

MARISSA 2024

Maritime Safety and Security Applications

4TH INTERNATIONAL SYMPOSIUM MARITIME SAFETY AND SECURITY APPLICATIONS

 Canada is partner country at MARISSA 2024.

4-5 June 2024

Forum Fischbahnhof, Am Schaufenster 6, Bremerhaven, Germany

For registration, please visit www.marissa-days.org

3 June 2024 Evening - Networking Event

18.00 **MARISSA ICEBREAKER RECEPTION**

Hosted by the German Association for Marine Technology (GMT), German Aerospace Center - Institute for the Protection of Maritime Infrastructures (DLR MI), ATLAS ELEKTRONIK GmbH and Embassy of Canada to Germany

Venue:

German Aerospace Center - Institute for the Protection of Maritime Infrastructures (DLR MI), Fischkai 1, Bremerhaven (The institute is in walking distance from the symposium location.)

4 June 2024 - Programme Day 1

Moderation: MARISSA Team

9.30 **WELCOME AND INTRODUCTION**

Holger Klindt,
Chair Maritime Security, German Association for Marine Technology (GMT), Germany

9.40 **GRANT OPENING**

Kristina Vogt,
Minister of Economic Affairs, Ports and Transformation of the Free Hanseatic City of Bremen

John Horgan,
Ambassador of Canada to Germany

MARISSA is supported by:



Ministry of Economic Affairs,
Ports and Transformation



10.05 KEYNOTES – “GLOBAL THREATS IN A CHANGING WORLD”

“EMERGING AND DISRUPTIVE TECHNOLOGIES: UNCERTAINTY IN SECURITY!”

Carl Wrede,

Deputy Director Institute for the Protection of Maritime Infrastructures, German Aerospace Center (DLR MI), Germany

“OVERCOMING GROWING MARITIME SAFETY CHALLENGES IN DEVELOPING WORLD”

Setyo Nugroho,

Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

“CLIMATE-INDUCED SECURITY CONFLICTS AND ARMED FORCES - A MARITIME PERSPECTIVE”

Professor Dr Stefan Bayer,

Professor of Economics, Helmut Schmidt University and German Institute for Defence and Strategic Studies (GIDS), Germany.

“CANADIAN DEFENCE IN THE ARCTIC “

Colonel James Marshall,

Canadian Defence Attaché to Germany, Embassy of Canada to Germany

Panel on Geopolitics, global economy, demands & markets, speakers

Moderation: Dr Moritz Brake, Managing Director and Co-Founder Nexmaris GmbH, Senior Fellow CASSIS Think-Tank, University of Bonn

11.25 GREETING AND KEYNOTE

Dieter Janecek, MdB

German Federal Government Coordinator of the Maritime Industry and Tourism

11.40 OFFICIAL EXHIBITION TOUR: Kristina Vogt, Dieter Janecek, John Horgan EXHIBITION VISIT, DEMONSTRATIONS IN- AND OUTSIDE AREA

LUNCH BREAK

13.10 INDUSTRY BRIEFINGS

INTRODUCTION INDUSTRY BRIEFINGS

Corina Pfähler, BALance Technology Consulting GmbH

Dr Thomas Garbrecht, Program & Customer Support Manager, OPTIMARE Systems GmbH

“SCHUPPI - DEMONSTRATOR OF AN AUTONOMOUS FERRY FOR THE FISHING PORT”

Dr Arne Kraft, CEO, marinom GmbH

“UTILISING GEODATA TO MAP, MODEL AND MONITOR MARITIME INFRASTRUCTURE”

Connor Schulze, Business Development Manager, Renewables, Fugro Germany Marine GmbH



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13.35 "SHIPPING & PORTS - GLOBAL TRADE, TRANSPORT & RESILIENCE"

Keynote:

"PROLIFERATING THREATS TO MARITIME SECURITY: ARMED PROXIES AND HYBRID WARFARE AS RISKS TO GLOBAL MARITIME SUPPLY-CHAINS"

Dr Moritz Brake, Managing Director and Co-Founder Nexmaris GmbH, Senior Fellow CASSIS Think-Tank, University of Bonn, Germany

Expert Insights:

"SMARTPORT: THE DIGITAL TRANSFORMATION OF THE PORTS OF BREMEN AND BREMERHAVEN"

Matthias Hinz, Smartport Coordinator, bremenports GmbH & Co. KG

"MARITIME SECURITY AND PROTECTION OF CRITICAL INFRASTRUCTURE"

Morten Wilfred Persen, Sales Manager, Kongsberg Norconrol AS, Norway

"EMBRACING AI-POWERED COLLABORATIVE INTELLIGENCE"

Krista Foster, Director of Products, Global Spatial Technology Solutions (GSTS), Canada

"SAFETY AND SECURITY INSIGHTS INTO ENERGY IMPORT TERMINAL PLANNING"

