

MAIN IDUM 1 – 3 OCTOBER, 2012
FOURTH INTERNATIONAL DIALOGUE ON UNDERWATER MUNITIONS (IDUM)

SUNDAY, SEPTEMBER 30, 2012		
5:30pm to 6:30 pm	<p>REGISTRATION NOTE: VISA cannot be processed on site for registration, VISA Checks welcomed</p>	Board Walk
6:00 pm to 8:00 pm	<p>EVENING RECEPTION Sponsored by: VRHABILIS</p>	
MONDAY, OCTOBER 1, 2012		
7:00 am to 9:00 am	<p>REGISTRATION & NETWORKING (Dress Business Casual) IDUM Secretary: Ms. Anna Sosnowska, Specialist, Chief Inspectorate of Environmental Protection, Poland</p>	Grand Foyer
9:00 am to 10:15 am	<p>OPENING CEREMONIES [Grand Ballroom]</p> <p>Moderator: Mr. Jean Pierre Savelkoels, aDeDe, Antwerp, Belgium</p> <p>Welcoming Remarks from Secretary of State Honorable Kenneth McClintock Hernández Secretary of State for Puerto Rico</p> <p>Chairmen’s Opening Remarks Mr. Terrance P. Long, Chairman, IDUM</p> <p>Co-Chairmen’s Opening Remarks Dr. Andrzej Jagusiewicz, Chief Inspector of Environmental Protection, Poland & Polish Head of Delegation to Helsinki Commission</p> <p>Welcoming Remarks from the Government of Lithuania AMBASSADOR VAIDOTAS VERBA Ambassador of the Republic of Lithuania Permanent Representative to The Organization For Prohibition of Chemical Weapons (OPCW), The Netherlands.</p> <p>Speaker, President of the College of Physicians and Surgeons of Puerto Rico Dr. Eduardo Ibarra Ortege</p> <p>Speaker, Resident of Vieques Mrs. Myma Pagan</p>	Grand Ballroom

	<p>Keynote Address HONORABLE KATHERINE HAMMACK Assistant Secretary of the Army (Installations; Energy & Environment) Office of the Assistant Secretary of the Army Washington, DC</p>	
10:15 am to 10:30 am	BREAK & NETWORKING	
	PLENARY SESSION 1	
10:30 am to 12:00 pm	<p>CHAIR: Dr. Thomas Stock, ISAB</p> <p>COUNTRY & REGIONAL REPORTS <i>Research Effort to Locate Military Munitions Disposal Sites World Wide</i>, Mr. Rick Stauber, Training Department, Developer/EOD SME, NCI Information Systems, Inc., Contractor Supporting, EOD Directorate, Ft. Lee, VA</p> <p><i>CMW and UXO Ocean Dumpsites, Gulf of Mexico</i>, Dr. William R Bryant, Department of Oceanography, Texas A&M University, College Station</p> <p><i>Project Underwater munitions, Government of the Federal State of Schleswig-Holstein, GERMANY, Munitions in German Marine Waters – moving forwards requires acting in concert</i>, Dipl-Ing. (FH) Claus Boettcher</p> <p>Helle K Rossland, Norwegian Defence Research Establishment (FFI) Preliminary Investigation of Contamination From Underwater Munitions in Norway</p>	Grand Ballroom
12:00 pm to 1:00 pm	<p>LUNCH</p> <p>Moderator: Tom Rancich, VRHABILIS</p> <p>KEYNOTE SPEAKERS Dr. Tobias Knobloch, Federal Maritime and Hydrographic Agency, Germany, M.Sc. Life Science, German representative to Ad Hoc Working Group on Chemical Weapons in the Baltic Sea of the Helsinki Commission (HELCOM MUNI)</p> <p>Dr. James W. Porter, Meigs Professor of Ecology Odum School of Ecology, University of Georgia, Athens, GA Human and Environmental Health Issues Associated with UWUXO on Vieques.</p>	Caribbean Ballroom

