Nevada National Security Site

ONE VOICE

June 2015

A Publication for the
Nevada Enterprise (NvE) Complex

High-Tech Design

New 3D technology aids in retrofit, remodel projects.

See page 6.

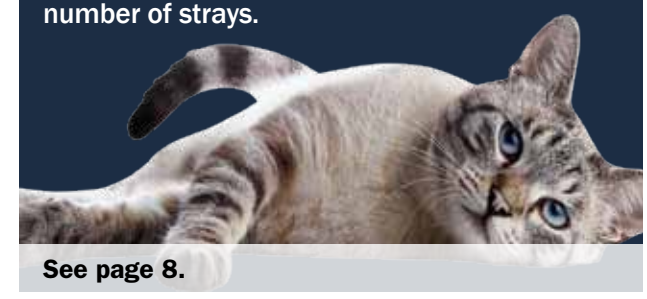
Fun in the Sun

Picnic, BBQ attracts hundreds of NvE employees.

See page 7.

Feral Cat Population Decline

Control methods lead to lower number of strays.



See page 8.

Happy Birthday, NNSS! Gearing Up for 65th Anniversary

In December 2015, the Nevada National Security Site (NNSS) will celebrate a storied 65-year history of atomic testing and homeland security support. *OneVoice* is paying tribute to the men and women who supported that mission with stories each month that look back at special events. **See page 4.**

NSTec Donation Helps Complete Cold War Memorial

By *OneVoice* Staff Reports

Nevada's newest national memorial was dedicated May 29, thanks in part to National Security Technologies (NSTec)'s $50,000 donation. Construction of the Silent Heroes of the Cold War National Memorial on Mt. Charleston would not have been completed as soon as it was without NSTec's donation, said Steven Ririe, chairman of the Memorial Foundation.

A Las Vegas resident, Ririe uncovered the secrets of the plane crash in 1998 while hiking on Mt. Charleston, which is located about 35 miles northwest of Las Vegas. Ririe set his sights on dedicating a memorial to all of those who died serving the United States during the Cold War. Visitors at the Spring Mountains Visitor Gateway can look skyward towards the mountain top where the crash occurred, Ririe said.

NSTec President Ray Juzaitis said the donation was timely because it helped Ririe's foundation reach its fundraising goal to complete final construction of the memorial, and important because it helped pay tribute to other heroes who worked at the Nevada National Security Site (NNSS) during the Cold War. Those heroes helped maintain America's nuclear deterrent. They played a major role in keeping the nation safe from the threat of nuclear attack, a role which has evolved and expanded into the vital national security missions of today's NNSS.

"NSTec is proud to be a part of this memorial because it honors those who paid the ultimate price while working in secrecy during the Cold War," Juzaitis said. "It also recognizes the tens of thousands of patriots who worked at the Site and elsewhere to deter a nuclear conflict for more than five decades."

According to the coldwarmonument.org website,

Continued on page 5

Photo: Dante Pistone

NATM's "In the Beginning" Founders Reminisced Over its History

By *OneVoice* Staff Reports

In celebrating its 10th anniversary, the National Atomic Testing Museum (NATM) held a special affair May 16 focusing on how the museum came to be. The "In the Beginning" event featured a panel of former and current Nevada National Security Site (NNSS) employees who helped found the museum. These founders discussed their roles in not only the physical construction of the facility but the efforts to build a sustainable museum focused on the history of atomic testing.

Bruce Church, a former federal Site employee, kicked off the event by describing how the curation of artifacts and documents began long before the idea of a museum was conceived. Church told how the effort started decades ago to assure structures

Continued on page 9

NvE Executive's Corner

By Martin Glasser, Senior Vice President and General Manager, Centerra-Nevada

In the past several months, there have been two separate instances in which the workforce at the Nevada Field Office (NFO) has observed and reported individuals committing security violations. In both instances, our Security Police Officers (SPOs) were able to stop the individuals involved and take corrective actions. I want to thank the Nevada Enterprise community for being observant and properly reporting, which helps to ensure that we are all following the security rules.

Both of these instances are great examples of employee awareness and involvement, and demonstrate the "See Something, Say Something" principle. Additionally, there have been two other instances where our SPOs, while conducting routine vehicle searches, discovered prohibited items that individuals were attempting to bring on site. Just a gentle reminder that all vehicles, and yes that includes my vehicle, are subject to random security searches. Our NFO manager, Steve Lawrence, has made it clear that we make no exceptions to security operations. Please help us keep our work spaces safe and secure.

These days, you can't pick up a newspaper or turn on the news where you don't read or see a report concerning unmanned aerial systems (UASs), also often referred to as unmanned aerial vehicles and sometimes drones. The use of these vehicles is expanding at an unprecedented pace for recreational use, and business and security applications seem limitless. The Department of Transportation and the Federal Aviation Administration recently proposed new rules for small unmanned aircraft systems. If you are a hobbyist with an interest in these systems, please "Know Before You Fly" and understand all the rules.

From a security perspective, if you see a UAS operating at the Nevada National Security Site or over the North Las Vegas complex, please report what you have observed to the **Operations Control Center (OCC)** at **(702) 295-0311** or the **Protective Force Central Alarm Station** at **(702) 794-5270**; however, do not attempt to interfere with the flight path of the UAS. More detailed and specific guidance on what to report will soon be published for all employees.

As many of you know, in November 2014 our former company, WSI-Nevada, was sold and a new company was formed called Centerra Group, LLC. The sale has been completed and we are in the final stages of rebranding from WSI-Nevada to Centerra-Nevada. I want to thank all of you who have assisted in our transition, and assure you that we are still committed to providing outstanding quality security services.

Marty

In Memoriam

Joseph "Joe" Dorner
North Las Vegas Facility
1949 - 2015

Centerra-Nevada Names New SPOs

By Todd Breitigan, Centerra-Nevada

Centerra-Nevada is proud to announce the graduation and the newest additions to our security team: Lieutenants Christopher Cruz and John Staniewicz, and Security Police Officers (SPOs) Jonas Borja, Matthew Cusolito, Tanya Kinsey, Amanda Jimenez and Kimberly Rouzer. Congratulations to these outstanding SPOs for completing the Tactical Response Force 100 (TRF) course May 14. In order to graduate the TRF-100 course, these graduates completed more than 400 hours of extensive training in weapons, tactics and other specialized subjects.

