

AFRL

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THE AIR FORCE RESEARCH LABORATORY



Eglin AFB, FL – The Golden Horde team successfully completed the three objectives of the final flight test of its modified Boeing Small Diameter Bomb I at White Sands Missile Range, N.M. Two F-16s from the 96th Test Wing Eglin Air Force Base simultaneously released weapons, with four released from one aircraft and two weapons released from the other. As in previous

missions, the weapons established communications with each other. This Department of the Air Force Vanguard program focuses on advanced Networked, Collaborative and Autonomous weapon capabilities through live and virtual testing. The first objective expands the radio network from the previous two and four weapons in flight to six weapons in flight, as well as a ground station.

The second objective sends an In-Flight Target Update from a ground station to the flight weapons to engage a new high priority target. An IFTU message transmits from outside the weapon swarm, and directs the swarm to act on it. This demonstrates the ability of Golden Horde weapons to interface with the larger Joint All-Domain Command and Control network. [Full Story](#)

MEDIA ARTICLES

Disruptive Technology: The Quantum Frontier

Airman Magazine

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Air Force's JADC2 Contribution Shifting to Operational Status

Nextgov

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Air Force brings Hack-a-Sat back for second year

FedScoop

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Kratos to deliver first XQ-58A Valkyrie production unit...to USAF

FlightGlobal

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Why the Pentagon is Focused on the Hypersonic Missile Race

The National Interest

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New Lab Focuses on Space Warfighting Capabilities

Kirtland AFB, NM – AFRL held a ribbon cutting ceremony to open its newest facility, the Space Warfighting Operations Research and Development, or SWORD, laboratory. Col. Eric Felt, the director of AFRL's Space Vehicles Directorate, hosted the event with AFRL commander, Maj. Gen. Heather Pringle as the presiding

officer and keynote speaker. The SWORD Lab is a 26,000 square foot, \$12.8 million state-of-the-art facility, with office and laboratory space that will house the 65 scientists, engineers and support staff of the directorate's Space Control Branch to better integrate R&D programs focused on improving space warfighting capabilities.

"One of the reasons we stood up the U.S. Space Force was to ensure our nation has the capabilities to deter any threats in space," said Felt. "Our job in the SWORD lab will be to continue to develop resilient and innovative technologies that will protect our nation and allies from threats by our adversaries." [Full Story](#)



AFRL Engineer Graduates from First-ever Space Test Course

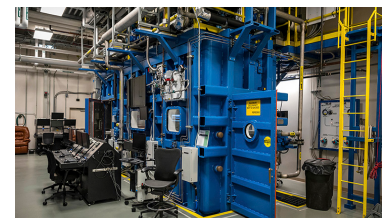
Kirtland AFB, NM – Air Force Research Laboratory astronautical engineer Evelyn Kent is among the graduates of the U.S. Air Force Test Pilot School's inaugural Space Test Fundamentals course. The new program for space professionals included 15 students made up of Airmen and Guardians. Kent was one of two civilians selected to attend the 13-week course held at



Edwards AFB, California earlier this year. [Full Story](#)

New Research Altitude Chambers Increase Aerospace Capability

WPAFB, OH – AFRL added a new aerospace physiology research and training device that addresses the effects of altitude on aircrew and equipment to its list of capabilities. The Research Altitude Chambers, or RAC, a family of four computer-controlled altitude chambers, joins AFRL's centrifuge and the Naval Medical Research Unit-Dayton's (NAMRU-D) Kraken, completing



the trifecta of aerospace physiology facilities...[Full Story](#)

AFRL DIGITAL MEDIA SPOTLIGHT

AFRL Tech: Solid Rocket Motor Factory in a Box

New methods are required to accelerate tech transfer and reduce barriers of entry to commercial firms. Production on Demand seeks to advance four manufacturing technologies and develop an AFRL native rapid and flexible SRM prototyping capability." Learn more about this technology. [Watch Video](#)



AFRL Virtual Town Hall

Maj. Gen. Heather Pringle, who recently traveled to many of the AFRL sites across the country, shared some of her amazing experiences seeing our people and facilities in person! [Rewatch Here](#)



AFRL Lab Life Podcast: Episode 45

Beyond Antarctica - Test Pilots & Space. Major Michael Nayak, now with the Air Force Test Center, returns to the podcast to discuss his time at test pilot school and the culture around space testing. [Listen Here](#)



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