Naval Information Warfare Center Atlantic

Advanced Naval Technology Experiments

ANTX

13th Annual
Charleston Defense Contractors Association Defense Summit

11 December 2019

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Advanced Naval Technology Exercises (ANTX) are a series of exercises led by the Fleet and the Naval Research and Development Establishment (NR&DE) where industry, academia, and Government R&D organizations are invited to demonstrate emerging tech that can address priority warfighting missions in 12- to 18-months.

▼ Inform emerging operational CONOPs
  ▪ DMO, EABO, LOCE, Swarm/C-UAS, etc

▼ Leveraging emerging technologies/ innovations – Industry/Govt/Academia

▼ Foster Innovation
  ▪ Bringing industry, the Fleet, govt technologists, acquisition together for collaboration and rapid learning

▼ Identify most promising technologies based upon thousands of technical and operational assessments conducted in operationally relevant environment

▼ Insights and recommendations to RPED, S&T and other investments
  ▪ Results provided to multiple stakeholders– ONR, MCWL, OSD, PEO’s, MCCDC, OPNAV, RCO etc
  ▪ Further experimentation often identified for FLEX or other events

▼ Concept Development insights and refinement
  ▪ Learning from experimentation directly feeds back into further concept development and refinement

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FNFF Task Force Summary

FNFF Task Force was developed by OPNAV N9 / DC CD&I / DASN(RDT&E) in August 2018

Initiating a Multi-Year Prototyping and Experimentation Campaign for an emerging and priority warfighting concept

Directs MCWL to conduct ANTXs to examine emerging technologies and concepts

Piloting new acquisition authorities, methods and tools

- Tactics and Technology Exploration and Experimentation (TNTE2)
- Middle-Tier Acquisition (NDAA16 Section 804)
- Commercial Solutions Opening (CSO)
Process

Fight the Naval Force Forward (FNFF) - Emergent warfighting concepts of distributed maritime operations (DMO), littoral operations in a contested environment (LOCE), and expeditionary advanced base operations (EABO).
Execute highly valued mission threads with emerging technologies, in Expeditionary Advanced Basing Operations (EABO), Littoral Operations in a Contested Environment (LOCE) and Distributed Maritime Operations (DMO) concepts.
Industry and Government Timelines ANTX 21

Industry Day
11/13 – 11/14

CSO Opens
April 1st

Technical Integration
Meeting (TIM) September

CSO Closes - July 1st

Invitations - August

ANTX21
March 2021

Dates subject to some fluctuation

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Planned Outreach

Industry Outreach

- CSO on FEDBIZ Ops/ecommerce
- Navy/Marine Corps OT Consortiums
- Standard Industry NAVWAR/NAVSEA Engagements
- Tech Bridges
- NavalX

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Post ANTX Contracting

ANTX21

March 2021

Demos
10 USC 2373

OTAs
10 USC 2371b

CSO
879

Prizes
10 USC 2374a

Middle Tier
804/806

Prototyping Opportunities:
OSD RPP
OSD RPF
USMC RCO
Experimentation:
FLEX
LSE2023
MEFEX

Informs

POM23

SBIR

POR

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Value Proposition

▼ Demonstrate potential of technology in new Operational Concepts (DMO, EABO)

▼ Fleet Engagement
  ▪ Direct feedback from active duty marines and sailors

▼ Exposure
  ▪ USMC — MCSC, CD&I, MCWL
  ▪ USN — NWDC, OPNAV

▼ Range Access
  ▪ Conducted at USMC/USN ranges

▼ Transition Potential
  ▪ Commercial Solutions Opening & Variety of new authorities
Serve our Nation by delivering information warfare solutions that protect national security. 

WIN THE INFORMATION WAR.

NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Glassdoor: https://www.glassdoor.com/Overview/Working-at-SPAWAR-Systems-Center-Atlantic-EI_IE638508.11,41.htm  
NAVWAR Contract Directorate Office: https://e-commerce.sscno.nmci.navy.mil  

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