Mathis Korok, Strategic Port Planning and Logistics, Ramboll, Germany

Panel Discussion on Shipping & Ports, speakers and invited guests

Moderation: Michael Bergmann, CEO BM, Germany

15.20 COFFEE BREAK & EXHIBITION VISIT, DEMONSTRATIONS IN- AND OUTSIDE AREA

15.50 INDUSTRY BRIEFINGS

"OVER-THE-HORIZON RADAR, A METEOROLOGY AND SURVEILLANCE TOOL FOR MARITIME SAFETY"

Roberto Gomez, Managing Director, HELZEL Messtechnik GmbH

"SATELLITE- AND PAAS-BASED DECISION SUPPORT FOR INACCESSIBLE ENVIRONMENTS"

Dr Thomas Heege, EOMAP GmbH & Co. KG

"WE CAN'T CHANGE THE WEATHER ... SWATH@A&R"

Carsten-S. Wibel, Sales Director Special Vessels, ABEKING & RASMUSSEN Schiffs- und Yachtwerft SE

16.10 "MARITIME CRITICAL INFRASTRUCTURES UNDER THREAT"

Keynote

"RESILIENCE STUDY ON MARITIME SUPPLY ROUTES"

Dr Liliane Rosbach, German Federal Ministry for Digital and Transport, BMDV

Expert Insights

"DEVELOPMENT AND PROSPECTS OF THE SEABED SECURITY EXPERIMENTATION CENTRE (SEASEC)"

Marnix Krikke, Ministry of Defense, Netherlands - Materiel and IT Command (COMMIT), Program International Naval Materiel Cooperation



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“MARITIME CRITICAL INFRASTRUCTURE PROTECTION:
PRIVATE SECTOR NEEDS AND CAPABILITIES. EXAMPLE OF AN LNG TERMINAL”

Stefan Erdweg, CEO, 3-core GmbH, Germany

“IDENTIFYING THREATS THROUGH REAL-TIME UNDERWATER LISTENING”

Jackie Guo, Business Development Lead, Ocean Sonics, Canada

“MULTI-DOMAIN OPERATION FOR THE PROTECTION OF MARITIME CRITICAL INFRASTRUCTURES”

Klemens Ehret, Head of Future Generation ASW, ATLAS ELEKTRONIK GmbH

Panel discussion speakers and invited guests

Moderation: **Dr Jeronimo Dzaack**,

Head of Research & Development Management, ATLAS ELEKTRONIK GmbH

17.45 **END OF DAY 1**

4 June 2024 Evening – Bremen Reception

18.30 **RECEPTION BY THE SENATOR OF ECONOMIC AFFAIRS, PORTS AND TRANSFORMATION
OF THE FREE HANSEATIC CITY OF BREMEN**

Klimahaus®, Am Längengrad 8, 27568 Bremerhaven

A bus shuttle service will be available at 18.00h in front of the entrance to the conference venue.

WELCOME

Holger Bockholt, Head of Marketing, Sales, Communication, Klimahaus®
Betriebsgesellschaft mbH

Staatsrat Kai Stührenberg,
the Senator of Economic Affairs, Ports and Transformation of the Free Hanseatic
City of Bremen

GET TOGETHER

5 June 2024 - Programme Day 2

Moderation: *MARISSA Team*

8.00 **MORNING COFFEE & EXHIBITION VISIT**

8.45 **INTRODUCTION DAY 2**

Joachim Brodda, MARISSA Team, JB Scientific Advisors

8.55 **“GLOBAL CLIMATE CHANGE AND MARITIME SECURITY”**

Keynote:

“EXPLORING REGIONAL CLIMATE CHANGE CHALLENGES TO MARITIME SECURITY”

Dr George Nikolakakos, CMRE Centre for Maritime Research and
Experimentation, Italy



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Expert presentations:

“ICYSEA: EFFICIENT AND SAFE NAVIGATION IN THE NORTHERN SEA ROUTE WITH DATA FROM SPACE”

Dr Lasse Rabenstein, CEO, Drift+Noise Polar Services, Germany

“A CONTEMPORARY LOOK AT AIRBORNE OIL SPILL SURVEILLANCE”

Dr Thomas Garbrecht, Program & Customer Support Manager, OPTIMARE Systems GmbH, Germany

“SHIPPING NOISE EFFECTS ON MARINE LIFE AND MARINE SECURITY”

Thomas Büchler, Managing Director of the European JASCO Applied Sciences outfit

Panel discussion with speakers and invited guests

Moderation: Dr. Thomas Heege, CEO, Eomap GmbH & Co. KG

10.25 COFFEE BREAK & EXHIBITION VISIT

10.55 INDUSTRY BRIEFINGS

“OCIANA’S COLLABORATIVE BERTH SCHEDULER”

Krista Foster, Director of Products, Global Spatial Technology Solutions (GSTS), Canada

Logan Baxter, Business Development Manager, Deep Vision, Canada

“NON-ACOUSTIC WAKE DETECTION IN LITTORAL AND ARCTIC WATERS”

