
UN/OECD Workshop
Natech Risk Management
Natural Hazards Triggering
Technological Accidents
05 to 07 September 2018
Kongresshotel Potsdam, Germany



Refinery at Port Arthur 05. Sep. 2017 after Hurricane Harvey:
Foto Alexander John Glustrom

Programme

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Programme

Time		Room	
16:00	20:00	Foyer	Registration, distribution of badges and workshop documents adelphi, Berlin, Germany
19:00	20:00	Room 0-221	Meeting of the chairs, speakers, rapporteurs, consultant Roland FENDLER (German Environment Agency (UBA), Germany)
Wednesday 05th September 2018			
08:00	09:00	Foyer	Registration, distribution of badges and workshop documents adelphi, Berlin, Germany
09:00	10:30	Kongress- Saal	OPENING SESSION: Welcome & Introduction
			Georg ARENS (Federal Ministry for the Environment, Nature Conservation and Nuclear Safety Germany)
			Torill TANDBERG (Chair of the WGCA, OECD) (Norwegian Directorate Civil Protection, DSB)
			Jesper LUND (Chief of the Emergency Response Support Branch, United Nations Office for the Coordination of Humanitarian Affairs, OCHA)
09:20	09:40		KS1 Elisabeth KRAUSMANN (EU Joint Research Center) / Roland FENDLER (German Environment Agency (UBA), Germany): Natech Risk Man- agement in Context of the Sendai Framework, the Sustainable Devel- opment Goals (SDGs), and the OECD Guiding Principles on Chemical Accident Prevention, Preparedness, and Response
09:40	10:00		KS2 Nils SIMON (adelphi, Germany): Results of the OECD survey on Natech Risk Management
10:00	10:20		KS3 Karl-Erich KÖPPKE (University Düsseldorf, Germany) Presentation of the discussion document
10:20	10:30		Discussion
10:30	10:50	Foyer	Coffee Break
10:50	12:30	Kongress- Saal	SESSION I: Natech Risk Management in Industry: Understanding Natech Risks, Natech Risk Reduction Chair: Peter KEARNS Rapporteur: Serkan GIRGIN, Roland FENDLER
10:50	12:10		SP1.1 Valerio COZZANI (University Bologna, Italy): Natech Risk Manage- ment
			SP1.2 José Vicente AMÓRTEGUI (Escuela Colombiana de Ingeniería, Co- lombia): Risk Assessment of Hydrocarbon Pipelines Facing Natural Hazards
			SP1.3 Jaime ARISTIZABAL-CEBALLOS (CENIT SAS Transporte y Logística de Hidrocarburos, Colombia): Decision Making Based on the Evaluation of Different Scenarios of Occurrence of Geohazards and its Influe- nce on Colombian Pipeline Integrity
			SP1.4 Jojik TABATADZE (LEPL Emergency Management Agency of Emer- gency Management Service, Georgia): Natural and Man-Made Risks Management in Industry
12:10	12:30		Discussion
12:30	13:30		Lunch

Time		Room	
13:30	17:10	Kongress-Saal	SESSION II: Natech Risk Analysis Chair: C2 Elisabeth KRAUSMANN Rapporteur: Maire-Ange BAUCHER, Amos NECCI
13:30	14:50		Part I
			SP2.1 Charles KELLY (ProAct Alliance, USA): Impact Assessment and Managing Natech Hazards
			SP2.2 Ali SARI (Istanbul Technical University, Turkey): A Holistic Risk Assessment Method for Storage Tank Terminals Considering Domino Effects Triggered by Natural Hazards
			SP2.3 Serkan GIRGIN (EU Joint Research Center): Natech Risk Assessment and Mapping with RAPID-N
			SP2.4 Karl-Erich KÖPPKE (University Düsseldorf, Germany): Model for the estimation of debris flight and the potential damage of steel tanks by windborne missiles
14:50	15:10		Discussion
15:10	15:30	Foyer	Coffee Break
15:30	17:10		Part II
			SP2.5 Matthias ANDRES (Krätzig & Partner Ingenieurgesellschaft mbH, Germany): Technical Rules for Plant Safety (TRAS) 320: Safety of plants for hazards wind, snow and ice loads
			SP2.6 Takashi OHNO (The High Pressure Gas Safety Institute of Japan, Japan): Trend of Countermeasures against Large-Scale Earthquakes at High Pressure Gas Facilities in Japan
			SP2.7 Susumu ARAKI (Osaka University, Japan): Characteristic of Tsunami Wave Load on Cylindrical Storage Tank
			SP2.8 Tomoaki NISHINO (Kyoto University, Japan): Hazard Assessment of Tsunami-Induced Oil Spill Fires for Natech Risk Reduction in Built Environment in the Vicinity of Petroleum Industries at Osaka Bay, Japan
			SP2.9 Anneke RAAP (Ministry of Infrastructure and Water management): Measures due to flood hazards at Seveso-Sites in the Netherlands
17:10	17:30		Discussion
17:30	18:30		Serkan GIRGIN (EU Joint Research Center): Rapid-N Demonstration
17:30		Room 0-221	Meeting of Consultant and Rapporteurs
19:00	21:00	Restaurant Zeppelin 1	Dinner - Reception at the Conference Hotel

