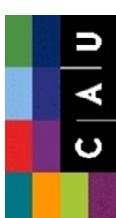




maritime cluster
norddeutschland



SESSION PROGRAMME

2nd - 4th
May 2018

<https://udemmm.geomar.de>

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Jens Sternheim
www.munition-im-meer.de

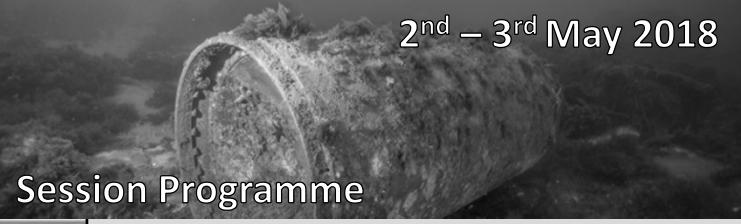
Auflage: 280 Stück

**INTERNATIONAL SYMPOSIUM
for
sea-dumped munition and UXO**

2nd May 2018

Session Programme

Wednesday, 2nd May 2018	Opening Session + Session I
08:00 – 12:00	Meeting of the Expert Panel „Munition im Meer“ Room Fehmarn
	10:00 – 12:00 Registration + Coffee Foyer
	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	<i>Welcoming Words and Introduction</i>
13:05 Udo Bünnagel , Head of Schleswig-Holstein's representation to the Federal Republic of Germany	<i>Welcoming Words</i>
13:20 Uwe Wichert , BLANO EK Munition	<i>Historical Background about Dumping area Kolberger Heide</i>
13:35 Jens Sternheim , MELUND	<i>From WWII until today – munitions in the sea in politics</i>
13:50 Dr. inż. Benedykt Hac , Maritime Inst. Gdansk	<i>UXO in Polish EEZ</i>
14:05 Prof. Dr. Sunhild Kleingärtner , Director of German Marine Museum	<i>Munition-loaded Shipwrecks and their ecological effects</i>
14:20 M.Sc. Jann Wendt , EGEOS GmbH	<i>Ammunition Cadastre Sea: Combining actual technology, archival documents and contemporary surveys to increase marine safety</i>
14:35 Terrance P. Long , IDUM	<i>Global aspects of underwater munitions</i>
	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	<i>SNMCMG1 in HOD (Historic Ordnance Disposal)</i>
16:00 M.Sc. Simon Jost , Fraunhofer IGD	<i>Project MUNITECT</i>
16:15 Dipl.-Ing. Wolfgang Süß , SENSYS GmbH	<i>Compact Magnetometer based UXO survey solutions</i>
16:30 M.Sc. Mareike Kampmeier , GEOMAR	<i>High-resolution multibeam echosounder data for munition detection and dumpsite characterization</i>
16:45 M.Sc. Milosz Grabowski , IOPAS	<i>Detection and visual inspection of dumped munition in the Southern Baltic Sea – DAIMON</i>



2nd – 3rd May 2018

INTERNATIONAL SYMPOSIUM
for
sea-dumped munition and UXO

Session Programme

Continuation of Session I

Room: Großer Saal

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

Distribution of explosive compounds

Chair: Dr. Ulf Gräwe, IOW

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**, Uni Lausanne

*Assessment of passive sampling for the monitoring
of explosives residues in surface water*

10:00 **Dr. Ing. Peter Menzel**, Uni Rostock

*Current- and Wave-Induced Loads On Mobile
Objects On The Seafloor*

10:15 **Dr. Chris Jenkins**, University
Colorado Boulder & Uni 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 Gdańsk - fuel and
UXO on wreck 'Franken'*

10:45 – 11:30 Coffee Break

Session III

**Biological and Toxicological Impacts of
explosive compounds**

Chair: Prof. Eric Achterberg, GEOMAR

Room: Großer Saal

11:30 **M.Sc. René Janßen**, IOW

*NGS-based environmental molecular
monitoring demonstrated on the Kolberger Heide
munition dumping site*

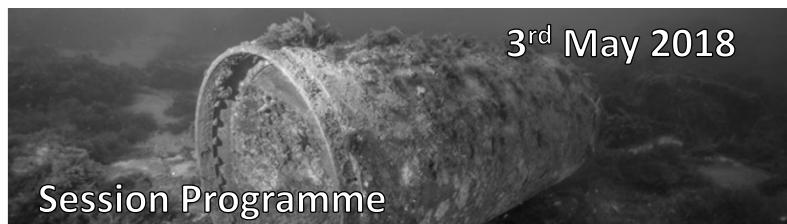
11:45 **Prof. Dr. Edmund Maser**,
Toxicology CAU Kiel

*Biomonitoring of 2,4,6-trinitrotoluene and
degradation products in the marine environment
with transplanted blue mussels (*M. Edulis*)*

**INTERNATIONAL SYMPOSIUM
for
sea-dumped munition and UXO**

3rd May 2018

Session Programme



Continuation of Session III

Room: Großer Saal

- 12:00 Dr. Matthias Brenner, AWI *Biological effects of dumped warfare agents on the Baltic Sea 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 2-ADNT and 4-ADNT 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*

- 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

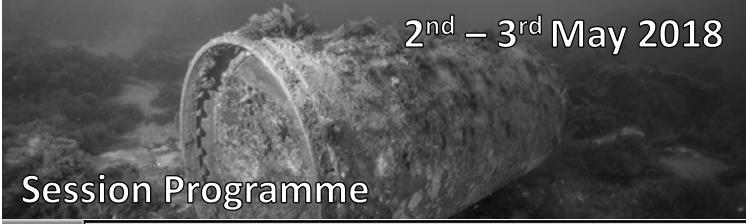
- 15:30 Jens Sternheim, MELUND *Presentation of the German program on underwater munitions and international activities*

