



# Science & Technology Program

## 16 April 2008

**Dr. James Sheehy**  
**Chief Scientist / Technology Officer**  
**Human Systems, AIR-4.6T)**

E-mail: [james.sheehy@navy.mil](mailto:james.sheehy@navy.mil)

Phone: (301) 342-8480

# NAVAIR Sites



## TRAINING SYSTEMS DIVISION, ORLANDO, FL

Center for research, development, test and evaluation, acquisition and product support of training systems for the world.



## AIRCRAFT DIVISION, LAKEHURST, NJ

Provides aircraft launch and recovery expertise to the fleet.



## AIRCRAFT DIVISION, PATUXENT RIVER, MD

Provides acquisition management, research and development capabilities, air and ground test and evaluation, aircraft logistics and maintenance management for Naval aviation.



## WEAPONS DIVISION, CHINA LAKE & PT MUGU, CA

Provides our forces with effective and affordable integrated warfare systems and life cycle support to ensure battlespace dominance.



## NAVAIR DEPOT, NORTH ISLAND, CA

Provides comprehensive quality aviation support to the nation's warfighters.

Aircraft: F/A-18 Hornet; E-2C Hawkeye; C-2 Greyhound; S-3 Viking; H-60 Seahawk



## NAVAIR DEPOT, CHERRY POINT, NC

Delivers on time quality products and services for Naval aviation as service to the fleet.

Aircraft: AV-8B, Harrier; H-53, Sea Stallion; C-130, Hercules; H-46, Sea Knight; V-22, Osprey; VH-3, Presidential Helicopter



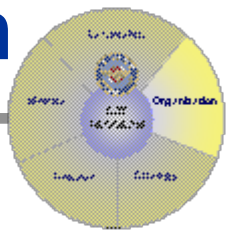
## NAVAIR DEPOT, JACKSONVILLE, FL

Delivers high quality maintenance, engineering, logistics and support services to the fleet.

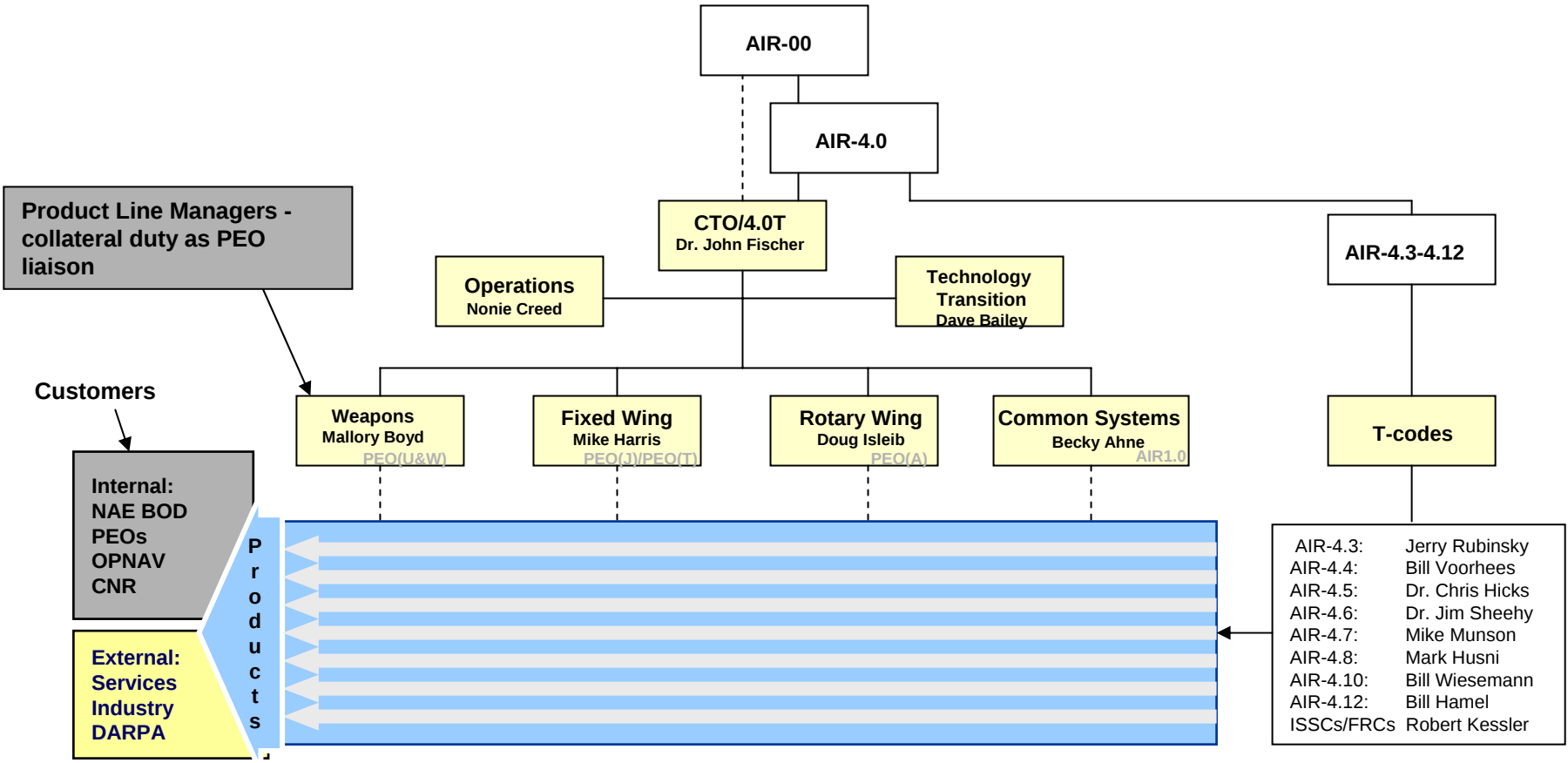
Aircraft: P-3 Orion; EA-6B Prowler, F-14 Tomcat, F/A-18 Hornet; S-3 Viking; SH-60 Seahawk



