



DUGWAY VALIDATING CHEMICAL ANALYZERS TO HEIGHTEN ACCURACY



"CALs has a different mission than typical detectors, like JCAD," Serguevski said. "While JCAD's primary purpose is to warn of a hazard, CALs is tasked with confirmation and identification."

Test Officer Petr Serguevski before the sealed, filtered glove box where the Common Analytical Laboratory System (CALs) test is underway at U.S. Army Dugway Proving Ground, Utah. Validating procedures for portable labs and hand-carried analyzers will aid precise identification of chemical agents and toxic industrial chemicals after an attack or incident. Photo by Al Vogel / Dugway Public Affairs

By Al Vogel
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Dugway personnel are testing a variety of chemical analyzers to validate procedures that will more precisely identify chemical

agents and toxic industrial chemicals after an attack or industrial incident.

Testing of the Common Analytical Laboratory System, or CALs, will enable military

operators of portable labs and hand-carried analyzers to identify chemical and biological threats with greater accuracy. Dugway is validating procedures for chemical analyzers; Edgewood

Chemical and Biological Center in Maryland will validate procedures for biological analyzers later this year.

The CALs test is in three phases, with phases one and two at Dugway; the third phase is at Edgewood. Petr Serguevski, test officer for the CALs test at Dugway, said that testing involves challenging commercially available chemical analyzers with chemical agents and toxic industrial chemicals. Some analyzers are currently in use by U.S. forces. "CALs has a different mission than typical detectors, like JCAD (a brick-sized Joint Chemical Agent Detector used by U.S. forces)," Serguevski said. "While JCAD's primary purpose is to warn of a hazard, CALs is tasked with confirmation and identification."

Testing of CALs analyzers is both developmental and operational, Serguevski noted.

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Donald E. Smith
 Garrison Manager

FINAL FAREWELL

Dugway Makes A Difference

My five years at Dugway have been memorable and went by way too quickly. A lot of extraordinary people dedicated to making Dugway successful. Being Remote & Isolated creates its own set of challenges but they're also a unique set of opportunities. Just because some are focused on Dugway being a "small" Installation, it does not mean the workload is small.

Everyday scores of people are working hard and within everyone the desire is to do well. This inner drive is what makes Dugway a premier installation, it's the people.

I will always remember Dugway, its unique mission, unique challenges that keep your skills sharp and most of all the people. It's a patchwork of skills that really defines Dugway. It's actually not the Chemical/Biological Defense mission defining Dugway. Everyone working here is the defining element.

I'm grateful for the opportunity to work on Dugway and for everyone I've had the great fortune to meet. I thank everyone for the unique opportunity, wish everyone the best and will always remember Dugway.



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FINAL FAREWELL



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SEA CADETS



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DUGWAY WEST FEST

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WOODCHUCK THUNDER



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SLOW DOWN!

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AND MUCH MORE

VALIDATING . . .

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The HazMat ID 360 is one of the chemical hazard detectors undergoing Common Analytical Laboratory System (CALs) testing at U.S. Army Dugway Proving Ground, Utah. It can identify more than 32,000 solids, liquids and gels in less than a minute, according to its manufacturer. Photo by Al Vogel / Dugway Public Affairs

Developmental testing verifies that the chemical analyzer meets all technical requirements. Operational testing uses production representative systems and procedures, with Dugway test personnel acting as users.

Part of each CALs phase includes testing for reliability, availability and maintainability: "How well it stands up to

handling, how easily it's repaired," Serguevski said. "This information is used to determine the logistical needs and maintenance requirements."

During Dugway testing, analyzers of various types are tested in a glove box – a sealed chamber that allows equipment to be manipulated with chemically impermeable

gloves. Inside the glove box, analyzers are exposed to chemical warfare agents and toxic industrial chemicals typically encountered in a clandestine lab or industrial accident.

