

**Wednesday, 2nd May 2018****Opening Session + Session I**08:00 – 12:00  
**Room: Fehmarn**

Meeting of the Expert Panel „Munition im Meer“ I

**10:00 – 12:00** **Registration + Coffee****12:00 – 13:00** **Lunch****Opening Session**

Chair: Prof. Jens Greinert, GEOMAR

**Welcome and Introduction****Room: Großer Saal**13:00 **Prof. Dr. Jens Greinert**, GEOMAR*Welcoming Words and Introduction*13:05 **Udo Bünnagel**, Head of Schleswig-Holsteins' representation to the German Federal Government*Welcoming Words*13:20 **Uwe Wichert**, BLANO EK Munition*Historical Background about Dumping area Kolberger Heide*13:35 **Jens Sternheim**, MELUND*From WWII until today – munition in the sea in politics*13:50 **Dr. inż. Benedykt Hac**, Maritime Inst. Gdansk*UXO in Polish EEZ*14:05 **Prof. Dr. Sunhild Kleingärtner**, Director of German Marine Museum*Munition-loaded Shipwrecks and their ecological effects*14:20 **Jann Wendt**, EGEOS GmbH*Ammunition Cadastre Sea: Combining actual technology, archival documents and contemporary surveys to increase marine safety*14:35 **Terrance P. Long**, IDUM*Global aspects of underwater munitions***14:50 – 15:45** **Coffee Break****Session I**

Chair: Prof. Jens Greinert, GEOMAR

**Munition Detection and Visualization****Room: Großer Saal**15:45 **Cdr. Martin Schwarz**, SNMCMG 1*SNMCMG1 in HOD (Historic Ordnance Disposal)*16:00 **Simon Jost**, Fraunhofer IGD*Project MUNITECT*16:15 **Wolfgang Süß**, SENSYS GmbH*Compact Magnetometer based UXO survey solutions*16:30 **M.Sc. Mareike Kampmeier**, GEOMAR*High-resolution multibeam echosounder data for munition detection and dumpsite characterization*16:45 **M.Sc. Milosz Grabowski**, IOPAS*Detection and visual inspection of dumped munition in the Southern Baltic Sea – DAIMON*17:00 **Cdr. Dr. Bartłomiej Pączek**, Polish Naval Academy*Geographical Information System of chemical munition dumped in the Baltic Sea*17:15 **John Aa. Tørnes**, FFI*Localization of dumped munition outside Norway*17:30 **Dieter Guldin**, SeaTerra*UXO Survey and clearance Operations at the North and Baltic Sea. SeaTerra 2016/2017***18:00 – 21:00** **Social Gathering in the Atrium**

Thursday, 3rd May 2018

Session II + III

**Session II**

Chair: Dr. Ulf Gräwe, IOW

**Distribution of explosive compounds**

Room: Großer Saal

09:00 **Armin Keßler**, Fraunhofer ICT*Safety Properties of Sea Aged Explosives*09:15 **Dr. Aaron Beck**, GEOMAR*Widespread environmental contamination from undersea munitions in the southwest Baltic Sea*09:30 **Dr. Anja Eggert**, IOW*Transport and fate of toxic constituents of dumped munitions in the western Baltic Sea*09:45 **Dr. Nicolas Estoppey**,  
University Lausanne*Assessment of passive sampling for the monitoring of explosives residues in surface water*10:00 **Dr. Ing. Peter Menzel**,  
University Rostock*Current- And Wave-Induced Loads On Mobile Objects On The Seafloor*10:15 **Dr. Chris Jenkins**, University Colorado  
Boulder & University Rostock*Understanding better: The Problem of UXO Migration in the North Sea*10:30 **Dr. inż. Benedykt Hac**,  
Maritime Inst. Gdansk*Dangerous wrecks of Gulf of Gdansk - fuel and UXO on wreck 'Franken'*

10:45 – 11:30

**Coffee Break****Session III**

Chair: Prof. Eric Achterberg, GEOMAR

**Biological and Toxicological Impacts of explosive compounds**

Room: Großer Saal

11:30 **M.Sc. René Janßen**, IOW*NGS-based environmental molecular monitoring demonstrated on the Kolberger Heide munition dumping site*11:45 **Prof. Dr. Edmund Maser**,  
Toxicology CAU Kiel*Biomonitoring of 2,4,6-trinitrotoluene and degradation products in the marine environment with transplanted blue mussels (*M. Edulis*)*12:00 **Dr. Matthias Brenner**, AWI*Biological effects of dumped warfare agents on the Baltic mussel *Mytilus* spp.; first results from field and lab exposure studies*

