

2018 FST
Schedule of Events

Monday, April 9

8:00 am - 5:00 pm Woodrow Wilson	FST Exhibit Hall Open
9:00 am - 10:00 am Baltimore 3-5	FST Policy Panel "Congressional Small Business & Science Committees: SBIR/STTR Improvements" Moderator: Mr. David Sikora, OSD OSBP SBIR/STTR Program Administrator (Acting) Panelist: Ms. Kevin Wheeler, Senate Small Business Committee Staff Member Panelist: Ms. Renée Bender, Senate Small Business Committee Staff Member Panelist: Mr. Joe Hartz, House Small Business Committee Staff Member Panelist: Mr. Cliff Shannon, House Science, Space & Technology Committee Professional Staff Panelist: Ms. Halimah Najieb-Locke, House Small Business Committee Staff Member
10:00 am - 11:00 am Baltimore 3-5	FST Acquisition Panel "Innovative Technology Partnerships: New Stakeholders, New Practices" Moderator: Mr. Robert L. Smith, Director DON SBIR/STTR Panelist: Dr. Pamir Alpay, University of Connecticut Panelist: Dr. Philip Singerman, National Institute of Standards and Technology (NIST), Commerce Department Panelist: Mr. Craig Owens, Lockheed Martin Panelist: Mr. Alf Carroll, Raytheon IDS
11:00 am - 12:00 pm Annapolis 4	DoN Technology Transfer - Offices of Research and Technology Applications (ORTA) Naval Research Laboratory NUWC Newport NSWC Carderock
11:00 am - 12:00 pm Baltimore 3-5	OSBP Acquisition Panel "Security Clearance in DoD Market Place" Speaker: Dr. Mark Livingston, Deputy Under Secretary of the Navy (Policy), Senior Director for Security Speaker: Ms. Elizabeth Mudd, Small Business Program Manager, Defense Security Service
1:30 pm - 2:40 pm Annapolis 1	FST Tech Talk: "Corrosion Control & Coatings" <i>This cluster explores coatings for advanced electronics and undersea applications; includes ice phobic coatings for Arctic applications</i> 1:30 PM Tech Talk Host Topic Introduction - Ms. Elizabeth Madden, MARCORSSYSCOM 1:40 PM GVD Corporation, N093-187 (NAVAIR) "Innovative Environmental Protection for Airborne Platforms" 1:50 PM Texas Research Institute Austin, Inc., N131-034 (NAVSEA) "Improved Anti-Corrosion Coatings for Undersea Cable Connectors" 2:00 PM METSS Corporation, N151-037 (NAVSEA) "Fat Line Tow Cable" 2:10 PM HygraTek LLC, N14A-T013 (ONR) "Durable Low Adhesion Anti-Icing and Ice-Phobic Surfaces" 2:20 PM NanoSonic, Inc., N14A-T013 (ONR) "HYBRIDSIL© Anti-Icing, Icephobic Coatings For U.S. Navy Superstructures" 2:30 PM Luna Innovations Incorporated, N14A-T014 (ONR) "Durable Sol-Gel Surface Treatment to Control Cathodic Current Density"
1:30 pm - 2:20 pm Annapolis 2	FST Tech Talk: Fiber Optic Link Advancements <i>This cluster examines compact fiber optics for EW, sensors and communications as a coaxial replacement on aircraft and for structural health monitoring on rotorcraft</i> 1:30 PM Tech Talk Host Topic Introduction - Mr. Anthony Ruffa, NUWC Newport 1:40 PM Redondo Optics, Inc., N151-006 (NAVAIR) "Low Power, Low Cost, Lightweight, Multichannel Optical Fiber Interrogation Unit for Structural Health Management of Rotor Blades" 1:50 PM EOSPACE, Inc., N142-100 (NAVAIR) "Ruggedized, Ultra-Compact, High Dynamic Range, Dual-Output Wideband Electro-Optic Modulator" 2:00 PM EOSPACE, Inc., N151-018 (NAVAIR) "Integrated Laser and Modulator" 2:10 PM Freedom Photonics LLC, N151-018 (NAVAIR) "Integrated Laser and Modulator"
1:30 pm - 2:40 pm Annapolis 3	FST Tech Talk: Missiles, Projectiles and Reactive Materials <i>Technologies include reactive materials for ejection seats and ordnance; materials and metrology for missiles and projectiles</i> 1:30 PM Tech Talk Host Topic Introduction - Mr. David Sorochty, NSWC Indian Head (NAVSEA) 1:40 PM Helicon Chemical Company LLC, N132-105 (NAVAIR) "Temperature-Insensitive Composite Propellants with Tunable Plateau Burning Using In-Situ Energetic Nanoparticles" 1:50 PM Physical Sciences, Inc., N132-105 (NAVAIR) "Advanced Composite Propellant Replacement for High Performance Plateau Burning Double Base" 2:00 PM Applied Thin Films, Inc., N131-056 (NAVSEA) "Ceramic Matrix Composites for Advanced Tactical Missile Radomes" 2:10 PM OptiPro Systems LLC, N132-121 (NSMA) "Aerodynamic Dome Manufacturing Cost Reduction" 2:20 PM Reactive Metals International, Inc., N141-072 (ONR) "Reactive Metal Composite Materials with Enhanced Ignition/Deflagration Efficiencies" 2:30 PM ATA Engineering, Inc., N141-082 (SSP) "Non-Linear Behavior Models for Design of Carbon-Carbon Composite Components"



