



# THE DISPATCH

U.S. ARMY DUGWAY PROVING GROUND



October is

Domestic Violence Awareness Month

VOLUME 2, NUMBER 10A

www.dugway.army.mil

October 2016

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# HAZARDOUS MATERIALS MODEL VALIDATED BY CHLORINE RELEASES AT DUGWAY

By Dugway Proving Ground Public Affairs

U.S. Army Dugway Proving Ground recently conducted multiple, large 10-ton chlorine gas release trials and one 20-ton release during a four-week period to gather critical data and develop more accurate response procedures for military warfighters overseas and civil emergency responders here at home.

The one-of-a-kind tests, labeled Jack Rabbit II, are critical and will help build and validate models for safeguarding our nation against accidental or intentional releases of chlorine, a toxic industrial



“The one-of-a-kind tests, labeled Jack Rabbit II, are critical and will help build and validate models for safeguarding our nation against accidental or intentional releases of chlorine, a toxic industrial chemical.”

cars and 20-ton tanker trucks, so the threat is imminent,” said Shannon Fox, Jack Rabbit II program manager and lead scientist for the Department of Homeland Security during a



chemical.

“Millions of tons of toxic chemicals such as chlorine are transported each year through urban communities in massive quantities, including 90-ton rail

2015 radio news interview.

“If the pressurized tanks are punctured, the liquid chlorine would emit in thick, green plumes that could severely

corrode metal and burn skin and lungs upon contact,” Fox said.

During the last decade, our nation has experienced chlorine gas attacks on our warfighters overseas. On the U.S. homeland, multiple rail car accidents involving chlorine spills have killed dozens of victims and hospitalized hundreds of others. These accidents have costs millions of dollars for federal, state and local budgets.

The outdoor trials were conducted in collaboration with the Department of Homeland Security, the Defense Threat Reduction Agency, and a team of partners from other government agencies, industry and academia who are seeking data to gauge the

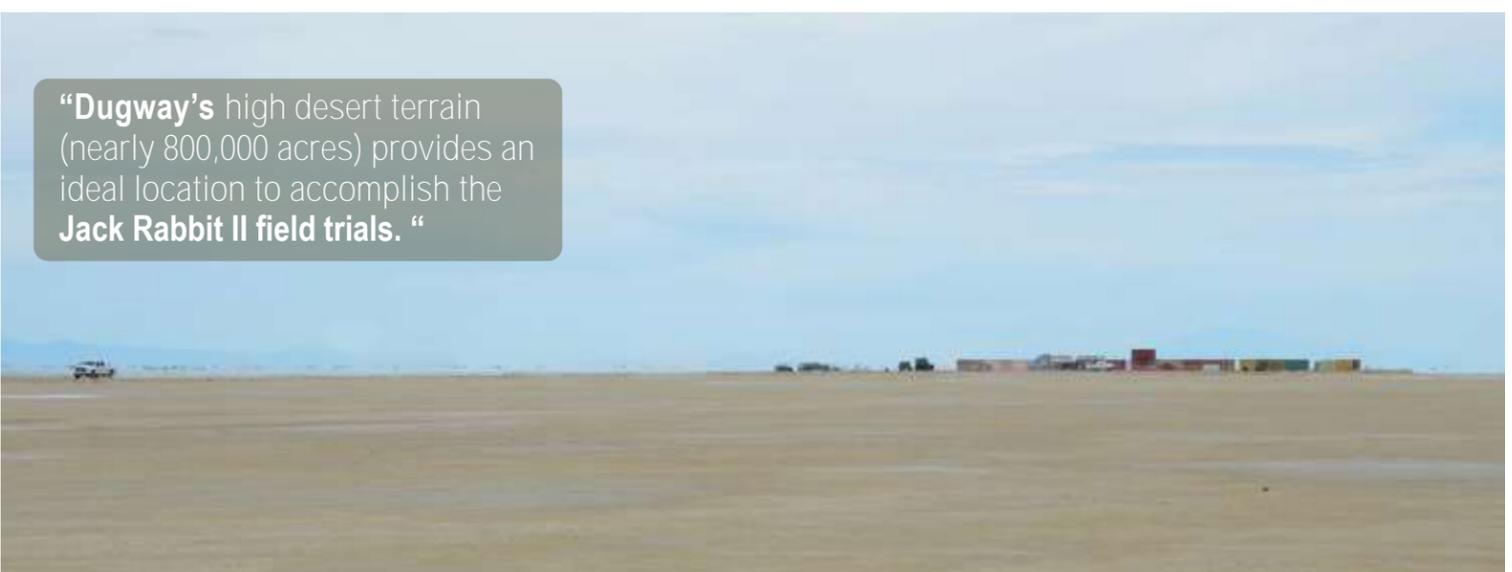
concentration and dispersion rates of the chlorine.

