



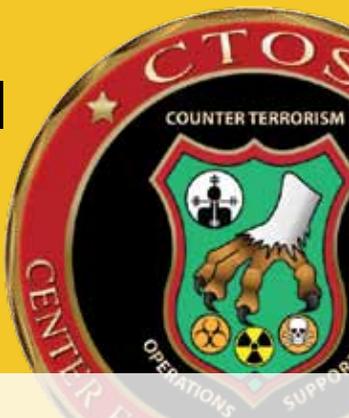
# ONE VOICE

May 2015

A Publication for the Nevada Enterprise (NvE) Complex

## CTOS Goes International

First INTERPOL student takes hazmat course.



See page 3.

## A Day in the Life

Spend a day inside the diverse mission of NNSS firefighters.



See page 4.

## NvE Celebrates Earth Day

Employees rally to celebrate conservation.



See page 7.

# Mock Confined Space Redefines Tight Rescues

By Lory Jones, *OneVoice* Editor

Imagine trying to learn how to rescue someone from a very small opening – and all you have to refer to is your imagination. Or a trash can lid.

This is what National Security Technologies (NSTec) Trainer David Sams used to do during such classes. Raising a trash lid about 22” in circumference, he would say, “OK, imagine you’re pulling someone through a hole this small.”

Sams and others knew: There had to be a better way to train.

Enter the mock confined space in Mercury, Nev., near Building 23-113. On the outside, it’s not remarkable: a 144-square-foot metal container with stairs to the top. But once you enter, you see equipment that clarifies its importance. High-voltage electrical boxes and water lines. Ropes. Harnesses. A bright yellow ladder attached to what looks like a closed trap door in the ceiling. And a suited-up mannequin. This is where NSTec’s Training

Department conducts training on emergency non-entry retrieval of an average-sized human through tight spaces.

“The Mock Confined Space is a vast improvement over previous rescue training, where students had to imagine or pretend to work with a confined space. With this new space, or box, they are actively in it,” said Training Manager Bonnie Spencer at the confined space’s ribbon-cutting ceremony April 21.

The mock confined space’s beginnings began to germinate in Sams’ imagination several years ago: “What if,” he said during an emergency response class, “we had a real place to practice in? Where everyone hooks on their gear and actually hoists people? Wouldn’t that be great?” Simultaneously, Darryl Magers from Operations & Infrastructure and Glenn Schaefer II from Mission Assurance and Safety considered ways to make the training more efficient and effective for students. With

the help of Industrial Hygiene Manager Tom Gran, Confined Space Program Coordinator Diana Mendel and Training Division Course Developer and Instructor Randy Summers, the concept was on its way.

Schaefer suggested using the box – once a deserted piece of property from Building 6-900 at the Nevada National Security Site – and retrofit it according to training’s needs and safety specifications. “We had to make such training more efficient, so I suggested we use the box out there,” he said.

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## NSTec Sandia, Los Alamos Offices Combine Operations for Maximum Efficiency

By *OneVoice* Staff Reports

In an effort to drive efficiencies in the Defense Experimentation and Stockpile Stewardship (DE&SS) management structure, National Security Technologies (NSTec) has announced the consolidation of the company’s Sandia (Albuquerque) and Los Alamos offices into the New Mexico Operations office, effective immediately.

NSTec has about 20 employees working at Sandia and about 80 in Los Alamos, all supporting the National Laboratories there. While the employees will continue to work at their respective offices, the merger will ensure cost savings in the management of the programs.

“It’s important for all our divisions to drive efficiency in operational overhead,” said Amy Lewis. Lewis will help transition the new operation as the deputy operations manager while she continues to work on her programmatic activities with advanced imaging. Eduardo Rodriguez will continue as the senior on-site manager at Sandia.

Wil Lewis is the new operations manager for New Mexico Operations. In his role, he will seek opportunities to share projects, resources and administrative support while facilitating new hires in strategic technical areas in both locations.

Both Wil and Amy will spend some time in the Albuquerque office focusing on fostering Sandia partnerships. DE&SS remains committed to supporting advanced radiography through collaborations with Los Alamos and Sandia National Laboratories.



The Mock Confined Space training building in Mercury.

Photos: Paul Hallman, Lory Jones

# NSTec's Performance Awards Honor Two Teams

By *OneVoice* Staff Reports

National Security Technologies (NSTec) recently awarded two Performance Awards to teams from Operations & Infrastructure (O&I)'s Facilities & Infrastructure Management division and Global Security's Remote Sensing Laboratory (RSL) at Andrews Air Force Base. These awards, earned in the second half of the Performance Awards season (April - September), acknowledged outstanding accomplishments for fiscal year 2014.

