



THE DISPATCH

U.S. ARMY DUGWAY PROVING GROUND

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It takes a SMARTMAN to pass muster on masks

By Al Vogel
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In 2001, Dugway Proving Ground took receipt of some early M50 protective masks for testing to determine if they could replace the aging M40 mask, designed for all services in the 1980s. After extensive use, it was found that the M40 face piece was susceptible to corrosion from blister agents, such as mustard gas. To counter this, a second "skin" to fit over the face piece was issued to protect the wearer, but the M40s replacement was inevitable.

Enter the Joint Services General Purpose Mask, Model M50, conceived as a mask that would fill the needs of all services. Extensive testing began at Dugway in 2001; it was first issued in 2009.

This was not the end of M50 testing, however. It is not unusual for a variant of the accepted, standard gas mask to be made into a version to fit specific needs. "The M50 is a good platform. We did extensive testing with it for eight years," said Andrew Neafsey, test officer in the Chemical Testing Division.

The M50 is made in the U.S., but was designed by Avon Protection of Great Britain, a world leader in respiratory equipment since the 1920s.

At about the same time that testing of the new M50 began in 2001, a test fixture also debuted that has made testing easier: Simulant Agent Resistance Test Manikin, or SMARTMAN. The stainless steel bust of a human head and chest is largely made by Dugway's metal workers, who are expert craftsmen.

The first SMARTMAN was bur-nished stainless steel for ease of decontamination after testing with actual agent. In later years, a second version was made: a stainless steel bust thinly coated in green rubber to replicate the natural compressibility of human skin while aiding decontamination.

Both are used today, as they test the M50 and its variants. Currently under testing is the M53A1, a version with subtle but crucial differences from the M50:

- Current chemical, biological, radiological or nuclear
- ◆ SMARTMAN. Page 2.



The M53A1 protective mask, a variant of the current issue M50. This version has been altered for use by aircrew, for direct feed from the aircraft's oxygen supply. The M50 protective mask has been tested at Dugway Proving Ground since 2001, and was first issued to all services in 2009. It is not uncommon to alter a mask for special applications, requiring additional testing. Photo by Al Vogel, Dugway Proving Ground Public Affairs

Command perspective



By Ryan W. Harris
Director, West Desert Test Center

distracted driver crashes occurred in Utah which resulted in 3,303 injured persons and 27 deaths. Utah currently ranks the ninth worst state in the union for distracted driving related incidents. According to the National Highway Traffic Safety Administration (NHTSA) distracted driving claimed 3,166 lives nationwide in 2017. It has become such a threat to safety on our roads that the entire month of April has been designated as the National Distracted Driving Awareness Month. I realize I've discussed this in the past, but given the serious nature of this issue, I thought it is worth highlighting again. Distracted driving encompasses

more than just using your phone while driving. It is any activity that diverts attention from driving and includes any visual distraction that takes your eyes off the road, cognitive distractions that cause your mind to wander, and physical distraction that occur when your hands leave the steering wheel. Examples include talking or texting on your phone, eating and drinking, talking to people in your vehicle, fiddling with the stereo, entertainment or navigation system or anything that takes your attention away from driving alert. Texting or using your smartphone for any other reason is often considered the most dangerous type of distraction because it involves all of your senses used for driving. Texting while driving increases the likelihood of getting into a crash by 23 times and is equivalent to driving twice the legal limit for alcohol.

What can we do to improve the safety on our roads? Here are

some suggestions for managing driver distractions:

- If possible, ask passengers to send messages or respond to emails for you.
- Turn off your phone completely or turn it to silent before you get in to car to remove temptation.
- Let friends know that you are driving and will get back to them later by setting up an automated message.
- If you need to make a call or send a message, pull over to a safe location first.
- Secure your pet so that it is not a distraction in the car.
- Minimize other activities such as eating, drinking, reading, or manipulating vehicle controls.
- Review maps and directions or set up navigation before

◆ Command perspective. Page 2.

INSIDE YOUR DISPATCH



SMARTMAN MARCHES ON



Many iterations later, SMARTMAN helps keep Warfighters safe.

pages 1&2

COMMAND PERSPECTIVE



Distracted driving—one of the most dangerous things you can do.

pages 1&2

CHAPLAIN'S CORNER



Communication is all about frequency. Don't block yours.

page 2

SHRED IT



Protect yourself and your family. Just shred it.

page 2

DON'T MISS THIS!



