



1st open international NoMiracle workshop

**Ecological and Human Health Risk Assessment:
Focussing on complex chemical risk assessment and
the identification of highest risk conditions**

Verbania - Intra, Italy, June 8-9 2006

In the context of the project

NoMiracle :
**Novel Methods for Integrated Risk Assessment
of Cumulative Stressors in Europe**

Open international workshop

The aim of this workshop is to discuss criteria for the selection of risk scenarios, mapping and visualizing risk, and communicating it to the general public, decision makers and scholars in other disciplines.

During the workshop, a series of communications by the project participants will illustrate the main topics and will introduce discussion among the participants.

Discussion sessions will allow non-project participants to present experiences and research related to the workshop topics.

All contributions will be made available in electronic format through the workshop proceedings via the project web site: <http://nomiracle.jrc.it>.

Main Topics:

- Scenario screening to support risk assessment
- Geographical risk mapping
- Communication of methods to users: presentation of experiences in mapping of human health risks
- Highlighting the potential implications for application of the precautionary principle.

Target groups of participants:

- Scientists in risk mapping, human and ecological risk assessment, risk management and risk communication
- Decision makers at a technical level
- Governmental bodies
- Industry
- NGOs
- International organisations

Programme

Thursday, June 8

9,00 Registration of participants

9,30 Welcome address, European Commission, DG Joint Research Centre

10,00 – 11,00 Spatial mapping of environmental risks: from single substances to cumulative risks

Chair: Peter B. Sørensen and Marco Vighi

Contributions:

- 1) Spatial mapping of environmental risks: state of the art and perspectives, Joost Lahr
- 2) Continental scale mapping of chemical fate using spatially explicit multimedia models, Alberto Pistocchi and David Pennington
- 3) Human risk assessment perspectives for high risk conditions, Jean Lou Dorne
- 4) The ALARM project. Possible connections with NoMiracle, Josef Settele

11,00 Coffee Break

11,30 – 12, 30 Scenario screening to support risk assessment -1

Chair: Patrik Fauser and Marianne Thomsen

Contributions:

- 1) Multicriteria decision procedure-scenario selection and ranking, Federica Peirano
- 2) Application of multi criteria methods in scenario selection, Peter Sørensen et al.
- 3) Ecosystem services and ecological requirements for soil quality from a land use perspective; Jack Faber et al.

12,30 – 14, 00 Lunch Break

14,00 – 16,00 Scenario screening to support risk assessment -2

Chair: Uwe Schlink and Ad Ragas

Contributions:

- 1) Emission estimates for pesticides due to agricultural practice, Steen Gyldenkærne et al.
- 2) Selection of scenario for household pesticides, Marianne Thomsen et al.
- 3) Emission estimates for industrial chemicals as driving factor for scenario selection; area distributed emission profiles for industrial chemicals, Patrik Fauser et al.
- 4) Emission estimates and scenario selection for Pharmaceuticals, Trine Susanne Jensen et al.
- 5) Local emission estimates for pesticides and pharmaceuticals: case studies for Lithuania, J.Kruopiene

- 6) Developing scenarios for the environmental risk assessment of veterinary pharmaceuticals at the European level within the project ERApharm, M. Schneider and K.Fenner

16,00 Coffee Break

16,30 – 18,00 Experiences in human and ecological risk mapping - 1

Chair: Joost Lahr and Alberto Pistocchi

Contributions:

- 1) Spatial distributed cumulative risk mapping for Denmark, Bernd Münier et al.
- 2) Mapping pesticide ecotoxicological risk for aquatic and terrestrial ecosystems, Marco Vighi, Roberto Verro and Serenella Sala
- 3) Approaches for upscaling of spatially defined risks, Nico van den Brink and Uwe Schlink
- 4) Risk Maps based on Random Walk Modelling for Ecological Receptors, Mark Loos, Ad Ragas & Aafke Schipper

18,00 *Passeggiata* through Intra

19,00 Social event (*booking requested!!!*)

Friday, June 9

9,30– 11,00 Experiences in human and ecological risk mapping - 2

Chair: Joost Lahr and Alberto Pistocchi

Contributions:

- 1) Spatial decision support systems and risk evaluation: case studies, S.Bagli
- 2) Mapping of human health risks and of the uncertainty of the risk estimates, Uwe Schlink, Kathrin Strebel
- 3) Ecological risk mapping based on self organizing maps, G.Espinosa et al.
- 4) Development and Implementation of a Right-to-Know Website That Presents Estimated Cancer Risks for Air Emissions of Large Industrial Facilities, Ad Ragas et al.

11,00 Coffee Break

11,30 – 13,00 Applying the precautionary principle - concerns and consequences.