Time		Room	
Thursday 6th September 2018			
9:00	10:20	Kongress-Saal	SESSION III: Consideration of Climate Change in Natech Risk Management, Consideration of Natech Risks in Adaptation to Climate Change Chair: C3 Marisol ESTRELLA Rapporteur: Maire-Ange BAUCHER, Roland FENDLER
09:00	10:00		
			SP3.1 Fred Fokko HATTERMANN (Potsdam Institute for Climate Impact Research, Germany): Climate Change Impacts on Hydro-Meteorological Extremes - are there Robust Signals?
			SP3.2 Emma THOMSON (Environment Agency, England): ICCARP Exchange Project: Integration of Climate Change Adaptation into Regulatory Practice
			SP3.3 Gherman Alexandru BEJENARU (Tiraspol State University, Geographical Faculty, Moldova): Assessment of Annual Water Resources in Relation to Climate Change and Potential Natech Accidents. Case study - Republic of Moldova
10:00	10:20		Discussion
10:20	10:40	Foyer	Coffee Break
10:40	14:40	Kongress-Saal	SESSION IV: Warning Systems; Natech Emergency Planning, Preparedness, and Response Chair: C4 Ana Maria CRUZ Rapporteur: Maire-Ange BAUCHER, Elisabeth KRAUSMANN
10:40	11:40		Part I
			SP4.1 Amos NECCI (EU Joint Research Center): Natech Emergency Management
			SP4.2 Eteri SABANASHVILI (LEPL Emergency Management Agency of Emergency Management Service, Georgia): Natural Hazard in Georgia and Natech Emergency Planning
			SP4.3 Fatma LESTARI (Occupational Safety, Health & Environmental Unit Universitas Indonesia): ARDEX (ASEAN Regional Disaster Emergency Response Simulation Exercise) 2018 Scenario Development - Natech Disaster Risk Management
11:40	12:00		Discussion
12:00	13:00		Lunch
13:00	14:20		Part II
			SP4.4 Jair TORRES (UNESCO): Earthquake Early Warning Systems – a Real Solution for Reducing Natech Risk
			SP4.5 Serkan GIRGIN (EU Joint Research Center): Stage-Wise Approach to Natech Early-Warning and Alerting for Efficient Interoperability of Analysis Systems
			SP4.6 Andrew DEELSTRA (University of Victoria, Canada) Methodology for Estimation of Downtime for Natech Accidents
			SP4.7 Michael VATENMACHER (I-CEPA Ltd, Israel): Hazardous Materials Plants Post Earthquake Evaluation
14:20	14:40		Discussion

Time		Room	
14:40	16:00	Kongress-Saal	SESSION V: Follow-Up of Events, Event Analysis, Recovery, Rehabilitation, and Reconstruction Chair: C5 Serkan GIRGIN Rapporteur: Maire-Ange BAUCHER, Roland FENDLER
14:40	15:40		
			SP5.1 Kirsten KULINOWSKI (Chemical Safety Board, USA): Natech Case Histories
			SP5.2 Robert SCHMID (Munic Re, Germany): Why bother? It is insured!
			SP5.3 Tomoki MAEKAWA, Ana Maria CRUZ (Kyoto University, Japan): Simplified Modeling of an Oil Refinery Natech following the Great East Japan Earthquake Using Bayesian Network for Domino Effect
15:40	16:00		Discussion
16:00	16:20	Foyer	Coffee Break
16.20	18:00	Kongress-Saal	SESSION VI: Transboundary and International Cooperation Chair: C6 Franziska HIRSCH Rapporteur: Maire-Ange BAUCHER, Elisabeth KRAUSMANN
16.20	18:00		
			SP6.1 Rebecca WARDLE (UN ECE): UNECE Industrial Accidents Convention: Activities to support prevention of and preparedness for Natech events
			SP6.2 Septimus MARA (Ministry of Environment and Water of Romania): UNECE Industrial Accidents Convention: Transfrontier Hazard Maps prepared by Republic of Moldova, Romania and Ukraine (UNECE Project on Hazard and Crisis Management in the Danube Delta)
			SP6.3 Margherita FANCHIOTTI (UN Environment/OCHA Joint Unit): Providing International Assistance for Response to and Readiness for Natechs
			SP6.4 Ardak ZHANGUZHINOV (Central Asia Centre for Emergency Situations and Disaster Risk Reduction, CESDRR): Natechs and CESDRR
17:40	18:00		Discussion
18:30	20:00	Hotel Entrance	Tour to Potsdam
18:00		Room 0-221	Meeting of Consultant and Rapporteurs