Armed Forces Day Concert will salute Dugway Proving Ground.

page 3

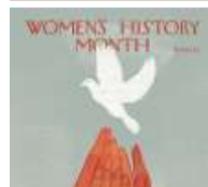
IN A NUTSHELL



Army financial reform will help maximize resources and much more.

page 4

A ROUSING WOMEN'S EVENT



Women of vision celebrated at Dugway event.

page 4

AND MUCH MORE

Command perspective ...

Continued from page 1.

you start driving. One of the most dangerous things we do on a daily basis is drive or ride in a motor vehicle. Approximately 80% of our work-

force commutes at least an hour to and from work every day. Simple actions we can take is buckle-up, stop and think (did I properly plan for my drive and I have I addressed any potential distract-

tions?), and then just focus on driving! You are our most precious resource we have, arrive alive for those that matter most in your lives.

SMARTMAN ...

Continued from page 1.

(CBRN) units lack the capability to use the same mask when responding to CBRN events or missions. The M53A1 may be used in any of these environments simply by changing the filters. Unlike the M50, the M53A1 allows filters to be changed in a contaminated area without requiring the wearer to hold his breath.

- The M53A1 may be used with one filter, allowing prone rifle shooting without a second filter interfering with the rifle stock, affecting accuracy.
- Aircrews may plug the M53A1 mask directly into a receptacle in the oxygen supply system of their aircraft. It also has Self Contained Breathing Apparatus (SCBA) capability for breathing from an oxygen tank carried inside a fully protective suit, a capability important for entering extremely toxic, dangerous or environmentally sensitive environments.

Whether the standard M50 or its variant the M53A1, all protective masks are further challenged in an agent environment with temperature extremes, diesel fumes, dust, solar radiation (replicating long exposure to the sun), ozone, salt fog, DEET insect repellent or aircraft fuel, ensuring protection in many operational situations. Even well-worn masks are tested



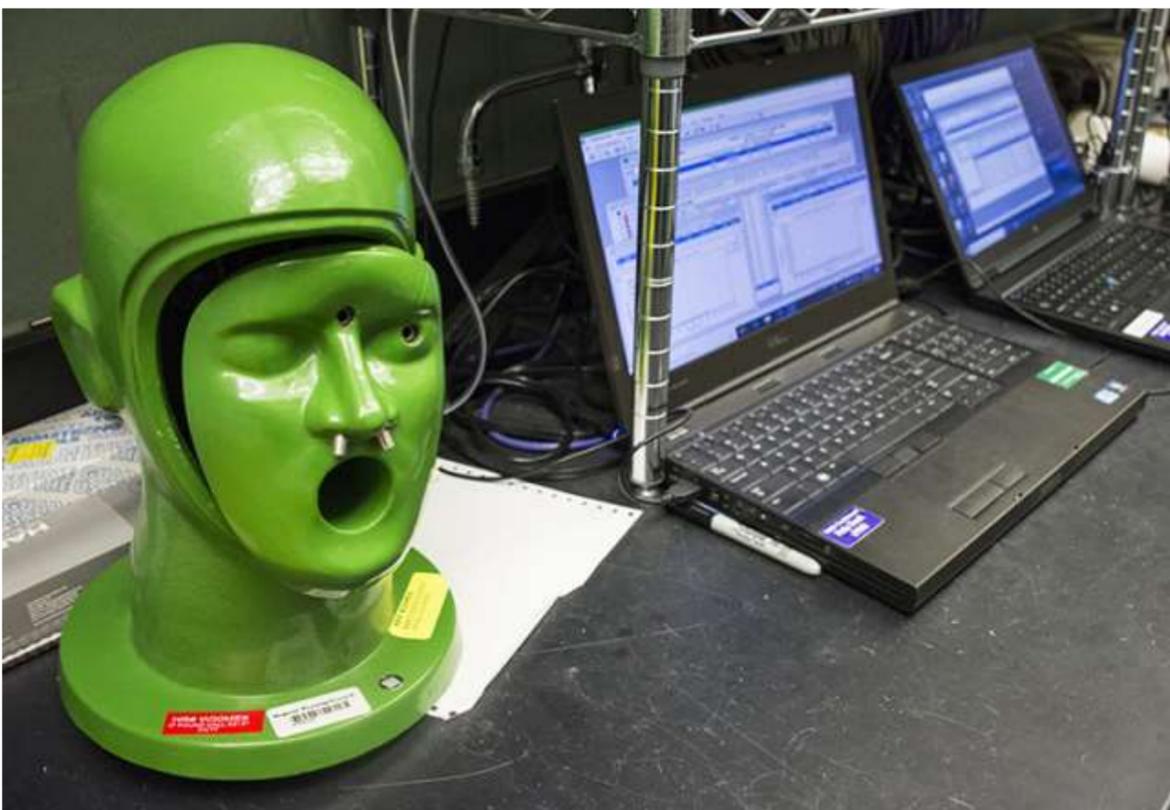
The M53A1 mask differs from the original M50 to allow prone shooting, use with aircraft oxygen systems, breathing apparatus in an enclosed protective suit and NATO-standard filters. Photo by Al Vogel, Dugway Proving Ground Public Affairs