## FOM Upgrade Team

O&I's Facility Occupancy Management (FOM) upgrade team researched, designed, developed and implemented an upgrade of the FOM system. This upgrade resulted in several major improvements, enhanced and increased capabilities, and cost savings. Implementing new and innovative design strategies with improved workflows and an integrative approach, the design team addressed numerous weaknesses and issues, building a system which exceeded expectations. Integrated within the Geographic Information System, FOM improvement includes a new, more robust database architecture, built-in Quality Assurance tools, and overall system enhancements such as improved workflows and documentation, system redundancy and greater depth-at-position. New/enhanced capabilities include better spatial analyses, accessibility and usability, and data/information products. The cost savings over a three-year period are estimated at \$305,000.

## Tactical Radiological/Nuclear Search Operations

From RSL-Andrews, Seth Henshaw, Ron Wolff, Wendy Cable and Matt Kiser were recognized for taking the lead on a new mission area called Tactical Radiological/Nuclear Search Operations.

In 2010, the White House's National Security staff

signed off on an agreement at the sub-level of the White House's Interagency Policy Committee to create a new interagency concept for search operations in situations involving medium/high credible intelligence. This new mission area is referred to as Tactical Radiological/Nuclear Search Operations. A considerable effort was made at the FBI and White House level to get the Department of Energy and National Nuclear Security Administration's Office of Emergency Response (NA-42) named as the technical lead for this mission space. Subsequent to recognizing NA-42's role, a very significant amount of work had to be done to get NSTec's Nuclear/Radiological Advisory Team (NRAT), and therefore RSL, designated as the NA-42 asset to take the lead in this new mission area. This is currently the highest profile

radiological emergency response operation at the national level, and has already been incorporated into national level interagency exercises.

In addition to the political and policy challenges, there had been substantial operational and logistical difficulties to overcome. The team at RSL-Andrews had to work with their FBI partners to create a new Concept of Operations. The newly designated FBI assets had to be trained in the type of operations that were done from a technical perspective, and NRAT personnel had to be trained to operate in the environment that the FBI deemed most probable for this operation. All of this was done while facing very difficult logistic and financial limitations.

Congratulations to these teams!



FOM Upgrade Team, left to right: Fred Williams, Gerald Brown, Dan Soper, Joyce Lee, Kari Stringfellow, Ashley Burns, Karen Worth, Jim Holt. Not pictured: Brian Allen.

Photo: Lory Jones

## In Memoriam

Allan Muggli, NNSS  
1940 - 2015

Michael S. Murphy, NNSS  
1958 - 2015

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# ONE VOICE

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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](mailto:onevoice@nv.doe.gov)

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Contributor: Debi Foster



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



# CTOS Hosts First International Student

By Terry Brooker, NSTec

Counter Terrorism Operations Support (CTOS) hosted its first international student in February's Hazardous Materials Technicians Course. CTOS, a division in National Security Technologies (NSTec)'s Global Security directorate, conducted the course at the Nevada National Security Site (NNSS). The student was Ingrid Roger, who works for the International Criminal Police Organization, better known as INTERPOL, as an assistant Chemical, Biological, Radiological, Nuclear and Explosives (CBRNE) analyst. Originally from Estonia, Ingrid is currently assigned to the INTERPOL headquarters in Lyon, France.

to find a training partner who can train law enforcement agencies worldwide to such incidents."

Corr soon traveled to Lyon, where he briefed INTERPOL's CBRNE Deputy Director Jeff Muller on CTOS training capabilities. As fate would have it, Muller was on loan to INTERPOL from the FBI, had been to the NNSS in the past, and asked Corr if CTOS could expand their training portfolio to include chemical and biological terrorism. Corr assured him that the Global Security Directorate could, and they arranged for INTERPOL to visit the NNSS.

Several weeks later, Ingrid Roger and King arrived



Class photo with Ingrid Roger (second row far left).

Said CTOS' Terry Brooker, "INTERPOL expressed interest in CTOS training possibilities, so they sent over someone to see what the NNSS and CTOS had to offer, while one of their analysts actually took the course. They sent Ingrid, and that's how we met."

Ingrid's journey to Nevada began through a conversation. While attending a training class in Oak Ridge, Tenn., CTOS Eastern Regional Manager Mike Corr met fellow student Alan King, a member of INTERPOL. Corr had read about a newly formed INTERPOL Radiological/Nuclear Terrorism Prevention Unit and during a break, asked King if he knew who ran the unit. Much to Corr's surprise, King, formerly from the United Kingdom's Metropolitan Police, said he did. As the conversation and camaraderie developed, both quickly identified common ground. Corr told King about CTOS and the mission to train U.S. first responders to radiological and nuclear incidents. King said to Mike, "Well, that's jolly good news. We at INTERPOL are looking

in Las Vegas. Roger attended the four-day CTOS course, while King visited with CTOS and Global Security leadership and made a site visit to some of the CBRNE-related training venues at the NNSS. King was very impressed with the NNSS and intends to lobby for funding to support bringing police agencies from around the world to the NNSS for CTOS training.

