



## Monday 17 June 2019

9:00	9:00–9:30 Opening Remarks		
9:30	9:30–11:00 1A: Keynote Session <b>Ensuring Maritime Security in the Indo-Asia-Pacific Region – Naval Strategy &amp; Technical Development</b> CHAIR: Professor Satoshi Morimoto	Speakers: 1) TBC, Japan Maritime Self Defense Force, Japan 2) Vice Admiral Sawyer, Commander USN 7th Fleet, USA 3) Rear Admiral Lebreton, ALPACI, French Navy, France 4) Vice Admiral Noonan, Chief of Navy, Royal Australian Navy, Australia (invited)	
11:00	11:00–18:00 Exhibition Open	11:00–11:15 Opening Ceremony <b>MAST Asia Exhibition Official Ribbon Cutting Ceremony</b>	
11:15	11:15–12:00 Coffee Break		
12:00	12:00–13:30 2A: Domain: Surface <b>International Challenges</b> CHAIR: CDRE (ret) André van Koningsbrugge <i>The South China Sea : Adopting Security Mechanisms from Other Maritime Domains Law Enforcement Agencies and Maritime Sovereignty Issues in East Asia</i>	12:00–13:30 2B: Domain: Surface <b>Combat Systems I</b> CHAIR: RADM (ret) Fusahiko Yamasaku <i>Multi-Source IAMD Object Classifier for Real-time Fire Control Support</i> <i>How ELINT Can Deal with the Current and Future Radar Threat</i> <i>A revolutionary HF for joint operation</i>	12:00–13:30 2C: Domain: Undersea <b>Platform Studies</b> CHAIR: RADM (ret) John B. Padgett, III <i>How Would the Indiscretion Rate Affect the Future Submarine Design?</i> <i>Non-destructive Imaging and Residual Strength of Composite Materials after Exposure to Blast Loading</i> <i>3D Li-Ion Batteries for Submarine Applications</i>
13:30	13:30–14:30 VIP Lunch <i>By invitation only</i>	13:30–14:30 Lunch Break	
14:00	14:00–14:30 Product Briefing		
14:30	14:30–16:00 3A: Keynote Session <b>Development &amp; Operation for Air Power</b> CHAIR: Professor Satoshi Morimoto	Speakers: 1) TBC, Japan Air Self Defense Force, Japan 2) Lt. Gen. Kevin B. Schneider, Commander US Forces Japan/5th Air Force, USA 3) Air Marshall Davies, Chief of Royal Australian Airforce, Australia (invited)	
16:00	16:00–16:30 Coffee Break	16:00–16:30 Product Briefing	
16:30	16:30–18:00 4A: Domain: Surface <b>Defining Naval Requirements</b> CHAIR: Captain (ret) Bo Wallander <i>Future of JSDF's Maritime Transportation Advancing the Use of Expendables in Gray-Zone Operations</i>	16:30–18:00 4B: Domain: Surface <b>Combat Systems II</b> CHAIR: RADM (ret) Phil (John P) Davis <i>Mission Driven Task Generation in Command and Control</i> <i>A case study in evolution of a future-proof Command Management System architecture</i>	16:30–18:00 4C: Domain: Undersea <b>Submarine Masts</b> CHAIR: Dr David Wyllie <i>Sensor and Processing Technologies for Submarine Integrated Masts</i> <i>The Next Generation Electronic Warfare Systems And Its Impact on Operations Of Navies</i>
19:00	19:00–20:30 VIP Dinner <i>By invitation only. Hosted by Aquisition, Technolgy and Logistics Agency/Ministry of Defence, Japan</i>		