Dugway’s high desert terrain (nearly 800,000 acres) provides an ideal location to accomplish the Jack Rabbit II field trials. Dugway adjoins the U.S. Air Force’s massive Utah Test and Training Range providing a total of 2.3 million remote acres (2,624 square miles) of Department of Defense land, an effective zone to study the effects of a large chlorine release.

Test ranges have restricted access ensuring there is an abundant, secure range area for the chlorine to safely dissipate ensuring the safety of the public.

Testers use various stand-off and point sensors and other instrumentation

◆ Chlorine Releases. Page 2



“Dugway’s high desert terrain (nearly 800,000 acres) provides an ideal location to accomplish the Jack Rabbit II field trials.”

Images are from the 2015 Jack Rabbit II chlorine gas release trials and show pre-release setup for the trial and actual release of chlorine gas. Photos courtesy of Dugway Proving Ground Public Affairs

# CHLORINE RELEASES...

Continued from Page 1.

beginning near the test grid release site to predict the movement of a chlorine cloud and its reaction under various environmental conditions.

Another important safety factor in the Jack Rabbit II program is that disseminations occur only under conditions when the wind flow is from specified directions. The West Desert Test Center's Meteorology Division uses real-time weather modeling and an array of data collection instruments to provide accurate weather information for each trial.

Fortunately, chlorine dissipates in a relatively rapid manner in the warm, arid, desert air. Previous tests show chlorine clouds are reduced by 50 percent within the first 20 meters of movement.

Already known is that the chlorine penetration into the ground is just a few centimeters deep. The highly reactive chlorine combines with other soil organics and is neutralized within 24 hours. Culinary water supplies are not affected.

By the time it goes another 30 miles away, there's essentially nothing left," Fox said, adding that chlorine, as a fast-reacting chemical, does not present a lingering hazard.

"When it reacts, it becomes chloride, which is safe — essentially salt — so there's no long-term contamination. Once it's gone, it's gone."

Current trials are built on the success of the chlorine and ammonia Jack Rabbit I tests in 2010 and last year's Jack Rabbit II tests conducted using a mock urban test bed to examine how chlorine

infiltration behavior changes with buildings, vehicles and other infrastructures.

Prior to the initial Jack Rabbit tests at DPG, toxicity data on large scale chemical releases was sorely lacking. This predictive modeling

approach is needed to form a true and full hazard assessment.

The result of Dugway Proving Ground's collaborative work will be a comprehensive layer of national resilience, marked by statistical chemical

release data. These trials will ensure quicker and accurate risk assessments for our warfighters and civil first responders, which will help safeguard our nation.



Images are from the 2015 Jack Rabbit II chlorine gas release trials and show pre-release setup for the trial and actual release of chlorine gas. Photo courtesy of Dugway Proving Ground Public Affairs

## DUGWAY HOSTS 4TH ANNUAL PUBLIC TRAIL AND ULTRA RUN OCTOBER 22

By Al Vogel  
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Runners will see stunning views of the rugged Utah desert, and distant facilities rarely glimpsed by the public, during Dugway Proving Ground's Trail and Ultra Run on Oct. 22, 2016.

The fourth annual 5K to 50K trail run is the only time each year that the heavily secured Army post allows unsponsored, public entry. Pre-registration is required.

The course takes runners across sagebrush flats, up earthen hillsides, along the shoreline of extinct Lake Bonneville and over rocky ridges. Most of the track is a single trail, with some connection to dirt roads. The 5K and 10K courses are for runners or walkers; 20K, 30K and 50K courses are for runners only. Military or civilian team challenges of four runners take the 10K course.

Sponsored by the Family, Morale, Welfare and Recreation office at Dugway, organizers expect more than

100 runners this year. The event has grown from 35 runners in its first year (2013) to 88 in 2015. The 50K race

In 2015 a 30K runner said, "The course was great, it was beautiful. I like how you can look out forever." Another 30K

you're tired of climbing, it goes down. When you're tired of going down, it goes up."

Pre-registration is required

requirements for all runners, call the Dugway Visitor Center at 435-831-2718 or 2244, Monday through Thursday. Alcohol, weapons, ammunition and drones are prohibited from entry.

Wildlife typically seen along the trails are pronghorn antelope, mule deer, golden eagles, ravens, jackrabbits, harmless gopher snakes, coyotes, lizards, ground squirrels and sometimes mustangs (wild horses).