12:30 – 13:30

**Lunch**13:30 **Dr. Ulf Bickmeyer**, AWI*Toxicity of the TNT derivatives 2ADNT and 4ADNT on the marine flatworm *Macrostomum lignano* raised in the laboratory*13:45 **Dr. Edyta Łońska**,  
Polish Naval Academy*Possible microbial corrosion on ammunition dumped in the Baltic Sea as a result of the presence of sulphate-reducing bacteria*14:00 **M.Sc. Katharina Straumer**,  
Thünen Institute*Studies of the health status of dab (*Limanda limanda*) from a dumpsite of conventional munitions in Kiel Bight, Baltic Sea*

**Continuation of Session III****Room: Großer Saal**14:15 **M.Sc. Daniel Koske**, Thünen Institute*In-vitro effects of TNT on fish liver enzymes*14:30 **M.Sc. Michal Czub**, IO PAS*Aquatic acute toxicity of selected CWA parent-compounds***15:00 – 15:30 Coffee Break****Session IV****National and International Strategies**

Chair: Claus Böttcher, MELUND

**Room: Großer Saal**15:30 **Jens Sternheim**, MELUND*Presentation of the German program on underwater munitions and international activities*15:45 **Prof. Dr. Matthias Reuter**, TU Clausthal*Introducing the decisions aid tool, developed in DAIMON*16:00 **M. A. Torsten Frey**, Wifa Uni Leipzig*Towards a Coordinated European Quality Initiative for the Treatment of UXO*16:15 **Dipl. Ing. Katarzyna Fidler**,  
Biuro Projektów Fidler*BLIMP: Baltic Platform for the Management of Hazardous Marine Bottom Litter*16:30 **Dr. Tine Missean**, VLIZ*Past, present and future approach for the Paardenmarkt, a WW1 chemical dumpsite off the Belgian coast***Public Evening Session**

(in German language with English translation)

Moderator: Udo Biss (NDR)

**Room: Großer Saal**18:00 **Ingbert Liebing**, Staatssekretär,  
Bevollmächtigter des Landes S-H beim Bund*Begrüßung*18:05 **Jens Sternheim**, MELUND*Thematisch Einleitung in den Abend*18:10 **Uwe Wichert**, BLANO EK Munition*Militärhistorische Rekonstruktion des Munitionsversenkungsgebietes Kolberger Heide*18:25 **Kim Detloff**, NABU*Gefährliches Erbe: Munitionsaltlasten in Nord- und Ostsee; Fakten - Folgen - Lösungsansätze*18:40 **Dr. Edgar Schmidtke**, WTD71*Über den Einsatz eines Luftblasenschleiers bei der Räumung von Altmunition*19:55 **Prof. Dr. Jens Greinert**, GEOMAR*Umweltmonitoring für Munition im Meer (UDEMM)***Panel Discussion**

(in German language with English translation)

Moderator: Udo Biss (NDR)

**Room: Großer Saal**

19:10

*Kim Detloff (NABU), Prof. Dr. Jens Greinert (GEOMAR), Prof. Dr. Edmund Maser (Toxicology CAU Kiel), Jens Sternheim (MELUND)***From 19:30 Snacks, drinks and further dialogues**

## Friday, 4th May 2018

## Workgroup Sessions

9:00 – 11:00 <b>Room: Fehmarn</b>	<i>JPIO Prediscussions Oslo meeting - Jens Greinert</i>
9:00 – 17:00 <b>Room: Helgoland</b>	<i>HELCOM SUBMERGED – Jens Sternheim/Jorma Rytkönen</i> <i><u>Please pre-register via <a href="http://www.helcom.fi">www.helcom.fi</a></u></i>
9:00 – 13:30 <b>Room: Oberdeck</b>	<i>German Expert Group – Joachim Wöhler/Dr. Tobias Knobloch</i> <i><u>On invitation only</u></i>
<b>11:00 – 11:30 Coffee Break</b>	
11:30 – 13:30 <b>Room: Glaskubus</b>	<i>ISTAB-SDG 14 Ocean Clean-up – Terry Long</i>
11:30 – 13:30 <b>Room: Schleswig-Holstein Zimmer</b>	<i>UDEM Best Practice Guide – Jens Greinert</i> <i><u>UDEM partners only</u></i>
11:30 – 13:30 <b>Rooms: Oberdeck / Fehmarn</b>	<i>Ad-hoc working groups</i>
13:30 – 14:00 <b>Room: Großer Saal</b>	<i>Presentation of Results + Closing Session</i>
<b>14:00 – 15:00 Late Lunch and Farewell</b>	