# Science & Technology Organization

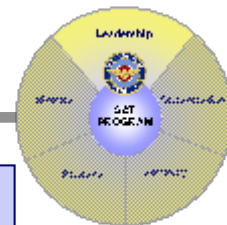


*The S&T Program is managed by an Integrated Program Team of Product Line Managers and NAVAIR Technologists (T-codes)*





# Chief Technology Officer (CTO)



*CTO engages internally and externally to develop an S&T Program that responds to capability needs with innovative technology solutions*

## ***External Focus***

- Maintain knowledge of Naval Aviation needs through strong ties to the warfighting community
- Continually seek innovative solutions for warfighter needs. Champion for innovative ideas that do not address a specific need
- Foster relationships with potential technology providers (DoD, Industry, Academia, etc.)
- Support ASN(RDA), Chief of Naval Research and other Enterprise CTOs in planning and executing an effective Navy S&T Program

## ***Internal Focus***

- Primary advisor to AIR-00, Naval Aviation Enterprise (NAE) Board of Directors and Program Executive Officers for technology issues & investments
- Advisor to AIR-00 & AIR-4.0 for issues related to S&T workforce & infrastructure, including workforce revitalization efforts
- Monitors health of S&T portfolio and progress toward delivery of capability through the use of approved metrics & processes



# NAE S&T Objectives

## ◆ 32 NAE S&T Objectives

- Represents the *goals* of the NAE S&T program. Used as the baseline for identifying, prioritizing, aligning, and synchronizing S&T efforts throughout the enterprise.
- Derived from 340+ capability needs provided by warfighters
- Developed by a Working Group comprised of warfighters
- Coordinated throughout the enterprise
- Aligned with ONR Focus Areas, Joint Capability Areas, and Sea Power 21 Pillars
- Support scenarios contained in Naval Aviation Capability Needs 2030-2050

## ◆ NAE STOs will be presented at 18 April NAE BOD meeting for approval/signature

- NAVAIR and CNAF already briefed, ready to approve STO Document



### Naval Aviation Enterprise Science and Technology Objectives

Commander Naval Air Forces

Commander Naval Air Systems Command

Director, Air Warfare Division

30 April 2008

VADM Thomas J. Kilcline, Jr.  
Commander, Naval Air Forces

VADM David J. Venlet  
Commander, Naval Air Systems Command

RADM Allen G. Myers  
Director, Air Warfare Division



# STO Distribution (by Capability Gap Area)

**32 Total STOs**

- Force Protection (FP) **(3)**
- Surface Warfare (SUW) **(1)**
- Under Sea Warfare (USW) **(3)**
- Theater Air and Missile Defense (TAMD) **(2)**
- Strike Operations (STK) **(7)**
- Deploy and Employ Forces (DEF) **(3)**
- Integrated Logistics Support (ILS) **(1)**
- Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) **(6)**
- Enterprise and Platform Enablers (EPE) **(1)**
- System Safety, Availability and Affordability (SSAA) **(2)**
- Naval Warrior Performance (NWP) **(3)**

**# of STOs**



# Summary

---

- ◆ NAE is improving the way it plans and manages the S&T program
  - CTO organization
  - Processes
  - Metrics
- ◆ Developed 32 S&T Objectives (STOs)
  - Developed by warfighters, technologists and intelligence community
- ◆ Work closely with ONR to ensure that NAE objectives are communicated and advocated
- ◆ CTO office supports OPNAV efforts in science and technology
  - Identifying capability needs
  - Identifying appropriate funding venue
  - Update on programs/projects



---

**Dr. John Fischer**

**Director, Systems Engineering (AIR-4.1)**

**Chief Technology Officer (AIR-4.0T)**

E-mail: [john.fischer@navy.mil](mailto:john.fischer@navy.mil)

Phone: (301) 757-2328