**Philippe HUBERT**[[1]](#footnote-1)



Since 2003 Philippe Hubert is Head of the Chronic Risk Division at the INERIS institute. This institute (Staff 550 p.) is in charge of research and expertise in the area of industrial risk. The Division (200p.) performs experimental work and develops models (PBPK, QSAR) and methods in **toxicology,** **ecotoxicology**, addressing regulatory concepts as well as **emerging risk** (nanos; EMF, EDs). It develops tools and practices for **chemical analysis of pollutants and environmental monitoring**. It is in charge of **pollution forecasting** and data management in this field in connection with air and water. It conducts **risk assessments** both for substances and for industrial objects.

# Previous positions.

2001-2002 ; Advisor to the minister of the environment, in charge of energy affairs (e.g. reorganisation of nuclear safety, stakeholder issues about energy equipments).

1991-2001 ; Head of the department for Risk Assessment and Management of the Institute for Nuclear Protection and Safety. In charge of three laboratories dealing respectively with **radiation epidemiology**,

**impact assessment** of nuclear activities on workers and on the public, **risk perception** and risk management. Research activities were conducted in those fields together expertise in support to the authorities .

1979-1990 ; Research within a unit (INSERM U 240), developing methodologies for risk assessment in France as regards low dose risk assessment, probabilistic risk assessment, Energy systems comparisons.

**Training  :** Economics and statistics at ENSAE (Ecole Nationale Supérieure des Statistiques et de l'Administration Economique) – 1978 Engineer from the Ecole Polytechnique in Paris 1976).

**Belongs to  :**

« Comité de Prévention et de Précaution » near the minister in charge of the environnment.

Commission for chemical Products and biocides near the minister in charge of the environnment.

Director of the association for “alternative methods in animal experiments”, french platform of the European ECOPA network. Vice President of ECOPA.

# Achievements

P.Hubert has been involved in risk assessment since the early developments of this discipline. He conducted research projects and performed studies for various bodies in many of the fields of risk assessment and managements :

* **Chronic exposure risk assessment and epidemiology :** Research on dose-response relation-ship. Applications to National and regional risk assessment for Radon in France, to the impact (possible number of thyroid cancers) of the Chernobyl fall-out in France, to the epidemiological follow up of Chernobyl “liquidators”.
* **Probabilistic risk assessment and major hazard analysis:**  Build up of the French methodology for PRA for the transportation of radioactive and hazardous materials . Applications at the local Level (e.g. City of Lyons, Grenoble), on national (LPG, Ammonia…) and international traffic (Plutonium, Uranium hexafluoride). Expertise on nuclear plants and hazardous objects (Channel Tunnel).
* **Risk management, risk governance :** Analyses, follow-up and proposals for remediation in areas at small or medium scale in France, at very large scale in Chernobyl (Leading European Union “decontamination strategies” Project, 1994,1996). Research and opinion monitoring on risk perception. Analyses for the evolution of regulations (e.g. Radioactive material air transport), and risk governance issues (e.g. Nuclear safety reform, processes for sharing expertise).
* **Risk perception :**set up in 1991 of the observatory on risk perception, still in operation with more than 20 years series on observation on public attitudes towards risk*.*

Some publications.

Ausrele Kesminiene, Anne-Sophie Evrard, Viktor K. Ivanov, Irina V. Malakhova, Juozas Kurtinaitis,d, Aivars Stengrevics,e Mare Tekkel,f Lynn R. Anspaugh,g Andre´ Bouville,h Sergei Chekin,b Vadim V. Chumak,i, Vladimir Drozdovitch,h Vladimir Gapanovich,j Ivan Golovanov,k, **Philippe Hubert**, Sergei V. Illichev,m Svetlana E. Khait,b, Viktor P. Kryuchkov,k Evaldas Maceika,n Marat Maksyoutov,b Anatoly K. Mirkhaidarov,o Semion Polyakov,c, Natalia Shchukina,b Vanessa Tenet,a Tatyana I. Tserakhovich,c Aleksandr Tsykalo,p, Aleksandr R. Tukovk and Elisabeth Cardis. *Risk of Hematological Malignancies among Chernobyl Liquidators.* RADIATION RESEARCH 170, 721–735 (2008)

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