Chair: Mikael Hilden and Silvio Funtowicz

Contributions:

- 1) Thresholds and risks - tensions between policies and biological effects, Mikael Hilden.
- 2) Precautionary science-policy relations: from 'prediction and control' to 'early warning and monitoring', Matthieu Craye.
- 3) Framing multiple, complex and uncertain risks of chemicals, Christina Benighaus and Ortwin Renn.

- 4) Dealing with uncertainty, ambiguity and plurality in the integrated assessment and management of complex cumulative environmental health risks, Timo Assmuth.

13,00 – 14,30 Lunch Break

14,30 – 16,00 Open discussion: “*Challenges and solutions in integrated & cumulative environmental risk mapping* - making up the balance on cumulative risk assessment, integration of human and ecological risk assessment, finding the right ways for communication to the target audience and up scaling of risk maps” - 1

Chair: Ad Ragas and Bernd Münier

Stimulated discussion:

- How cumulative should cumulative risk maps be?
- Can human and ecological risks be integrated in one map?

16,00 Coffee Break

16,30 – 17,30 Open Discussion: “*Challenges and solutions in integrated & cumulative environmental risk mapping* - making up the balance on cumulative risk assessment, integration of human and ecological risk assessment, finding the right ways for communication to the target audience and up scaling of risk maps” - 2

Chair: Jack Faber and Joost Lahr

Stimulated discussion:

- Should risk maps for Europe present realistic or relative risks?
- How to communicate (realistic and/or relative) risks to policy makers and the public?

17,30 Workshop close

Practical information

Information on the workshop, on-line registration forms and a selection of hotels with prices is available at the web site

<http://ies.jrc.cec.eu.int/Meetings/booking/index.php?month=200606>

Participation fees

Participation to the workshop is free of charge. Participants are required to register before April 30, 2006. Registered participants are entitled to take part to the workshop sessions, coffee breaks, and lunches.

Social event of Thursday night – registration required.

A social event will be organised for Thursday June 8th after the workshop sessions. This will consist of dinner and a social programme in the charming framework of Lake Maggiore and will allow dipping into an authentic *Dolce vita* atmosphere. Participants willing to take part to the event will have to book a ticket of **40 Euro** when filling out the registration form. The ticket covers the dinner and programme cost, and has to be paid on site at the workshop. Booking implies acceptance to pay the ticket.

Venue:

The Workshop will be held in Verbania - Intra, on lake Maggiore on the west coast opposite to Ispra, at the Hotel and Conference Centre “Il Chiostro” (<http://www.chiostrovb.it/>). Intra is part of the municipality of Verbania not far from the main site of the European Commission Joint Research Centre in Ispra, Italy. General information on the area can be found at the web site: <http://www.lagomaggiore.net/>

Intra can be reached from the airports of Milano Malpensa or Milano Linate, served by the main airlines. Low-cost airlines often connect to the airport of Bergamo (Orio al Serio), half an hour from Milano by coach.

A dedicated transport service has been organised for the days of the workshop; please check the information available from the registration website. For additional information contact the organisation.

The main railway station around Intra is Verbania Pallanza. Timetables can be consulted on the web site www.trenitalia.com.

Local transport from Milano can be planned referring to the web site of Regione Lombardia (http://www.infopoint.it/trl_index.htm), in Italian. Local transport on the west coast of Lake Maggiore (Verbania province) can be planned referring to the web site <http://www.vcoinbus.it/unico/uno.htm>, also in Italian. Navigazione Lago Maggiore ensures transport across the lake from many locations to Intra and vice versa (<http://www.navigazionelaghi.it/italia/navimaggiore/indicemaggiore.htm>).



Scientific committee:

Matthieu Craye, Jack Faber, Patrik Fauser, Silvio Funtowicz , Mikael Hilden, Trine Susanne Jensen, Joost Lahr, Bernd Münier, David Pennington, Alberto Pistocchi, Ad Ragas, Suresh Rastogi, Uwe Schlink , David Spurgeon, Peter Sørensen, Marianne Thomsen, Marco Vighi.

Organization: EC-Joint Research Centre, Rural, Water and Ecosystem Resources Unit, ENSURE Action 2131.

Alberto Pistocchi,

Alberto.Pistocchi@jrc.it

Ph. +390332785591 - Fax +390332785601

Via E.Fermi, 1 - 21020 Ispra (VA), Italy

NoMiracle web page: <http://nomiracle.jrc.it>

Getting an idea...and getting there!



In order to get to Intra, follow the instructions of the main on-line atlases, like e.g. Via Michelin:

http://www.viamichelin.it/viamichelin/ita/dyn/controller/mapPerformPage?pim=true&act=RefineToMap&md=1140011148671&E_mg=2105060471S20J406046144010606746MAPB2C1d103ita542000130x11036120007aW50cmE0007aW50cmE1100&stat=ambiguos_map&strChoice=0

Pictures in the brochure: A.Pistocchi, S.Jeram, Google Earth.