

MIREMAR: Minimizing Risks for the Environment in Marine Ammunition Removal in the Baltic and North Sea

NABU, GRD, GSM: Conference Neumünster, Germany, 16. - 18. November 2010

MIREMAR: Tuesday, 16th November 2010

REGISTRATION | INTRODUCTION

8.00 TIME	REGISTRATION AUTHORS	TITLE
9.00	<i>Monika Krivickaite, Walther-Schücking-Institute for International Law, Kiel / Germany:</i>	Legal Aspects of Conventional and Chemical warfare dumped in the sea
9.30	<i>Gunnar Möller, COM Mine Warfare Data Center (C MWDC), 4th Naval Warfare Flotilla, Berga / Sweden</i>	The More we know, the Worse it gets – on the Situation of Conventional Ammunition in the Baltic Sea

10.00 - 10.30 COFFEE BREAK

TOPIC I: DETONATION OF CONVENTIONAL AMMUNITION

TIME	AUTHORS	TITLE
10.30	<i>Sven Koschinski, Marine Zoologist, Nehnten / Germany</i>	Impact of Underwater Detonations on Marine Vertebrates
10.50	<i>Jens Sternheim, State Office for Civil Protection and Disaster Control, Kiel / Germany</i>	Removal of Conventional Ammunition in WW II Ammunition Dump Site „Heidkate“ (Kiel Bight) – Progress and Mitigation
11.10	<i>Tanja Grießmann, Institute of Structural Analysis, University of Hannover / Germany</i>	Bubble curtains as a protective measure for marine animals in theory and practice
11.30	<i>Edgar Schmidtke, WTD71 – Research Department for Underwater Acoustics and Marine Geophysics, Eckernförde / Germany</i>	Damping of Shock Waves from Sea Mine Blasts to protect Marine Mammals – Results from Bubble Curtain Trials in Heidkate 2008 - 2010
11.50	<i>Tiina Salonen, Environmental Manager Finland, Nord-</i>	Nord Stream`s environmental mitigation & monitoring

	<i>Stream AG, Zug / Switzerland</i>	during munitions clearance in the Gulf of Finland
12.10	<i>Will Meurer, Royal Netherlands Navy, Diving and Ordnance Disposal Group René Dekeling, Defense Materiel Organisation & Department of Transportation, Public Works and Water Management, The Hague / The Netherlands</i>	An overview of disposal of ammunition in the Dutch section of the North Sea: present practice and development of safety measures

WELCOME ADDRESSES | DISCUSSION

12.30 *Heike Finke, Nature and Biodiversity Conservation Union (NABU), Berlin*

12.45 *Volker Dornquast, State Secretary for the Interior Schleswig-Holstein, Kiel*

13.00 – 14.30 LUNCH BREAK

14.30 DISCUSSION TOPIC I

TOPIC II: DETECTION

TIME	AUTHORS	TITLE
14.50	<i>Luigi Alcaro, Institute for Environmental Protection and Research (ISPRA), Rome /Italy</i>	Electro-Acoustical Survey of Mean Apulian Harbours (Italy) to Find Dumped Ammunitions: a Proposal of New Methodology
15.10	<i>Thomas Wever, Federal Office of Defense Technology and Procurement, Koblenz / Germany</i>	Sediment Information in North and Baltic Seas – Relevant for Ammunition Detection
15.30	<i>Uwe Wichert, State Office for Civil Protection and Disaster Control, Kiel / Germany</i>	Problems in Locating Historic Dumping Sites – Examples from the Baltic Sea

15.50 COFFEE BREAK

TOPIC III: DISPERSION OF CRITICAL SUBSTANCES, SEDIMENT

TIME	AUTHORS	TITLE
16.20	<i>Frederic Francken, MUMM, Royal Belgian Institute of Natural Sciences, Brussels / Belgium</i>	Dispersion of Critical Substances from Dumped Ammunition in Marine Sediments on

	(Co-authors: Kevin Ruddick and Patrick Roose)	Paardenmarktsite, Belgium
16.40	<i>N.N.</i>	Ecotoxicology of Substances from Dumped Ammunition
17.00 - 17.30	<i>Patrick McLaren, GeoSea Consulting, Brentwood Bay / Canada</i>	Minimizing Risk by Understanding Your Environment: or “Why Use STA® (Sediment Trend Analysis)?” – a Case Study from the Lac Saint Pierre Experimental Firing Range, Quebec

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PRESS CONFERENCE | TOPIC IV: RECOVERY OF CONVENTIONAL AMMUNITION

PRESS CONFERENCE

9.30 - 10.00

Press Officer Kathrin Klinkusch, NABU, Berlin

TIME

AUTHORS

TITLE

8.30

Christel Meert, Royal Military Academy, Dept of Chemistry, Brussels / Belgium

Analysis of a Munition-like Item Retrieved from the North Sea

(Co-author: Francis Kerckhof)

8.50

Franz Eder, ANT AG, Lübeck / Germany

Recovery of conventional Marine Ammunition using Salvage Robots and Water Abrasive Suspension Jet Cutting (See also: Practical Demonstration on 3rd Day of the Conference)