2018 FST
Schedule of Events

1:30 pm – 2:10 pm

Annapolis 4

FST Tech Talk: Sonobuoys

Three new designs for sonobuoys are discussed

- 1:30 PM Tech Talk Host Topic Introduction - Mr. Arne Anderson, PMA-264 (NAVAIR)
- 1:40 PM SeaLandAire Technologies, Inc., N101-014 (NAVAIR)
"High Gain Array of Velocity Sensors"
- 1:50 PM Systems & Technology Research, N151-011 (NAVAIR)
"Compact Deep Vector Sensor Array"
- 2:00 PM Ocean Power Technologies, Inc., N121-096 (ONR)
"Persistent Easy-to-Deploy Stationkeeping Sonar Powerbuoy"

2:20 pm – 3:20 pm

Annapolis 4

FST Tech Talk: Turbine Engine Technologies

Sensors and enhancements for turbine engines, including health management tools

- 2:20 PM Tech Talk Host Topic Introduction - Mr. Allen Barta, Rolls-Royce
- 2:30 PM Creare LLC, A12-080 (NAVAIR)
"Compact, Inexpensive, Microchannel Recuperators for Small Gas Turbines"
- 2:40 PM Creare LLC, N07-040 (NAVAIR)
"Carbureted Fuel Injection System for Augmentor Stability"
- 2:50 PM Prime Photonics, LC, N093-183 (NAVAIR)
"Innovative Foreign Object Damage (FOD) Detection and Identification Technology for Military Turbine Engines"
- 3:00 PM Knite, Inc., N14A-T004 (NAVAIR)
"Active Combustion Control (ACC) of Augmentor Dynamics"
- 3:10 PM Innoveering, LLC, N152-095 (NAVAIR)
"Micro-Plasma Blade Monitoring Sensor System"

2:30 pm – 3:30 pm

Annapolis 2

FST Tech Talk: Sensors & Optics

This diverse group includes technologies applied to EO/IR atmospheric testing, submarine periscope video enhancements, simulator display assessment, optically precise conformal sensor windows and image sensors for LIDAR applications

- 2:30 PM Tech Talk Host Topic Introduction - Dr. Jon Magnuson, Boeing
- 2:40 PM SciTec, Inc., N132-090 (NAVAIR)
"Atmospheric Infra-red Transmittance Calculator (AIRTraC)"
- 2:50 PM Visual Performance LLC, N142-104 (NAVAIR)
"Effective Measures of Training Display System Performance"
- 3:00 PM Charles River Analytics, Inc., N141-025 (NAVSEA)
"Submarine Imaging Real-time Enhancement (SIREN)"
- 3:10 PM OptiPro Systems LLC, N132-122 (NSMA)
"High Precision Conformal Sensor Window"
- 3:20 PM Quantum Semiconductor LLC, NM12-158 (ONR)
"Development of CMOS-based APD Arrays with Si-Ge-C Materials"