As for Roger, her experience seemed to be equally rewarding, based on a note she sent to her hosts. "Dear all, I can't thank you enough for the excellent CTOS training I got to be part of last week in [Las] Vegas and at the NNSS! Everything was absolutely outstanding, from the instructors who were impressive to the course content that was both informative and sufficiently hands-on. Special thanks for all the arrangements made for me and others prior to and during the training course. Much appreciated! Kind regards from sunny Lyon, Ingrid."

## Mock Confined Space

Continued from page 1

Then he and Sams revised the course. Gran and Mendel approached the training from an Industrial Hygiene confined space viewpoint.



During the pilot training course, a mannequin is raised to the roof of the mock confined space.

Said Summers, "Until you've actually been attached to a lifeline and tethered to an anchorage point, you can't get a real sense of how even the simple things, some of which one does instinctively, must be thought through. For example, a couple missteps in the wrong direction can cause one to get tangled up in the lines in a danger zone, making it very difficult for non-entry retrieval to be accomplished. As an added bonus to the primary focus on confined space entry and non-entry retrieval, there are the secondary elements of the active training like ladder safety, fall protection, electrical safety and lock out/tag out. This new format will not be without challenges. Scheduling must make sure we have good weather days [for training], but in the desert, you have extreme temperatures and strong winds." Summers added that feedback from trainees participating in pilot classes conducted in the mock confined space has been great. He also adds that NSTec management has been made aware of the physical requirements of the trainees and may re-evaluate success of the training.

The mock contained space has also proven that training there is faster, better and cheaper. Due to the shortened class time, the estimated annual cost savings is just over \$100,000 for training expenses. Because of the low budget allotted for such a project, the various organizations shared the cost, planning and labor to make Sams' vision real.



David Sams tells the history and significance of the mock confined space before the ribbon cutting April 21.

## NvE Calendar of Events

- June 6 – Family Fun Day: Atomic Comics!, National Atomic Testing Museum, 10 a.m. – 3 p.m.

## A DAY IN THE LIFE

# NNSS Firefighting: It's Their Job to be Ready for EVERYTHING

## Fire and Rescue Keeping Site Workers, Community Safe

By Jeff Donaldson, *OneVoice* Editor

*OneVoice* Editor Jeff Donaldson recently spent 24 hours with the men and women of the Nevada National Security Site (NNSS) Fire and Rescue (F&R) department, living and training with B-Platoon. His purpose was to experience firsthand the unique role these firefighters play at the NNSS and the local community.

**6:50 a.m.** – It is a windy, cold morning in April, and Station 1 at the NNSS is a buzz of activity with shift change. The firefighters and paramedics of C-Platoon have ended their 56-hour stay. B-Platoon is now in-bound. The administrative staff arrives. Fire Chief Charles Fauerbach is one of the first in the door.

Fauerbach looks forward to arriving on the morning of shift change. Due to the firefighters' rotations, he can sometimes go several weeks without seeing familiar faces. He's particularly happy to see this reporter, whom he hopes will get a closer look at the real mission of NNSS F&R. "Most people think we're sitting around in our recliners waiting for a call," Fauerbach says.

The Site maintains a robust fire protection program, and mission-related incidents are few. F&R responds to some 300 calls per year, most of which are paramedic or a lightning strike that stirs up 100 acres of flames on remote wildland. The last structure fire at the NNSS occurred in a forward area in 2008.

Today, Fauerbach has equally pressing concerns. He needs his department to be prepared for federal auditors who have arrived to assess operational readiness. F&R, after all, is a federal asset whose primary responsibility is ensuring the safety of the Site's 3,000-plus Nevada Enterprise workers performing the Department of Energy (DOE)'s nuclear stockpile stewardship program, as well as a variety of other programs that support homeland security – just as it has done since its inception in 1951.

Back in the day, firefighters wore jeans and t-shirts; they drove around in older fire engines. Today the training is more regimented and robust, and the stations are equipped for a multitude of emergency scenarios. But the danger is the same. At any moment, his staff could be forced to don hazardous materials gear or other personal protective equipment in response to a

chemical or nuclear-based event.

Being called on to fight structure fires in mobile home communities, cut victims out of burning vehicles, rescue victims who have fallen into deep trenches – while remaining at the ready to deal with any of the NNSS's missions – requires constant training and a thorough understanding of why they're here today, Fauerbach emphasizes.

"The amount of high-hazard work we do at the NNSS requires a significant level of preventative safety. As such, we have a fairly low volume of calls. But that's a double-edge sword. It's good for our employees but we have to rely on constant training to keep our skills sharp," Fauerbach says.

Along with the smaller Station 2 about 22 miles up the road, F&R is home to about 66 employees, including firefighters, paramedics and administrative personnel whose primary responsibility is covering the 1,360 square mile NNSS, 24/7.