1:00 pm to 2:00 pm	<p style="text-align: center;">PLENARY SESSION 2 Grand Ballroom</p> <p>WORKING GROUPS DRAFT REPORTS</p> <p>CHAIR: Mr. Terrance P. Long, Chairman, IDUM</p> <p>SCIENCE WORKING GROUP</p> <p>CHAIR: Dr. Paul Walker, Global Green, USA and Co-CHAIR: Dr. Tobias Knobloch, Federal Maritime and Hydrographic Agency, Germany, M.Sc. Life Science, German representative to Ad Hoc Working Group on Chemical Weapons in the Baltic Sea of the Helsinki Commission (HELCOM MUNI)</p> <p>POLICY WORKING GROUP</p> <p>CHAIR: Ms. Malgorzata Ochorok-Jedynak, Senior Specialist, Chief Inspectorate of Environmental Protection, Poland and</p> <p>TECHNOLOGY AND POTENTIAL RESPONSES WORKING GROUPS</p> <p>CHAIR: Gary Willmore, President, WaveCrest Offshore Solutions Inc., USA, and Director IDUM, USA and Co-CHAIR: Dr. Thomas Stock, Dynasafe & ISAB, The Hague</p>
2:00 pm to 3:15 pm	<p style="text-align: center;">PLENARY SESSION 3 Grand Ballroom</p> <p>CHAIR: Dr. Thomas Stock, Dynasafe, ISAB, The Hague</p> <p>Effects of Military Activities and Environmental Contamination on the Island of Sardinia, Helen Jaccard, Veterans For Peace</p> <p>Military Munitions Policy and US Environmental Law, Steven B. Pollack, Attorney, II, USA</p> <p>US Policy Relating Munitions in the Underwater Environment, J. C. King, COL (R) US Army, Director for Munitions and Chemical Matters ODASA (ESOH) Pentagon</p>
3:15 pm to 3:30 pm	<p>BREAK & NETWORKING</p>

<p>3:30 pm to 4:45 pm</p>	<p>Overview of the Vieques Restoration Program to Address Underwater Munitions, Dan W. Waddill, PE, PhD, Vieques Restoration Branch Head, Naval Facilities Engineering Command, NAVFAC Atlantic</p> <p>Operations Office Integrating Endangered Species Concerns in the Analysis of Underwater Munitions Site Clean Up Priorities, Dr. Lisamarie Carrubba, NOAA/National Marine Fisheries Service, Caribbean Field Office, Protected Resources Division</p> <p><i>NOAA's Projects on Vieques Island, Puerto Rico</i>, Diane E. Wehner, NOAA Office of Response and Restoration</p> <p>The fishy and untold stories of bomb-cratered coral reefs in the forgotten Culebra Island, Puerto Rico: From social injustice and massive destruction, to community-based ecological rehabilitation, Edwin A. Hernández-Delgado*1, Julio Oms-Hernández1,2, Mary Ann Lucking3, & Samuel E. Suleimán-Ramos3. University of Puerto Rico, Center for Applied Tropical Ecology and Conservation, Coral Reef Research Group</p>
	<p style="text-align: center;">PLENARY SESSION 4</p> <p style="text-align: center;">Grand Ballroom</p>
<p>4:45 pm to 6:00 pm</p>	<p>CHAIR: Terrance Long</p> <p>Panel Discussion: <i>Puerto Rico and the Caribbean Islands</i> <i>A Opportunity to Consider Remediation Based On Human Health and Environmental Concerns</i></p> <p>Dr. James Porter, Meigs Professor of Ecology, Odum School of Ecology</p> <p>Paul F. Walker, Ph.D., Global Green, USA, ISAB, The Hague</p> <p>Helen Jaccard, Veterans For Peace</p> <p>Mary Ann Lucking, University of Puerto Rico, Center for Applied Tropical Ecology and Conservation, Coral Reef Research Group (TBC)</p> <p>Dan W. Waddill, PE, PhD, Vieques Restoration Branch Head, Naval Facilities Engineering Command, NAVFAC Atlantic</p> <p>Diane E. Wehner, NOAA Office of Response and Restoration, <i>NOAA's Projects on Vieques Island, Puerto Rico</i></p> <p>Edwin A. Hernández-Delgado, University of Puerto Rico, Center for Applied Tropical Ecology and Conservation, Coral Reef Research Group (TBC)</p> <p>Additional panelists to be announced</p>

