



THE DISPATCH

U.S. ARMY DUGWAY PROVING GROUND

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January 2019

2019

• H A P P Y • N E W • Y E A R •

Command perspective

Team Dugway,

Happy New Year! Welcome back to work for what promises to be an exciting and busy year full of testing, training and mission support activities. I am particularly proud of all that you achieved in 2018 and am convinced that 2019 will be an even better and busier year for Dugway Proving Ground.

On the testing front, we are planning several key tests this year. The most notable include the first two increments of the Next Generation Chemical Detector (NGCD) test starting at mid-year. We continue to diligently prepare for this program by upgrading the Chemical Agent Vapor (CAV) test fixture and by adding new capabilities, notably the Secondary Containment Modules

(SCMs) and their associated new state-of-the-art test fixtures. In addition, we are planning on supporting the Stryker Nuclear, Biological, Chemical Reconnaissance Vehicle (NBCRV) Chemical Surface Detector (CSD) final prototype testing that includes chamber, environmental and field testing requirements. This fall, we will be supporting the Integrated Early Warning (IEW) system by supporting radar evaluations and Chem/Bio field testing. We are also excited to see the return of smoke testing with the XM-75 Screening Obscuration Module (SOM) program coming to DPG in the spring.

As we all know, DPG has provided world-class training opportunities for our nation's warfight-

ers and military forces of allied partners over the years. We will continue to provide these opportunities in 2019 and are excited to announce the return of the DESERT ICE exercise as well as a major exercise by the 20th CBRNE Command from Aberdeen, MD...get ready to see a lot more Soldiers, Sailors, Airmen and Marines in 2019. International interest for our advanced C/B training capabilities continues as well; we are currently planning events for the Australians, Germans, Canadians, and the United Kingdom.

The advancement of the Dugway 2040 initiative will continue in 2019; we anticipate achieving several milestones. The first is the creation of the area development

By COL Brant D. Hoskins

Commander, Dugway Proving Ground

plan (ADP) for the English Village mission support area. We recognized in our initial planning that for DPG to thrive in 2040 we could not just focus on mission facilities, but needed to develop our mission support backbone. This ADP provides us the first opportunity. In mid-February, we anticipate that we will also have completed the design for our new Integrated Combined Chemical Testing Facility. While the planning and design work continue, the CSM and I will be engaged with the chain of command and friends and partners of DPG to obtain funding.

In closing, I want to thank all of you for the extraordinary work and dedication that you continue to provide to this great Nation.



Know that you and your contributions to its defense are known and greatly appreciated; I am very proud to be serving with you. I am looking forward to an exciting, safe and successful year.

All the Best in 2019!

COL Hoskins

EMPOWERING THE NATION'S DEFENDERS

Dugway scientists share expertise with students

By Al Vogel
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Four high school students with an aptitude for chemistry spent half a day at Dugway Proving Ground learning that some chemical reactions can be hot – and pretty cool.

Hazardous Materials Test Facility, where chemists usually instruct military and civilian specialists how to recognize the work of the world's havockers.

Though it was not under an official S.T.E.M. (Science, Technology, Engineering, Mathematics)

Desert Test Center, enjoyed demonstrating active chemistry.

"It's a different audience but it's fun," Moff said. "It's always fun to see science in action; practical application is always rewarding to convey."

Using mortar and pestle, and



One Dugway High School teacher, and four of her students were guests of Dugway Proving Ground's Special Programs Division Dec. 18, 2018. Chemists at the Hazardous Materials Test Facility demonstrated the pyrotechnic results of mixing some chemicals, to observe burn rates and colors. Left to right: McKenzie Thackeray, Ethan Tolentino, Kaylee Glavin, and Science Teacher Rachel Gardner. Not pictured: Gregory James. Photo by Al Vogel, Dugway Proving Ground Public Affairs

The Dugway High School students, accompanied by their science teacher Rachel Gardner,

national program, the invitation to the students was in the same spirit: nurture their yearning for chem-



Gregory James (left) and Ethan Tolentino are illuminated by the brilliant crimson light of an ignited chemical mixture. Photo by Al Vogel, Dugway Proving Ground Public Affairs

were invited Dec. 18 to see how chemicals differ in color and burn rates when ignited. The demonstrations were conducted at the

istry and related sciences.

Jim Moff and Joshua Erickson, chemists with the Special Programs Division of Dugway's West

electronic scales, the students measured the oxidizer strontium nitrate and the fuel hexamine (familiar to Soldiers and campers as a campfire starter), to observe the compound's burning rate and color. For safety, visitors viewed all burning through clear polycarbonate barriers, at a safe distance; Moff ignited all the demonstrations.