Time		Room	
Friday 7th September 2018			
9:00	10:40	Kongress-Saal	SESSION VII: Communication and Education Chair: Roland FENDLER Rapporteur: Marie-Ange BAUCHER, Luisa SCHULTE
09:00	10:20		
			SP7.1 Pavel DANIHELKA (Faculty of Safety Engineering VSB – Technical University Ostrava, Czech Republic): Natechs, Education and Capacity Building
			SP7.2 María de Lourdes YDIRÍN ALONSO (National Center for Disaster Prevention, Mexico): National Risk Atlas: Tool for the Identification of Risk and Their Integral Management for Decision Making
			SP7.3 Yasuhito JIBIKI (International Research Institute of Disaster Research, Tohoku University, Japan): Clarifying the Relationship Between the Industry and the Local Community for building the Natech early warning system
			SP7.4 Ana Maria CRUZ (Disaster Risk Management Laboratory, Disaster Prevention Research Institute, Kyoto University, Japan): Natech risk communication: Increasing awareness for better disaster preparedness
10:20	10:40		Discussion
10:40	11:00	Foyer	Coffee Break
11:00	12:40	Kongress-Saal	SESSION VIII: Natech Risk Management in the Public Sector: Natech Risk Governance, Regulation, Enforcement, and Reduction Chair: C8 Vera GOLDSCHMIDT Rapporteur: Maire-Ange BAUCHER, Roland FENDLER
11:00	12:20		
			SP8.1 Amélie GAGNAIRE (Ministère de la transition écologique et solidaire (MTES)/DGPR, France): Ministerial Order of 4 th October 2010 on Earthquakes
			SP8.2 Raphaël CANDÉ (INERIS, France): Prevention of Natech Risks Due to Earthquakes at Seveso Establishments
			SP8.3 Francesco ASTORRI (ISPRA-Italian National Institute for Environmental Protection and Research): Natech Risk Management Activities at ISPRA - Italian National Institute for Protection and Environmental Research
			SP8.4 Maria Camila SUAREZ-PABA (Disaster Prevention Research Institute, Kyoto University, Japan): Current Natech Risk Management Status in the Colombian Context: An Overview
12:20	12:40		Discussion
12:40	13:00		Conclusions & Recommendations, Discussion Rapporteur in charge
13:00	13:15		Closing Remarks, Farewell Peter KEARNS (OECD)
13:15	14:00		Lunch
14:00		Hotel Entrance	Transfer to Airport Tegel adelphi, Berlin, Germany

General Note

This workshop is intended to exchange views and experiences on Natech risk management, to foster implementation and to discuss and distribute examples of good practices of Natech risk management strategies and instruments of industry and authorities.

It will be important to view such action in light of international frames such as

- ▶ the UN Sustainable Development Goals and targets¹,
- ▶ the Sendai Framework for Disaster Risk Reduction², and
- ▶ the second addendum to the OECD Guiding Principles for chemical accident prevention, preparedness and response (Natech-Addendum)³.

More information on the workshop, an outline, the programme, and logistical information are available at www.natech-workshop.de.

**Registration of participants should be
done not later than 27. August 2018
via**

[https://natech-workshop.de/registration-the-workshop-natech-risk-
management](https://natech-workshop.de/registration-the-workshop-natech-risk-management)

Please wait for confirmation!

The participation in the Workshop is free of charge; there will be no reimbursement of travelling costs. Travel arrangements shall be done by the participants. The language of the Workshop will be English.

If you have any questions please contact:
Roland.Fendler@uba.de or Schulte@adelphi.de

1. <http://www.unisdr.org/we/coordinate/sendai-framework>
2. <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>
3. [http://www.oecd.org/officialdocuments/publicdisplaydocumentpdf/?cote=env/jm/mono\(2015\)1&doclanguage=en](http://www.oecd.org/officialdocuments/publicdisplaydocumentpdf/?cote=env/jm/mono(2015)1&doclanguage=en)

Practical Information

Venue:



Kongress-Hotel Potsdam
Am Luftschiffhafen 1
D-14471 Potsdam



Arrival

Train

Take the S-Bahn (commuter train) or Regionalbahn (regional train) to "Potsdam Hauptbahnhof" and then (once an hour, 6 min ride) the regional train RB 23 bound for "Michendorf" and get off at "Potsdam-Pirschheide", then a 5-minute walk to the Kongresshotel Potsdam. before reaching the bridge, turn left and follow the hotel signs. The hotel is a 5-minute walk away.

or

Take the S-Bahn (commuter train) or Regionalbahn (regional train) to "Potsdam Hauptbahnhof" and then take tram 91 to the final stop "Bahnhof Pirschheide". Please follow signs to the hotel, which is a 5-minute walk away.

Airports

Berlin Schönefeld

Take the Regionalbahn (regional train) RB 22 from Berlin Schönefeld Airport to "Potsdam Charlottenhof" and then take tram 91 to the final stop "Bahnhof Pirschheide". The journey takes around 55 minutes. From "Bahnhof Pirschheide", it is a 5-minute walk to the Kongresshotel Potsdam. Please follow the hotel signs.

Berlin Tegel

Take bus 109 towards Zoologischer Garten and get out at "S-Bahnhof Charlottenburg". From there, take regional train RE1 to "Potsdam Hauptbahnhof". (Then see train or:) Then take bus 631 or tram 91 to "Luftschiffhafen". The journey takes around 60 minutes. From there it is a 5-minute walk to the Kongresshotel Potsdam. Please follow the hotel signs.

Rooms

Rooms for the workshop can be booked at the Kongresshotel by using the following [LINK](#).