TUESDAY, 2, OCTOBER, 2012

7:00 am to 8:00 am	NETWORKING (Dress Business Casual)		Grand Foyer
8:00 am to 10:00 am	SESSION 1 - BREAKOUT		
	Grand Ballroom	Atlantic Ballroom	
	<p>CHAIR: Diane E. Wehner, NOAA Office of Response and Restoration NOAA's Projects on Vieques Island, Puerto Rico</p> <p><i>Technologies and Operations for Detection and Removal of Underwater Munitions</i>, Martin Miele, PGp, PG, Principal Geophysicist, Arcadis US Inc.</p> <p><i>Towed Electromagnetic Array (TEMA) for Underwater MEC/UXO Detection – Seeing to New Depths</i>, Richard Funk*, Ryan Cross*, Burr Bridge*, Robert J. Feldpausch* Tetra Tech EC, Inc., Bothell, WA</p> <p><i>Data Fuzing of Technology in Autonomous Underwater Vehicles for Underwater Munitions Detection</i>, Terrance P. Long, President, Wentworth Environmental Inc, Thomas deWilde, Geophysicist, aDede</p>	<p>CHAIR: <i>Dr. Joseph K Asahina, Chief of Technology, Nuclear and CWD division, Kobe Steel, Japan TBA</i></p> <p><i>CWC First 15 Years – Sea Dumped Chemical Weapons – Achievements and Future Perspectives</i>, Dr. Thomas Stock, Dynasafe, Germany.</p> <p><i>The future of US and International Policy on Defense Waste in a Marine Environment</i>, James Barton, Underwater Ordnance Recovery</p> <p><i>Ocean-Dumped Chemical Weapons: History, Challenges, and Prospects</i>, Stanislaw Witek, Ph.D. Chairman, Paul F. Walker, Ph.D., Co-Chairman, International Scientific Advisory Board on Sea-Dumped Munitions</p>	
10:00 am to 10:30 am	BREAK & NETWORKING		
10:30 am to 12:00 pm	SESSION 2 - BREAKOUT		
	Grand Ballroom	Atlantic Ballroom	
<p>CHAIR: Dipl.-Ing. (FH) Claus Bottcher Government of the Federal State of Schleswig-Holstein, GERMANY</p> <p>Types, Mechanisms, and Processes Related to Using Waterjet Technology for the Demilitarization of Underwater Conventional and Chemical Munitions, Paul L. Miller, Director, Advanced Technology Systems, Gradient Technology</p>	<p>CHAIR: Steve Stacy, PG, Senior Geophysicist, ARCADIS, Malcolm Pirnie</p> <p>Historical Research as an Instrument in the Recovery of Underwater Munitions, Tim De Craene, aDeDe, Belgium</p>		