9.10

Frank Bargmann, Séché global solutions / UTM GmbH, Lübeck / Germany

Recovery and Safe Transport of Chemical and Conventional Marine Ammunition Using Salvage Robots and Explosion Proof Reactors

9.30

Fritz Pfeiffer, Office for

Photolytic Treatment of

	<i>Environmental Geology & Security Research, Marburg / Germany</i>	Explosives using Sunlight, a possible Solution for Heidkate Ammunition Dump?
9.50	<i>Erika Brandenburg, Concurrent Technologies Corp. Jacksonville / USA</i>	Parameters for Selecting a Munitions Recovery Technology

10.10 COFFEE BREAK

TOPIC V: CHEMICAL WARFARE

10.50	<i>John Hart, Chemical and Biological Security Project, Arms Control and Non-proliferation Programme SIPRI Solna /Sweden</i>	Introduction to Historic, Technological, Political and Environmental Aspects of Chemical Warfare
11.20	<i>Jonathan Mills, OPCW, The Hague, The Netherlands</i>	Sea-dumped Chemical Weapons and the CWC (working title)
11.50	<i>Thomas Stock, Dynasafe Germany GmbH, Mülheim / Germany</i>	Destruction of Old Chemical Weapons – Technologies under Application
12.10	<i>Vadim T. Paka, Atlantic Branch, P. P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Kaliningrad, Russia</i>	Clean-up of the Bornholm CW Dumpsite: Towards the Optimum Decision
12.30	<i>Luigi Alcaro, Institute for Environmental Protection and Research (ISPRA), Rome /Italy</i>	Environmental Effects of Chemical Ammunitions Dumped in the Southern Adriatic Sea (Italy)
12.50	LUNCH BREAK	

	Margo Edwards, School of Ocean and Earth Science and Technology, University of Hawaii, Honolulu, Hawaii / USA	Locating and Evaluating Sea Disposed Munitions -
14.20	(Co-authors: Roy Wilkens, Christopher Kelley, Eric DeCarlo, Kathryn Macdonald, Sonia Garcia, Michael Van Woerkom, Zachary Payne, Vilma Dupra, Matt Rosete, Miya Cox, Stacey Fineran, Weixi Zheng, J. C. King and	Examples from the Hawaii Undersea Military Munitions Assessment (HUMMA) Project

Geoff Carton)

14.40 DISCUSSION

15.10 COFFEE BREAK

TOPIC VI: POLITICAL DIMENSION

TIME	AUTHORS	TITLE
15.40	<i>Terrance P. Long (keynote speaker), Chairman of the International Dialogues on Underwater Munitions, USA</i>	An International Approach to Underwater Munitions
16.20	<i>Sebastian Unger, OSPAR Commission, London / UK</i>	Conventional and chemical Munitions in the North-East Atlantic – the Approach of the OSPAR Commission
16.40	<i>Minna Pyhälä, HELCOM, Helsinki / Finland</i>	Conventional and chemical Munitions in the Baltic Sea – the Approach of the Helsinki Commission (HELCOM)
17.00	<i>Kim Detloff, Nature and Biodiversity Conservation Union NABU, Berlin / Germany</i>	Marine Ammunition in the Sight of NGOs
17.20	GENERAL DISCUSSION	

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DEMONSTRATIONS / WORKSHOPS / EXCURSION

9.00 - PRACTICAL DEMONSTRATIONS (outside of the conference building)

- Water Abrasive Suspension (WAS) cutting (ANT Applied New Technology AG, Lübeck/Germany)
- Salvage Robots and Explosion Proof Reactors (Séché global solutions / UTM GmbH, Lübeck/Germany)

10.00 - WORKSHOPS

- Databases

- Funding of joint projects
- Combination of Technical Solutions, from Detection to Removal
- Nature conservation and ammunition
- Mitigation of Shock Waves from Detonations
- Chemical DMM – Still a WMD Threat?

16.00 Presentation of workshop results

10.15 – 13.45 and 12.15 – 15.45 EXCURSION

Excursion to Explosive Ordnance Disposal „Groß Nordsee” near Kiel Canal (max. 40 participants each; add € 10 'extra fee')

17.00 END OF CONFERENCE

OBJECTIVES

Large quantities of conventional ammunition (explosives) and chemical warfare have been deployed or dumped into Baltic and North Seas during and after World Wars I and II. It is still unclear what risks they pose to humans and the environment. The aim of the conference is to give an overview of the situation and actual developments in treatment of underwater unexploded ordnance. Identification of best practice and best available technique is a central objective of the conference. Workshops on the third day may help to establish a network of actors in order to initiate research, development or trials of new technologies.

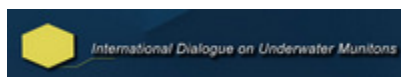
CO-OPERATING PARTNERS



State Office for Civil Protection and Disaster
Control, Schleswig-Holstein



Marine Services, UXB International, Canada



International Dialogue on Underwater

Munitions, Canada

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