3:30 pm – 4:30 pm

Baltimore 3-5

FST Innovation Panel

"How Small Business and SBIR/STTR Practices Ensure Faster Integration of Innovation"

Moderator: RADM David Hahn, Chief of Naval Research

Panelist: Mr. William Bray, Deputy Assistant Secretary of the Navy for Research, Development, Test and Evaluation (DASN (RDT&E))

Panelist: Mr. James Smerchansky, Executive Director, Naval Sea Systems Command (NAVSEA)

Panelist: RADM Mark W. Darrah, Program Executive Officer, Unmanned Aviation and Strike Weapons (NAVAIR)

Panelist: Col Kevin Murray, USMC, Director of Marine Corps Warfighting Lab S&T Division

3:30 pm – 4:50 pm

Annapolis 1

FST Tech Talk: Networks & Cyber

This topic covers software/network development and assessment tools, as well as cyber security and situational awareness applications

- 3:30 PM Tech Talk Host Topic Introduction - Mr. Daniel Koller, ONR
- 3:40 PM ASSETT, Incorporated, N04-069 (NAVAIR)
"Analytical tool sets with models, metrics, and measurement techniques for System Architecture development."
- 3:50 PM Summit Test Solutions, N101-029 (NAVAIR)
"Automated Generation of Advanced Test Diagrams to Reduce Test Program Set Life-Cycle Costs"
- 4:00 PM Trident Systems Incorporated, N00-062 (NAVSEA)
"Force Level Automated Certification of Downward Compatible Baseline Software"
- 4:10 PM Real-Time Innovations, N092-121 (NAVSEA)
"Minimally Intrusive Real-time Software Instrumentation Technologies"
- 4:20 PM Mayachitra, Inc., N151-067 (ONR)
"Orthogonal Approach to Malware Detection and Classification"
- 4:30 PM Charles River Analytics, Inc., N15A-T022 (ONR)
"Embedded Architecture for Cyber-resilience (EAC)"
- 4:40 PM La Jolla Logic, Inc., N132-140 (SPAWAR)
"Utilization Of Inference Engine Technology For Navy Cyber Situational Awareness"



**2018 FST
Schedule of Events**

3:30 pm – 4:40 pm

Annapolis 3

FST Tech Talk: Precision Navigation & Timing (PNT) Technologies

Non-GPS navigation and positioning solutions, including Seabased Automated Landing Recovery System applications and submarine navigation support tools, are covered in this cluster

- 3:30 PM Tech Talk Host Topic Introduction - Ms. Sheila Lucas, General Dynamics-Mission Systems
- 3:40 PM NAVSYS Corporation, AF141-253 (NAVAIR)
"System-Of-Systems Open Architecture PNT (SOAP) Solution for Assured PNT in a GPS Denied Environment"
- 3:50 PM Technology Service Corporation, AF141-253 (NAVAIR)
"Disruptive Military Navigation Architectures"
- 4:00 PM Toyon Research Corp., N14A-T009 (NAVAIR)
"Demonstration of a Local Carrier-Based Precision Approach and Landing System (LC-PALS)"
- 4:10 PM SA Photonics, Inc., N15A-T014 (ONR)
"Aircraft Carrier-based Precision Ship-Relative Navigation Guidance for Aircraft Landing under Emissions Control Conditions"
- 4:20 PM Intelligent Automation, Inc., N132-144 (SSP)
"Development of Novel and Emerging Technology for the Enhancement of Fault Diagnostics"
- 4:30 PM Charles River Analytics, Inc., N143-129 (SSP)
"Sensor system for Precise Automatic Relative-position Keeping (SPARK)"