	<p>Technical, Natural Resource, and Public Use Challenges with Addressing Underwater Munitions at the Former Mullet Key Bombing and Gunnery Range, Pinellas County, Florida , Mr. Frank Araico, USACE - Jacksonville District, Ms. Rebecca Terry, USACE - Huntsville Center, and Ms. Susan Burtnett, ARCADIS US, Inc. / PIKA-Pirnie JV, LLC</p> <p>Investigative Challenges of Underwater Sites at Culebra, PR</p>	<p>Pipeline System and the Successful Management of the Munitions Risk, Mr. Simon Bonnell, Project Manager, Task Force Manager Finland, Nord Stream</p> <p>Project Impacts Resulting From Sensitive Environments and Ecosystems: A Case Study From the Chesapeake Bay, United States, Larry S. Jordan Jr.</p>
12:00 pm to 1:00 pm	<p>LUNCH</p> <p>Moderator: Paul Miller, Gradient Technology</p> <p>LUNCH SPEAKERS Dr. Andrzej Jagusiewicz, Chief Inspector of Environmental Protection, Poland & Polish Head of Delegation to Helsinki Commission</p>	Caribbean Ballroom
1:00 pm to 3:00 pm	SESSION 3 – BREAKOUT	
	Grand Ballroom	Atlantic Ballroom
	CHAIR: Geoff Carton, CALIBRE Systems	CHAIR: Mark Huller, Sr. Marketing Manager, Battelle
	<p>A report on recent underwater remedial actions performed in Military Munitions Response Program, U.S. Army Corps of Engineers.</p> <p>Sea-Disposed Munitions: A Practical Solution to Reduce the Risk of Exposure in Varied Environments, Bunch, B.W.a Bailey, S.E.a, Ruiz, C.E.a, Chapman, R.S.a, Sheehan, P.L. b, Martin, W.A.a, a USACE, Engineer Research and Development Center, Vicksburg, b US Army Armament Research, Development, and Engineering Center, Picatinny, NJ</p> <p><i>An Intergovernmental Perspective on Chemical Munitions Dumped in the Baltic Sea, HELCOM MUNI</i></p>	<p>Overview of the Aquatic Ecotoxicology of the Explosives, Guilherme Lotufo (Presenter), US Army Engineer Research and Development Center</p> <p>Development of Human Health and Ecological Risk Based Screening Levels for Conventional Munitions Compounds in Marine Sediments and Biological Tissue Samples, Harry D. Craig, U.S. Environmental Protection Agency Region 10, Oregon</p> <p><i>Safe Destruction of Sea Dumped Munitions on Recovering Site, Dr. Joseph K Asahina, Chief of Technology, Nuclear and CWD division, Kobe Steel, Japan</i></p>
3:00 pm to 3:30 pm	BREAK & NETWORKING	

3:30 pm to 5:00 pm	SESSION 4 - BREAKOUT	
	<p>Grand Ballroom CHAIR: Bart Van der Speeten, Vice President, IDUM Europe</p>	<p>Atlantic Ballroom CHAIR: John Herbert, SAIC</p>
	<p>Recent US Work Relating to Munitions in the Underwater Environment, Geoff Carton, CALIBRE Systems</p> <p>Chemical Munitions Risk Assessment – a Complex Approach, Jacek Beldowski, CHEMSEA</p> <p>Planning and organizing an underwater UXO Clearance operations with divers in an inshore and offshore environment, Arthur Hollmann, Director Bluestream UXO Clearance, The Netherlands</p>	<p>Development of a Blast Barge System for the Disposal of Underwater Unexploded Ordnances, Timothy W. Shelton, John Q. Ehrgott, Jr., and Ramon J. Moral U.S. Army Engineer Research and Development Center</p> <p>Static Detonation Chamber Technology – application for chemical weapons destruction, Dr. Thomas Stock, Sales Manager, Dynasafe Germany GmbH</p> <p>Effective Offshore UXO Risk Mitigation – The complete solution, Kevin Kneebone C Dir, BACTEC</p>
5:00 pm to 7:00 pm	EVENING RECEPTION	