This class was comprised of more than 44 collective years of military experience, where they had served in the U.S. Army, Navy, Marine Corp and Air Force. Their military occupations included infantry, military police, communications, supply, amphibious assault, information systems, medical and meteorology. Most have combat experience; some have multiple combat tours while serving and protecting our nation throughout the world.

These SPOs were placed in positions of special trust and responsibility, and must accomplish the Department of Energy's missions without compromise or disruption. Through Centerra's Safeguards and Security Training Program, these SPOs have undergone a rigorous training program to ensure they are trained to a level of proficiency and competency to protect critical national assets here at the Nevada National Security Site. As the first line of defense against any adversary, they provide a broad range of services, from basic access control to executing complex security requirements.

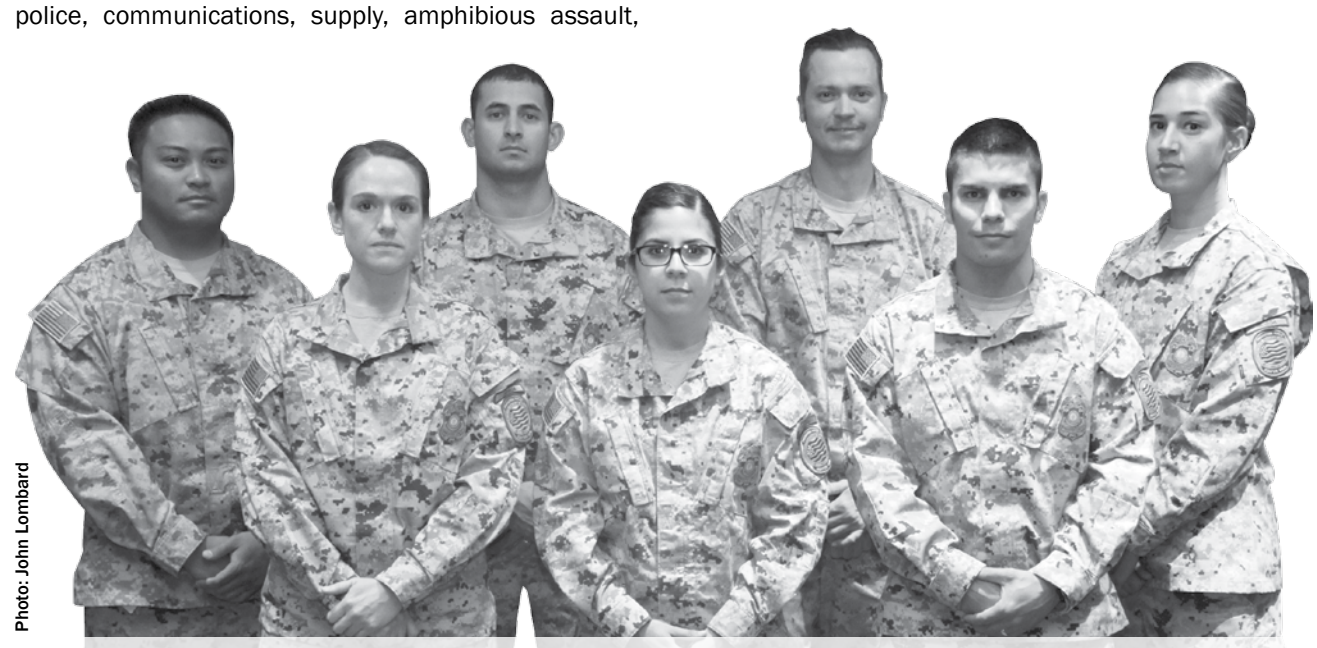


Photo: John Lombard

TRF 100 Class 2015-02 Graduating Class. Bottom row (l-r): SPOs Tanya Kensey, Amanda Jimenez and Jonas Borja. Top row: Lt. Christopher Cruz, SPO Matthew Cusolito, Lt. Jan Stankiewicz and SPO Kimberly Rouzer.

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Steve Lawrence, Manager, NNSA Nevada Field Office • Darwin Morgan, Director, Office of Public Affairs

Editors: Jeff Donaldson and Lory Jones. Submit articles or ideas to: onevoice@nv.doe.gov

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Contributors: Deborah Aguero (Protection Strategies Inc., LLC), Darwin Morgan, Renee' Rowe, Tiffany Lantow

NEVADA PRESS ASSOCIATION

U.S. Department of Energy
National Nuclear Security Administration Nevada Field Office
P.O. Box 98518, Las Vegas, NV 89193-8518
Phone: (702) 295-3521

NNSA National Nuclear Security Administration

Corporate Challenge: Team NNSS Ends Season in Fifth Place

By Debi Foster, NSTec

At the close of the 2015 City of Las Vegas Corporate Challenge season, Team NNSS (Nevada National Security Site) had locked up fifth place overall in the A division. During closing ceremonies May 16 at Lorenzi Park in Las Vegas, the team accepted its first place plaques, along with Best T-Shirt design for Division A. (the Team NNSS t-shirt was designed by National Security Technologies (NSTec) employee Bob Litt.)

Team NNSS – made up of NSTec, Centerra-Nevada and the Nevada Employees Association – were among 52 local companies that competed in 32 sports activities in the Corporate Challenge games, an annual event that reflects the spirit of the Olympic Games.

Team NNSS participants earned 35 gold medals, 48 silver and 64 bronze, a total of 147 medals. The results of gold, silver and bronze medal team winners were:

First Place
Horseshoes, Trivia Challenge

Second Place
Walk Race, Bowling, Bocce, Trap Shoot

Third Place
Skeet Shoot, Tug o' War, Laser Tag, Softball
Cornhole, B-Pong

Gold, silver and/or bronze medal individual winners competed in archery, bike race, 5K, golf, swimming, table tennis and track & field.

No strike here for James Underwood, who helped his team win the bronze in softball.

Mary Stephens and Holly Cox live it up as their team earned the silver in the walk race.

Photos: Luke Yardley, Debi Foster

Team NNSS burned their brains for the gold in Trivia Challenge (l-r): John Istle, Karen Gasperino, Ellen Cook, Andrew Burningham, Bob Litt and Carolyn Lima.

