





OECD Workshop

Natech Risk Management Natural Hazards Triggering Technological Accidents 23rd to 25th May 2012

at Dresden, Germany, International Congress Center



Refinery and Shipping Facilities at SENDAI, Japan (March 12th, 2011)

Workshop Proceedings

- Programme
- Natech Risk Reduction in OECD Member Countries
- Discussion Document
- Abstracts
- List of participants

Dessau-Roßlau, 2012



Dresden, Germany

Umweltbundesamt (Federal Environment Agency)
Division III 2.3 Safety of Installations
Wörlitzer Platz 1
D-06844 Dessau-Roßlau







Time		Room	Doc			
				Tuesday, 22 th May 2012		
14:00	~ 16:00	Bus Departu Main Entranc Congress Cer	е	Excursion to the site of Flourchemie Dohna (Natech Risk Management at a site threatened by flashfloods (presentation II.2)		
16:00	20:00	Foyer Hall Level		Registration and workshop documents GFI Umwelt, Bonn, Germany		
19:00	20:00	Hall 4		Meeting of the chairs, speakers, rapporteurs, consultant Roland FENDLER (Federal Environment Agency (UBA), Germany)		
			1	Wednesday, 23 th May 2012		
08:00	09:00	Foyer Hall Level		Registration, distribution of badges and workshop documents GFI Umwelt, Bonn, Germany		
09:00	10:00	Hall 5		OPENING SESSION: Welcome & Introduction		
				Ruth OLDENBRUCH (Federal Ministry for the Environment, Germany) State Secretary Dr. Fritz Jaeckel		
				(Ministry for the Environment and Agriculture, Free State of Saxony) Marie-Chantal HUET (OECD)		
09:15	09:30		QS	Natech Risk Reduction in OECD Member Countries: Results of a Questionnaire Survey Elisabeth KRAUSMANN (EC Joint Research Center)		
09:30	10:00		DD.	Presentation of the Discussion Document Karl-Erich KÖPPKE (Consultant, Dr. Köppke GmbH, Germany)		
10:00	13:30	Hall 5		SESSION I: Natural Hazards: Mapping and Warning Systems Chair: C1 Georg BÖHME-KORN (Saxon State Ministry of the Environment and Agriculture) Rapporteur: Daniel BONOMI (Federal Office for the Environment (FOEN), Switzerland)		
10:00	10:40			I a Presentation 1.1 - 1.2: Natural Hazard Mapping		
			I.1	P1.1 Hazard and Risk Maps as a Main Element of Flood Risk Management: Lessons Learnt after 2002 Flood in Saxony SP1.1 Martin SOCHER (Saxon State Ministry of the Environment and Agriculture)		
			1.2	P1.2 Principles of Risk Management for Natural Hazards: The Case of Switzerland SP1.2 Hans KIENHOLZ (KiNaRis, Switzerland)		
10:40	11:00	_		Discussion		
11:00	11:30	Foyer		Coffee Break		

Time		Room	Doc	
11:30	12:10	Koom	500	I b Presentation 1.3 – 1.4: Natech Risk Mapping
11.50	12.10		1.3	P1.3 Use of GIS and Conceptual Mapping in Identification and
			1.5	, , , ,
				Monitoring of Natech Risks
				SP1.3 Aleksandar JOVANOVIC
				(European Virtual Institute for Integrated Risk Management)
			1.4	P1.4 RAPID-N: A Tool for Mapping Natech Risk Due to Earthquakes
				SP1.4 Serkan GIRGIN
				(EC Joint Research Center)
12:10	12:30			Discussion
12:30	13:30	Hall Level		Lunch
		Restaurant		
10.00	10.00			
13:30	18:30	Hall 5		SESSION II: Natech risk management (including emergency planning) -
				Best practices of industry and authorities
				Chair: C2 Christian JOCHUM
				(European Process Safety Center)
				Rapporteur: Elisabeth KRAUSMANN / Agnes VALLEE / Roland FENDLER
				(EC, Joint Research Center/ INERIS, France/ Federal Environment Agency,
				Germany)
13:30	15:10			II a Presentation 2.1 - 2.5.: Flood Risks
			II.1	P2.1 NATECH accidents in Czech Republic: Lessons learned and Related
				Research
				SP2.1 Pavel DANIHELKA
				(Technical University of Ostrava, Czech Republic)
			11.2	P2.2 The Flood 2002 - Experiences of a Hydrofluoric Acid Producing
				Plant
				SP2.2 Christian WEISS
				(Fluorchemie Dohna GmbH, Germany)
			11.3	P2.3 French Regulation for Integration of Natural Hazards in Industrial
				Safety Assessment - Choice of Reference Scenarios to
				Characterize these Natural Phenomena
				SP2.3 Cédric BOURILLET
				(French Ministry of Ecology, Sustainable Development, Transports and Housing)
			II.4	P2.4 Methodology for Integration of Flood Hazard in Industrial Safety
				Assessment
				SP2.4 Agnes VALLEE
				(Institute on Industrial Risk - INERIS, France)
			11.5	P2.5 The German Technical Rule for Process Safety: Prevention and
				Preparedness due to Hazards by Precipitation and Floods.
				SP2.5 Karl-Erich KOEPPKE
				(Dr. Köppke GmbH, Germany)
15:10	15:40	_		Discussion
15:40	16:10	Foyer		Coffee Break

