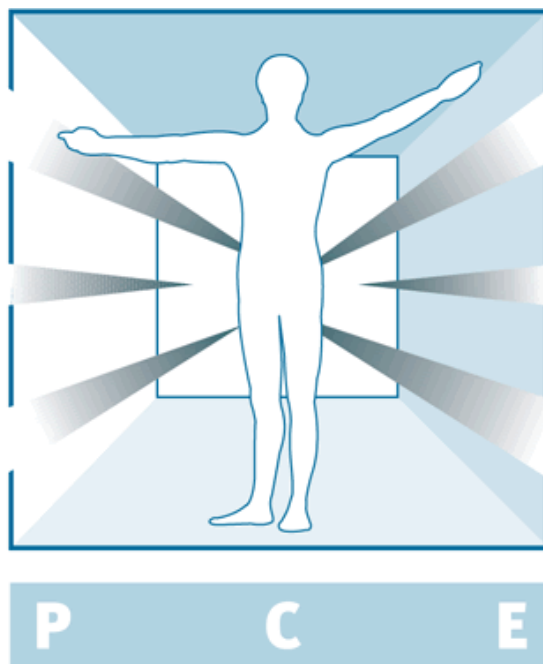


Physical and Chemical Exposure Unit

PUBLICATIONS - 2002 to 2006

**Edited by
Jacqueline Ryder, Dimitrios Kotzias**

EUR 23085 EN - 2008



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The mission of the IHCP is to provide scientific support to the development and implementation of EU policies related to health and consumer protection.

The IHCP carries out research to improve the understanding of potential health risks posed by chemical, physical and biological agents from various sources to which consumers are exposed.

European Commission
Joint Research Centre
Institute for Health and Consumer Protection

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JRC 42819
EUR 23085 EN
ISSN 1018-5593

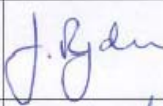
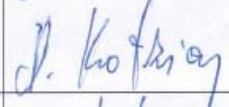


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Final approval: (IHCP Director If appropriate)	Elke ANKLAM		24.1.08

Foreword

The Physical and Chemical Exposure Unit's mission is to support Commission services by providing scientific understanding, information and risk assessment tools for evaluating human exposure to chemicals and environmental stressors.

Several scientific research groups merged in 2002 to form the PCE Unit within the Institute for Health and Consumer Protection. Our research activities in evaluating European population exposure to chemicals and physical stressors support Commission services and policy makers.

The Unit's activities have been reviewed in preparation for the 7th Framework Programme (2007-2013), taking into consideration the Environment and Health Strategy and Action Plan and the Consumer Strategy Policy. The review has led to the definition of three scientific actions which form the structure of our work in 2007:

- EXPO-Health – Human exposure to environmental stressors and health effects; contributing to the estimation of the risk of human exposure to chemicals and other environmental stressors through different routes (food and water intake, air inhalation, skin contact, etc.).
- EXPO-Tools – Integrated exposure assessment and modelling; for the generation of validated data on exposure from chemicals in consumer and industrial products in order to support the assessment of risk to man and the environment.
- MAST – Multipurpose Advanced Spectroscopic Techniques; will apply advanced spectroscopic technologies, including Nuclear Magnetic Resonance (NMR), High Resolution Mass Spectrometry (HRMS), and Isotope Ratio Mass Spectrometry (IRMS), to provide scientific data to support European Policies in the areas of Consumer Protection and Environment and Health. The research work will produce analytical data collected in European reference databanks of interest for anti-fraud, illicit drugs profiling, food authenticity, human biomonitoring, Metabonomics and Metabolomics.

This collection of publications documents the first five years of our research activities leading up to the 7th Framework Programme, which began in January 2007. It is divided into two parts: the publications divided by subject matter in Part 1 and, in Part 2, all the publications divided by year.

January 2007

Dimitrios Kotzias
Unit Head

PHYSICAL AND CHEMICAL EXPOSURE UNIT

Publications – 2002 to 2006

TABLE OF CONTENTS Page

PART I – Publications divided by subject

➤ EXPOSURE TO CHEMICAL AGENTS	1
Aspects of Exposure Assessment.....	1
Indoor Air Quality.....	6
Modelling.....	10
ECA on “Urban Air, Indoor Environment and Human Exposure”	12
Consumer Products/Articles	13
Food Contact Materials.....	17
Toxicology	23
➤ EXPOSURE TO PHYSICAL AGENTS	27
Noise	28
Electromagnetic Fields.....	30
UV Radiation	31
➤ BEVABS	38
➤ GENERAL PUBLICATIONS	48

PART II – Publications divided by year and type

➤ 2006	49
➤ 2005	57
➤ 2004	69
➤ 2003	78
➤ 2002	87

PART I

PUBLICATIONS DIVIDED BY SUBJECT

EXPOSURE TO CHEMICAL AGENTS

	Page
➤ Aspects of Exposure Assessment	1
➤ Indoor Air Quality	6
➤ Modelling	10
➤ ECA on “Urban Air, Indoor Environment and Human Exposure”	12
➤ Consumer Products/Articles	13
➤ Food Contact Materials	17
➤ Toxicology	23

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EXPOSURE TO PHYSICAL AGENTS

	Page
➤ Noise	28
➤ Electromagnetic Fields.....	30
➤ UV Radiation	31

Physical Agents – Noise

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PART II

PUBLICATIONS DIVIDED BY YEAR AND TYPE

PUBLICATIONS DIVIDED BY YEAR AND TYPE

➤ 2006	49
➤ 2005	57
➤ 2004	69
➤ 2003	78
➤ 2002	87

2006

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European Commission

EUR 23085 EN – Joint Research Centre – Institute for Health and Consumer Protection

Title: Physical & Chemical Exposure Unit – Publications 2002 to 2006

Author(s): RYDER, J., KOTZIAS, D.

Luxembourg: Office for Official Publications of the European Communities

2008 – 89 pp. – 21 x 29,7 cm

EUR – Scientific and Technical Research series – ISSN 1018-5593

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