on SMARTMAN, to learn how well they protect and what parts may begin to fail first and need replacement.

“Each iteration may take a year, and then one variant after another,” said Dave Rose, test control officer. Though testing of the M53A1 continues, the focus of future testing is already on the

next generation mask, he noted.

One of the original designers of SMARTMAN, Rose expects to retire in a few years. But SMARTMAN will continue, each version testing generations of masks and respirators to ensure the safety of its wearer.



The newer version of a SMARTMAN fixture, with a specialized coating to replicate the natural compressibility of human skin. Tubing in the head draws air through the nostrils and mouth, which is constantly monitored. SMARTMAN testing creates a wealth of data, recorded and archived for later research. Photo by Al Vogel, Dugway Proving Ground Public Affairs

CHAPLAIN'S CORNER

By Chaplain (LTC) James Lester

Frequency.

Frequency can mean several different things. It can mean how often we do something, like how often do you go to the store in a week or go for a run? My parents would say that they would like me to be more frequent in calling them. The other use of the word has to do with bandwidth. This one I don't understand that well, but I know it has to do with how my cellphone will communicate with the tower, whether my wireless microphone will work, or if my cordless office phone gets static. Here at Dugway, *Frequency* is a pretty big deal—we want to make sure that what we are testing does not conflict with another test; we want to make sure that nothing interferes with the signal and stops us from communicating.

But what happens when something does interfere with our signal? At Dugway we move mountains to figure out what the issue is and make sure that it doesn't happen again. It's not easy, but there are things that we can identify that do block or interfere with the signal. In our own daily lives it's not as easy to determine what is blocking the signal. Mainly because we are pretty complicated beings, and we have conflicting obligations and desires that tend to block the signal either intentionally or unintentionally.

In my relationship with my wife I have to learn to not only be a re-

ceiver but also a transmitter. If I'm doing too much of one, then I can't hear the signal my wife is trying to send me. So, in that case, I need to not only be quiet, but I have to tune in to her and block out the other signals such as my book, my phone, my tablet, or the game I'm playing. I don't need to go on, you can fill in the blank with what is blocking your signal! My relationship with my wife is better when I am tuned in.

My relationship with others is better when I'm tuned into God. When I'm able to hear God I find that my life goes a bit better. It's not that things are magically better, but I know that He is hearing me, and I'm hearing Him.

But, just like my relationship with my wife, there are things that will interfere with me hearing God. It's not that God doesn't hear me, but something is blocking me from hearing Him. When I have sin in my life I can't hear from God, but when that's gone it's like I've switched my cellphone plan to one that works, or I've stepped out of my concrete building and found the sweet spot. As we move closer to Easter, I encourage you to look at your life and ask: is there anything blocking the signal? I'm thankful that over the years that I'm learning to tune in to God and tune in to my wife. It definitely makes for better breakfast conversation and long drives across Utah smoother.

Security Shorts

Shred It.

A very important topic discussed in our annual security training is to “shred as you go”. Large amounts of sensitive documents in a burn/shred pile is a security breach just waiting to happen. Likewise, your personal documents at home present a unique opportunity for thieves to take documents and discarded mail from your

trash and use it to your disadvantage. A credit card application, even if ripped in half, is easily used to apply for a credit card in your name. In 2016, 15.4 million people were victims of identity and credit card theft.

It is easy to shred documents at work and at home. Crosscut shredders are inexpensive. Protect the mission and your family.



Please join Utah Military in supporting the U.S. Army's 244th Birthday Celebration and

Military Ball



Saturday, June 8, 2019
at 6 o'clock in the evening

The Grand America Hotel
555 Main Street, Salt Lake City

For more information contact:

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435-831-2041

Free Military Concert will honor Dugway Proving Ground

For the first time in its 16-year history, the annual Armed Forces Day Concert will pay tribute to Dugway Proving Ground and its workforce.