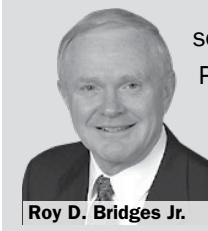
Don't forget to LIKE us on Facebook: www.facebook.com/NNSANevada

or follow us on Twitter: www.twitter.com/NNSANevada

News Briefs

NSTec Appointments

National Security Technologies (NSTec) recently named Roy D. Bridges Jr. as the new vice president of Strategic Management, and Donald "Don" McHugh Jr. as the Business Operations director and chief financial officer (CFO).



Roy D. Bridges Jr.

Bridges provides additional resources to assist the company and President Raymond Juzaitis in meeting NSTec's six strategic objectives. Formerly from Northrop Grumman Technical Services where he led the Engineering and Science Services Business Unit, Bridges' career also highlights his leadership in the U.S. Air Force and NASA. A retired U.S. Air Force major general, Bridges served in several command assignments around the U.S., including commander of the Air Force Flight Test Center at Edwards AFB, Calif. He was the director of NASA's Langley Research Center in Hampton, Va., and director of NASA's Kennedy Space Center in Florida. As a NASA astronaut, he piloted the Space Shuttle Challenger on the eight-day Space Lab 2 mission in July 1985.

Donald McHugh Jr.

McHugh is also from Northrop Grumman, where he was the vice president for Enterprise Business Operations and CFO. He started with Northrop Grumman in April 2005 as the director of Finance and assistant controller for the Information Systems Sector and held several financial positions within the company. Before joining Northrop Grumman, McHugh was the director of Finance with The Analytic Sciences Corporation for almost 18 years.

NSTec Awards Scholarship to two New Mexico Students

In May, NSTec honored two outstanding Northern New Mexico high school students with $10,000 scholarships. Kyra Hewett from Santa Fe High School and Christian Osorio from Penasco High School each received $5,000 to pursue their academic studies, namely mechanical engineering, their chosen major. Hewett plans to attend Colorado State University; Osorio will attend New Mexico State.

NSTec Principal Engineer Morris Kaufman, who presented Hewett with her scholarship, sits on the New Mexico Operations (NMO) Scholarship Selection Committee. Kaufman has been instrumental in promoting NSTec's scholarship programs in northern New Mexico communities. NMO's Engineering Associate Jaylene Martinez, who presented Osario with his scholarship, was, like Osario, a graduate from Penasco High School. She had also received an NSTec scholarship, and has worked for NMO as an intern for three summers.

Since 2006, NSTec has awarded 221 scholarships totaling more than $1 million.

65th Anniversary of the Nevada National Security Site

CELEBRATING 65 YEARS OF PROTECTING AMERICA'S NATIONAL SECURITY INTERESTS

By Jeff Donaldson, *OneVoice* Editor

In 1945, the United States and the Soviet Union met on the doorstep of Berlin, Germany, in the afternmath of World War II and set in motion a nuclear arms race that would last some 50 years.

At its height, the Cold War required that the United States achieve extraordinary advancements in the field of nuclear physics. The testing ground for those efforts began as a small swath of desert known as the Nevada Test Site (NTS), outside Las Vegas. By 1952, its name had changed to the Nevada Proving Ground, then back to NTS by 1954 – an indicator of a fast-changing yet important dynamic to American national security.

In 1992, a moratorium was signed ending the atomic testing era as it was known, instead paving the way for stockpile stewardship in the form of underground subcritical experiments. But the evolution of the mission of the Nevada National Security Site (NNSS) as it became in 2010, was more than just nuclear weapons. The NNSS also evolved into a testing ground for homeland security and counterterrorism operations support, such as testing nuclear detection systems for use at U.S. borders and training first responders in mitigation of loose nukes and dirty bombs.

The Site also serves numerous other agencies, from the Department of Defense to private corporations in evaluating testing programs and training personnel who protect our national security every day.

OneVoice will feature a historical story each month now and into next year to pay tribute to the men and women who served to protect U.S. national security at the NNSS during its rich and storied history.

MAY '53 "GRABLE" SHOT MADE KOREAN WAR STATEMENT

In May 1953, while the Korean War was raging in Asia, the United States forged ahead with a series of tests known as Upshot-Knothole. One of the more prominent of these tests was "Grable," designed to fire a 15-kiloton weapon from a 288-millimeter cannon into Frenchman Flat at the NNSS.

Numerous civil defense structures were constructed in the area to test the effects of the blast, and military troops simulated attacks on targets as the shot was carried out. Below is a summary printed by the Defense Nuclear Agency in a personnel review:

Shot GRABLE, the 10th test of Operation UPSHOT-KNOTHOLE, was detonated with a yield of 15 kilotons at 0830 hours on 25 May 1953. GRABLE was originally scheduled for 21 May, but because of a general change in scheduling after Shot BADGER, the event was postponed until 23 May. When Shot HARRY was postponed for three days because of unfavorable weather conditions, GRABLE was rescheduled for 25 May.

A 280mm cannon fired the atomic artillery projectile, which was detonated at a height of 524 feet above Frenchman Flat (Area 5 of the Nevada Proving Ground), at UTM coordinates 956728, which was the same ground zero intended for Shot ENCORE. The top of the cloud resulting from Shot GRABLE reached an altitude of 35,000 feet. Light fallout occurred to the north onsite and to the northeast offsite.

The firing of GRABLE from a 280mm cannon marked the first time an atomic artillery shell was fired and detonated. Preliminary firings of the cannon, using high-explosive rounds, occurred from 15 May to 25 May. The Artillery Test Unit from the Artillery Center, Fort Sill, Oklahoma, fired the GRABLE device. This unit consisted of a gun battery from the 867th Field Artillery Battalion, a communications platoon, a flash platoon, a meteorological platoon, a radar platoon, a camera team, and an ordnance detachment.

Unit personnel arrived at Camp Desert Rock on 7 May. On 22 May, they participated in a full rehearsal of the shot. Although the 280mm cannon was fired by remote control, unit personnel were at the 117 gun position before the shot to assemble and load the round. At shot-time, these personnel were either in trenches or behind barricades for protection from blast effects and flash burns. The cannon was about ten kilometers south-southwest of ground zero.

GRABLE shot – 1952

Archive photo

The Secretary of Defense, the Secretary of the Army, the Army Chief of Staff, and several Congressional observers witnessed the detonation from an area 11 kilometers north of ground zero.

An estimated 3,388 exercise troops and observers participated in Desert Rock V programs at Shot GRABLE. In addition, a group of 160 special observers from the 9th Ordnance Battalion viewed the detonation. Three hundred support troops provided radiological safety, transportation, communications and control services for the exercises in the forward area.