Because a chemical attack or incident could be anywhere, in any season, the chamber's environment is adjustable, exposing analyzers to

temperature and humidity extremes while procedures are validated.

Dugway's phase one CALs test challenges portable chemical analyzers, small enough to be carried, that identify chemical threats in liquid, solid or air samples. Phase two at Dugway will challenge benchtop analyzers for a mobile lab that can identify, with higher specificity, a wider range of chemicals at lower levels. "It's kind of a full-feature lab that can handle sample extraction and analysis using a variety of techniques, like a gas chromatograph, liquid chromatograph, Fourier transform infrared spectroscopy and Raman spectroscopy," Serguevski

said.

Setup for the Dugway phases of CALs began in March, and included training for each of the test's dozen personnel. Testing is 24 hours a day, five days a week, to maximize the efficient use of labs, equipment and the portable chambers, Serguevski said. CALs testing at Dugway is expected to continue into 2017.

Ultimately, the CALs test will ensure that U.S. service members, employing uniform procedures validated in Utah and Maryland, may trust their analyzers to accurately identify a chemical or biological threat and easily share the information among services.



Nathan Otasua, test control officer for the Common Analytical Laboratory System (CALs) test at Dugway Proving Ground, collects data and makes notes. Otasua is also a glovebox chamber operator. Photo by Al Vogel / Dugway Public Affairs



CONGRATULATIONS



Join us in congratulating MAJ Stephen Cho on his recent promotion. Major Cho is the director of operations at the Dugway Health Clinic in English Village. View Major Cho's complete promotion ceremony on the Dugway YouTube channel.

"Commit To Be Fit"

July - October
7:30 AM - 8:30 AM

Road Biking



Mountain Biking



Every Thursday

- Week #1 Road Biking (Shocklee Fitness Center & Ditto Flag Pole)
- Week #2 Trail/Road Run (5 Mile Hill)
- Week #3 Mountain Biking (5 Mile Hill)
- Week #4 Run/Walk Shocklee Fitness Center & Ditto Flag Pole

SPECIAL EVENT

September 29th

ARMY P.T.

Shocklee Fitness Center

Trail/Road Run



Run/Walk



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SEA CADETS TOUR RIAC DRONES AT DUGWAY

By Al Vogel
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To 16 Naval Sea Cadets from around the nation, a tour of the Rapid Integration Acceptance Center was intriguing and perhaps a glimpse at their future career.

The teens, ages 14 to 18, who visited RIAC are the nation's first Sea Cadets to take advanced training on unmanned aircraft and their systems. Their studies are adapted from basic and advanced courses developed by Special Operations Command, a unified command with elements of the Army, Navy and Air Force.

Marc Russon, an engineer with L-3 Communications in Utah, is a volunteer education services officer for the Utah division of Sea Cadets. Russon adapted the SOCOM courses for Sea Cadets, emphasizing STEM: Science, Technology, Engineering, Math. The adapted course includes experiments in thrust, lift and drag, and exercises in navigation and mission planning.

The Sea Cadets were among 150 cadets attending two weeks' drill at the Naval Operational Support Center at Fort Douglas. Russon and Ensign April Cusumano of the Phoenix, Arizona division accompanied the cadets on their 105-mile visit to RIAC from Fort Douglas. The visitors came from New York, Massachusetts Florida, Oregon, California, Pennsylvania, Arizona, Virginia and Utah.

The Navy Sea Cadet Corps is sponsored by the Navy League of the United States, and supported by the U.S. Navy and Coast Guard. Cadets have no military obligation but they learn leadership, self-discipline, and are encouraged to pursue higher education.

