



THE DISPATCH

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Dugway clamps onto efficient swatch testing

By Al Vogel
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For decades, challenging samples of material (called "swatches") with chemical agent, in a tubular fixture has been used to assess the material's ability to protect its wearer. It was effective and accurate, but laborious. After agent was added, bolts, O-rings and components had to be assembled and tightened over the swatch while wearing rubber protective gloves and gas mask.

At Dugway Proving Ground, engineers pondered a better means of affixing components, using clamps. It worked. Clamp pressure held the components together as needed, and was quicker to use. The innovative system was named Swatch Permeation Test Fixture, Reengineered (SPITFIRE).

After numerous test trials, SPITFIRE's first customer test began August 1 and will continue into September, as various swatches from seven different commercial, off-the-shelf containment bags are tested for the U.S. Navy (Dugway frequently tests chem/bio defenses for all services). Each sample swatch must safely contain a liquid chemical agent for 14 days.

Tested bags range from a letter-sized evidence bag to an adult-sized bag. The Navy seeks a range of bags for its Explosive Ordnance Disposal personnel, to transport contaminated samples from the battlefield.

Both SPITFIRE and its prede-

cessor, AVLAG (Aerosol Vapor Liquid Assessment Group), are challenging swatches for the Navy test. Though AVLAG is more laborious to work with, it's still operable.

"We do a lot of swatch testing, so having multiple swatch fixtures is advantageous to us," said Aaron Rogers, project scientist.

But overall, SPITFIRE has more advantages than AVLAG and may someday replace it. SPITFIRE is designed to be used in a wheeled glovebox with an attached airlock, making it portable and easier for an agent handler to use. AVLAG is immovable, used in a wall-mounted hood, and requires more dexterity.

SPITFIRE's components are held together with the tension of a clamp; AVLAG uses multiple bolts and components. Each AVLAG unit is designed for a certain swatch thickness, while SPITFIRE can accommodate a variety of material thicknesses, ensuring a tight seal that prevents swatch-

◆ Dugway Clamps. Page 2.



Aaron Rogers, project scientist at Dugway Proving Ground's Chemical Test Division, works with the newly created Swatch Permeation Test Fixture, Reengineered (SPITFIRE). Material considered for protection against chemical warfare agents, in the form of gloves, clothing, boots, etc. is challenged with chemical agent in this glovebox to learn how well it protects and whether it degrades. Photo by Al Vogel, Dugway Public Affairs

Command perspective



By CSM
Kyle R. Brinkman
Installation Command Sergeant Major

Team Dugway, I hope the summer led to some great memories for you and your Families throughout your travels and vacations over the 100 days of summer. As that time draws to a close, it is time to start thinking about school activities, changing

seasons and the weather patterns that will come with it. As always, we need to all stay vigilant in regards to safety.

A few weeks ago, I was driving through Johnson's Pass from the east and as I rounded a turn there was a flipped over SUV in the road blocking both lanes of traffic. I quickly noticed an ejected occupant on the westbound side of the road and westbound drivers running to the victim's aid. Realizing that contacting emergency services between mile marker 15

and 16 was not an option, I quickly turned my vehicle westbound to drive two miles until I gained cell phone reception. Once contact was made with 911 services, I returned to the scene of the accident and blocked traffic from the west. Dugway residents from the westbound side of the pass were rendering aid and offering comfort to the victim while other Dugway residents were assisting with traffic control.

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INSIDE YOUR DISPATCH



SPITFIRE CLAMPS



Innovative clamps mean more reliable data.

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COMMAND PERSPECTIVE



CSM Brinkman reminds us that safe driving matters.

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es from getting wrinkled or creased.

"It means more reliable data because of tighter cup-to-cup variability than AVLAG," said Rogers.

SPITFIRE has very precise control over humidity, and its temperature control is more accurate than AVLAG. SPITFIRE is easier for the agent handler to use, a metal cup that holds the swatch may be switched out while the other cups continue testing. With AVLAG, testing with all cups must be temporarily halted during a single change-out.

The list of SPITFIRE advantages over AVLAG goes on.

"The main thing was to design this for ease of operation, safety in operation and much higher quality data," Rogers said. "For our agent handlers, it's much safer."