3:30 pm – 4:30 pm

Annapolis 4

FST Tech Talk: Intelligence & DCGS Applications

Technologies specific to Intelligence and Distributed Common Ground System (DCGS) data search, retrieval and analysis; includes analyst information management and workflow support

- 3:30 PM Tech Talk Host Topic Introduction - Mr. Martin Kruger, ONR
- 3:40 PM Boston Fusion Corp., N132-131 (ONR)
"Multi-Level Associative Content Environment (MACE)"
- 3:50 PM Boston Fusion Corp., N141-071 (ONR)
"Cognitive Adaptation of Management Behavior of Information via Observation (CAMBIO)"
- 4:00 PM DECISIVE ANALYTICS Corporation, N102-176 (ONR)
"RDF Entity and Association Disambiguation (READ) Enhancement"
- 4:10 PM DECISIVE ANALYTICS Corporation, N132-128 (ONR)
"Automated Concept Map Elicitation (ACME)"
- 4:20 PM DECISIVE ANALYTICS Corporation, OSD11-DR6 (ONR)
"Discovering Valued Information in a Cloud Environment (DVICE)"

Tuesday, April 10

8:00 am – 5:00 pm

Woodrow Wilson

FST Exhibit Hall Open

9:00 am – 10:00 am

Baltimore 3-5

FST Policy Panel

"Congressional Armed Services Committees' 2018 National Defense Authorization Act: Intent and Implementation of Small and SBIR/STTR Improvements"

- Moderator: Mr. Kevin Gates, Vice President for Advanced Concepts, Strategic Analysis Inc., Former HASC Acquisition Staff Lead
- Panelist: Dr. Arun Seraphin, Senate Armed Services Committee Professional Staff Member
- Panelist: Mr. Peter Villano, House Armed Services Committee Professional Staff Member
- Panelist: Ms. Kevin Wheeler, Senate Small Business Committee Staff Member [invited]

10:00 am – 11:00 am

Baltimore 3-5

OSBP Acquisition Panel

"Buying Command Overview (DON OSBP Associate Directors)"

- Panelist: Mr. Shelby Butler, Associate Director, Office of Small Business Programs, NAVAIR
- Panelist: Ms. Bianca Henderson, Assoc. Director, Office of Small Business Programs, NAVFAC
- Panelist: Ms. Carol Decker, Assoc. Director, Office of Small Business Programs, NAVSUP
- Panelist: Mr. A.J. Austin, Associate Director (Acting), Office of Small Business Programs, MCSC
- Panelist: Ms. Mae Mathieu, Deputy for Small Business, MCHQ I&L (Representing Assoc. Director Stan Daise)
- Panelist: Ms. Brenda Pickett, Director, Office of Small Business Programs, ONR
- Panelist: Ms. Marita Thompson, Program Director, Office of Small Business, SSP

10:50 am – 12:00 pm

Annapolis 1

FST Tech Talk: Electronic Warfare (EW) Technologies

Technologies for improving Electronic Warfare/Electronic Attack (EW/EA), radar and communications systems, including threat protection; atmospheric assessment technology for radar ducting and SIGINT/EW effectiveness

- 10:50 AM Tech Talk Host Topic Introduction
- 11:00 AM SA Photonics, Inc., N121-036 (NAVAIR)
"Advanced Processing Electronic Attack (EA) Digital Radio Frequency Memory (DRFM)"
- 11:10 AM Numerica Corporation, N122-121 (NAVAIR)
Company Capability Brief
- 11:20 AM Out of the Fog Research LLC, N08-083 (ONR)
"Fast Tuning, Analog Notch Filters Subsequent"
- 11:30 AM Yankee Environmental Systems, Inc., N08-195 (ONR)
"Next-Generation Marine Atmosphere Observing Instrumentation"
- 11:40 AM Metamagnetics, Inc., N111-080 (ONR)
"Frequency Selective Limiters for Counter Directed Energy and Electronic Warfare Protection"
- 11:50 AM HYPRES, Inc., N141-064 (ONR)
"Modular, Multi-Function Digital RF Receiver"