A tenant unit on Dugway, RIAC is under the Army's Project Manager, Unmanned Aircraft Systems at Redstone Arsenal, Alabama. RIAC's mission is to test unmanned aircraft and systems for quick distribution to Warfighters. Unmanned military aircraft may carry missiles, relay communications, conduct surveillance, pinpoint targets or drop critical supplies to ground forces. "Visiting the RIAC was an extraordinary experience for our Cadets and



Sixteen Sea Cadets, and their two adult leaders, in front of a U.S. Army Gray Eagle unmanned aircraft at the Rapid Integration Acceptance Center at Dugway Proving Ground, Utah. The cadets were from all over the U.S., attending drill for two weeks at Fort Douglas, 105 miles from RIAC. They are the first Sea Cadets to be in an advanced study program on unmanned aircraft. Photo by Al Vogel, Dugway Public Affairs

is clearly the highlight of their training," Russon later said. "Seeing the systems up-close that they have been studying transforms the material from

briefing. "We always love talking to the young adults and helping them learn what they want to do," Gillum said. "I don't think the young fully

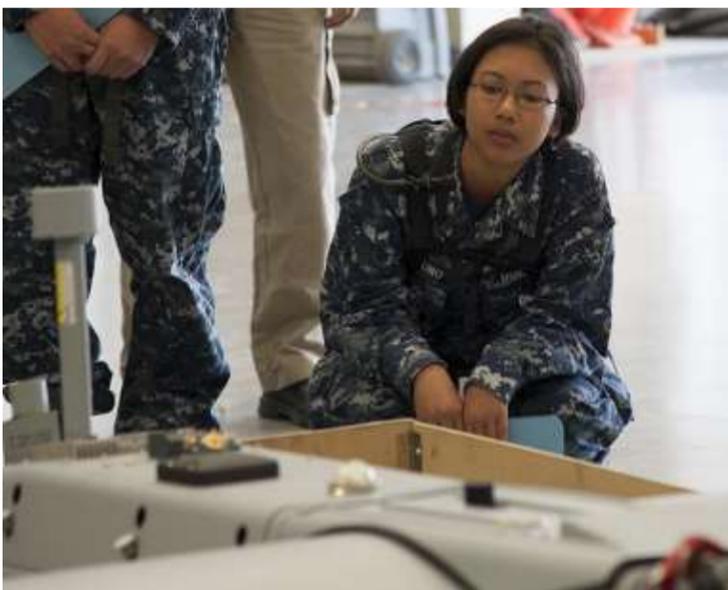
Shadow, Gray Eagle and Warrior in hangars, where operators discussed each aircraft's specifications and capabilities. Cadets also spoke with operators in a control station, amazed at the array of screens and instruments both operators must monitor while flying unmanned aircraft.

Each of the Sea Cadets was presented with a certificate of participation, signed by Col. Courtney Cote, the Army's Project Manager for

military enlistment.

Sea Cadet Brian Kadur, age 18, said he most enjoyed, "Seeing the aircraft, how they worked, their munitions, endurance and combat opportunities." "It was the coolest thing I've been to," said Sea Cadet William Christianson Jr., 15, "Just seeing all the drones and how advanced the technology is."

Heather Clegg, RIAC Shadow operations lead, was impressed by the Sea Cadets.



A Sea Cadet looks over an access panel on an Army Gray Eagle unmanned aircraft, at the Rapid Integration Acceptance Center at Dugway Proving Ground. Under the command of Project Manager, Unmanned Aircraft Systems at Redstone Arsenal, Ala., RIAC is a tenant unit at Dugway. Sixteen Sea Cadets nationwide, aged 14 to 18, are studying advanced courses on unmanned aircraft and their systems. Photo by Al Vogel, Dugway Public Affairs

abstract notions to concrete, real-world capabilities."

Cusumano, the other adult volunteer, had high praise for RIAC. "Knowing our world, our country, can rest in safety due to the amazing minds of the drone creators and our military is the best feeling in the world!" she emailed. "Seeing everything that is put into a drone, in person, increases my respect tenfold."

Jennifer Gillum, director of RIAC, and Nate Critchlow, RIAC's senior test officer, began the cadets' tour with a

realize how math and engineering contribute to national security, when you look at both programs we have out here, RIAC and Dugway's (chemical and biological defense) mission."