## Tuesday 18 June 2019

<b>9:00</b>	<b>9:00–10:30</b> <b>5A: Domain: Surface Unmanned Surface Vehicles I</b> <b>CHAIR: RADM (ret) Radamanthys Fountoulakis</b> <i>Unmanned Surface Vehicles (USV) in the Future Norwegian Unmanned Maritime Mine Counter Measures (MMCM) Concept</i> <i>Control Technologies for Unmanned x Vehicle (UxV) with Autonomous Swarm Algorithm and Future Plan to Enhance Autonomy</i> <i>The Deployable Mine Countermeasures (MCM) Toolkit</i>	<b>9:00–10:30</b> <b>5B: Domain: Surface Modeling &amp; Simulation</b> <b>CHAIR: Captain (ret) R. Cameron Ingram</b> <i>An Examination of Discontinuous Model Execution in IPME</i> <i>Autonomous Warrior Australia 2018 - An Overview</i> <i>Research on Mobility Simulator of Amphibious Vehicles</i>	<b>9:00–10:30</b> <b>5C: Domain: Undersea Platform Signature Studies</b> <b>CHAIR: Dr John Sirmalis</b> <i>Multi Influence Measurements: High Precision Equipment for Vessel Tracking</i> <i>Approach to Unmanned Underwater Vehicle Technologies in NSRC</i>	<b>9:00–10:30</b> <b>5D: Domain: Air &amp; Space Early Warning in BMD</b> <b>CHAIR: Mr Jeroen De Jonge</b> <i>Status Netherlands Maritime Integrated Air and Missile Defense</i> <i>BMD Long Range Early Warning Radar</i>
<b>10:00</b>	<b>10:00–18:00</b> Exhibition Open			
<b>10:30</b>	<b>10:30–11:30</b> Coffee Break	<b>10:30–11:30</b> Product Briefing	<b>10:30–17:30</b> <b>iPad Pro Fact Finding Mission</b> <i>Collect business cards from 10 different exhibitors, bring them to the organiser's office with one of your own before 1730hrs. The price draw will take place on a nominated stand in the exhibition hall at 1730hrs. Good luck!</i>	
<b>11:30</b>	<b>11:30–13:00</b> <b>6A: Plenary Session Technology Development in the New Domain</b>		<b>Speakers:</b> 1) Dr Moreland, Head of Mission Engineering, Integration, and Interoperability, Office of the Secretary of Defense for Acquisition and Sustainment, USA 2) Chief Defense Scientist, Department of Defense, Australia 3) TBC, Aquisition, Technology, And Logistics Agency, Japan 4) TBC, Office of Naval Research, USA	
<b>13:00</b>	<b>13:00–14:00</b> Lunch Break	<b>13:00–14:00</b> Product Briefing		
<b>14:00</b>	<b>14:00–15:30</b> <b>7A: Domain: Surface Unmanned Surface Vehicles II</b> <b>CHAIR: Mr Jeroen De Jonge</b> <i>The role of Unmanned Surface Vessels (USVs) in Theatre Level ASW</i> <i>DriX, GAPS and FLS : iXblue Combined Solutions to Address Marine Threats</i>	<b>14:00–15:30</b> <b>7B: Domain: Undersea UUV Technologies</b> <b>CHAIR: Mr Andreas Grunicke</b> <i>We Propose the Wave Power Buoy for Power Supply System for UUVs' Docking Station Location</i> <i>Development of an Antenna Specialized to the Seawater</i>	<b>14:00–15:30</b> <b>7C: Domain: Undersea Sonar Technology</b> <b>CHAIR: Professor Dr David Hardie</b> <i>Reverb-free Sonar Acoustic Simulation in the Water Tank</i> <i>Multi-target, Batch-oriented, Bearing-elevation tracking Technique for Passive Sonar Underwater Thermophones</i>	
<b>15:30</b>	<b>15:30–16:00</b> Coffee Break	<b>15:30–16:00</b> Product Briefing		
<b>16:00</b>	<b>16:00–17:30</b> <b>8A: Domain: Surface Advances in Ship Materials</b> <b>CHAIR: Captain (ret) Kunio Fujisawa</b> <i>Focused, High-Intensity, Spread-Spectrum Ultrasound Economically Prevents Biofouling</i> <i>Study on UEP Reduction System</i>	<b>16:00–17:30</b> <b>8B: Domain: Undersea Technology: Navigation &amp; Communication</b> <b>CHAIR: Ms Trevor Kelly-Bissonnette</b> <i>The Underwater Acoustic Communication Network</i> <i>Submarine Navigation Systems: Challenges and Solutions</i> <i>The Command Team Experimental Testbed (ComTET): A Program of Work Utilising a Sociotechnical Systems Perspective to Inform Future Submarine Control Room Design</i>	<b>16:00–17:30</b> <b>8C: Domain: Air &amp; Space Space Surveillance</b> <b>CHAIR: RADM (ret) Charles J Beers</b> <i>New Navigation Solutions for Maritime Surveillance and Emergency Warning and Rescue at Sea</i> <i>Space based Broad Area Maritime Surveillance</i> <i>Net-Centric Integration of RPAS Services in the Maritime Information Sharing Environment</i>	
<b>19:30</b>	<b>19:30–22:30</b> Annual Party		<b>Guest of honour/speaker(s) from Ministry of Defense and/or Japan Maritime Self Defense Force.</b> <b>A Japanese-themed evening of the highest calibre, food and entertainment.</b> <b>Venue: Hotel Springs. Free-of-charge to VIPs, conference delegates, authors and exhibitors. Visitors can purchase tickets from the organiser.</b>	