Time		Room	Doc	
16:10	17:30			II b Presentation 2.6 - 2.10: Earthquake Risks
			11.6	P2.6 Natech Accidents due to the 11 March 2011 Earthquake and Tsunami
				and Follow up
				SP2.6 Yuji WADA
				(National Institute of Advanced Industrial Science and Technology (AIST),
				Japan)
			II.7	P2.7 Lessons from the Sendai Industrial Complex and Chiba's Cosmo Oil Refinery Fires Following the Great Eastern Japan Earthquake and Tsunami.
				SP2.7 Ana Maria CRUZ NARANJO
				(Consultant, Université de Bordeaux I)
			II.8	P2.8 The Natech Events During the 17 August 1999 Kocaeli Earthquake: Aftermath and Lessons Learned
				SP2.8 Serkan GIRGIN
				(EC Joint Research Center)
			11.9	P2.09 New French Seismic Regulation for Hazardous Industrial Facilities
				SP2.09 Adrien WILLOT
				(Institute on Industrial Risk - INERIS, France)
17:30	18:30			Discussion
10.00		0 (W (: 60 () 1 D
18:30		Conference Office 3.40		Meeting of Consultant and Rapporteurs
20:00	22:30	Hotel Rest.		Dinner - Reception at the Conference Hotel

Time		Room	Doc	
		1	1	Thursday, 24 th May 2012
08:30	11:00	Hall 5		SESSION II: Natech Risk Management (Including Emergency Planning) - Best Practices of Industry and Authorities - continued -
08:30	08:50			II c Presentation 2.10: other Hazards
			II.10	P2.10 Seveso Directive Plants Threatened by Bush Fires: Analysis on Several Reported Cases and Guidelines Proposal SP2.10. Jean-Paul MONET (French Fire and Emergency Management Service)
08:50	09:00			Discussion
09.00	10:20		II.11 II.12	II d Presentation 2.11 - 2.14: Methodology P2.11 Proposal of Methodology for Combined Natural and Technological Risks Identification and Assessment. SP2.11 Pavel DOBEŠ (Technical University of Ostrava, Czech Republic) P2.12 A Bow-tie for Natech: Approaching the Quantitative Assessment of Risk Associated to Natech Scenarios.
			II.13	SP2.12 Valerio COZZANI (University of Bologna, Italy) P2.13 The Challenge of Making 'Typical and Atypical' Major Hazard Szenarios in the Chemical Industry SP2.13 Richard GOWLAND (European Process Safety Center)
10:20	11:00		II.14	P2.14 Lessons Learnt from Natural Disasters SP2.14 Charles COWLEY (Center for Chemical Process Safety, USA) Discussion
11:00	11:30	Foyer		Coffee Break
11:30	13:30	Hall 5		SESSION III: Consideration of Climate Change in Natech Risk Management Chair: C3 Manfred STOCK (Potsdam Institute for Climate Impact Research (PIK), Germany) Rapporteur: Roland FENDLER / John BREWINGTON (Federal Environment Agency, Germany / Environment Agency, UK)
11:30	12:50		111.4	Presentation 3.1 - 3.4
			III.1	P3.1 New Results on Extreme Events SP3.1 Udo MELLENTIN (Saxon Agency for Environment, Agriculture and Geology)
			III.2	P3.2 Adaptation Measures of the Oil and Gas Industry SP3.2 Ana Maria CRUZ NARANJO (Consultant, Université de Bordeaux I)
			III.3	P3.3 Engagement of BASF in Adaptation to Climate Change SP3.3 Monika BAER (BASF AG)
			III.4	P3.4 National Grid's Climate Change Adaptation Journey SP3.4 Gary THORNTON (National Grid, UK)
12:50	13:30			Discussion
13:30	14:30	Hall Level Restaurant		Lunch