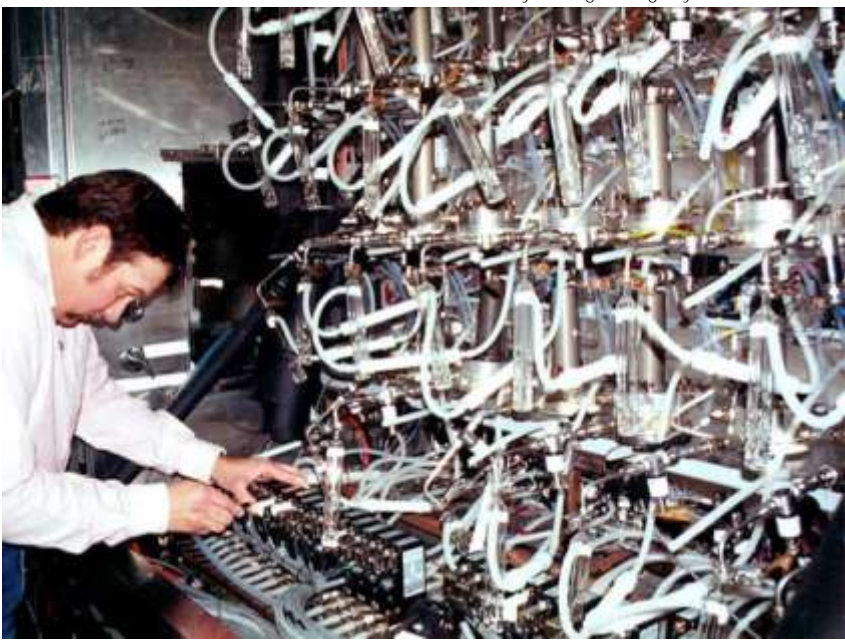
For the ultimate customer – the Warfighter – swatch testing means the Warfighter can trust his protective clothing to defend against chemical agent as expected.

"It enables the Warfighter to make better decisions on the battlefield and to ensure the Armed Forces have the best quality materials for the Warfighters," Rogers said.



The Swatch Permeation Test Fixture, Reengineered (SPITFIRE) employs clamps to keep the components under pressure and together, instead of bolts. The newly created system challenges swatches of cloth with chemical warfare agent inside the stainless steel cup, to determine how effectively the material will protect service members from chemical exposure. Photo by Al Vogel, Dugway Public Affairs

EMPOWERING THE NATION'S DEFENDERS



Swatch testing with the AVLAG has been conducted for some years at Dugway Proving Ground, as evidenced by this 2005 photo. It's still an accurate means of testing swatches, but innovative SPITFIRE system improvements make it easier to work with. Photo by Al Vogel, Dugway Public Affairs



The testing unit for the AVLAG system requires time and labor to assemble. Photo by Al Vogel, Dugway Public Affairs

Command perspective ...

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Why do I write about a one-vehicle accident in the pass? It took approximately 15 minutes for law enforcement to reach the scene and about an additional 5 minutes for emergency medical responders to arrive and evaluate the victim. It was another 30 minutes for life flight to arrive and transport the victim to the appropriate medical care facility in Salt Lake City.

Seeing this accident and response times is not a slight to the amazing law enforcement or med-

ical response agencies in the area but an affirmation to the remoteness of where we all commute for work, fun, and day-to-day activities. Operating safely and rationally are key to our everyday safety success. High rate of speed, irrational driving pattern and distracted driving were major components to the cause of the accident that day. Now I ask, how often can you apply any one of those three factors or all of them to your own driving patterns? Please slow down, stay focused and arrive safe every-

where you commute. No one should ever leave Dugway on life flight.

I would like to publicly thank Tonya Ashment, Steve Garcia, Cal and Cynthia Rowe, the Terra Volunteer Fire Department (which many Dugway residents volunteer), and Emergency Responders and Law Enforcement from Tooele County for their amazing commitment and resolute response to the scene of a serious accident.

CHAPLAIN'S CORNER

By Chaplain (MAJ-P) Shawn P. Gee

Managing Stress to Build Resiliency

Stress is a reality of life and if it's not managed it can create burnout. Just as a meteorologist can recognize certain signs as storm warnings of an approaching hurricane, so psychologists can recognize symptoms of approaching burnout. Symptoms like: exhaustion, detachment, boredom and cynicism, increased impatience and irritability, feelings of being unappreciated, withdrawing from decisive leadership and work habits, becoming more tyrannical, demanding and inflexible, paranoia, disorientation, psychosomatic complaints (headaches, lingering colds, backaches, and similar complaints are often a result of the burnout victim's emotional stress), depression and suicidal thinking. When internalized, anger, fear, depression, anxiety or other negative emotions can produce biochemical changes that have been shown to adversely impact the mind and body.

