

## EU-Training Course

to give an overview on the methodology to  
respond to chemical pollution by HNS  
at sea and on the sea bed

Kick-Off-Meeting, 31.01.2007 Brussels, Belgium

[http://www.whaledolphintrust.co.uk/conservation/images/106\\_0686\\_W.jpg](http://www.whaledolphintrust.co.uk/conservation/images/106_0686_W.jpg)

## Background

know-how and expertise on the various dangerous chemicals (HNS) transported by sea and adequate response in case of an emergency is not as much developed compared to the body of knowledge on oil pollution combating

### January 2007: MSC “Napoli”, UK



[http://news.bbc.co.uk/2/hi/uk\\_news/england/cornwall/6277651.stm](http://news.bbc.co.uk/2/hi/uk_news/england/cornwall/6277651.stm)

### January 31, 2006: ECE, France



[http://telegramme.blogs.com/the\\_inernet\\_monthly/images/I1737108\\_1.jpg](http://telegramme.blogs.com/the_inernet_monthly/images/I1737108_1.jpg)

Institut für Kreislaufwirtschaft IKrW,  
(Institute for Recycling and  
Environmental Protection), Bremen

[www.ikrw.de](http://www.ikrw.de)

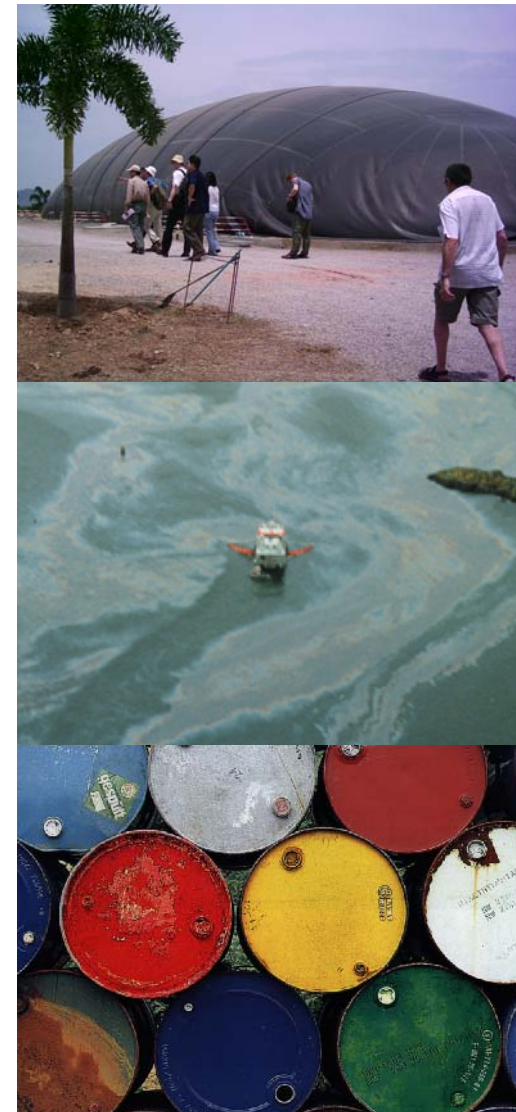
Environmental & maritime Project  
Management Agency, Bremen

[www.empa-bremen.de](http://www.empa-bremen.de)



## Institut für Kreislaufwirtschaft (IKrW)

- Public-Private-Partnership
  - **50% Nehlsen AG**
  - **50% Bremen University of Applied Sciences**
  
- Applied research, expert reports, further education, and conferences on
  - Integrated pollution control
  - Technologies for waste treatment and management
  - International management and networking
  - Disposal, logistics and material economy
  - Marine pollution



# Environmental & maritime Project Management Agency (empa), Bremen



- Dr Johanna Wesnigk, managing director of empa
- Since 1987 scientist, coordinator and project manager for projects on environmental, marine and maritime research
- Since 1998 organisation of workshops, training and devising courses including implementation of simulation exercises

## EU - Courses and workshops in the field of marine pollution

- International liability and compensation regimes (May 2002)
- Bioremediation of wastes from marine pollution (Nov. 2002)
- Treatment of pollution waste (Dec. 2002)
- Response to oil pollution (July 2003)
- Minimisation of environmental damage (Sept. 2005)
- Minimisation of environmental damage II (Oct. 2006)



## Scope of the Project

- organisation and implementation of a **training course**
  - to give an overview on the methodology to respond to chemical pollution by HNS at sea and on the sea-bed
  
- **target group**
  - experts from the 20 maritime European member states and Norway and Iceland
  - personnel responsible and trained for combating oil pollution with only limited experience in the field of chemical pollution, e.g. those who work in the vicinity of high-risk areas such as entrepots/ports or along main transport routes
  - decision makers (middle management) with administrator, nautical, technical or scientific background