- 15:45 Prof. Dr. Dr. Matthias Reuter,
Technical University Clausthal *Introducing the decisions support system, developed in DAIMON*

- 16:00 M. A. Torsten Frey,
Wifa Universität 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 Misseean, VLIZ
(Flanders Marine Institute – Platform for Marine Research) *Past, present and future approach for the Paardenmarkt, a WW1 chemical dumpsite off the Belgian coast*



2nd – 3rd May 2018

INTERNATIONAL SYMPOSIUM
for
sea-dumped munition and UXO

Session Programme

Public Evening Session

Moderator: Udo Biss (NDR)

(German with English translation)

Room: Großer Saal

18:00 Ingbert Liebing , Staatssekretär, Bevollmächtigter des Landes Schleswig-Holstein beim Bund	<i>Begrüßung</i>
18:05 Jens Sternheim , MELUND	<i>Thematische Einleitung in den Abend</i>
18:10 Uwe Wichert , BLANO EK Munition	<i>Militärhistorische Rekonstruktion des Munitionsversenkungsgebietes Kolberger Heide</i>
18:25 Kim Detloff , NABU	<i>Gefährliches Erbe: Munitionsaltlasten in Nord- und Ostsee; Fakten - Folgen - Lösungsansätze</i>
18:40 Dr. Edgar Schmidtke , WTD71	<i>Über den Einsatz eines Luftblasenschleiers bei der Räumung von Altmunition</i>
19:55 Prof. Dr. Jens Greinert , GEOMAR	<i>Umweltmonitoring für Munition im Meer</i>

Panel Discussion

Moderator: Udo Biss (NDR)

(German with English translation)

Room: Großer Saal

19:10	<i>Kim Detloff (NABU), Prof. Dr. Jens Greinert (GEOMAR), Prof. Dr. Edmund Maser (Toxicology CAU Kiel), Jens Sternheim (MELUND)</i>
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From 19:30 Snacks, drinks and further dialogues

Friday, 4th May 2018

Workgroup Sessions

9:00 – 11:00 Room: Fehmarn	<i>JPIO Prediscussions Oslo meeting - Jens Greinert</i>
9:00 – 17:00 Room: Helgoland	<i>HELCOM SUBMERGED – Jens Sternheim/ Jorma Rytönen <u>Please pre-register via www.helcom.fi</u></i>
9:00 – 13:30 Room: Oberdeck	<i>German Expert Group – Joachim Wöhler/ Dr. Tobias Knobloch <u>On invitation only</u></i>

11:00 – 11:30 Coffee Break

11:30 – 13:30 Room: Glaskubus	<i>ISTAB-SDG 14 Ocean Clean-up – Terry Long</i>
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11:30 – 13:30 Schleswig-Holstein Zimmer	<i>UDEMm Best Practice Guide – Jens Greinert <u>UDEMm partners only</u></i>
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11:30 – 13:30 Rooms: Oberdeck/Fehmarn	<i>Ad-hoc working groups</i>
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13:30 – 14:00 Room: Großer Saal	<i>Presentation of Results + Closing Session</i>
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14:00 – 15:00 Late Lunch and Farewell

ABBREVIATIONS

ADNT	Amino-Dinitrotoluene (2-ADNT, 4-ADNT)
AWI	Alfred Wegener Institute, Helmholtz-Centre for Polar and Marine Research, Bremerhaven
BLANO	Bund/Länder-Ausschuss Nord- und Ostsee
CWA	Chemical warfare agents
DAIMON	Decision Aid for Marine Munitions (www.daimonproject.com)
FFI	Norwegian Defence Research Establishment
Fraunhofer ICT/IGD	Fraunhofer Institute for Chemical Technology (ICT)/ Fraunhofer Institute for Computer Graphics Research (IGD)
GEOMAR	GEOMAR – Helmholtz-Centre for Ocean Research Kiel
HELCOM	Baltic Environment Protection Commission (www.helcom.fi)
IDUM	International Dialogue on Underwater Munitions
IO PAS	Institute of Oceanography, Polish Academy of Sciences
ISTAB	International Scientific and Technology Advisory Board (IDUM)
IOW	Leibniz Institute for Baltic Sea Research, Warnemünde
JPIO	Joint Programming Initiative Healthy and Productive Seas and Oceans
MELUND	Ministry of Energy, Agriculture, the Environment, Nature and Digitization
NABU	Nature and Biodiversity Conservation Union, Germany
NATO	North Atlantic Treaty Organization
OPCW	Organization for the Prohibition of Chemical Weapons
RoBEMM	Robotic underwater salvage and disposal process with the technology to remove explosive ordnance in the sea, in particular in coastal and shallow waters
SDG-14	Sustainable Development Goal -14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development
SNMCMG1	Standing NATO Mine Countermeasures Group 1
TNT	Trinitrotoluene
UDEMM	Environmental monitoring for the delaboration of munitions on the seabed
UXO	Unexploded ordnance
WTD 71	German Armed Forces – Bundeswehr Technical Center for Ships and Naval Weapons, Maritime Technology and Research



MANY THANKS TO OUR ORGANIZERS AND SPONSORS :



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Verkehr, Arbeit, Technologie
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