Personnel from Army Field Forces Human Research Unit No. 2 were probably present at the shot to investigate the psychological reactions of these troops to the detonation. These research personnel were to be present for all shots attended by provisional Battalion Combat Teams. The unit probably administered a questionnaire to the troops before and after the shots.

A STEM Pipeline into NSTec National Security: The Derek Constantino Success Story

By Dr. Kevin Sun, NSTec

Recently, Derek Constantino was hired by National Security Technologies (NSTec)'s Defense Experimentation and Stockpile Stewardship (DE&SS) Directorate as a newly minted electrical engineer. While a student at the University of Nevada Las Vegas (UNLV), Constantino was an NSTec intern and casual employee from May 2014 to February 2015.

Constantino's journey is one result of NSTec's vision to enhance collaboration with government departments, agencies, laboratories, universities and industry. He was recruited for the Center of Excellence for Security Science and Engineering (CESSE) while attending UNLV. CESSE is a UNLV/NSTec collaboration designed to forward the goals of stockpile stewardship. CESSE is one component of NSTec's science, technology, engineering and mathematics (STEM) outreach efforts.

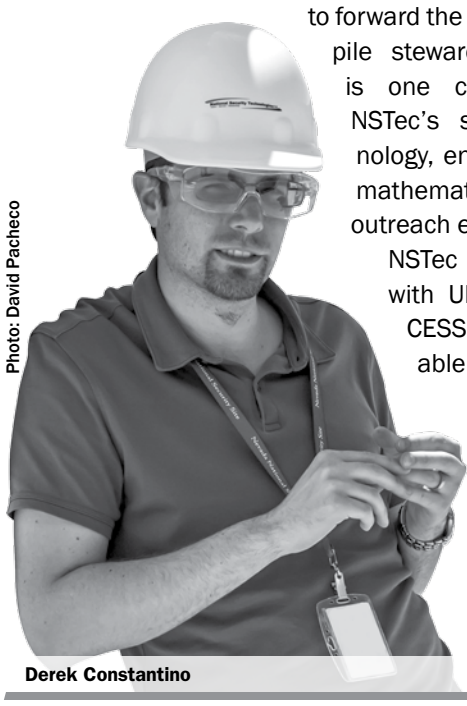


Photo: David Pacheco

Derek Constantino

NSTec collaborated with UNLV to create CESSE for sustainable and positive impacts with the company's university partnerships. It is a means to develop undergraduate and graduate student's interest in stockpile science by using the latest advances in industry and academic science and technology. CESSE recruits and trains those UNLV students with U.S. citizenship. Students are assigned to work on research projects with interdisciplinary teams using scientific principles and NSTec-specific applications to guide the student. They also gain experience and benefit from NSTec's expertise in safety, security and procedural adherence.

At CESSE, UNLV provides a workplace and office space with NSTec-equipped labs in an academic atmosphere. This leads to increased interaction between NSTec employees and UNLV students in the program. Projects are developed with both mission and academic significance to produce quality data that builds the lab credentials for pursuing larger projects. The funding afforded by NSTec allows for fundamental and technical research that requires longer time frames for students to progress through their studies. NSTec emphasizes tasks geared to national milestones and compliance with safety, security and regulations new to the students and UNLV.

"I have always been interested in doing things with my hands," Constantino said. "In my senior year in high school, I took an electronics course and I was hooked. I have been working with electronics ever since."

For his UNLV senior project, Constantino and his lab partner built a proof-of-concept gallium-nitride ultraviolet imager, winning second place in the annual project competition. Gallium nitride (GaN) neutron radiation hardness investigation is a core task for the CESSE. The experiment demonstrated an unparalleled GaN device radiation hardness cycle and successfully demonstrated GaN radiation hardness at a high neutron fluence. This result has been presented at several conferences in an invited paper.

Like most of the general student body at UNLV, Constantino said his immediate group didn't know what NSTec does at the Nevada National Security Site (NNSS). With a group of other interns, tours were arranged to the NNSS. During these tours, they discovered there is more to science than books and facts to be memorized and had a chance to see some real science going on there. Since then, Constantino has gained experience with dense plasma focus and a source physics experiment, as well as the Big Explosives Experimental Facility and other sites at the NNSS. He said that he hopes to work on more digital designs in the future, but for now, he is happy to get the experience and the exposure to many of the facets of the real science at the NNSS, going far beyond the textbooks.

NSTec is aware of this opportunity and has an excellent track record of engaging with local and neighboring universities and colleges. "We are proud of the many managers and employees who spend their time and effort to make sure talented STEM graduates know about NSTec," said Chris Deeney, NSTec vice president for Program Integration. "Derek's story demonstrates that it pays dividends."

With an increasing exchange of workforce, equipment and research projects, CESSE is a pipeline for future high quality workforce and a research center for DE&SS's long-term program needs.

Cold War Memorial

Continued from page 1

the inspiration for this memorial began early in the morning on Nov. 17, 1955. A U.S. Air Force Military Air Transport Service aircraft took off from Burbank, Calif., with an air force crew, Lockheed and Hycon engineers, CIA personnel and scientists bound for Watertown, now known as Area 51. At 8:40 a.m., the aircraft was first reported missing. The full story of the 14 men aboard and the U2 reconnaissance plane they helped build remained classified for more 40 years. Also classified as top-secret was the account of the men who risked their lives while they braved subzero temperatures at 11,500 feet elevation to attempt a rescue on Mt. Charleston.

Today, the Silent Heroes of the Cold War National Memorial honors those who perished, as well as the 500,000 federal contractors and employees who worked in secrecy.