WEDNESDAY, 3, OCTOBER, 2012		
7:00 am to 8:00 am	NETWORKING (Dress Business Casual)	Grand Foyer
8:00 am to 8:45 am	SESSION 5 - Breakout	
	Grand Ballroom	Atlantic Ballroom
	CHAIR: Bart Van der Speeten, Vice President, IDUM Europe	CHAIR: John Herbert, SAIC
	Hawaii Undersea Military Munitions Assessment (HUMMA): Overview of Past and Future Programs, Margo Edwards UHI and Sonia M. Shjegstad, Environet, Hawaii	<p><i>NOAA's Ordnance Reef Coral Assessment and Mitigation Project, Diane E. Wehner, NOAA Office of Response and Restoration</i></p> <p><i>Opportunities and Challenges for using underwater images mosaics to map and monitor underwater munitions</i></p>
8:45 am to 10:00 am	<p>OPEN PANEL DISCUSSION Moderator: Mr. Terrance P. Long , Chairman IDUM</p> <p>Panel: J. C. King, COL (R) US Army, Assistant for Munitions and Chemical Matters, ODASA(ESOH)</p> <p>Dr. Thomas Stock, International Science Advisory Board (ISAB)</p> <p>Dr. Tobias Knobloch, Federal Maritime and Hydrographic Agency, Germany, M.Sc. Life Science, German representative to Ad Hoc Working Group on Chemical Weapons in the Baltic Sea of the Helsinki Commission (HELCOM MUNI)</p> <p>Mary Ann Lucking, University of Puerto Rico, Center for Applied Tropical Ecology and Conservation, Coral Reef Research Group (TBC)</p> <p>Dr. Andrzej Jagusiewicz, Chief Inspector of Environmental Protection, Poland & Polish Head of Delegation to Helsinki</p> <p>Mr. Simon Bonnell, Project Manager, Task Force Manager Finland, Nord Stream</p> <p>Bart van der Speeten, President, aDeDe, Antwerp, Belgium, & Vice President of Operations, Europe (EU), IDUM</p>	Grand Ballroom
10:00 am to 10:30 am	BREAK & NETWORKING	

10:30 am to 1200 pm	<p>CLOSING RECEPTION & CEREMONIES Moderator: Bart van der Speeten, President, aDeDe, Antwerp, Belgium, & Vice President of Operations, Europe (EU), IDUM</p> <p>THE WAY FORWARD Mr. Terrance P. Long CPSM. SSM. CD, Chairman IDUM</p>	Grand Ballroom
	<p>Closing Keynote Address, Dr. Andrzej Jagusiewicz, Chief Inspector of Environmental Protection, Poland & Polish Head of Delegation to Helsinki Commission</p>	Grand Ballroom
12:00 pm to 1:00 pm	LIGHT LUNCH & NETWORKING (TBC)	Board Walk
1:00 pm	FOURTH IDUM END	

Note: The order of presentation of papers is subject to change.

Posters

1. *Corrosion Evaluation of Underwater Military Munitions*, Shengxi Li, Jeffrey Nelson, Ryan Sugamoto, L.H. Hihara, Hawaii Corrosion Laboratory, University of Hawaii, Manoa, Honolulu, HI, R. George, B. Wild, Environmental Sciences, SPAWAR Systems Center Pacific, San Diego, CA
2. *Modeling Munitions Constituents in Aquatic Environments*, P-F. Wang¹, Q. Liao², R. George¹, B. Wild¹, 1SPAWAR Systems Center Pacific, Environmental Sciences, San Diego CA and 2University of Wisconsin, Milwaukee, WI
3. *Munitions Constituent Properties, Fate, and Transformation Studies*, R. George¹, G. Rosen¹, G. Lotufo², M. Chappel², B. Wild¹, 1SPAWAR Systems Center Pacific, Environmental Sciences, San Diego CA and 2US Army Corps of Engineers, Environmental Research and Development Center, Vicksburg MS
4. *NGOs: AVOID HEX ON THE BEACH and other munitions constituents*, I. Ludwichowski, Nature and Biodiversity Conservation Union, Neumünster and Berlin/Germany, K. Detloff¹ Nature and Biodiversity Conservation Union, Neumünster and Berlin/Germany, P. Deimer, Society for the Conservation of Marine Mammals, Germany, H.-J. Schütte, Society for the Conservation of Marine Mammals, Germany, U. Karlowski, Dolphin Conservation Society, Munich/Germany, S. Koschinski, Marine Zoology, Nehnten/Germany