Dr Fabian Wolk, President, Rockland Scientific, Canada

11.15 “MARITIME SECURITY - PLATFORMS, SYSTEMS AND ENGINEERING”

Keynote

“CATALYSING THE PARADIGM SHIFT; NAVIGATING STAKEHOLDERS AND TECHNOLOGY CHALLENGES IN EMBRACING THE REMOTE AND AUTONOMY TRANSFORMATION IN ENSURING MARITIME SAFETY AND SECURITY”

Ivar de Josselin de Jong, Director Strategy and Commercial, Fugro, Netherlands

Expert speeches

“CAPABILITIES OF AN AUTONOMOUS XLUUV MOTHERSHIP TO PROTECT SUBSEA CIVIL INFRASTRUCTURES”

Dr-Ing Malte Riesner, Product Architecture Submarines (PHU), Operating Unit Submarines, thyssenkrupp Marine Systems (tkms),

“DBSEABED - KEY TO IMPROVE UNDERWATER SITUATIONAL AWARENESS”

Dr.-Ing. Peter Menzel, Founder and CEO, Corvus Work

“PUTTING METHODS INTO PRACTICE TO ENSURE THE TRUSTWORTHINESS OF HIGHLY AUTOMATED MARITIME OPERATIONS”

Dr Sebastian Feuerstack, Head of Department, German Aerospace Center (DLR), Institute of Systems Engineering for Future Mobility

Panel discussion, speakers and invited guests

Moderation: Dr Jeronimo Dzaack,

Head of Research & Development Management, ATLAS ELEKTRONIK GmbH



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12.45 **LUNCH BREAK**

**EXHIBITION VISIT, DEMONSTRATIONS IN- AND OUTSIDE AREA,
NETWORKING**

14.00 **RESEARCH BRIEFINGS**

N.N., Fraunhofer Institutes (tbc)

Stephan Brandstetter, Coordinator Maritime & Civil Security Research German Aerospace Center (DLR)

“CANADIAN RESEARCH OPPORTUNITIES”

Enrico Nake, Senior Trade Officer, Embassy of Canada to Germany

Moderation:

Setyo Nugroho, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

14.20 **“DIGITALISATION - DIGITAL SYSTEMS AT RISK”**

Keynote

“LEARNINGS FROM MARITIME CYBER ATTACKS”

Martin Lochte-Holtgreven, Manager, marcybersec.com

Expert presentations

“APPLICATION OF IACS CYBERSECURITY REQUIREMENTS UR E26/E27 TO EXTRA-LARGE UNCREWED UNDERWATER VEHICLES”

Alexander Nies, Ministerial Dirigent A.D.; Cyber Analysis and Defense, Fraunhofer FKIE, Germany

“(TBA)”

Carsten John, IT-Risk-Consultant, Lampe & Schwartze Riskmanagement GmbH, Germany

“(TBA)”

Rob Loves, NHL Stenden University of Applied Sciences, Netherlands

Panel discussion speakers and invited guests

Moderation: *Martin Lochte-Holtgreven*

15.40 **COFFEE BREAK & EXHIBITION VISIT, DEMONSTRATIONS IN- AND OUTSIDE AREA**

16.00 **“WRAP-UP & FAREWELL”**

KEY MESSAGES: "BREMER ZUR MARITIMEN SICHERHEIT" | "BREMEN DECLARATION ON MARITIME SAFETY AND SECURITY”

Michael Bergmann, CEO BM, Germany

MARISSA CLOSING NOTES

16.30 **END OF MARISSA SYMPOSIUM**



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Exhibition

EXHIBITION AND LIVE DEMONSTRATIONS will be available during the whole conference: Companies and Research Institutions present their latest maritime safety & security projects and technologies.

MARISSA 2024 exhibitors:

ABEKING & RASMUSSEN SCHIFFS- UND YACHTWERFT SE
ATLAS ELEKTRONIK GMBH
BM BERGMANN-MARINE GMBH (BM)
DEEP VISION INC. CANADA
DVV MEDIA : SCHIFF & HAFEN
EOMAP GMBH & CO. KG
FRAUNHOFER CENTER OF MARITIME LOGISTICS AND SERVICES (CML)
FUGRO GERMANY MARINE GMBH
GERMAN AEROSPACE CENTER – DLR INSTITUTES
GMT - GERMAN ASSOCIATION FOR MARINE TECHNOLOGY
GLOBAL SPATIAL TECHNOLOGY SOLUTIONS (GSTS), CANADA
HELZEL MESSTECHNIK GMBH
MARINOM GMBH
OCEAN SONIC, CANADA
OPTIMARE SYSTEMS GMBH
ROCKLAND SCIENTIFIC INTERNATIONAL INC., CANADA
STERNULA A/S, DENMARK

The MARISSA Symposium is supported by:

Ministry of Economic Affairs, Ports and Transformation of the Free Hanseatic City of Bremen, and the German Association for Marine Technology



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