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10:50 am – 12:00 pm

Annapolis 2

FST Tech Talk: C2 & Datalink Technologies

A wide array of advanced technologies including airborne, C2 and datalink networks, data/message traffic distribution and cognitive/software defined radio sets are explored

- 10:50 AM Tech Talk Host Topic Introduction - Mr. William Joo, SPAWAR
- 11:00 AM Real-Time Innovations, N111-054 (NAVSEA)
"Cloud-Based Real-time Data Dissemination and Scalable Storage for Track Management"
- 11:10 AM GIRD Systems, Inc., N141-035 (NAVSEA)
"JTRS Compliant Waveform for LCS Unmanned Vehicle Communications"
- 11:20 AM Syncopated Engineering, Inc., N151-064 (ONR)
"Cognitive Radio Architectures for Cyberspace Operations"
- 11:30 AM Scalable Network Technologies, Inc., N08-225 (SPAWAR)
"Waveform Model Enhancements for Parametric Traffic Generation"
- 11:40 AM Fuse Integration, Inc., N121-106 (SPAWAR)
"Tactical Troubleshooting Tool (T3)"
- 11:50 AM Fuse Integration, Inc., N151-015 (NAVAIR)
"Minimized Space, Weight and Power Network Architecture Solution"

11:00 am – 11:50 am

Annapolis 3

FST Tech Talk: Batteries

Aircraft battery improvements and a new battery for air-launched sonobuoys are discussed

- 11:00 AM Tech Talk Host Topic Introduction - Mr. David Hills, Airbus Americas
- 11:10 AM MaxPower, Inc., N092-110 (NAVAIR)
"Safe, High-Power Battery for Sonobuoys"
- 11:20 AM Lynntech, Inc., N152-093 (NAVAIR)
"Advanced Cathode for High Energy Li-Air Batteries"
- 11:30 AM TDA Research, Inc., N152-093 (NAVAIR)
"Innovative, High-Energy, High Power, Light-Weight Battery Storage Systems Based on Li-air, Li-sulfur (Li-S) chemistries"
- 11:40 AM Space Information Laboratories LLC, N15A-T001 (NAVAIR)
"Reliable, Safe, Lithium-ion Battery Enabled by a Robust Battery Management System"

11:00 am – 11:50 am

Annapolis 4

FST Tech Talk: Manufacturing Advancements

Advancements include additive manufacturing inspection, free form corrective optics manufacturing and carbon fiber broad goods; plus a tool for microchip inspection

- 11:00 AM Tech Talk Host Topic Introduction - Mr. Paul Huang, Navy ManTech
- 11:10 AM Intelligent Optical Systems, Inc., N15A-T008 (NAVAIR)
"In Situ Inspection of Additive Manufactured Metallic Parts Using Laser Ultrasonics"
- 11:20 AM OptiPro Systems LLC, N132-124 (NSMA)
"Corrective Optics Manufacturing for Aerodynamic Infrared Domes and Conformal Sensor Windows"
- 11:30 AM Composites Automation, N151-072 (ONR)
"Resin Infusible Carbon Fiber Unidirectional Broadgoods for Fatigue Dominated Applications"
- 11:40 AM Chip Scan, Inc., OSD141-IA2 (ONR)
"Detecting Malicious Circuits in IP-Core using Boolean Functional Analysis"

1:30 pm – 2:40 pm

Annapolis 1

FST Tech Talk: ASW & Undersea Warfare

Topics include advanced technologies supporting Anti-Submarine Warfare (ASW) and undersea warfare, including Unmanned Undersea Vehicles and Unmanned Surface Vehicles (UUV/USV)