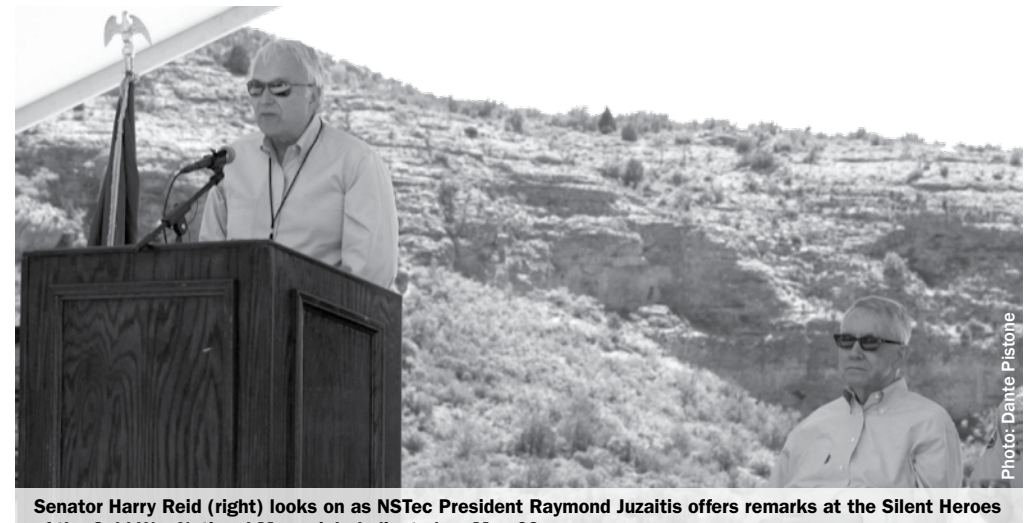


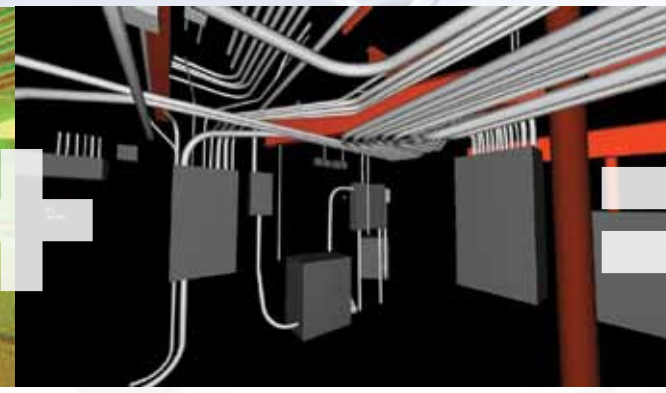
Photo: Dante Pistone

Senator Harry Reid (right) looks on as NSTec President Raymond Juzaitis offers remarks at the Silent Heroes of the Cold War National Memorial, dedicated on May 29.

NSTec Enters Another Dimension with 3D Technology

By Lory Jones, *OneVoice* Editor

3D Point Cloud. This photo represents the raw data taken from a 3D scanner commonly referred to as a point cloud.



3D Model. This photo of a computer-aided design model was created from the point cloud information that engineers can use to create design modifications.

3D Composite. Shown with both the model and point cloud photos.

Photos: The Delphi Groupe/VTN

As an employee at the Nevada National Security Site (NNSS), you've just been assigned environmental remedial work at an industrial area that may be contaminated. This job includes examining closures containing radioactive waste, ensuring that they are properly capped and covered so that there is no blow-away into the atmosphere.

Before you start, you must get approval to physically work in the area. Because the area is contaminated, you'll need to suit up with personal protective equipment, all the time mindful of safety. Finally, you'll set up your equipment to measure and gather data from a bulky gauge, or maybe lug it back to your computer in an office somewhere. All of this eats up time and several labor hours, which gets expensive.

That's so yesterday.

National Security Technologies (NSTec) has recently invested in three-dimensional space, or 3D, technology that creates images of areas that need retrofitting, or remodeling. A 3D scanner takes images that digital cameras alone cannot, while producing real data in real space. The benefits to using 3D technology are many: The 3D equipment scans an area, locates images geospatially, "stitches" those images together, and presents data much more accurately and in less time – say, five to thirty minutes to scan with a few hours to stitch scans together, versus perhaps 20 hours to walk down and measure the same area. All a trained operator does is set up the 3D equipment, then let it go to work.

Photo: www.faro.com

FARO 3D Scanner

The 3D process is key whenever you are working on retrofit projects, which account for a majority of the projects at the NNSS, according to Ryan Clifford, a project engineer with Design Engineering, a division of NSTec's Operations & Infrastructure. Operating this 3D system involves three steps: scan, process and deliver data. To do this, technicians use a 3D scanner, a device that is basically a combination of a digital camera and a laser range finder. The equipment that NSTec owns are two FARO Focus 3D laser scanners. In order for a 3D scanner to stitch multiple scans together, it uses white spheres or black and white checkerboard images as targets that are placed throughout the location being scanned. Once the scanning and stitching is complete, the 3D system provides "point cloud" files. This lets the user virtually review and measure data from the scanner on a workstation, instead of the user going out in the field to read data.

For example, going back to the scenario above, that cap and closure project happened at the fenced-in CAU 547 Mullet Site in Area 2. Previously, "We couldn't go past the fences without spending significant time and money to suit up and decontaminate. With the 3D system, we eliminated the need to enter the radiological area because the area of proposed work could be scanned from the outside of the radiological boundary," said Clifford.

Two projects at the Device Assembly Facility (DAF) – the Lead-In Line and ATS (automatic transfer switches) – have benefitted from the 3D process. "For the Lead-In Line project, 3D has been used as a mitigation strategy for items on our risk-register," said Clifford. "3D can more accurately identify locations of buried utilities when used in conjunction with a precision underground utility locate. We see immediate cost savings by reducing the number of potholes needed for uncovering existing utilities." For the ATS project, engineers are using 3D technology to navigate new work through a complicated system of overhead conduits where space is limited.

U1a has seen the benefit of 3D technology at the DAF and has begun using it on their projects to more accurately predict how new equipment will logistically be brought down-hole and how it will fit into mined spaces.

3D has one challenge at NSTec – getting enough computer storage to expand 3D projects. Said Manager Steve Goold, "We're working with NSTec's Information Technology division for more storage that can handle up to 40 terabytes. That's our goal. Some models we've done so far have used up 30 gigabytes."

Design Engineering is developing proposals for funding and uses for the new 3D system so that they may grow this capability not only within its directorate, but throughout the Nevada Enterprise.

"There are numerous applications for 3D technology such as scanning accident and event scenes, virtual fit of equipment, redefining configuration management, virtual walk-downs, 3D model printing, and use as a business development tool, just to name a few," said Clifford. "This is technology that has been used for years in commercial construction. 3D technology at the NNSS will help bring our workforce into the 21st century."

For more information on how 3D technology works, visit the FARO website at: http://aec.faro.com/. You can also watch a YouTube demonstration: www.faro.com/en-us/products/3d-surveying/faro-focus3d/overview.