Critchlow spoke of unmanned aircraft using certain high-tech methods to detect improved explosive devices. "With the normal human eye you can't see these things," Critchlow said. "We're saving lots and lots of lives with that capability."

The Sea Cadets viewed



Each of the Sea Cadets received a certificate of participation from Jennifer Gillum, director of the Rapid Integration Acceptance Center, and Col. Sean Kirschner, commander of Dugway Proving Ground. Photo by Al Vogel, Dugway Public Affairs

Unmanned Aircraft Systems. Col. Sean Kirschner, commander of Dugway Proving Ground, praised the Sea Cadets' patriotism, and urged them to get a good education, stay fit, maintain a moral compass and consider

"It's great to see young adults wanting to support the Warfighter at such an early age. I didn't think they realized how much (unmanned aircraft) have to offer in different fields -- and now they know."

WEST FEST SEPTEMBER 10TH

COMMUNITY CLUB 4:00 PM - 8:30 PM

GAMES AND ACTIVITIES

*Mechanical Bull
(Buck-off Tournament)*

Pony Rides

Community Talent Show

Climbing Wall

Bouncy House

Ladder Golf

Baggo

FIREWORKS



BBQ



Chili Cook-off



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JACOBS

The Lone Ranger (PG-13)

Sportsman's Lodge

9:00 PM - 11:00 PM



To sign up for the talent show and chili cook-off call:

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- MAJ Cho Promotion
- Solar Array Ribbon Cutting
- Town Hall Meeting
- DPG Commanders Cup

www.youtube.com/channel/UCPjFIEBY7j7ay6m7FouadqQ



UDOT UPDATE

Information provided by the Utah Department of Transportation

Ongoing Activities:

- Crews will be working on the road shoulders through Johnson's Pass and then will start on SR-196.
- Beginning as early as Thursday, August 18, crews will begin repaving from milepost 16 east through Rush Valley and then head west. Residents can expect intermittent access delays at driveways and side streets. The roadway will be restricted to one lane with flaggers. Motorists can expect delays of up to 15 minutes. Expect intermittent access limitations as machines move through roadways and driveways. Work will occur Monday through Saturday from 7:30 a.m. to 8:00 p.m. Construction activities, dates and times are subject to change due to weather or delays.

For the latest information, sign up for project email updates at sr199@utah.gov or by calling the hotline 888-556-0232. For more information, visit www.udot.utah.gov/go/sr199.

COMMUNITY CALENDAR

AUGUST 2016

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2 Garrison Staff Meeting - 0800 - Rm 1202	3 West Desert Staff Meeting - 0800 Ditto Story Time & Crafts 1000 - Library	4 Solar Array Ribbon Cutting Ceremony - 1000 SAC Field Trip to Lehi Aquatic Center	5	6 National Night Out/Back to School Splash
7	8	9 SAC Field Trip to Deseret Reservoir	10 Command Staff Meeting - 0830 Kuddes Story Time & Crafts 1000 - Library	11 Red Cross Blood Drive Summer trap Shoot Event - 1800 SAC Field Trip to Living Planet Aquarium	12	13
14	15	16 Garrison Staff Meeting - 0800 - Rm 1202	17 Story Time & Crafts 1000 - Library	18 SAC Field Trip to Lagoon Amusement Park	19 Wendover Overnighter 19 - 20	20
21	22	23	24 SK Challenge III (Aug 15 - 24) V.I.P Day	25 Mongolian BBQ	26	27 Geode Bed Trip
28	29 Farewell Party for Mr. Smith - 1500 Community Center Multi-purpose Room	30 USAG Change of Responsibility Ceremony - Time: 0900 Community Club	31			

THE DISPATCH

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Wendover Overnighter August 19-20

For more information on accommodations and room rates call:
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