To mitigate burnout in our lives we need to build resiliency. In "The Secrets of Resilient People," Beth Howard defines resiliency as, "The ability to rebound quickly from a crisis or trauma." She says, "Resilient people are like trees bending in the wind. They bounce back." In "Resilience in the Face of Adversity," Michael Rutter offers resilience-related qualities. According to Rutter, resilience "... seems to involve several related elements. Firstly,

a sense of self-esteem and self-confidence; secondly, a belief in one's own self-efficiency and ability to deal with change and adaptation; and thirdly, a repertoire of social problem solving approaches."

Building resiliency involves self-soothing and self-confronting. Self-soothing involves calming oneself down or taking a step back from the stressful situation. Laura van Dernoot Lipsky provides a breathing exercise to help decompress from stress. She says, "Stand or sit in a comfortable position. As you raise your hands above your head, breathe in. As you lower your arms, breathe out. Do this 20 times slowly." Lipsky also says it is important to have a life outside of work. Incorporating enjoyable experiences into life is a way to self-soothe. For some it is a good workout or a long run. For some it is a bubble bath, a mountain hike, a dive, a dance, or just a deep breath. In order to be resilient in life it is imperative to do something relaxing and enjoyable. Self-confronting involves introspection. Ask yourself, "Why am I anxious?" and learn what this tells you about yourself. Ask yourself, "What is the growth issue in this situation?" And finally ask yourself, "Am I depending on someone else to validate my sense of self-worth?" After these things are identified the next step is to figure out what the "hard thing" is that you need to do to grow... and make yourself do it.



Special to The Dispatch

Antiterrorism Awareness Month a Success

By David Perkins, Antiterrorism/Force Protection Specialist

August was a successful Antiterrorism Awareness Month for Dugway Proving Ground. With new banners in place at the installation's entry control points, the activities started on the morning of Aug. 5, with Dugway's Commander, Command Sergeant Major, and antiterrorism officers greeting everyone at the main gate and

distributing antiterrorism educational material as they arrived for work. It was a great kick-off event that communicated the importance of remaining vigilant and always being aware of your surroundings.

Dugway's antiterrorism officers also set up a meet and greet at the Ditto Diner on Aug. 8 and at the commissary on August 20. A tabletop exercise was conducted on August 13, with personnel from the Edge-

wood Chemical Biological Center, Dugway Proving Ground, and the West Desert Test Center. The exercise evaluated Dugway's capabilities of public information and warning, operational coordination, forensics, community resilience and critical transportation requirements. It was a collaborative recovery exercise designed to validate the core capabilities needed to prevent, protect and mitigate threats.

In addition, force protection, emergency management and physical security personnel from Dugway Proving Ground attended the Utah Antiterrorism Conference in Salt Lake City, Utah, on Aug. 6-7 and the Active Shooter Preparedness Workshop, also in Salt Lake City, on Aug. 20. Even though August is over, always remember "IF YOU SEE SOMETHING, SAY SOMETHING!"



DPG Commander Col. Scott Gould and DPG Command Sgt. Maj. Kyle Brinkman greet commuters at Dugway's main gate to remind them of the Army's observance of Antiterrorism month in August.

DPG Antiterrorism Officer Travis Wall (right) and WDC Antiterrorism Officer David Perkins (left) set up a meet and greet at the Ditto Diner on the morning of Aug. 8, where they handed out educational material and raised awareness about combatting terrorism.



1919 100 Years 2019

Celebrate the 100th Anniversary of the U.S. Army Transcontinental Motor Convoy at Dugway Proving ground on Friday, September 6, 2019.

As many as 70 historic military vehicles will line up in front of the Dugway HQ Bldg. in English Village, for a brief stop, at approximately 10 am followed by a visit to the historic Lincoln Highway bridge in Ditto.

This convoy is retracing the original 1919 U.S. Army Transcontinental Motor convoy route along the Lincoln Highway.

Come welcome the centennial convoy to Dugway and enjoy viewing these historic military vehicles. Don't miss this one-in-a-century event.