Carnival, BBQ Picnics Attract NvE Employees, Families

By Lory Jones, *OneVoice* Editor

Who doesn't love a carnival? Almost 580 employees from National Security Technologies (NSTec) and their families do! NSTec held its company "Carnival" picnic May 2 at Centennial Park in Las Vegas. Everyone relaxed in the shade, competed in games and activities, and enjoyed a delicious variety of food, including traditional carnival fare such as corn dogs, hot pretzels, fried pickles and cotton candy.

On April 23, the Nevada Employees Association (NEA) held their annual picnic at Mountain Crest Park in Las Vegas. NEA members enjoyed barbecue, volleyball and a dessert contest. The winner of the Volleyball Challenge was the office of the Assistance Manager of Site Operations. Winners of the dessert contest were Chris Baker (first place for her Heart Attack Crackers), Sofia Sullivan (second for her S'mores brownies) and Tiffany Lantow (third for her Scotcheroos).

Photos: Lory Jones, Jason Julian, Kirsten Kellogg and Jackie Watson

High-fiving NSTec President Ray Juzaitis

Arcade games

Water Balloon Toss

Cool Tattoos

Snowcones

Frozen T-Shirt Contest

August Schellhase and Rob Mignard heat up the grills at the NEA barbeque picnic.

Update: Feral Feline Colony Controlled at the NLV Facility

By *OneVoice* Staff Reports

Nevada Enterprise employees at the North Las Vegas (NLV) Facility know well of the feral cats that roam the campus. In recent years, Facility Manager Renee Rowe has worked with the Community Cat Coalition of Clark County (C5) and Heaven Can Wait Sanctuary to capture and spay/neuter the cats and return them to the facility, or find them good homes. The purpose is to thwart a growing cat population there.

Since September 2014, the NLV Facility has captured 24 kittens which were spayed/neutered, vaccinated, microchipped and placed in permanent homes within the county. Also, 10 adults were captured, fixed and returned to their colony, which is less than a dozen cats remaining at the NLV Facility. "It appears that there are no more than two adults left to be captured and fixed," said Rowe. She added that the efforts of controlling the NLV Facility cat population would not be possible without the invaluable help of C5's Keith Williams, Heaven Can Wait and other volunteers.

The Nevada Enterprise has successfully controlled its feral cat population since 2009.

Stock photo

Business/IT Professionals Meet at NSF for Accountability Software Upgrade

By *OneVoice* Staff Reports

Business and Technology Working Groups, representing some of the Department of Energy's National Nuclear Security Administration (DOE/NNSA) and other federal organizations, recently convened at the NNSA's Nevada Support Facility (NSF) in North Las Vegas for the DOE's LANMAS Modernization Project (LMP).

LANMAS, or the Local Area Nuclear Material Accountability Software, is the DOE's standard nuclear materials accounting system used throughout the DOE and NNSA complex. LANMAS is maintained by Savannah River Nuclear Solutions (SRNS) under contract to the NNSA. It collects, stores, retrieves and reports information required for all nuclear material accounting and material control program elements as specified by DOE orders and manuals.

The LMP was established to re-architect the business and technology components of the software to upgrade from an outdated platform in order to support long-term viability of the product. The Business and Technology Working Groups, consisting of the LANMAS sites, were formed to develop and deploy the new product, which will be known as LANMAS 4.0.

The LMP meeting raised discussions that resulted in critical decisions for software functionality and system architecture design, reviewed module prioritization and established timeframes for implementation. LANMAS 4.0 will consist of a phased implementation broken out into eight modules. Completion of the first module is scheduled for October 2015; the final module is scheduled for release in November 2018.

The Working Groups are comprised of 28 participants representing NNSA headquarters, the Nevada Field Office, the LANMAS support team, 11 LANMAS sites and project management personnel.

Photo: Lory Jones

Participants of the meeting pose outside of the Nevada Support Facility.

NSTec Hosts EFCOG Workshop to Protect DOE Assets

By Lory Jones, *OneVoice* Editor

The Department of Energy (DOE)'s Office of Enforcement held its Safety and Security Enforcement Workshop recently at the Nevada Enterprise's North Las Vegas Facility. The workshop was followed by a companion meeting of the Energy Facility Contractors Group (EFCOG) Regulatory & Enforcement Technical Subgroup.

The new enforcement coordinators were trained on their duties and roles in driving safety and security improvements. This is in accordance with Energy Secretary Ernest Moniz's goal of reducing incidents, enhancing safety and actively protecting DOE assets.

Kicking off the workshop were DOE Director of Enforcement Steven Simonson, Nevada Field Office Deputy Manager Carol Sohn, National Security Technologies (NSTec) Program Integration Vice President Chris Deeney and NSTec Regulatory Compliance Assurance Program Manager Brian Barbero. Glenn Podonsky, director of DOE's Office of Enterprise Assessments, was the keynote speaker. Said Podonsky, "After serving 10 Secretaries, I can tell you that this Secretary is the most engaged in the safety of our workers."

NSTec has hosted these joint meetings semi-annually since 2012.