"We're thrilled that Dugway Proving Ground has been chosen to be honored at this year's concert," said Dugway Commander, COL Brant D. Hoskins. "I hope our workforce will attend the concert in support of Team Dugway and all U.S. military."

The concert, scheduled for Saturday, May 18, at 7 p.m., will feature the Choral Arts Society of Utah and the Utah National Guard 23rd Army Band. Soldiers stationed at Dugway will conduct the Posting of Colors, COL Hoskins will be the guest speaker, and DPG Chief of Staff, Vincent Liddiard, will serve as the master of ceremonies. In addition, several employees will be honored for their contribution to Dugway's mission.

The event is free and will be held on the main stage at the Gallivan Center in downtown Salt Lake City. The Gallivan plaza will open at 4:30, and there will be food vendors and booths to visit.

ARMED FORCES DAY CONCERT

Gallivan Center

★ Honoring U.S. Army Dugway Proving Ground ★

Downtown Salt Lake
Saturday, May 18, 7:00 p.m.
Free admission & parking

Featuring the
Choral Arts Society of Utah
and the
Utah National Guard 23rd Army Band

DFMWR SFA & JACOBS PRESENTS

SPLASH

into Summer pool party

1200 - 1900

Dugway Swimming Pool

POOL GAMES - CLIMBING WALL
BOUNCY HOUSE
VOLLEYBALL - BEAN BAG TOSS

BBQ FROM 1200 - 1400

| | |
|------------------------------|--------|
| HAMBURGERS, CHIPS & DRINK | \$5.75 |
| CHEESEBURGERS, CHIPS & DRINK | \$5.95 |
| HOTDOGS, CHIPS & DRINK | \$4.95 |
| SODA OR DRINK | \$1.25 |

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For more information, please call: 435-831-2784



Nine members of the Dugway community, ventured north on a beautiful Spring weekend, to Crystal Hot Springs in Honeyville, Utah. ODR's Curt Fortie led the group that consisted of Jenni Kimler, Michael Archibald, Margaret Fedje, James, Peyton, Logan, Amber and Brock Stant. The sunny weather was great and everyone had a great time going from one hot spring to another or just sitting in the warm pools to relax and enjoy the day.



ARMY FINANCIAL REFORM

What is it?
The U.S. Army is focused on reforming the Department's financial practices to improve performance and to optimize its purchasing power. Army financial reform consists of two "pillars" - auditability and financial stewardship.

The law requires the Army to produce auditable financial statements and account for the money it spends, and the property and equipment it manages.

What are the current and past efforts of the Army?
To continue progress in Financial Reform, the Army is aggressively developing a culture that expects auditable records at every level. The Army has a responsibility to maximize its resources, operate transparently, and execute its budget, according to the law and the intent of Congress.

As expected, the results of the fiscal year 2018 (FY18) audit produced a benchmark to begin measuring progress for future audits. The Army is taking steps, such as implementing strong internal controls, to remediate findings ahead of the FY19 audit.

On Dec. 14, 2017, the secretary of the Army directed the establishment of the Command Accountability and Execution Review (CAER) Program. The CAER program helps to maximize the Army's purchasing power, encourage active management of Operations and Management

funds by leaders and decrease the number of de-obligations. The establishment of the CAER program is considered as a mile stone for financial reform.

What continued efforts does the Army have planned?
In developing the FY20 budget (\$182B) Army leaders reviewed all programs and projects, aligning them with the National Defense Strategy and Army priorities. The NDS explains how the U.S. competes, deters, and defeats the nation's adversaries. The results validated Army programs, synchronized resourcing and reinvested savings in programs which focused on financial reform and auditability.

The Army is also reinforcing a "cultural change" to its leaders. Financial Stewardship will continue to be a command responsibility. Leaders and commanders, at all levels, will be held responsible for the management and performance of their budgets.

Why is this important to the Army?
The Army has a responsibility to maximize its resources, operate transparently and execute its budget, according to law and policy. Congress penalizes the Army for losing buying power by cutting funds from its appropriations. The Army is committed to optimizing purchasing power by efficient budget execution through financial reform.

It is important the American people have confidence in the Army's management of every taxpayer dollar it receives. The Army must continue to demonstrate its people and processes can be trusted.

Army Financial Reform. In a Nutshell.
(Source - Army STAND-TO)

Women of vision celebrated at Dugway women's history event

Emma K. Houston, director of Diversity and Inclusion for the Salt Lake County Mayor's Office, was the guest speaker at the Women's History Month observance.