These days, you're more likely to see Engine 1 roll out and head south on the long, isolated stretch that is Mercury Highway – off the NNSS and out towards Pahrump, Beatty or Armargosa. NNSS maintains mutual aid agreements with those communities and almost daily responds to assistance calls. They also cover Highway U.S. 95 where unsuspecting drivers flying by at high speeds often misjudge rolling terrain and end up upside down in brush and cactus on the side of the road.

"In addition to the DOE, we're a valuable asset to the State of Nevada and Nye County," Fauerbach explains. "We're the only paramedic-level service outside of Pahrump covering a 30-mile stretch of highway. Our Advanced Life Support capability puts us in the unique position of providing medical service to the local community when they need us."

**7:20 - 8:40 a.m.** – The first order of business: meetings between outgoing and incoming crew members to ensure staffing is adequate and current concerns are addressed. Fire Marshal Angela Brown discusses fire extinguisher availability with Fire Inspectors Chris Hurt and Corey Wiley. In a nearby office, outgoing acting Assistant Chief Dan Crays is conducting a Duty Exchange with incoming Assistant Chief Calvin Townsend. The briefing covers everything from staffing issues to equipment and training. This ensures every crew member of B-Platoon knows what to expect as they begin their 56-hour shift.

B-Platoon's captains and trainers also get face-time with Deputy Chief of Operations John Gamby and Deputy Chief of Support Services Brian Dees. The group discusses resources needed for new projects at the NNSS. Engineer/Trainer John Dwyer briefs that



Photos: Ari Rosenberg

Donaldson pulls a cross-lay hose from Engine 1 for the attack on a truck fire.

# A DAY IN THE LIFE



(From left) Firefighter Kegan Tuttle, Donaldson and Capt. Bill Nixon fight fire.

B-Platoon has received its All-Terrain Vehicle training in anticipation for the upcoming wildland season. The summer months leave vegetation dry across the arid Site and the threat of lightning strikes could force all of the NNSS fire crews into service.

**9 a.m.** – Capt. Bill Nixon has the good fortune of being trainer and mentor for the “new guy,” as this reporter will be called, and heads out into the station bay housing the fire apparatus. Station 1 is home to a fire engine, a heavy rescue truck, a wildland brush rig, two paramedic ambulances, command vehicles and a variety of other support trucks.

As a captain with more than 15 years’ experience at the NNSS, Nixon learned his firefighting skills in the U.S. Air Force; more than three-quarters of NNSS F&R personnel have previous military experience. Now he talks about those “interesting calls” – such as the Armargosa Valley man whose property full of abandoned cars caught fire across the street from a petroleum storage area; of the Marine V-22 Osprey that crashed at Creech Air Force Base; and of the Beatty man who fell injured in a deep trench as he ran from an angry resident. F&R served in a unified agency response on all of these. “You couldn’t make this stuff up,” Nixon says.

B-Platoon paramedics and firefighters perform checks on the rigs, and now it’s time for the new guy to man his assigned seat on Engine 1. He’s joined by Engineer (driver) Mark Remington, Nixon and Firefighter Kegan Tuttle, also a rookie having hired on full-time three months prior.

“We’re going to practice putting on our bunkers,” Nixon explains, the name given to the turnouts rescue personnel wear when they respond to a call. There are pants, pulled down around boots already in place for ease of access, a hoodie for the head, a coat, helmet and gloves. “We tell guys you have 60 seconds to put all this stuff on. It’s two minutes from the alarm to when we roll out the door. You have to get it down if you want to be on the truck.”

Afterwards, Tuttle, the real rookie of B-Platoon, helps place the turnouts in the right places to facilitate quick access. He understands all too well the need to be prepared to move out quickly. Tuttle follows a heritage of firefighting – his father, Casey Tuttle, was chief of the Boulder City Fire Department and Cedar Mountain Fire Protection District in Utah. Kegan grew up in the firehouse, having also participated in the Henderson Explorer program.

“Everything we do here is very hands on,” Tuttle says. “We have the opportunity to learn every part

of firefighting and rescue operations.” From hazmat to trench rescue, many agencies come to the NNSS to gain experience. Tuttle knows he needs to pay attention to learn it all.

**10 a.m. – 2 p.m.** – A group of wildland firefighters from the local Bureau of Land Management (BLM) have arrived to teach an annual wildland refresher to B-Platoon. For the next few hours, the crew will show videos on various notable national fires, discussions on collaborative issues between BLM and the NNSS, and practice deploying fire shelters – a mandatory tool for the wildland firefighter.

Heavy winds that swept across the Site for two days have finally subsided outside and it is time for one of the highlights of the day – a live burn. Located about a mile from Station 1 is the NNSS Fire and Rescue Training Ground, a three-acre swath of desert littered with burned-out vehicles, trucks and other structures on which the firefighters will practice their skills. Today, they’ll set a truck on fire.