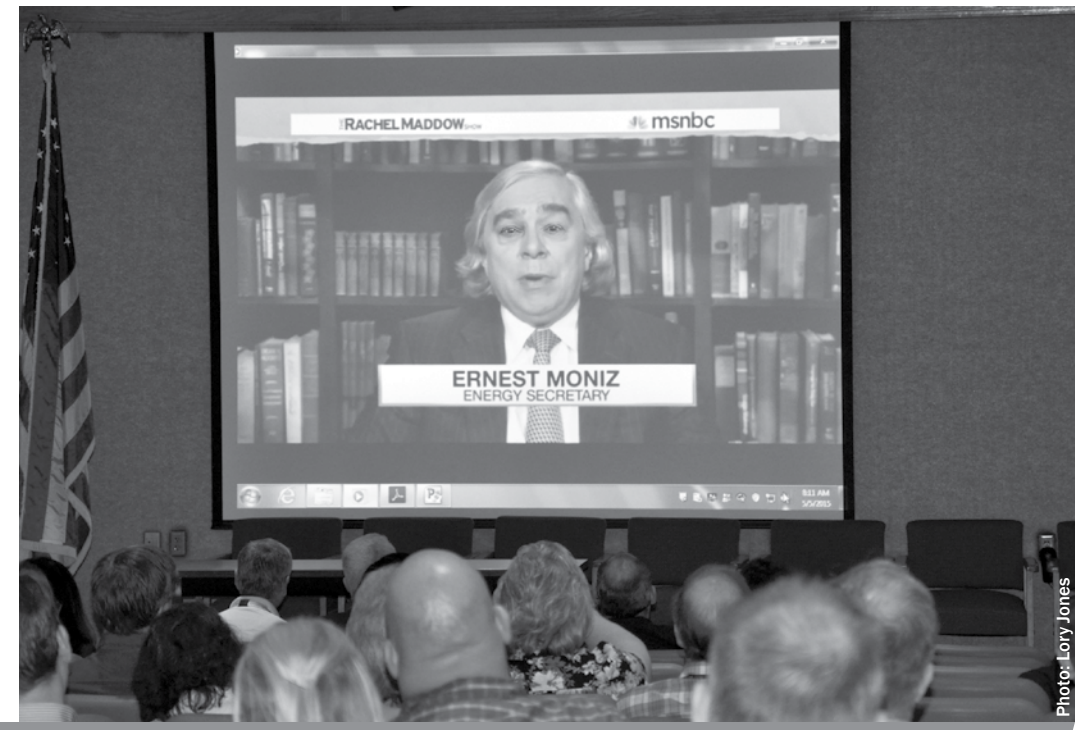


Photo: Lory Jones

"In the Beginning"

Continued from page 1

on the Site were not destroyed. "Several times we had to fight people in Washington who wanted us to clean up the Site and clear out the structures on Frenchman and Yucca Flat," he said.

While the efforts to save those structures and others were successful, there was also an effort to save the historical record of testing. Records today are maintained by the NNSS in the Nuclear Testing Archives.

While Church recounted the efforts to form the group of people who would become the governing body of the Nevada Test Site Historical Foundation, another former federal employee, Loretta Helling, spoke about the work she did to collect artifacts, and design and build the displays we see today. Helling led the effort to work with a design company out of British Columbia, Canada, and a museum construction company here in the states. Getting items for the museum involved more than just scavenging at the NNSS. "We spent a lot of time on eBay looking for some of the atomic kitsch we put in the displays," Helling said.

Photo: Joe Kent, NATM

Visitors line up to enter the NATM.

Panel member Troy Wade, also a former federal Site worker, serves as the foundation's chairman. With that title has come one of the more difficult tasks: fundraising. Even though the museum was part of a building covered under a General Services Administration lease with the Department of Energy (DOE), monies still had to be raised to fund the exhibits, set-up a museum store and pay salaries.

"We were fortunate to find several large donors early in the process. Through them we got the doors open. That said, we still continue to look for donors, large and small, to assure we can keep this vital piece of history alive and available to the public," said Wade.

Two other panel members, current NNSS employees Martha DeMarre and Darwin Morgan, participated in the discussion. DeMarre has assembled more than 300,000 documents related specifically to nuclear testing. She maintains dosimetry records to include military and civilian participation in Pacific and continental nuclear testing. Those records are available to the public through the DOE's public reading room, adjacent to the museum.

RSL's Aviation Safety Day: Risks, Solutions and Awards

By Lory Jones, *OneVoice* Editor

The Remote Sensing Laboratory (RSL) at Nellis Air Force Base (AFB) in Las Vegas held its Aviation Safety Day May 13 to emphasize RSL's commitment to aviation safety.

The event drew speakers from different divisions within National Security Technologies (NSTec), the National Nuclear Security Administration Nevada Field Office, the Federal Aviation Administration (FAA), the Las Vegas Metropolitan Police Department and Nellis AFB.

Each year, RSL's Aviation team members set aside a day at their facilities at Nellis and Andrews AFB in Maryland to conduct knowledge-based aviation safety training that focuses on personal responsibility and the essential elements of aviation professionalism and safety. The Safety Day was open to everyone involved in aviation, including Emergency Response personnel and qualified non-crewmembers, as well as members of NSTec and federal management and oversight teams.

"Aviation safety is a part of our everyday life at RSL Aviation and is considered a value that we work very hard to instill in everything we do. The expectation of our Safety Days is for everyone to come away with new and enlightened perspectives on safety practices along with better situational awareness of aviation safety risks and the policies and procedures that help to mitigate the hazards associated with aviation safety," said Richard Fischer, Aviation manager from RSL-Andrews.

Posing with the Diamond Award (l-r): Terri Tackett (FAA), and NSTec's Joe Keller, Joe Cummings, David Krausnick and Alan Will.

Overseeing the event was Capt. Shawn Cadwell, RSL's Aviation safety representative at Nellis. Said Cadwell, "Our theme this year was, 'Something's gone wrong, now what?' We're consistently emphasizing prevention, which always matters. Now we need to concentrate on any after-affects: 'Next time, how should we deal with this incident or that issue?' Our professionals want solutions and be at the ready."

There were also awards. RSL received the FAA's prestigious Aviation Maintenance Technician (AMT) Diamond Award for Excellence. This year's recognition represents the 11th consecutive year that RSL Aviation has earned the highly respected FAA AMT Diamond Award of Excellence and reflects notable credit for NSTec and the outstanding performance of the Aviation maintenance technicians.

Photos: Steve Carragher

RSL's Aviation Team (l-r, front row): Front row: Sandra Hayes, Emanuel Avaro, David Krausnick, Joann Jackson-Bass, Terri Tackett (FAA) and Joe Cummings. Back row: Alan Will, Shawn Cadwell, Jessica Thomason, Joe Keller, Mike Toland, Susan Roberts, Leslie Winfield and Dan Butler.

NvE VOICES

John Lombard

Current Position
As a coordinator in Performance, Test & Assessment, John is responsible for ensuring performance testing of Centerra-Nevada personnel and physical security systems.

Career Path (past 10 years)
- Coordinator, Emergency Management and Continuity of Operations, WSI-Nevada, Nevada National Security Site (NNSS) (April 2009 – March 2014)
- Captain, Security Supervisor, WSI-Nevada, NNSS (July 2005 – April 2009)
- Sergeant First Class, United States Army, Military Police Corps (September 1983 – June 2004)

Notables (awards, honors, achievements, published works, etc.)
- 2011 WSI-Nevada Non-Uniformed Supervisor of the Year
- Bronze Star for actions during Operation Iraqi Freedom
- Co-Authored two articles in 2000 for the National Tactical Officers Association's quarterly magazine, the *Tactical Edge*, on the Protective Services Operations

Education
Bachelor of Science in Psychology, University of Phoenix

John, why did you join Centerra-Nevada (formerly WSI-Nevada)?
"I had retired from the Army in 2004 and was bouncing around from job to job in Denver, South Korea and Missouri when I made contact with some old Army friends who told me WSI was hiring, and here I am."