The theme was "Visionary Women: Champions of Peace and Nonviolence." Janine Hoskins, wife of the commander of Dugway Proving Ground, was the mistress of ceremony for the event.

Houston discussed what qualities women, who have done great things, possess. She noted they share passion, commitment and focus - attributes greater than enthusiasm or excitement because they employ as much heart, mind, body and soul as is humanly possible.

A visionary woman is connected, using internal and external networks to enlist support for her vision, Houston said. Those enlisted must share your vision,

that it will be worthwhile and beneficial. "Be intentional" Houston noted. "That means being able to distinguish what to embrace and what to let go as you move to a higher level and assume more responsibility in the world."

Be present, fully in the moment, setting standards on how you use time in order to improve the quality of human interactions," Houston urged. "Peace and nonviolence - Take care of your thoughts when you're alone, and of your words when you're with people," she said.

Houston praised the work at Dugway. She asked that the audience make a commitment to add to the lives of others, and not take away from them. "(Whatever you do) Be able to leave a positive mark on history," she said.



Emma E. Houston, director of Diversity and Inclusion for the Salt Lake County Mayor's Office, leads the audience in an energetic song, "I Love Me" by Meghan Trainor.



Rachel Gardner sings the National Anthem at the Women's History Month observance.



Emma Houston had the audience clapping and dancing, as a reminder that you must love yourself before you can effectively help others.



Women's History Month observance at Dugway Proving Ground, Utah. Guest speaker was Emma E. Houston (center), director of Diversity and Inclusion for the Salt Lake County Mayor's Office. Dugway women instrumental in creating the Women's History Month observance are, left to right: Laura Sears, Melissa Brinkman, Paula Putnam, Janine Hoskins, Rachel Gardner, Sheree Rydalch and C.J. Uttech.

Photos by Al Vogel, Dugway Proving Ground Public Affairs

SAVE THE DATE

CHANGE OF COMMAND

From

COL BRANT D. HOSKINS

To

COL SCOTT D. GOULD

18 JULY 2019

U.S. ARMY DUGWAY PROVING GROUND
BRANTLEY PARADE FIELD 0900

COMMUNITY CALENDAR

May 2019

| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|--|--------------------|---|---|---|--|---|
| | | | 1 Story Time - 1100 - Post Library West Desert Staff Meeting - 0800 - Ditto - Roth CR | 2 Movie Madness - 1900 (PG) - Community Club | 3 ODR Moab Adventure Trip - Leave 0800 | 4 |
| 5 Moab Adventure Trip - Return 1800 | 6 | 7 | 8 Story Time - 1100 - Post Library Command Staff Meeting - 0830 - Kuddes CR | 9 Movie Madness - 1900 (PG) - Community Club | 10 Wendover Casino Trip - Departs 1500 - Returns 2100 | 11 ODR Trap Shoot & BBQ - 1000 to 1300 |
| 12 Mother's Day | 13 | 14 Community Town Hall - 1800 - Community Club Garrison Staff Meeting - 0800 - CR 52 | 15 Story Time - 1100 - Post Library | 16 Movie Madness - 1900 (PG) - Community Club DES Top Shot Competition - 0800 to 1700 | 17 | 18 9th Annual Linking Families Event at Hogle Zoo - 0900 to 1700 Armed Forces Day Concert - Gallivan Center, SLC - 1900 |
| 19 | 20 | 21 DPG High School Graduation - 1000 | 22 Story Time - 1100 - Post Library West Desert Staff Meeting - 0800 - Ditto - Roth CR | 23 Movie Madness - 1900 (PG) - Community Club Stark Road Bike Ride - 0730 | 24 | 25 Pool Opening/Splash into Summer - 1200 to 1900 Shocklee FC Pool |
| 26 | 27 Memorial Day | 28 Garrison Staff Meeting - 0800 - CR 52 Asian American/Pacific Islander Heritage Observance - 1600 - HS Auditorium | 29 Story Time - 1100 - Post Library Executive Steering Committee - 0900 Ditto - Roth CR | 30 Movie Madness - 1900 (PG) - Community Club | 31 Family Fun Fridays -1300 - 1530 | |

THE DISPATCH

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Currently playing on the Dugway YouTube Channel

- Eagle Surveillance Tech
- Women's History Month
- DPG Command Video
- Black History Month Observance

www.youtube.com/channel/UCPjFIEBY7j7ay6m7FouadqQ

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