

2007 Monterey Homeland Security Conference
23 Aug – Afternoon Session
*(Communications, Operations, Interoperability
and Advanced Data Analysis)*

Net-Centric Operations/Net-Enabled Operations (NCO/NEO) and Interoperability

This session will present thoughts on how, in developing net-centric capabilities and operational improvements for the Next Generation Air Transportation System (NextGen), we can simultaneously improve air situational awareness and execution for local, state, and federal responders for counter terrorist or disaster response operations as well as give insight into how critical net-centric capabilities are for systems interoperability. NCO/NEO is the core foundational element for delivering early and tangible results in a NextGen system. The forum will begin by discussing a current multi-agency program designed to explore, develop and deliver net-centric capabilities to meet current operational and technical challenges. We will discuss the characteristics of the Joint NEO Program, a joint government/industry effort, and its approach to achieving real-time civil/military collaboration, shared situational awareness and execution capability for C² personnel conducting contingency operations and enhanced security operations. This program will show how secure, real-time air and ground communications, common surveillance information, and shared awareness and understanding can deliver both increased security-assurance capabilities and operational benefits to DHS, FAA, DoD, and other aviation stakeholders. Based on this discussion and questions from the audience, the discussion will turn to overall applicability of the NextGen Net-Centric concepts and technologies to DHS S&T activities and interest items.

Session Framework

The panel session is set up with sufficient length to get the dialog rolling. Panel session will last for two hours followed by individual speakers. The following will be the format of the session:

Opening Presentation	25-30 minutes (Session Chair)
Panelist Comments	1 hour 15 minutes (10/15 mins each panelist)
Interactive Session	15 minutes (includes Q&As)
Speaker #1	30 minutes (Dr. Bryan Gorman)
Speaker #2	30 minutes (Mathias Kölsch)
Speaker #3	30 minutes (Professor Susan Sanchez)
Speaker #4	30 minutes (Ronald Glaser)
Closing	1-2 minutes (Session Chair)

Session Chair:

- *Gene Hayman*, Boeing

Panelists:

- *Dave Rhodes*, Computer Sciences Corporation (CSC)
- *Steve Rogowski*, Raytheon
- *John Zuna*, Lockheed Martin
- *David Sweet*, Boeing
- *Jim Dieudonne*, Federal Aviation Administration (FAA)

Speakers:

- *Dr. Bryan Gorman*, Oak Ridge National Laboratory
- *Mathias Kölsch*, Computer Science, NPS
- *Professor Susan Sanchez*, SEED Center, NPS
- *Ronald Glaser*, Sandia National Laboratories

Panel Participate Bios

***Gene Hayman* (Session Chair)**

Mr. Gene Hayman is currently the co-lead of Boeing's Advanced Air Traffic Management group. In this capacity, he is responsible for developing and executing the strategic and business development plans that are associated with the advancing a next generation air transportation system. He also serves as the Chair of the Executive Steering Committee for the Joint NEO Industry Team and is the co-Chair of the Joint Planning and Development Office's (JPDO) Net-Centric Operations Working Group.

Mr. Hayman came to Boeing after 20 years in the industry working with aviation, engineering and IT solution firms where he has served in roles such as Vice President of Operations, Chief Technology Officer, and Chief Operating Officer. He holds a Master's Degree in Business Administration.

***Dave Rhodes* (Panelist)**

Mr. Dave Rhodes is the Director for Advanced Air Traffic Management Solutions, Transportation Solutions, Computer Sciences Corporation. Part of CSC's senior management team since Sep 2006, his responsibilities include strategic planning for CSC's role in the Next Generation Air Transportation System, thought leadership for inter-modal transportation solutions, and oversight of CSC's Advanced Air Traffic programs.

Colonel (ret.) Rhodes came to CSC from 27 years in the Air Force, culminating in a Pentagon tour as Director Information Integration for Homeland Defense, Director of the DoD Task Force on the Response to Hurricane Katrina, and the DoD lead to the JPDO and the Director of the JPDO Interagency Shared Situational Awareness Integrated Process Team. A Fighter Pilot and a White House Fellow, Colonel Rhodes's tours ranged from five Southwest Asia combat tours to Faculty member to Special Advisor for National Security Affairs to the Vice President.

Steve Rogowski (Panelist)

Mr. Steven Rogowski currently serves as Manager of Advanced Programs for Raytheon Company in the Airspace Management and Homeland Security business area. In this role, Mr. Rogowski focuses on collaborative research and development efforts in transportation and security.

Mr. Rogowski has over twenty years of engineering and program management experience in technologies ranging from communication, surveillance, air space operations, advanced avionic concepts, display technologies, network centric operations, and homeland security solutions. He has managed programs in areas of advanced research, design, and system integration for both domestic and international customers in countries including Australia, Poland, and Finland. Advanced research programs have included airport surface management research in conjunction with NASA, the FAA, FedEx and other industry partners which was presented NASA's 2004 Turning Goals into Realty (TGIR) award.

Steve holds a B.S. in Electrical Engineering from the Rochester Institute of Technology and a master's degree in business administration from Worcester Polytechnic Institute

John Zuna (Panelist)

Mr. John Zuna is a Lockheed Martin Qualified Systems Architect with over 27 years experience on a variety of engineering programs. He is currently Program Manager for the Enhanced Air Security (EAS) and Network Enabled Operations (NEO) programs at Lockheed Martin Transportation and Security Solutions in Rockville Maryland.

John holds a bachelors degree in Computer Science from University of Maryland and a Masters degree in Computer and Information Science from Hood College.

David Sweet (Panelist)

Mr. David Sweet is an Operational Subject Matter Expert for Boeing on the Joint NEO Program. Mr. Sweet had over 23 years working for the Boeing Company on various programs. His last assignment was Director of Advance Projects for Boeing's Air Traffic Management group. His previous assignments included Mobility Systems, Network Centric Operations Concepts, Helicopter and Defense groups, and has been involved working policy issues for Boeing's Washington D.C. Ops group.

Prior to Boeing David specialized in Manned & Unmanned Tactical Aircraft, Electronic Command/Control Systems and was a Principle Systems Analyst with ARINC. He also spent 7 years as an Air Force Officer working Aircraft Systems development.

Jim Dieudonne (Panelist)

Senior Principal Engineer in the area of Communications, Navigation, and Surveillance systems and their integration into Air Traffic Management systems. Mr. Dieudonne functions as a “Greybeard” in all aspects of MITRE’s CNS/ATM efforts, and is currently on an IPA assignment to the FAA as Chief Engineer for Data and Communication Systems

In 1979, Jim joined the MITRE Corporation supporting the FAA’s Research and Development efforts. These efforts included the areas of Mode S and its data link, and surveillance radar systems, and data link applications. Recently, Jim has been drawn into Homeland Security effort in the area of air surveillance and the development of secure Commercial and General Aviation operations.

Doctor of Engineering (Equivalency) in EE from University of Virginia, MS in EE from George Washington University, and BS in Physics from University of Louisiana at Lafayette.

Dr. Bryan Gorman (Speaker)

Oak Ridge National Laboratory

Mathias Kölsch (Speaker)

Assistant Professor of Computer Science, NPS

Professor Susan Sanchez (Speaker)

Co-Director SEED Center, NPS

Ronald Glaser (Speaker)

Program Manager, Sandia National Laboratories