## Wednesday 19 June 2019

---

<b>9:30</b>	<b>9:30–11:00</b> <b>9A: Plenary Session</b> <b>Technology Development and Technical Cooperation for Defense Equipment</b>	<b>Speakers:</b> 1) Commissioner, ATLA, Japan (TBC) 2) VADM Mathias "Mat" W. Winter, Director, Joint Strike Fighter Program, Office of the Secretary of Defense, USA 3) Dr David Kershaw, DST, DoD, Australia 4) Ms E. Anne Sandel (SES), Executive Director, Office of Naval Research (invited)	
<b>10:30</b>	<b>10:30–16:00</b> Exhibition Open		
<b>11:00</b>	<b>11:00–12:00</b> Coffee Break	<b>11:00–12:00</b> Product Briefing	<b>11:00–15:00</b> <b>iPad Pro Fact Finding Mission</b> <i>Collect business cards from 10 different exhibitors, bring them to the organiser's office with one of your own before 1600hrs. The price draw will take place on a nominated stand in the exhibition hall at 1600hrs. Good luck!</i>
<b>12:00</b>	<b>12:00–13:30</b> <b>10A: Domain: Surface</b> <b>Ship Construction Challenges</b> <b>CHAIR: Mr Charles Giacchi</b> <i>Naval Helicopter Securitisation and Handling</i> <i>Resource Scheduling with Computable Constraints for Maritime Command and Control</i> <i>Manning &amp; Automation Onboard Naval Ships</i>	<b>12:00–13:30</b> <b>10B: Domain: Undersea</b> <b>Technology: Hydrodynamics</b> <b>CHAIR: Mr George McNamara</b> <i>Cavitation Inception of Marine Propellers and Control Surfaces in Nuclei Deplete Flows</i> <i>Appendage Wakes- Joint Research between Australia and Japan on the Manoeuvring of Underwater Vehicles</i>	<b>12:00–13:30</b> <b>10C: Domain: Air &amp; Space</b> <b>Rotary Wing Missions</b> <b>CHAIR: Mr Benjamin F Strickland, II</b> <i>The Effectiveness Study of Rotor-Plane Direct Control System for Atmospheric Disturbances Behind Destroyers</i>
<b>13:30</b>	<b>13:30–14:30</b> VIP Lunch <i>By invitation only</i>	<b>13:30–14:30</b> Lunch Break	<b>13:30–14:30</b> Product Briefing
<b>14:30</b>	<b>14:30–15:00</b> Press Conference <i>Details TBC</i>		
<b>15:00</b>	<b>15:00–15:20</b> iPad Pro Prize Draw <i>Location TBC</i>		

---