

## Strategic Interagency Collaborations

### Sandia Hosts Input Sessions for DHS R&D Strategy Briefings

Recently Sandia/California hosted Paul Benda, the Director of the Department of Homeland Security Science & Technology/Homeland Security Advanced Research Projects Agency (HSARPA), for a day of R&D Strategy briefings. Four key strategies were briefed: US Secret Service, Cyber Security, TSA Aviation Security, and Chem/Bio. Representatives from SNL/NM, LLNL, LANL, ORNL, PNNL and DHS S&T (either present or video linked) were in attendance. Benda asked for the Labs' input saying he "considers us trusted partners" who can offer broad experience in the development of these strategies before rolling them out to academia and industry.

## Highlights and News

### Sandia Earns Excellence in Technology Transfer Award

Sandia National Laboratories has been selected by the Federal Laboratory Consortium (FLC) as a winner of the 2013 Award for Excellence in Technology Transfer for the *Removal of Radioactive Cesium from Seawater Using Crystalline Silico-Titanates (CSTs)*. CSTs are synthetic zeolites designed by Sandia scientists to selectively capture radioactive cesium and other group I metals. CSTs were used in Japan following the Fukushima Daiichi nuclear power plant accident to remove radioactive cesium from contaminated seawater which had been used to cool the plant's reactors. Previously CSTs were selected for Tech Transfer Award at the FLC Far West/Mid-Continent Regional Awards Program.

### Sandia AANC Holds Workshop on Structural Health Monitoring

A workshop providing training and formalized procedures on the installation and use of Structural Health Monitoring (SHM) systems was conducted at the Sandia Labs AANC hangar facility. SHM uses a network of distributed sensors that can automatically process data, assess structural condition, and signal the need for human intervention. Specifically, this workshop was used to prepare for upcoming flights tests of Comparative Vacuum Monitoring sensors on Delta Air Lines aircraft. Workshop participants included Boeing, Delta, AAR Aircraft Overhaul Services, Anodyne Electronics Manufacturing Corp, Structural Monitoring Systems and the FAA. The 737 test bed aircraft shown in Figure 1 was used to assist in the sensor installation training since the target application with Delta Air Lines pertains to health monitoring of the 737 wing box.

### Sandia's Kauai Test Facility Celebrates 50 Years

Established at the height of the Cold War, Sandia's Kauai Test Facility (KTF) celebrated its 50<sup>th</sup> anniversary this year with over 400 launches to its credit. Recently, a target rocket launched from KTF was successfully intercepted by the Navy's newest interceptor missile, the Standard Missile-3 Block IB.



**SHM Workshop Participants at the Sandia Labs Airworthiness Assurance Hangar Facility**

## Technical Issues and Path Forward

- None reported

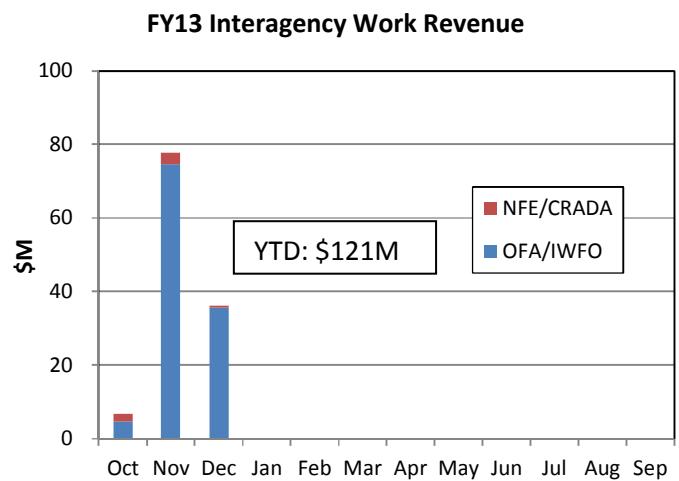
## Process Improvements

- None reported.

## Two Month Look Ahead

- National Counter Intelligence Executive Frank Montoya will visit Sandia as part of the National Security Speaker Series on January 17, 2012.
- Professor Gordon Adams of American University will visit Sandia as part of the National Security Speaker Series on February 14, 2012.

## FY13 Budget Report



Note: Does not include additional 5% Budget Authority (BA) requested on 9/13/12