At the end of the tour, the four students and teacher reviewed what they'd learned. In a classroom, Erickson reviewed some basic chemistry formulas and observations: potassium burns purple, materials that don't self-ignite lack activation energy, and modern explosives leave little behind but nitrogen gas. The students and teacher also took a 10-



Chemist Jim Moff of Dugway Proving Ground demonstrates some properties of hypergolic (spontaneous fire) reactions to four Dugway High School students. They were guests of Special Programs Division at its Hazardous Materials Test Facility. Photo by Al Vogel, Dugway Proving Ground Public Affairs

question quiz, based on the demonstrations.

"It's so fantastic to see real scientists, a cool job site, and you get to play," Gardner said of the Hazardous Materials Test Facility. "It's really wonderful for the kids to see real professionals doing exciting things in the field. It's a fantastic program."

As the students climbed into a Tooele County School District van to return to their school, they chat-

ted and chuckled excitedly about all they'd seen and learned. Perhaps someday one or more of them will be working in Dugway's labs, or the HMTF itself, puzzling out how to identify and defend against toxic chemicals and homemade explosives.

If their enthusiasm is any measure, the chemical students may someday be tough adversaries for the havockers of the world.



Dugway High School student Gregory James grinds chemicals with a pestle at Dugway Proving Ground, Utah. He and three students with high aptitude in chemistry were invited to learn from working chemists at Dugway's Hazardous Materials Test Facility. Photo by Al Vogel, Dugway Proving Ground Public Affairs

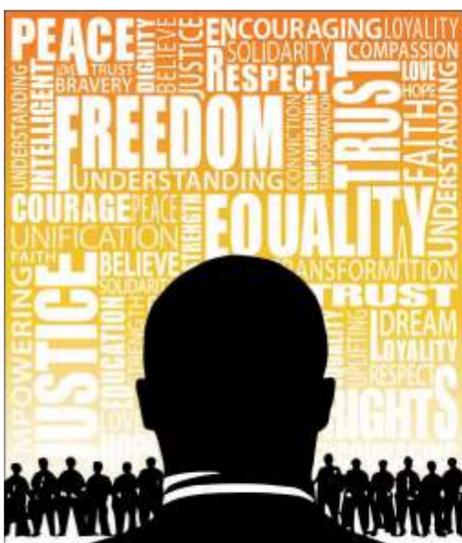
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and
Dugway Hope Chapel
invite you to the

Dr. Martin Luther King, Jr. Prayer Breakfast

Thursday, 17 January 2019
0730 - 0930
ACS Multipurpose Room

A delicious breakfast will be provided by the
Dugway Hope Chapel

For more information call: (435) 831-2726



COMMUNITY CALENDAR

January 2019

| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|--------|--|--|---|--|---|----------|
| | | 1 New Year's Day | 2 | 3 | 4 | 5 |
| 6 | 7 Monday Night Madness - 1815 - Dugway Hope Chapel - Football & Food | 8 Dinner and a Movie - 1800 (PG) - 2000 (R) - Community Club | 9 Story Time - 1100 - Post Library Command Staff Meeting - 0830 - Kuddes CR | 10 Dinner and a Movie - 1800 (PG) - 2000 (R) - Community Club Newcomers Orientation 1300 - 1500 Bldg. 5124 - Rm 239 | 11 Wendover Casino Dinner Trip - Departs 1500 - Returns 1200 | 12 |
| 13 | 14 Monday Night Madness - 1815 - Dugway Hope Chapel - Football & Food DFMWR Customer & Employee Appreciation Day - Ditto Diner & Community Club - Free Cookie | 15 Dinner and a Movie - 1800 (PG) - 2000 (R) - Community Club Garrison Staff Meeting - 0800 - CR 52 | 16 Story Time - 1100 - Post Library West Desert Staff Meeting - 0800 - Ditto - Roth CR | 17 Dinner and a Movie - 1800 (PG) - 2000 (R) - Community Club MLK Prayer Breakfast - 0730 - 0930 - ACS Multi Purpose Rm | 18 | 19 |
| 20 | 21 Martin Luther King, Jr. Day Monday Night Madness - 1815 - Dugway Hope Chapel - Football & Food | 22 Dinner and a Movie - 1800 (PG) - 2000 (R) - Community Club | 23 Executive Steering Committee - 0900 Ditto - Roth CR | 24 Dinner and a Movie - 1800 (PG) - 2000 (R) - Community Club | 25 SLC & Park City Brewery Tour - Departs DPG 1030 - Returns 2100. Must be 21 to attend. | 26 |
| 27 | 28 Monday Night Madness - 1815 - Dugway Hope Chapel - Football & Food | 29 Garrison Staff Meeting - 0800 - CR 52 | 30 Story Time - 1100 - Post Library | 31 Dinner and a Movie - 1800 (PG) - 2000 (R) - Community Club Blood Drive - 1030 - 1445 - Shocklee FS AFAP Conference - 0900 - 1500 - ACS Multipurpose Rm. | | |

THE DISPATCH

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EMPOWERING THE NATION'S DEFENDERS

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- **DPG Leadership Holiday Video**
- **Disabilities Awareness**
- **Newcomers: Jessica Hansen**
- **Hispanic Heritage Observance**

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