- 1:30 PM Tech Talk Host Topic Introduction - Mr. Michael McComas, BAE Systems
- 1:40 PM Hydronalix, Inc., N102-182 (NAVAIR)
"Compact, lightweight Autonomous Underwater Vehicle (AUV) with robust navigation and range for riverine reconnaissance"
- 1:50 PM White River Technologies, N15A-T004 (NAVAIR)
"In-Air E-field Sensor for Airborne Applications"
- 2:00 PM White River Technologies, N08-218 (NAVSEA)
"Compact, Lightweight Magnetic Sensor for Small Unmanned Undersea Vehicles (UUV)"
- 2:10 PM Applied Research in Acoustics LLC, N131-045 (NAVSEA)
"Mitigation of Biologically Induced Active Sonar Reverberation in Littoral Regions"
- 2:20 PM Marine Acoustics, Inc., N151-055 (NAVSEA)
"Multi-ship Sonar Bistatic Automatic Active Localization"
- 2:30 PM Scalable Network Technologies, Inc., A04-132 (ONR)
"Scalable Analysis Environment for Underwater Communication Networks"

1:30 pm – 2:10 pm

Annapolis 2

FST Tech Talk: High Power System Components

Power control switches for Directed Energy and High Power Radio Frequency Microwave applications are described plus a new Gallium Nitride (GaN) semiconductor switch

- 1:30 PM Tech Talk Host Topic Introduction - Mr. Ryan Hoffman, ONR
- 1:40 PM ASR Corporation, N14A-T018 (ONR)
"Compact Megavolt Switch Utilizing Novel Switching Mediums"
- 1:50 PM Mainstream Engineering Corporation, N151-065 (ONR)
"Extreme Temperature, Low Loss Custom Power Switch"
- 2:00 PM Radiation Detection Technologies, Inc., N15A-T023 (ONR)
"Advanced Silicon Diode Switch for HPRF Systems"



2018 FST
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1:30 pm – 2:30 pm

Annapolis 3

FST Tech Talk: Warfighter and Expeditionary Support

Technologies for expeditionary medical uses, shelters and uniforms are described

- 1:30 PM Tech Talk Host Topic Introduction - Mr. John O'Donnell, NRL (formerly MCSC)
- 1:40 PM Nokomis, Inc., N142-084 (MARCOR)
"Detection of Permethrin in Military Uniforms via Microwave NDE"
- 1:50 PM TDA Research, Inc., N142-087 (MARCOR)
"Expeditionary Portable Oxygen Generation System"
- 2:00 PM ATA Engineering, Inc., N142-088 (MARCOR)
"High Efficiency Insulating Barrier for Expeditionary Shelters"
- 2:10 PM Propel LLC, N122-134 (NAVSUP)
"Seam Engineering: Stitchless Seam Technology"
- 2:20 PM Perceptronics Solutions, Inc., N151-069 (ONR)
"Medical Informatics Decision Assistance and Support (MIDAS)"

1:30 pm – 2:40 pm

Annapolis 4

FST Tech Talk: Engineering Tools – Modelling and Analytics

Modeling and simulation tools for manufacturing, especially composite materials; metrology of optics manufacturing is also discussed

- 1:30 PM Tech Talk Host Topic Introduction - Mr. Luis Velazquez, MARCORSYSCOM
- 1:40 PM Materials Research & Design, N10B-T050 (NAVAIR)
"Multi Scale Model Of Pin-Reinforced Foam Cores"
- 1:50 PM M4 Engineering, Inc., N12A-T004 (NAVAIR)
"Bonded Joint Analysis Method"
- 2:00 PM Composites Automation, N15A-T003 (NAVAIR)
"Novel Multi-scale/Multi-physics Integrated Tool for the Prediction of Manufacturing-Induced Defects in Autoclave Composite Airframe Parts"
- 2:10 PM Advanced Rotorcraft Technology, Inc., N15A-T009 (NAVAIR)
"High Fidelity Rotorcraft Towing Modeling and Simulation with Towed Magnetic Anomaly Detection System"
- 2:20 PM OptiPro Systems LLC, N152-105 (NSMA)
"Metrology of Visibly Opaque, Infrared-Transparent Aerodynamic Domes, Conformal Windows, and Optical Corrector Elements"
- 2:30 PM Bridger Photonics, Inc., N152-105 (NSMA)
"Metrology of Visibly Opaque, Infrared-Transparent Aerodynamic Domes, Conformal Windows, and Optical Corrector Elements"