Hazards of the running course include high altitude (5,000 feet and more), temperatures that may be in the low 90s, rattlesnakes, scorpions, loose rock, cactus and steep grades. Mobile U.S. Army medics and civilian firefighters and medical personnel will provide first response. Department of Defense police and security will provide crowd and traffic control and assist first-responders. Water and portable restrooms are placed throughout the course, with radio operators.



A runner crosses the peak of Little Granite Mountain during the 2014 trail race. In the background is the Ditto Area, an administrative and testing area, and Granite Peak, a major geological feature within Dugway Proving Ground, Utah. Photo by Al Vogel, Dugway Public Affairs.

begins at 7 a.m.; the 30K at 8 a.m. All other events begin at 9 a.m. The course is on and near 5,228-foot Little Granite Mountain, five miles west of Dugway's entry.

runner said, "It was awesome. It was unadulterated single track, technical and had a lot of climb. That's why I ran it."

A 50K runner said, "This race has perfect variation. When

for entry to Dugway Proving Ground; early registration is encouraged. Citizens of foreign countries should register weeks before the Oct. 22 trail run. For information on entry

**5K**

**10K**

**20K**

**30K**

**50K**

5K & 10K RUN/WALK INDIVIDUAL AND 4 PERSON MILITARY & CIVILIAN TEAM CHALLENGES

LODGING & DRY CAMPING AVAILABLE AT DESERT LODGE IHG AND COYOTE RUN RV PARK

PRE-REGISTRATION IS REQUIRED. REGISTER ONLINE AT:  
[WWW.UTRASIGNUP.COM](http://WWW.UTRASIGNUP.COM)

FOR MORE INFORMATION CALL: 435-831-2318/2705

# Dugway Celebrates 2016 Hispanic Heritage Month

By Bonnie A. Robinson  
bonnie.a.robinson.civ@mail.mil

Perry Sosa is extremely proud of his of Hispanic American heritage and believes it has been a perfect background for a successful career at U.S. Army Dugway Proving Ground.

Dugway's primary mission is to provide testing and evaluation in support of our nation's chemical and biological defense programs.

As the Chief of the Operations Division, Sosa oversees all of the testing, training and construction at the West Desert Test Center. This is no small task since Dugway is a U.S. Army Major Range and Test Facility Base (MFRTB) with nearly 800,000 acres of testing area. It is about the size of Rhode Island.

Sosa is a tall, broad-shouldered man who has a comfortable confidence in himself. It shows in the way he walks, conducts meetings and oversees a diverse enterprise of specialists who support the chemical and biological test and evaluation mission at Dugway.

In meetings, he often sits quietly, listening closely to questions for which he provides thoughtful, measured and thorough answers. His laser-like attention for detail builds confidence and loyalty in those who serve with him.

It is Sosa's job to ensure Dugway can safely sustain and secure the test center. He oversees the surety guard force, the logistics branch, and the Environmental Technology Office. The latter prepares all the environmental assessments, analysis and documents for all Army actions that take place on the MFRTB.

"We work diligently for safe operations and to take good care of our ranges and airspace, and to be sure the materiel and the people who operate them are good stewards of the environment," Sosa stated.

Perhaps part of the reason for these traits are that at a very young age Sosa knew that being half Hispanic meant he would "walk a fine line" in life.

"I had heard the term half breed quite young," Sosa said. "But my paternal grandparents were born in Mexico, and

I am 50 percent Hispanic, the other half is Danish and a mixture of other national origins." He said smiling broadly, enjoying his description of himself.

One of his favorite memories of growing up was of his paternal

the sacrifices she made for her family. She worked hard in the orchards, strawberry and onion fields and on fruit assembly lines skinning peaches or cleaning the fruit of a large food distributor in California. She did this to help support her family. She was tired

Freedom and Operation Enduring Freedom at Fort Carson, Fort McCoy and Fort Lewis.

With just six months off at his regular job, Sosa received a second active duty call, which assigned him to the Headquarters at U.S. Central Command, Joint Chiefs of Staff Coalition Coordination Center, where Sosa helped propose strategies, plans, policies, and recommendations as part of the staff. From there he was sent to serve at the Forward Command Center in Qatar for 70 days.

Over the course of time, the company he had worked for had been bought by another business and most of the managers and supervisors he had known from the beginning had moved on. It's not hard to imagine that Sosa too felt the need look for broader opportunities that better suited the experience he gained while serving in the Reserves.