A week prior to this day, trainer Dwyer led a training session for fitting in the Self-Contained Breathing Apparatus, or SCBA unit – an air tank containing 4,500 pounds-per-square-inch (psi) of air and a respirator that allows responders to get up close and personal with any kind of fire. The mask protects the individual from the harmful effects of smoke and fumes – the respirator can provide air for up to 45 minutes during a response.

Previously, several practices for putting on the mask and SCBA were conducted with surprising efficiency. But today will be different. Response personnel don the units inside the truck while anchored to their seat. Putting on the mask and air unit are completed as the truck rolls up on the scene.

Response to the Station 1 alarm is organized panic. Firefighters jump into their turnouts and climb into Engine 1. In less than 60 seconds, they start the engine. The adrenalin rushes. Inside the cab, firefighters complete dressing and don their masks and SCBA units. For a first timer like the new guy, the pace is quick. One has to concentrate on breathing. This ensures the SCBA process works best.

Engine 1 rolls up on a fully engulfed vehicle. The crew jumps to the ground and slaps their respirators in place. The new guy is tasked with grabbing the nozzle and pulling the hose.

The temperature inside the SCBA already is rising. Pushing forward on the nozzle, the burst of water practically rips the hose out of your hand. With Tuttle pushing, Nixon steps in to help guide the hose

to the fire. Everything moves very quickly. Within seconds, you’re six inches from a seven-foot flame, smoke billowing out as water and debris fly up around you.

“That was awesome – that’s exactly how you do it,” Nixon exclaims, fist-bumping the bewildered new guy. What feels like five minutes was no more than about 90 seconds, but only a thin stream of smoke drifts up from the truck bed.

Following any firefighting operation is rehabilitation – or where paramedics help firefighters out of their turnouts, sit them down on a bumper and take their vital signs. Despite consuming more than 1,500 psi in just three to four minutes (a hefty amount), the new guy’s blood pressure levels out at an even 140-over-90. “Not bad for a rookie,” says Paramedic Capt. Marc Pinkas.

**4:30 p.m.** – These days, firefighters and paramedics at the NNSS share qualifications to some extent. All firefighters have at least the Emergency Medical Technician (EMT) basic training, and all EMT paramedics are trained up to at least the Entry Level Firefighter certification level. Chief Fauerbach likes it that way: The dual-qualifications improve operational safety.

Pinkas and Paramedic Chris Notaro bring out the rubber torso of a mannequin. The mannequin allows for practicing endotracheal intubation and IV (intravenous) procedures. A prosthetic is complete with pronounced veins and internal tubing that allows for actual insertion of liquids.

Notaro first demonstrates how to insert the IV needle. The new guy learns how to identify strong veins, apply an alcohol wipe to the desired area and gently insert the needle into the arm. The group then demonstrates and practices intubation, lifting the mannequin’s tongue with a laryngoscope blade and inserting an endotracheal breathing tube in the trachea to ventilate a patient.

Demonstrations completed, Battalion Chief Mike Worthen conducts a tour of C-6, the medical command unit – what essentially amounts to a high-tech pickup truck. The back end contains numerous resources such as medical supplies to support a mass casualty incident and logistical equipment. Inside the cab, Worthen powers up a laptop computer equipped with the Hazmaster G3, an advanced database program with links to any and all information responders would need for a HAZMAT event, from blast consequences to chemical interactions, relating to an incident.

*Continued on page 7*

# Local Robotics Competition Honors Loo as “Outstanding Volunteer”

By Lory Jones, *OneVoice* Editor

Congratulations to Katina Loo for receiving this year’s Outstanding Volunteer Award from the *FIRST* Robotics Competition in Las Vegas.

A six-time volunteer, Loo was more than a little surprised when *FIRST* Nevada (or NV, the regional competition) announced her name during opening ceremonies, before thousands of people: She’s usually the one listing awards in the programs instead of receiving them.

“You have no idea how happy and surprised I was! It’s wonderful that *FIRST* NV comes together every year to sponsor these events. *FIRST* makes a great impact with the kids and the scholastic community. It’s a privilege and a great opportunity for me to be associated with such a hardworking group of volunteers,” said Loo.

*FIRST* – For Inspiration and Recognition of Science and Technology – was founded by accomplished inventor Dean Kamen to inspire an appreciation of science and technology in young people. *FIRST* designs accessible, innovative programs to build self-confidence, knowledge and life skills while motivating young people to pursue opportunities in science, technology and engineering. With support from more than 200 of the Fortune 500 companies and more than \$20 million in college scholarships, the not-for-profit organization hosts the *FIRST* Robotics Competition (FRC) for students in Grades 9-12; *FIRST* Tech Challenge (FTC) for Grades 7-12; *FIRST* LEGO League (FLL) for Grades 4-8; and Junior *FIRST* LEGO League (Jr.FLL) for Grades K-3.