1:30 pm – 2:30 pm

Baltimore 3-5

OSBP Acquisition Panel

"Government Contracting Panel"

- Moderator: Mr. Elliott Branch, Deputy Assistant Secretary of the Navy, Acquisition and Procurement
- Panelist: Mr. Jim Meade, Assistant Commander, Contracts, NAVAIR
- Panelist: Ms. Cindy Readal, Assistant Commander, Contracts, NAVFAC
- Panelist: Mr. Mark Bennington, Assistant Commander, Contracts, NAVSUP
- Panelist: Ms. Cindy Shaver, Division Director, Contracts, NAVSEA
- Panelist: Ms. Susan Tomaiko, Director, Undersea Systems Contracts, NAVSEA

2:10 pm – 2:50 pm

Annapolis 2

FST Tech Talk: Laser/Counter Laser

This cluster focuses on technologies for laser weapons systems, directed energy applications and real-time laser detection

- 2:10 PM Tech Talk Host Topic Introduction - Mr. Ryan Hoffman, ONR
- 2:20 PM NP Photonics, Inc., N092-119 (NAVSEA)
"Broadband High Power Mid-IR Supercontinuum Source"
- 2:30 PM Sensing Strategies, Inc., AF05-313 (ONR)
"High Energy Laser Locator System"
- 2:40 PM Advanced Systems & Technologies, Inc., N142-115 (ONR)
"High-Performance Deformable Mirror Technology Test and Evaluation Platform"

2:40 pm – 3:20 pm

Annapolis 1

FST Tech Talk: Sonar, Acoustics, Undersea Sensors

Submarine sonar and acoustics technologies are discussed in this cluster

- 2:40 PM Tech Talk Host Topic Introduction - Mr. Mandeep Nehra, NUWC Newport
- 2:50 PM ASSETT, Incorporated, N121-055 (NAVSEA)
"Affordable Scalable Acoustic Panel Arrays"
- 3:00 PM Daniel H. Wagner, Associates, Incorporated, N151-033 (NAVSEA)
"State Estimation Tool for Undersea Systems (SETUS)"
- 3:10 PM Daniel H. Wagner, Associates, Incorporated, N14A-T016 (ONR)
"Detection Avoidance System for Submarines (DASS)"

3:20 pm – 4:10 pm

Annapolis 4

FST Tech Talk: Ship Repair, Maintenance Technologies

Unique plasma technologies for cutting and paint/coating removal are explored in addition to confined space robotic inspection/repair and novel pipe reinforcement with friction stir welding

- 3:20 PM Tech Talk Host Topic Introduction - Mr. Michael Peretti, GE Aviation
- 3:30 PM Atmospheric Plasma Solutions, N151-022 (NAVAIR)
"Method for Removal of Airfield Paint Markings and Aircraft Tire Rubber Build-up from Installed AM2 Mat Surfaces"
- 3:40 PM EnergyTech, Inc., N123-157 (NAVSEA)
"Efficient, Cost-Effective, Low-Emissions Method to Cutting Nuclear Submarine and Aircraft Carrier Hulls"
- 3:50 PM Intelligent Automation, Inc., N141-042 (NAVSEA)
"GECKO: Agile and Dexterous Robot for Maintenance of Ship Tanks"
- 4:00 PM Creare LLC, N151-042 (NAVSEA)
"A Compact System for Shipboard Pipe Reinforcement"



2018 FST
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3:30 pm – 4:40 pm

Annapolis 2

FST Tech Talk: Prognostic/System Health Management

Sensors and analytic tools for structural, systems and computer network health and monitoring, including condition based maintenance are described