A friend in the Reserves, who knew his capability for taking on hard tasks and his ability to work with people, complete tasks, and take on difficult projects, suggested that

he submit a resume to Dugway.

"So here I am in 2016, the result of submitting a resume in 2006," Sosa explained.

"I really love what I do here," he said. "The best part is interacting with the Soldiers, Sailors, Airmen, Marines, Coast Guard and our nation's first responders. I not only get to see the fruits of our labors pay dividends, but I see the insights of our subject-matter experts as well."

Sosa believes it's important to pay good fortune forward. He has served as mentor to other Hispanic Americans and number of Soldiers over the years. He feels an obligation to encourage them to pursue their educations.

"Never say no to opportunities to grow your skill set," he counsels.

Sosa also encourages his daughter Victoria along the same path. "I remind her of her great-grandmother's sacrifices, and that we both stand tall on her shoulders.

## We stand on their shoulders



Perry Sosa, chief of the Operations Division at U.S. Army Dugway Proving Ground, oversees all of the testing, training and construction at the West Desert Test Center, which is an Army Major Range and Test Facility Base with nearly 800,000 acres of testing area in Utah. Photo By Bonnie A. Robinson, Dugway Public Affairs.

grandmother scolding the antics of the cousins outside of her kitchen at her home in Mexico.

"Little boys sometimes do naughty things. We had done something that upset her and we must have had a dumb-founded look on our faces until she took the kitchen broom to us," he said with a chuckle as he recalled that half of her grandchildren, including himself, didn't speak Spanish.

Not understanding what his grandmother wanted to say to him over the years, was a regret he remedied in time to have several long and happy conversations in Spanish with her before she died. A wish his grandmother had always hoped would happen.

Sosa credits his early years as a real advantage. As young man, he already determined that other people's concepts of his background would not stand in the way of attaining his dreams and goals.

"I greatly admire my grandmother for

after those 10-hour days of picking fruit or standing alongside the conveyer belts."

Because of her example, he learned that if he was willing to work hard at difficult tasks, like his grandmother, over time the seeds of his labors would bear good fruit. But he also knew challenges were also part of the process.

"She always talked about the importance of a good education and the need for all of us to advance in your society. It is important to me to honor her counsel," he said.

Sosa strove for new challenges, performing a number of short duty assignments with the U.S. Army Reserves, following the attacks on the twin towers on September 11, 2001.

For more than a year and a half, Sosa was assigned in Salt Lake City to assist the 98th Regional Support Command and the 91st Training Division to help monitor Reserve units as they mobilized in support of Operation Iraq



# DUGWAY LEADERSHIP UNITES TO SIGN DOMESTIC VIOLENCE AWARENESS MONTH PROCLAMATION



Army Proclamation declaring October as Domestic Violence Awareness Month, signed Oct. 3, 2016 at Dugway Proving Ground, Utah. Left to right: Maj. Stephen Cho, officer in charge of Dugway Health Clinic; Col. Sean Kirschner, commander of Dugway Proving Ground; Aaron Goodman, garrison manager; Command Sgt. Maj. Montonya Boozier of Dugway Proving Ground; and Msgt. Russell Kruse, non-commissioned officer in charge of Dugway Health Clinic. Photo by Al Vogel / Dugway Public Affairs.

## October is Domestic Violence Awareness Month

### Installation Commander's Proclamation

Domestic Violence Awareness Month is recognized October of each year. Domestic violence is NEVER OK! No one deserves to be abused and anyone can be a victim. Any time an Army Family Member suffers from abuse, we fall short of our goals for readiness.

Everyone plays a role in upholding the Army Values and Standards that support safe, healthy relationships for everyone in the military community. Without every one of us doing our part, we cannot say our Army is fully ready to meet the mission of preventing domestic violence.

Therefore, the message to everyone in the Dugway Proving Ground community for Domestic Violence Awareness Month 2016 is clear and simple:

### Speak Up. Be Part of the Solution.

Simple actions can help protect victims. Have the courage to speak up and do the right thing. Learn safe and appropriate ways to raise the issue of domestic violence with family, friends, co-workers and community members, and support our efforts to assist victims of these crimes in finding the help and healing they need.

Join us in making October's Domestic Violence Awareness Month the beginning of a year-round campaign to end domestic violence. Let the Dugway Proving Ground Family Advocacy Program be your partner in preventing and reducing the risk of domestic violence, and restore valued relationships that are deteriorating.