As a volunteer, Loo said she queued teams for the FTC and FRC. “I call it being a teen wrangler: I get the

teams in place before their matches. You keep track of the games, the teams and the alliances the teams are in. It’s also a great opportunity to talk to the kids. In Junior FLL, I’ve served as a judge.”

Loo said she’s also a member of *FIRST* NV’s Marketing Committee, and volunteers for at least three or more events annually. “This past year, we’ve started branding *FIRST* NV with a logo I designed. We applied the logo to *FIRST* NV’s websites, clothing and other products and printed materials.”

Loo added that she volunteers because National Security Technologies (NSTec)’s Education Outreach program supports *FIRST* and also because she’s inspired by students’ enthusiasm at the competitions. “The kids are creative, intelligent and enjoy what they’re doing. It’s great to see the teams go out of their way to assist other teams with parts, tools or advice. Their generosity and sportsmanship is wonderful to watch.”

*FIRST* NV held its competitions in March at Cheyenne High School, Northwest Career and Technical Academy, and Cashman Field in Las Vegas.



Photo: Lory Jones

# Local High School Among Winners at FIRST Regionals

By Jeff Donaldson, *OneVoice* Editor

Team 987 from Cimarron Memorial High School was among the winners of this year’s *FIRST* Robotics Regional Competition, held in March at the Cashman Center in Las Vegas. The team was among at least 43 high school teams from six states, a team from Germany and three teams from China, as well as nine Las Vegas area schools and one Reno area school. All showcased their hard work building an original robot.

The 2015 competition involved a new game called “Recycle Rush,” played by two alliances of three teams each. Robots scored points by stacking totes on scoring platforms, capping those stacks with recycling containers, and properly disposing of pool noodles, representing litter. In keeping with the game’s recycling theme, all game pieces were reusable or recyclable by teams in their home locations or by *FIRST* at the end of the season.

Besides Team 987, other regional winning teams were Team 148 from Greenville, Texas, and Team 5012 from Palmdale, Calif.

NSTec is one of the primary sponsors of the *FIRST* competition.

# NSTec Sponsors Girls on the Run

By *OneVoice* Staff Reports

National Security Technologies (NSTec) recently donated \$1,500 to Girls on the Run, an organization that helps girls in grades 3-5 gain self-esteem and confidence through a 12-week program that leads up to a 5K run.

Organizational Learning and Outreach Manager Shari Morrison (left, behind second row) is pictured with the Fitzgerald Elementary Girls on the Run team. Through the sponsorship, Shari helped each girl get fitted with a new pair of running shoes. (Fitzgerald Elementary is just west of the North Las Vegas Facility.)

Girls on the Run was established in 1996 in Charlotte, N.C. Their mission is to inspire girls to be joyful, healthy and confident using a fun, experience-based curriculum which creatively integrates running. The 20-lesson Girls on the Run curriculum combines training for a

5K (3.1 miles) running event with lessons that show girls how to become independent thinkers, enhance their problem-solving skills and make healthy decisions. All of this is accomplished through an active collaboration with girls and their parents, schools, volunteers, staff and the community.

To learn more, visit: <http://www.girlsontherunlv.org/>.



Photo: Brigette Kirvin

# NvE Earth Day Event: Green is Good

By Lory Jones, *OneVoice* Editor

Celebrating Earth Day April 22, Nevada Enterprise employees at the North Las Vegas Facility (NLVF) gathered in Building B3's atrium to learn more about conservation. Some signed up to reduce their energy footprints. And yes, the GREEN Reaper was there.



Energy saving CFL were free to attendees.

National Security Technologies (NSTec)'s Energy Program Management schedules and hosts Earth Day activities every year at NLVF, as well as Earth Day activities at the Nevada National Security Site and the Remote Sensing Laboratory at Nellis.

Festivities began with a word search game where employees had to find three recycling words within one minute to win a green swag item. Also, the national award-winning GREEN Reaper asked employees energy related questions and gave away environmentally friendly "green" swag items. These included GREEN Reaper stress balls, bracelets, BPA-free collapsible water bottles and CFL bulbs with documentation on how to dispose of them properly.