- 3:30 PM Tech Talk Host Topic Introduction - Mr. Alf Carroll, Raytheon
3:40 PM Metis Design Corporation, N10A-T042 (NAVAIR)
"Probability of Detection (PoD) Toolbox for Guided Wave based Structural Health Monitoring (SHM)"
3:50 PM RMCi, INC, N142-098 (NAVAIR)
"Universal Decoder for Airborne Generated Data"
4:00 PM Beacon Interactive Systems, N07-108 (NAVSEA)
"Prognostics and Health Management (PHM) for Afloat Information Technology (IT) and Network Services"
4:10 PM EOSPACE, Inc., N131-059 (NAVSEA)
"Novel, Very Wide-Bandwidth Characterization Technique"
4:20 PM Qualtech Systems, Inc., N141-030 (NAVSEA)
"Sense and Respond Technology Enabling Condition Based Maintenance (CBM)"
4:30 PM Intelligent Automation, Inc., N141-054 (NAVSEA)
"Predictive Condition-Based Maintenance for High-Powered Phased Array Radar Systems"

3:40 pm – 4:50 pm

Annapolis 1

FST Tech Talk: Mission Planning Tools

Mission Planning models and tools for UAV and Common Control System applications; includes toolsets for cyber vs. kinetic, Electronic Warfare/Electronic Attack and an AEGIS multi-sensor integrated surface tracking and fusion algorithm

- 3:40 PM Tech Talk Host Topic Introduction - Dr. Lisa Kearney, Raytheon SAS
3:50 PM Charles River Analytics, Inc., N122-124 (NAVAIR)
"Advanced Mission Planning Tools (AMPT)"
4:00 PM Daniel H. Wagner, Associates, Incorporated, N151-020 (NAVAIR)
"Fusion and Optimization for C2 of Unmanned Systems (FOCUS)"
4:10 PM Sonalysts, Inc., N151-021 (NAVAIR)
"Advanced Modeling and Visualization of Effects for Future Electronic Warfare Systems"
4:20 PM Barron Associates, Inc., N152-084 (NAVAIR)
"Test and Certification Techniques for Autonomous Guidance and Navigation Algorithms for Navy Air Vehicle Missions"
4:30 PM Numerica Corporation, N141-036 (NAVSEA)
"Surface Composite Tracker Component"
4:40 PM Vigilant Cyber Systems, Inc., N141-078 (ONR)
"Develop a Methodology for Cyber-Electronic Warfare Battle Damage Assessment (BDA) using Game Theory"

4:00 pm – 4:50 pm

Annapolis 3

FST Tech Talk: Composite Materials

New uses for composite materials in aircraft, ships, and submarines as well as turbine engines

- 4:00 PM Tech Talk Host Topic Introduction - Mr. Neil Graf, Navy ManTech
4:10 PM SciMax Technologies, N142-103 (NAVAIR)
"Innovative, Lightweight, Durable composite CH-53K Cargo Floor"
4:20 PM Materials Sciences Corporation, N112-142 (NAVSEA)
"Advanced Structural Development for Naval Hovercraft Ramps"
4:30 PM Advanced Ceramic Fibers LLC, N141-074 (ONR)
"Robust 2700 F MC/C Fiber Reinforced Matrices for Turbine Engines"
4:40 PM San Diego Composites, Inc., N132-142 (SSP)
"TRIDENT II Replacement Closure"

Wednesday, April 11

8:00 am – 12:00 pm

Woodrow Wilson

FST Exhibit Hall Open

8:30 am – 9:30 am

Baltimore 3-5

FST Readiness Panel

"SBIR/STTR Processes Support to Reduce Sustainment Costs"

- Moderator: Mr. Robert L. Smith, Director DON SBIR/STTR
Panelist: Mr. Martin Ahmad, Deputy Commander, Fleet Readiness Centers (NAVAIR)
Panelist: Brig Gen Erick T. Fick, USAF, Deputy Program Executive Officer for the F-35 Lightning II Joint Program Office
Panelist: CAPT Dave Back, PEO IWS

9:30 am – 11:30 am

Annapolis 1-4

SYSCOM/Prime Networking (Closed Event)