Signed

*Montonya A. Boozier*  
MONTONYA A. BOOZIER  
CSM, USA  
Installation Command Sergeant Major

*Aaron D. Goodman*  
AARON D. GOODMAN  
Garrison Manager  
USAG Dugway

*Sean G. Kirschner*  
SEAN G. KIRSCHNER  
Colonel, CM  
Commanding

# 1 QUESTION 4 ANSWERS



Summer has its perks; long days, warm evenings and vacation. But around this time, every year, we are eager for the changes autumn will bring.

## What do you look forward to this fall?



**Jason Raff**  
Geographer,  
Environmental Programs

"I look forward to cooler weather and enjoy watching the leaves changing their colors on the mountains along the Wasatch front and on Mount Timpanogos."



**Kimberly March**  
Postal Clerk,  
Dugway Post Office

"I love walking with my two dogs Ruby and Shadow in the falling leaves. It's nice that they can stay out longer and won't overheat. At the Dugway dog park, they love to chase leaves whenever a breeze tosses them in the air."



**Chris Warner**  
Supply Tech,  
Logistics

"I'm really into trail running. The mountains in fall make this time of year perfect."



**Tamie Hewitt**  
Supply Specialist,  
Logistics

"I enjoy the changing colors on the trees and love to go on rides outdoors. This last weekend I went Park City and then on to Heber for lunch. It was just beautiful."

If you have 1 QUESTION that might need 4 ANSWERS, send it to us for consideration at: [usarmy.dpg.attec.mbx.pao@mail.mil](mailto:usarmy.dpg.attec.mbx.pao@mail.mil)

# 3rd Annual Dugway Firefighter Challenge

13 October 2016 @1400  
Schocklee Fitness Center



Events Include:

- Firefighter Open Relay (teams of 2-4 personnel)
- Civilian Open relay (teams of 2-4 personnel)
- Kids Challenge Course
- Hamburgers & Hotdogs
- Firefighter T-Shirt Sale



The Course Includes:

- 2-Story Tower Climb with Hotel Pack
- Donut Roll Hoist x 2
- Forcible Entry/Keiser Sled
- Hose Advance
- Victim Rescue/Dummy Drag

To register call:

435-830-4536 or 435-830-9119



## Currently playing on the Dugway YouTube Channel

- DPG Hispanic Heritage Month
- 2016 Capabilities Video
- USAG Dugway Change of Leadership Ceremony
- S/K Challenge

[www.youtube.com/channel/UCPjFIEBY7j7ay6m7FouadqQ](http://www.youtube.com/channel/UCPjFIEBY7j7ay6m7FouadqQ)



AFAP Conference  
27 October 2016  
MWR Community Center

## Army Family Action Plan



# Wendover

## October 7

For more information on accommodations and room rates call:  
Outdoor Recreation at 435-831-2318/2705

## FLASHOVER

A **flashover** is the near-simultaneous ignition of most of the directly exposed combustible material in an enclosed area. When certain organic materials are heated, they undergo thermal decomposition and release flammable gases.



Dugway Firefighters receive intense confined area flashover training hosted by the Utah Fire Rescue Academy



# COMMUNITY CALENDAR

## OCTOBER 2016

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3	4	5 West Desert Staff Meeting - 0800 Ditto Story Time & Crafts 1000 - Library	6	7 Fall trap Shoot Event - 1800 Wendover Trip	8 Tooele County Domestic Violence Awareness Vigil
9	10 Columbus Day	11 ATEC Safety Stand-down Garrison Staff Meeting - 0800 - Rm 1202	12 ATEC Safety Stand-down Command Staff Meeting - 0830 English	13 ATEC Workforce Meeting - 1600 Post Theater Dugway Firefighter Challenge - 1900 Shocklee FC	14	15
16	17	18	19 West Desert Staff Meeting - 0800 Ditto Story Time & Crafts 1000 - Library	20	21	22 Dugway Trail and Ultra Run
23/30	24/31 Story Time & Crafts 1000 - Library	25 Garrison Staff Meeting - 0800 - Rm 1202	26 USAG Dugway Town Hall Meeting - 1530-1700 ESC Meeting - 0800 Ditto	27 AFAP Conference Blood Drive - Shocklee FC Thai Night - Community Club	28	29 Halloween Extravaganza

# THE DISPATCH

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According to Tooele County Roads Department director, the Mormon Trail road is closed for rebuild of a 7 mile stretch from Rush Valley city center northward to link up with a 6 mile portion that was rebuilt two years ago.

The road rebuild is a \$2 million project that is scheduled to be completed October 15-30.

For further info, contact Tooele County Road Department: 435-843-3204.

Please share The Dispatch with family, friends, acquaintances or anyone who might be interested in news and happenings at Dugway Proving Ground.

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