What do you enjoy most about your job?
"The people I work with on a day-to-day basis."

What do people NOT know about you (special talent, hobby, desire, etc.)?
"I am a volunteer with the Red Rock Search Rescue Mountain Bike Team."

If you could go anywhere in the world, where would it be and why?
"I want to travel to Nepal and see Mount Everest from base camp. I love the mountains and want to see the highest mountain on the planet."

What or who inspires you, and why?
"Endurance sports inspire me as they test the limits of one's body and mind. I have ridden with many cyclists who are in their 80s doing 100, 200 miles or more. I hope to see myself continuing to do the same thing when I reach their age."

Emma Delgado

Current Position
As senior property specialist of NSTec's Asset & Material Management department, Emma is responsible for system administration of Sunflower Assets (property database) including cataloging all new property, assigning roles, retiring assets, database updates and corrections, etc. Emma is responsible for tracking all property on subcontracts and loans to other government agencies. She reviews all purchase orders for property tagging and reports to National Nuclear Security Administration/Nevada Field Office on loss/thefts, write-on/write-offs and unlocated inventory items.

Notables (awards, honors, achievements, published works, etc.)
- Received the Weapons Recognition of Excellence Award as a member of the EG&G/Energy Measurements Malcolm Baldrige Assessment Team in 1995
- Certified Professional Property Administrator (CPPA) through National Property Management Association

Education
Bachelor of Science, University of New York City, Hunter College

Emma, you've been serving the Site mission for, remarkably, 30 years. Why have you stayed so long?
"It's a job. No seriously, it's a great job! I had to support my family, and in a town that is open 24 hours a day, working days, having weekends and holidays off, and medical benefits is unheard of. And of course through the years my co-workers have become my family."

What has been your most significant contribution to your job?
"I've been here for 30 years, need I say more?"

What do people NOT know about you (special talent, hobby, desire, etc.)?
"I love to salsa dance or anything else for that matter."

What or who inspires you, and why?
"My grandma, who I am named after. She was the oldest of eight children and had to help her mother raise her younger siblings and then her own family. She was a bilingual secretary for the Governor of Puerto Rico at a time when most women didn't work outside of the home. She never had time to go to college, a dream she always wanted to come true. Then at the age of 69, she walked across the stage of University of Nevada, Las Vegas with a degree in psychology. So whenever I think I'm too old for something, I think of her."

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Another Successful NSTec Academic Outreach Initiative

By David Pacheco, NSTec

Each year, the National Nuclear Security Administration (NNSA) holds the Stewardship Science Academic Programs Symposium. The March event, held in Santa Fe, N.M., drew attendees from the national security enterprise (Labs and other installations) and provided an overview of the research conducted at U.S. universities under NNSA Academic Alliance funding.

National Securities Technologies (NSTec) scientists were able to attend and staff a booth during the symposium, thereby enhancing NSTec presence in this academic community. This afforded ample opportunity for NSTec staff to interact with many of the NNSA academic researchers and to learn about their facilities and recent achievements.

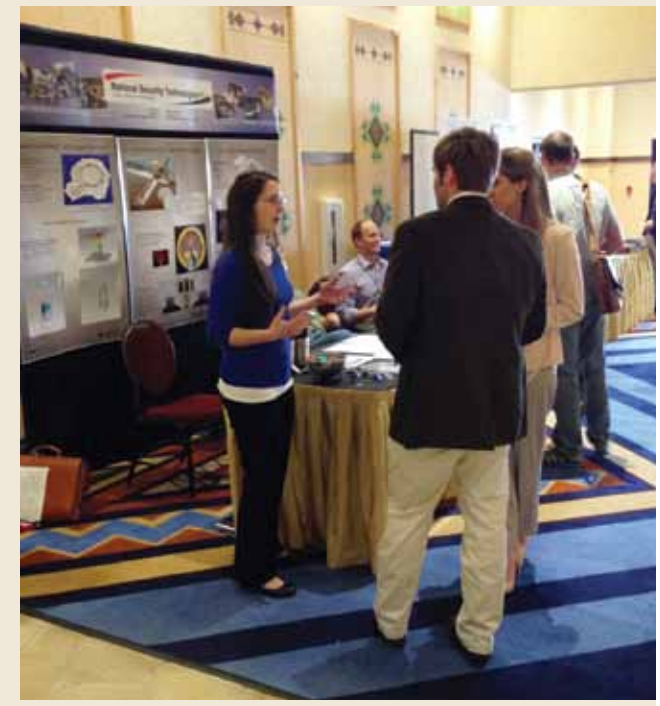
As most of the students who approached the booth had never heard of NSTec, the booth was effective at attracting attention to the company's key contributions to national missions and development efforts in cutting-edge national security technologies.

Said Eric Machorro, NSTec manager of Analysis, Software and Drafting in the Defense Experimentation & Stockpile Stewardship (DE&SS) directorate, "This is an important NNSA forum for attracting the nation's best and brightest while sharing world-class research. This year was our strongest showing yet. We attracted crowds of students, up-and-coming researchers and accomplished senior investigators to our booth."

While the majority of presentations were given by senior researchers at each institution, a poster session featured graduate and undergraduate students, many of whom hoped to remain in the field after graduation.

DE&SS aggressively recruited graduate students who expected to graduate in the next one to two years, many of whom were working on a variety of topics such as laser-plasma interactions, radiation transport, and equation-of-state/shock physics. These are important application areas for radiography, photon Doppler velocimetry and detector technologies.

Said DE&SS Director Raffi Papazian, "Our outreach initiatives are key to NSTec's ability to support the enduring national stockpile stewardship mission. Our ability to showcase the many initiatives that we are pursuing to some of the best and brightest students in our educational institutions is foundational to our ability to attract, recruit and remain relevant and forward-leaning within the NNSA Complex. Our attendees represent a great cross-section of our technical initiatives and are superb ambassadors that epitomize our core technical diversity."



Photos: Eric Machorro

Symposium participants visit the NSTec booth.

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