For more information call: x2141.



ARMY CIVILIAN CORPS

What is it?

Army Civilians are an integral part of the U.S. Army team, committed to selfless service in support of the protection and preservation of the United States. Army Civilians take an oath of office to support and defend the Constitution. Civilians share and embody the Army Values and are bound by an Army Civilian Corps Creed.

Army Civilian Service provides mission-essential support to Soldiers by providing a workforce of talented, qualified people to fill critical non-combat positions

Civilians come from all walks of life: former military service, other federal agencies or the private sector. Career Intern Programs also help students find the right fit in the civilian corps. More than 330,000 people working in a wide variety of careers serve the nation through the Army Civilian Service.

What are the current and past efforts of the Army?

Army Civilians have been central to the success of the service in war and peace since the Revolutionary War. Currently, the Army has the largest civilian workforce in DOD, filling critical roles in 540 careers, spanning 31 career programs, including cybersecurity, engineering, medicine, and administration.

Army Civilian service offers valuable on-the-job experience, training, and avenues for advancement. Army Civilians:

- Support the nation, the Army and its Soldiers in times of war and peace, and improve the readiness of the force.
- Preserve continuity and provide essential support to the Army mission.
- Work together with Soldiers as one Army, one team, one fight.

The Army is reinvesting in Army Civilians through professional development, training, and leadership opportunities. The Army has implemented best practices to reduce the time it takes to hire civilians to 60 days.

What continued efforts does the Army have planned?

The Army continues to pursue process improvements and push DOD initiatives to improve and streamline hiring processes for civilians, including military spouses.

Army Civilians will continue to serve the nation as one team of trusted Army Professionals, united by the vision to win in a complex world. They are and will be an enduring dedicated and a critical part of the fight.

Why is this important to the Army?

The Army Civilian Corps is an integral part of the Army team and civilians bring expertise to improve the readiness of the force. Army Civilians, together with Soldiers, are a solid bond and a team for whom nothing is impossible.

Army Civilians and Soldiers together form one total force working together to accomplish a common mission and a common goal.

(Source - Army STAND-TO)

DPG home of the month



The Frank family home was recognized as Dugway Proving Ground's Home of the Month for the month of July. The monthly competition recognizes well-kept homes and yards within the Dugway community. Mr. Bruce Frank and his dog, Xerxes, accepted the gift certificate from Installation Command Sergeant Major, CSM Kyle Brinkman (left), and Brian Jost, Deputy Garrison Manager (right). At the time the photo was taken, Mrs. Frank was mobilized as an Army reservist. Congratulations to the Frank family!

OCTOBER IS CYBER SECURITY AWARENESS MONTH

In preparation for this event the Dugway Proving Ground Network Enterprise Center Cyber Security Division would like to give the workers at DPG a few Cyber Security tips.

Please familiarize yourself with these tips as they may help you avoid incidents. Our next Command Cyber Readiness Inspection (CCRI) will be a "no notice" inspection of Dugway, and we anticipate it happening within the next 8 to 12 months. Your vigilance in protection of our networks will be paramount to our success against those adversaries which mean do us harm, and to insure we are well prepared for this inspection. Thank you!

FIVE WAYS TO BE CYBER SECURE AT WORK

1. Stop and think before you open attachments or click links in emails. If it looks suspicious, it's best to delete it.
2. Make electronic and physical back-ups or copies of all your important work.
3. In order to prevent theft and unauthorized access, never leave your laptop or mobile device unattended in a public place and lock your devices when they are not in use.
4. Always remember to take your CAC when stepping away from your computer. This is very important to remember. Also do not share your CAC and its pin with anyone. This negates the non-repudiation aspect of the two factor authentication.
5. Report anything suspicious. If you experience any unusual problems with your computer or device, report it to your IT Department.

For more information on CYBER SECURITY AWARENESS MONTH contact the NEC Information System Security Manager at (435) 831-7103.

Don't Miss

For additional news highlighting DPG and its workforce, click on the stories below:

[BYU interns study Dugway's desert wildlife](#)

[DPG ATEC Employee Awards 3rd Qtr FY19 - video](#)

[DPG ATEC Employee Awards 3rd Qtr FY19 - photos](#)

[DPG News Brief - 211th Live Fire](#)

[DPG News Brief - 6th WMD-CST at DPG](#)

[DPG works to stop Kestrel decline](#)