Time		Room	Doc	
14:30	15:30	Hall 5		SESSION IV: Application of the Polluter-Pays-Principle (PPP) to Natechs
				Chair: C4 Peter KEARNS (OECD)
				Rapporteur: Marie-Chantal HUET (OECD)
14:30	15:10			Presentation 4.1 - 4.2
			IV.1	P4.1 Polluter-Pays-Principle, Tort Law, Natural Catastrophes and
				Liability Insurance
				SP4.1 Christian LAHNSTEIN
			IV.2	(Munich Re, Germany) P4.2 Role of Insurance When the Polluter Pays
			14.2	SP4.2 Judith GOLOVA
				(MARSH Insurers, UK)
15:10	15:30			Discussion
15:30	16:00	Foyer		Coffee Break
16:00	19:00	Hall 5		SESSION V: International Co-operation on Natech Risk Management
10.00	17.00	lian 3		Chair: C5 Mark HAILWOOD (State Institute for Environment, Monitoring and
				Nature Conservation Baden-Württemberg)
				Rapporteur: René NIJENHUIS
				(UNEP/OCHA Environmental Emergencies Section)
16:00	17:00			V a Presentation 5.1 - 5.3 International Projects
			V.1	P5.1 Needs Assessment Study on Chemical Accidents Prevention and
				Preparedness in Region 8, Phillippines
				SP5.11 Jean C. BORROMEO
				(Philippine Department of Environment and Natural Resources)
			V.2	P5.2 Apell Process in Sri Lanka: Preparation of Integrated Emergency
				Preparedness Plans for Two Selected Industrial Zones
				SP5.12 Jayavilal FERNANDO
			W 2	(Central Environmental Authority, Sri Lanka)
			٧.3	P 5.3 Projects of the UNECE Convention of the Transboundary Effects of Industrial Accidents to Support Prevention, Preparedness and
				Response to Natechs
				SP5.3 Chris DIJKENS / Viginia Fuse
				(UNECE Chair of the Conference of the Parties / UNECE)
17:00	17:30			Discussion
17:30	18:10			V b Presentation 5.4 - 5.5 International Assistance
			٧.4	P5.4 International Chemical Environment
				SP5.4 Jos VERLINDEN
				(cefic)
			٧.5	P5.5 The Hazard Identification Tool (HIT) - a Tool to Identify and
				Address Secondary Environmental Risks
				SP5.5 Dennis BRUHN
			1	(OCHA Environmental emergencies section)
18:10	18:30			Discussion
10,00		Confession		Masting of Consultant and Done of the consultant
19:00		Conference		Meeting of Consultant and Rapporteurs
		Office 3.40		
19:00	20:30			Reception by the Government of Saxony
19.00	20.30			(at the Sächsische Staatskanzlei Archivstr.1 see: page 8)
				(at the Sachsische Staatskanzier Archivstr., see. page 6)

Time		Room	Doc				
Friday,	Friday, 25 th May 2012						
09:00	13:30	Hall 5		Conclusions and Recommendations Chair: Roland FENDLER (Federal Environment Agency, Germany) Rapporteurs			
09:00	09:30		S1	Presentation of C&R from Session I Discussion			
09:30	10:30		S2	Presentation of C&R from Session II Discussion			
10:30	11:00	Foyer		Coffee Break			
11:00	11:30		S3	Presentation of C&R from Session III Discussion			
11:30	12:15		S4	Presentation of C&R from Session IV Discussion			
12:15	13:00		S5	Presentation of C&R from Session V Discussion			
13:00			F	Farewell			
13:00				Transfer to Dresden Airport GFI Umwelt, Bonn, Germany			

A. Sächsische Staatskanzlei Archivstr 1 01097 Dresden