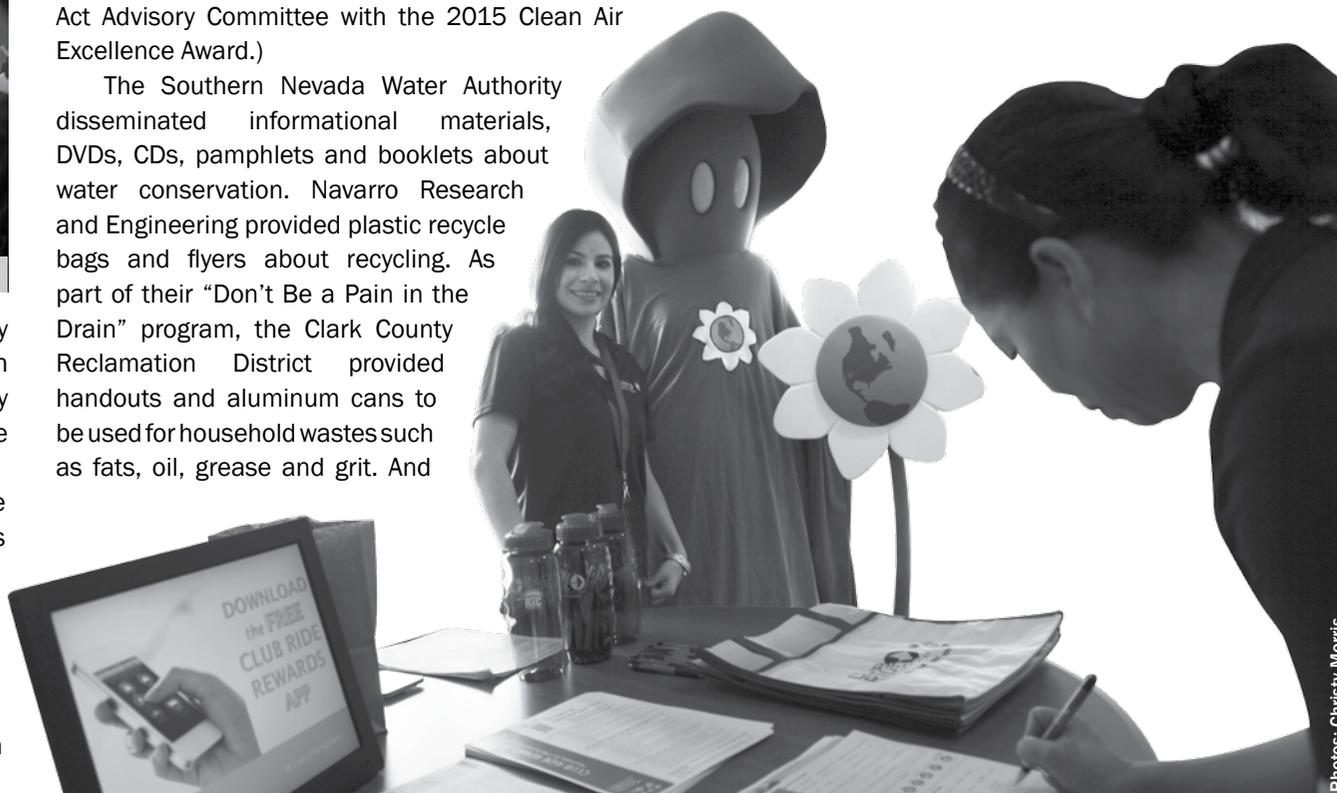
Several vendors showed how conserving saves

money, energy and time. Club Ride encouraged employees to carpool and discussed different types of alternative commutes. Many employees signed up to carpool and participate in the Club Ride rewards program. (In recognition of their commute program intended to improve air quality and encourage commuter alternatives, the Regional Transportation Commission of Southern Nevada Club Ride was recognized by the Environmental Protection Agency and the Clean Air Act Advisory Committee with the 2015 Clean Air Excellence Award.)

The Southern Nevada Water Authority disseminated informational materials, DVDs, CDs, pamphlets and booklets about water conservation. Navarro Research and Engineering provided plastic recycle bags and flyers about recycling. As part of their "Don't Be a Pain in the Drain" program, the Clark County Reclamation District provided handouts and aluminum cans to be used for household wastes such as fats, oil, grease and grit. And

Republic Services Waste and Recycling Centers provided calendars with hazardous waste locations, ink pens, magnets and posters about recycling.

The Energy Programs Earth Day celebration was a huge success. More than 100 employees participated and took pictures with the GREEN Reaper. The GREEN Reaper also participated in the Las Vegas Science and Technology Festival April 28 for an energy presentation at Mark Kahre Elementary School.



Club Ride's Angelica Beltran and the GREEN Reaper worked the crowds at the pro-environment Earth Day celebration, while NSTec's Freda Wilson (right) signs up for Club Ride.

Photos: Christy Morris

## A DAY IN THE LIFE

# NNSS Firefighting: Ready for EVERYTHING

Continued from page 5

A 16-year veteran of emergency medical service including time with Mercy Air helicopter service, Worthen acknowledges that the majority of their responses are medically related. He is like many of the paramedics who have embraced the versatility of the Site mission and the role they play in neighboring communities.

"Towns out here are an hour and a half to two hours away from help. It's just too far to rely on Vegas resources. Plus the work we do at the Site has a propensity to have high risks of hazard, or the potential for a nuclear event, and that does make us unique in every way," Worthen says.

