

## Training Course: Response to chemical pollution at sea

05.07.2007 – 07.07.2007, Bremen, Germany

carried out by:

Institut für Kreislaufwirtschaft an der Hochschule Bremen GmbH, IKrW  
(Institute for Recycling and Environmental Protection at the University of Applied Sciences Bremen)  
and

EMPA Environmental & Marine Project Management Agency, Bremen

co-funded by:

European Commission, DG Environment,  
within the framework of community cooperation against accidental or deliberate marine pollution

### Wednesday, 04.07.2007

*Arrival of the participants during the day*

18:00            **Welcome**  
19:15            **Welcome Dinner**

### Thursday, 05.07.2007

08:30            **Welcome and Introduction**

08:40            **Opening of the Training Course**

09:00            **EMSAs activities on HNS**  
Mr Edvard Molitor, European Maritime Safety Agency (EMSA), Portugal

09:45            **Presentation of participants´ background and experience with chemical accidents I**

10:45            **An example of a chemical pollution incident involving France & the UK: The levoli Sun**  
Mr François Merlin, CEDRE, France

11:30            Coffee Break

11:45            **Presentation of participants´ background and experience with chemical accidents II**

13:00            Lunch Break

**Thematic session 1: Effects of chemicals on the sea and the sea floor**

14:30            **Fate and effect of chemicals in water**  
Dr. Johanna Wesnigk, EMPA Bremen, Germany

15:00            **Fates and effects of chemicals on the sea floor**  
Dr. Susanne Heise, Technical University Hamburg Harburg, BIS, Germany

## Thursday, 05.07.2007 (continued)

- 15:30            **Sensitivity maps as a tool for evaluation of environmental damage when combating chemical spills**  
Ms Uda Tuenté, Central Command for Maritime Emergencies (CCME), Cuxhaven, Germany
- 16:00            **Coffee break**
- 16:30            **Health and safety aspects**  
Capt. Hans Joachim Dunemann, Dow Chemicals, Stade, Germany
- 17:00            **Neutralisation of chemicals in restricted water bodies like port basins**  
Mr François Merlin, CEDRE, France
- 19:00            **Joint Dinner**

## Friday, 06.07.2007

### *Thematic session 2: Detection of chemicals and assessment of environmental damage*

- 09:00            **Behaviour of chemicals in the water column and findings of the EU-Project HASREP**  
Dr. Wierd Koops, Netherlands
- 09:45            **Detection and identification of chemicals in water – considering case studies in different geographic regions**  
Dr. Wierd Koops, Netherlands
- 10:30            Coffee Break
- 11:00            **Monitoring after chemical spills: Strategies, demands and perspectives**  
Dr. Joachim Voß, Landesamt für Umwelt und Natur Kiel, Germany
- 11:30            Discussion: **Biological early warning systems and monitoring in different geographic settings (North Sea, Baltic Sea, Mediterranean, Atlantic)**
- 12:00            **Transport of harmful substances in the EU waters. Findings from the EU Project HASREP**  
Mr Fernando Pardo, Alliance of Maritime Regional Interests in Europe (AMRIE)
- 12:45            Lunch Break

### *Thematic session 3: Combating chemical spills*

- 14:00            **German national strategy, tools and techniques to respond to HNS-accidents at sea and to minimise its effects on human health and the environment**  
Capt. Ulf Bustorff, Central Command for Maritime Emergencies, Cuxhaven; Germany
- 15:00            **Excursion: Demonstration of onshore and offshore combating equipment for chemical spills**  
CCME, Germany / Fire Brigade Cuxhaven, Germany
- 20:00            Joint Dinner

**Saturday, 07.07.2007**

**Simulation exercise: Analyse intervention methods**

9:00	<b>Introduction to the simulation exercise</b>
	<b>Simulation Exercise</b>
9:30	in groups with 4-5 persons: Develop a strategy to recover and minimise the effect of a given chemical in a given situation Moderation: Dr. Johanna Wesnig, EMPA Bremen, Germany
10:30	Coffee break
11:00	<b>Simulation Exercise (continued)</b>
13:00	<b>Lunch break</b>
14:00	<b>Presentation of results</b>
16:00	<b>Coffee break</b>
16:30	Discussion: <b>Identify existing needs and recommendations of participants with respect to combating chemical spills in a European context</b>
18:00	<b>Evaluation and Certificates</b>
20:00	<b>Joint Dinner</b>