## Objectives of the training course

- to familiarise the participants with
  - **methods of intervention**, which allow the **minimisation of effects of chemical pollution** and
  - methods to **recover or neutralise chemical substances**
- to built up **knowledge** on how to minimise short-, medium- and long-term environmental damages associated with accidental releases of chemicals
- to promote the **exchange of knowledge**, experiences and opinions among professionals that are responsible for managing maritime emergencies involving HNS
- to contribute to the formation of an **European expert network** in this field in order to
  - **shorten communication times and paths** in emergency situations and
  - to promote implementation of **necessary improvements**
- to increase the capability to **manage maritime emergencies** involving HNS, by training management and organisational skills

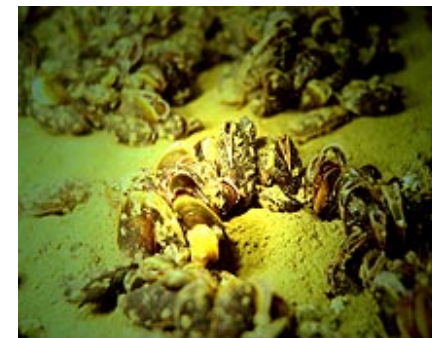
## Training Course Structure

- **Lecture part**  
Presentations held by national and international experts
- **Practical part**  
Site visits/excursion
- **Group work part**  
Simulation exercise, presentation of results



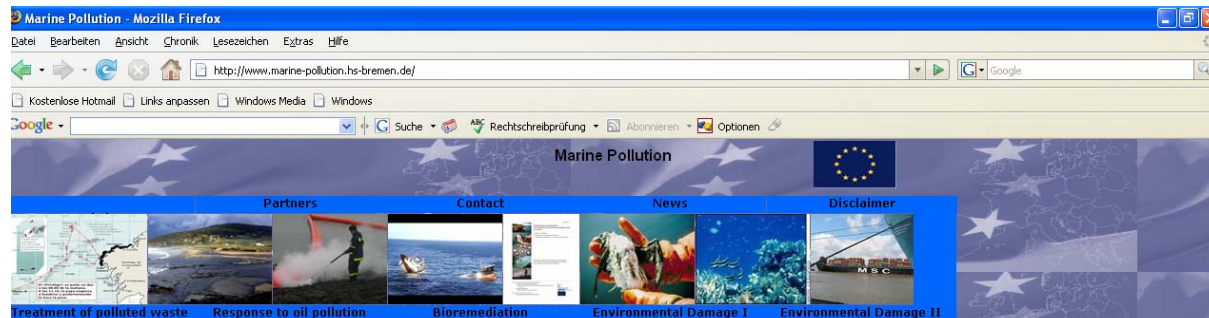
## Training Course Programme

- Introduction
- Presentation of participants background and experiences with chemical accidents
- *Thematic session 1:* Effects of chemicals on the sea and sea floor
- *Thematic session 2:* Detection of chemicals and assessment of environmental damage
- *Thematic session 3:* Combating chemical spills
- Excursion
- Simulation exercise: Analyse intervention methods



## Final Products for Dissemination

- Training course folders for participants and lecturers  
including handouts, supplementary material, contact details, information on professional background of experts
- Written summary of simulation exercise
- Press releases
- Web site



The protection of the marine environment and the reduction of its pollution has been recognised as one of the most vital tasks to save our basis of life. It represents a difficult task due to reliance of modern societies on various types of utilisation and exploitation of the sea. A major source of marine pollution is resulting from ship operation, either accidents causing massive oil spills, or routine operations accompanied by spills of ballast water, water from tank washing and engine room effluent discharges. These threats to the environment, the sea and the coastlines require adequate response not only by national authorities. Due to the complex nature of the sea and the causes for pollution, marine pollution needs to be dealt at an international level.

The *Institut für Kreislaufwirtschaft* contributes to this comprehensive task by organisation and implementation of workshops under the Community framework for cooperation in the field of accidental or deliberate marine pollution. Since 2002 the following workshops have been carried out:

- **Bioremediation** of wastes from marine pollution (Nov. 2002)
- **Treatment of pollution waste** (Dec. 2002)
- **Response to oil pollution** (July 2003)
- **Minimisation of environmental damage**

[www.marine-pollution.hs-bremen.de](http://www.marine-pollution.hs-bremen.de)

- Built-up and extension of an expert network
- Exchange and development of Best Practises
- Training course results as basis for further national and international activities
- Support the development of sustainable knowledge and expertise on response to chemical pollution



**THANK YOU FOR YOUR ATTENTION !**

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