**5:30 p.m.** – The "white shirts" (or the chiefs, as the firefighters call them) are leaving for the day, and everyone in the firehouse has jumped in to contribute to an elaborate spaghetti dinner. There's salad and cauldrons of pasta and sauces. "When the chiefs go, this turns into more of a casual atmosphere," Dwyer says.

After dinner, everyone cleans up the kitchen. Then the crew splits up to spend personal time, taking classes online, exercising or sitting in the dayroom watching



The crew from Engine 1 demonstrates master stream operations by dousing a set of mock-up fuel tanks about 100 feet away.

hockey playoffs. "With the shifts spread between three platoons, we really do have a good schedule," Nixon says. "You might miss a few holidays with your family, but being at the station is like your family."

**10 p.m.** – The new guy retreats to his dorm room. Each paramedic and firefighter of B-Platoon has their own room equipped with bed, chair, TV and any personal items they bring from home during their shift. They share a community shower. The atmosphere is fairly relaxed.

**6:30 a.m.** – The next day, the crew of B-Platoon is up early for breakfast before gearing up for another day of training, and expecting the unexpected.

"Any calls?" Fauerbach asks the new guy. There were none; but the new guy had trouble sleeping out of fear he might miss out. "That's a typical response for a rookie," the chief says.

Chief Fauerbach and Chief Gamby escort the new guy out with a friendly invitation to return another time. "It'll be wildland season soon. We'll be really busy then," Fauerbach says. But then again, you're always busy when you're a firefighter at the NNSS, ready for everything.

Photo: Ari Rosenberg



A Publication for the Nevada Enterprise (NvE) Complex

## Lights... Camera... Training!

By Marc Klein, Navarro Research and Engineering

Quite the dramatic scene played out on a closed road in Pahrump, Nev., in early March: Multiple emergency response organizations responded to two crashed vehicles. Also present were a cast of actors, multiple cameras, makeup and a film crew.

What appeared to be a serious emergency event on a quiet two-lane road was actually the main scene of a new U.S. Department of Energy (DOE) Transportation

Emergency Preparedness Program (TEPP) training video, being prepared to instruct thousands of emergency responders across the country.

The video is for the TEPP Modular Emergency Response Radiological Transportation Training (MERRTT), which provides training for transportation incidents involving radiological materials. It was produced to replace the previous training videos which were created, on average, more than 10 years ago and had become outdated.

Pahrump was chosen as the filming location for several reasons. Along with somewhat predictable weather, the community was willing to support the video project by providing the needed emergency response equipment and staff, as well as an approved road block for a week. Just as important, the Nye County crews involved in the filming had also recently completed MERRTT training, so everything was still fresh in their minds.

Multiple organizations were involved in supporting the video, including Pahrump Valley Fire and Rescue, Nye County Volunteer Fire Department, Nye County Emergency Management, and Desert View Hospital. The vehicles were donated by a local insurance company, and a local tow company assisted in transporting and staging them. The actors were seasoned instructors to ensure that the video efficiently demonstrated the proper emergency response techniques.

Also present at the video shoot was Michael D'Alessio of Pahrump and a member of the Nevada Site Specific Advisory Board (NSSAB). NSSAB is a volunteer community advisory board federally chartered to provide recommendations to the DOE on environmental activities at the

Nevada National Security Site (NNSS).

"As a member of the community, I know that the level of training of Pahrump and Nye County's emergency personnel and their ability to respond to such threats has been a concern. After observing the shoot and mingling with the crew for a few days, I am now confident and very impressed by their knowledge and professionalism, and have complete trust in their ability to be prepared to respond to similar situations," said D'Alessio.

With a new video in hand, this important training will continue to be offered to emergency response organizations throughout the nation, including several in Nevada within the next few months.

"In the last two years, this training has been offered in Pahrump, Beatty, Reno, Wendover, Elko and Winnemucca. Students have included Nevada Highway Patrol, firefighters, emergency medical technicians/paramedics, hazardous materials response teams, State of Nevada Radiation Control Program staff and others," said John Lund of Technical Resources Group, the TEPP contractor that was tasked with leading the video project. "Classes are scheduled for the Henderson Fire Department in June 2015, and other training in the Clark County/Las Vegas area is being planned for this summer and/or fall."

The new video will be used to train an estimated 10,000 to 20,000 emergency responders and will hopefully be in use for at least 10 years.

For more information on TEPP, visit <http://energy.gov/em/services/waste-management/packaging-and-transportation/transportation-emergency-preparedness>. For more information on MERRTT, visit <http://energy.gov/em/tepp-training-modular-emergency-response-radiological-transportation-training>.



Actors and a camera crew film a scene for the new Emergency Response Radiological Transportation Training video.

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The TEPP program is administered by the U.S. DOE Office of Packaging and Transportation and provides federal, state, tribal and local responders with the plans, training and technical assistance necessary to safely, efficiently and effectively respond to radiological transportation accidents.

Photos: Marc Klein