

ANNEX 1

IMO/UNIVERSITY OF PLYMOUTH (Cyber-SHIP Lab) SYMPOSIUM
"MARITIME CYBER SECURITY AND RESILIENCE"

PROVISIONAL PROGRAMME

Day 1, Actional research outputs	
Session 1: Opening session	
09.00-09.20	Opening remarks <ul style="list-style-type: none"> • Kitack Lim, Secretary-General, IMO • Kevin Jones, Principal Investigator, Cyber-SHIP Lab; Executive Dean, Faculty of Science and Engineering, University of Plymouth
09.20-10.00	"Was that really the worst that could happen?" <ul style="list-style-type: none"> • Kevin Jones, University of Plymouth
10.00-10.30	Discussion
10.30-11.00	Refreshment break
Session 2: What is and isn't being reported? And what are/should we be doing about it?	
11.00-11.30	Analysis of publicly reported cyber incidents in the maritime sector 2002-2023 <ul style="list-style-type: none"> • Stephen McCombie, Professor of Maritime IT Security, NHL Stenden University of Applied Sciences • Jeroen Pijpker, Senior Lecturer/Researcher in Cyber Security, NHL Stenden University of Applied Sciences
11.30-12.30	Panel and audience discussion - Current and future directions in maritime cyber security <ul style="list-style-type: none"> • Marie Haugli-Sandvik, Project Manager and PhD Candidate, Norwegian University of Science and Technology • Adam Sobey, Professor of Data-Centric Engineering, University of Southampton; Group Lead for Marine and Maritime in the Data-Centric Engineering Programme, The Alan Turing Institute • Gary Kessler, independent academic, consultant, and maritime cyber security practitioner; Professor of Cyber Security (retired) • Kimberly Tam, Cyber-SHIP Lab Academic Lead and Lecturer in Cyber Security, University of Plymouth
12.30-13.30	Lunch

Session 3: Mapping, modelling, mitigating and - somehow - insuring against maritime cyber risk	
13.30-14.10	<p>Development of a comprehensive cyber security road map through a Concept of Operations (ConOps), including a review of initiatives to meet IACS newbuild ships' cyber resilience requirements</p> <ul style="list-style-type: none"> • Jungo Shibata, Manager, Maritime and Logistics IoT Team, Maritime Technology Group, Monohakobi Technology Institute, a Research & Development subsidiary company of NYK Line
14.10-14.50	<p>Threat modelling of the autonomous ship's OT systems</p> <ul style="list-style-type: none"> • Muhammed Erbas, Maritime Transportation, Management Engineering and Cybersecurity Researcher, Tallinn University of Technology
14.50-15.30	<p>The complex relationship between the marine insurance market and cyber risks - further tested by the emergence of cyber-enabled ships</p> <ul style="list-style-type: none"> • Eva Szewczyk, PhD candidate researching legal and insurance implications of autonomous shipping, Northumbria University
15.30-16.00	Refreshment break
Session 4: Cyber-physical research platforms and current maritime security ops capabilities	
16.00-16.25	<p>Our next generation maritime cyber security / cyber-physical research platform</p> <ul style="list-style-type: none"> • Avanthika Vineetha Harish, Industrial Researcher, Pentesting • Wesley Andrews, Project Engineer, Cyber-SHIP Lab, Uni. of Plymouth
16.25-16.50	<p>When your asset doesn't stay still - the state of play in maritime security operation centers</p> <ul style="list-style-type: none"> • Allan Nganga, PhD candidate in Maritime Cybersecurity, Western Norway University of Applied Sciences
16.50-17.00	Q&A / discussion and Day-1 wrap-up

Day 2, Industry-focused knowledge sharing	
Session 5: Opening session	
09.00-09.20	Day 2 opening remarks <ul style="list-style-type: none"> • Baroness Vere, Minister for Aviation, Maritime and Security, United Kingdom Department for Transport • James Parkin, Rear Admiral, Director Develop - Navy Command Headquarters, Royal Navy
09.20-09.45	A tale of two very real-world maritime cyber threats: software supply chain and port security <ul style="list-style-type: none"> • Andy Howell, Principal Cyber Security Consultant, BMT • Thomas Scriven, Principal Consultant, Mandiant
09.45-10.05	The UK's strategic approach – a cyber security framework to support the global maritime community <ul style="list-style-type: none"> • Matthew Parker, Head of Maritime Security Strategy, Threat & Risk, United Kingdom Department for Transport
10.05-10.30	United States Coast Guard perspective on maritime cyber security <ul style="list-style-type: none"> • Adam B. Morrison, Captain, Deputy Coast Guard Cyber Commander, United States Coast Guard
10.30-11.00	Refreshment break
Session 6: Boosting resilience through intelligence, coordination and prioritization	
11.00-11.35	Cyber resilience through industrywide intelligence and SOC capabilities <ul style="list-style-type: none"> • Makiko Tani, Deputy Manager of Cyber Security Team, ClassNK
11.35-12.10	The Maritime Cyber Priority: findings from DNV's 2023 maritime cyber security research report <ul style="list-style-type: none"> • Svante Einarsson, Head of Cyber Security Maritime, DNV
12.10-12.50	Panel and audience discussion - Our maritime cyber security concerns <ul style="list-style-type: none"> • James Parkin, Royal Navy • Matthew Parker, United Kingdom Department for Transport • Tim Acland, Chief Technology Officer, HENSOLDT • Svante Einarsson, DNV
12.50-14.00	Lunch

Session 7: Industry and international maritime cyber guidance, regulation and review	
14.00-14.25	Maritime industry guidelines for cybersecurity on board ships, a comprehensive review <ul style="list-style-type: none">• Jakob Larsen, Head of Maritime Safety & Security, BIMCO
14.25-14.50	Cyber security considerations for the maritime single window (MSW, mandatory from 2024) <ul style="list-style-type: none">• [IMO nominated expert]
14.50-15.15	Maritime cyber attack activity and trends, and public/private sector efforts towards information-sharing <ul style="list-style-type: none">• Scott Dickerson, Executive Director, MTS-ISAC; Founder and Principal, CISO
15.15-15.45	Refreshment break
Session 8: Bolstering against battles against breaches	
15.45-16.10	Cyber battle damage repair. Towards an improvement of cyber resilience of navy ships <ul style="list-style-type: none">• William van der Geest, Commander, Royal Netherlands Navy
16.10-16.35	Our vessel breach: What's technically plausible in real-world multisystem vessel testing? <ul style="list-style-type: none">• Kelly Malynn, Product Lead and Underwriter for Cyber Physical Damage, Beazley
16.35-16.45	Closing remarks <ul style="list-style-type: none">• Heike Deggim, Director, Maritime Safety Division, IMO
16.45-17.00	Symposium wrap-up <ul style="list-style-type: none">• Kevin Jones, University of Plymouth
