

PER gives Sandia very good to excellent ratings

By Sue Major Holmes

NNSA has given Sandia ratings of very good to excellent in its mission work and singled out its science, technology, and engineering objectives as exceeding expectations in fiscal year 2014. NNSA's annual Performance Evaluation Report (PER) also said Sandia performed above expectations in managing



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— Sandia President and Labs Director Paul Hommert

both its core nuclear weapons mission and its broader national security mission.

The PER assessed how Sandia Corporation performed from Oct. 1, 2013, through Sept. 30, 2014, on five basic objectives defined in a Strategic Performance Evaluation Plan, taking into consideration Sandia's self-

assessment and program reviews, peer reviews, external reviews, and customer reviews from NNSA's program, functional, and field offices.

Sandia received ratings of very good to excellent in mission, very good in contractor leadership, and good in operations support.

"I'm pleased to see that our sustained effort in managing the Nuclear Weapons mission is described as 'above expectations' despite funding uncertainties," said President and Labs Director Paul Hommert. "I'm equally pleased to read that Sandia 'continues to excel' in executing its non-nuclear weapons missions and in performing work 'above expectations' for a broad range of customers. Indeed, these acknowledgments and the 'excellent' rating for the performance

objective known as Science, Technology & Engineering and Other DOE Missions point to the role each of you plays in making Sandia an exceptional institution in service to the nation."

Noting the report identified areas for improvement and highlighted the importance of full implementation

Annual assessment from NNSA lauds Labs' mission work

of Engineered Safety, he added, "We will use all feedback as a basis for continuous improvement."

The ratings on five performance objectives:

- Science, technology, engineering and other DOE mission objectives: excellent
- Nuclear weapons: very good
- Broader national security: very good
- Leadership: very good
- Operations and infrastructure: good

Strengthening science, technology

NNSA said Sandia's handling of research strategies and investments, numerous technology advances, science and engineering breakthroughs, and mission results earned its excellent rating in science, technology, and engineering. The PER said Sandia further strengthened its science and technology base to ensure science-based stockpile stewardship and provide the technical basis for the annual stockpile assessment.

"Sandia's unique mission responsibilities in the nuclear weapons program have prompted revolutionary ST&E approaches to address stockpile stewardship challenges, and Sandia is ensuring investments in research are transformative, innovative, leading edge, and of high quality," the PER said. It singled out as

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HAROLD'S STORY

Is Sandia's story, too

When Harold Rarrick receives the Order of the Nucleus award from the Air Force Nuclear Weapons Center later this month, it will be the capstone to a career that began at Sandia in 1949 and ended just last October when he turned in his badge after almost 65 years.



See story on pages 4-5.

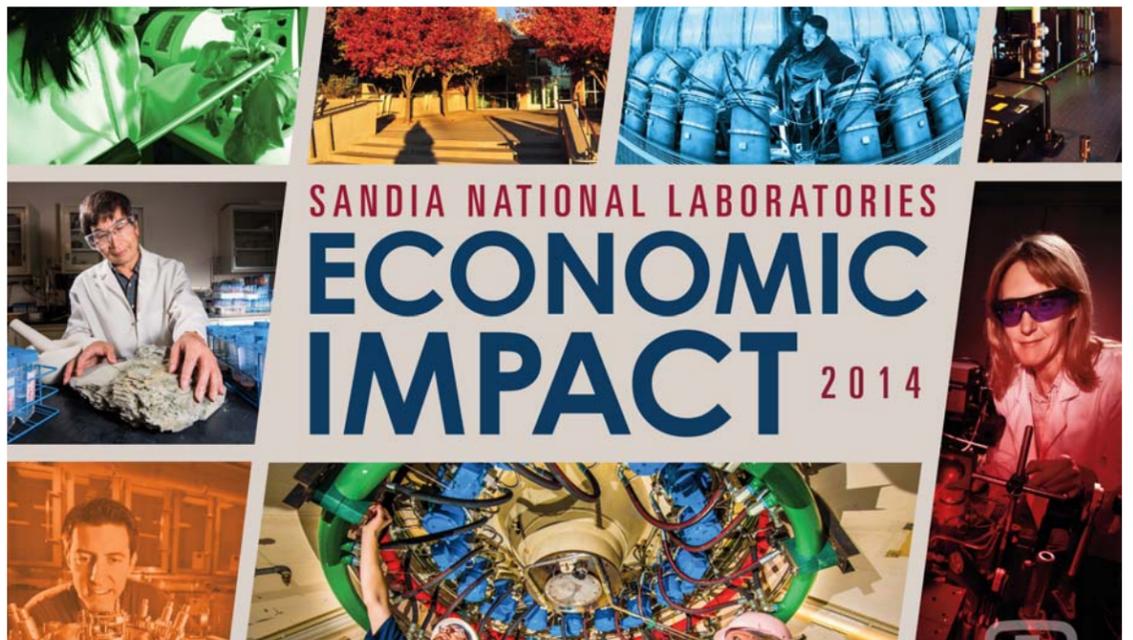


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Sandia continues to boost NM economy through business programs

By Nancy Salem

Sandia spent nearly a billion dollars on goods and services in fiscal year 2014 and New Mexico businesses received more than 38 percent of the total, according to the Labs' latest economic impact report.

Of the total of \$961.8 million Sandia spent last

year, New Mexico businesses received \$362.4 million. US small businesses were awarded more than 47 percent, or \$455.7 million in Sandia contracts, and New Mexico small businesses received \$240.6 million, or 53 percent of the small business total.

While total spending and spending with small businesses and New Mexico businesses all declined

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Looking back

Underground nuclear weapons testing in the United States in the 30 years before it ended in 1992 meant burying a device, detonating it, and measuring the results. Get a glimpse of this essential part of Sandia's history in a brief story on [page 3](#).



An on-site service dog

When Machele Karler, manager of Diversity, Inclusion, Equal Employment Opportunity, and Affirmative Action Dept. 3011, suggested a service dog to Rob Mitchell to help deal with the effects of PTSD, he decided to give it a chance. See [page 8](#).

That's that

Yo!

In a world where the Twitter tweet seemed the last word in minimalist communication – 140 characters to express whatever it is you're doing, thinking, feeling, or planning at the moment – there's a new guy in town. And as far as this guy is concerned, Twitter users are suffering from a bad case of loggerhea – excessive wordiness.

I'm talking about Yo, a smart phone app that bills itself as "the simplest and most efficient communication tool in the world."

The idea of Yo is simple: You want to touch base with a friend? You don't have to do anything so time-consuming, boring, and 20th-century as actually writing a message, not so much as a tweet. Rather, you just open your Yo contact list and tap the name of individual you want to contact. The target of your interest gets a nice, friendly Yo from you. It is, as the company describes it, "a single-tap, zero character communication tool."

Allow me to pass along some of the official Yo promotional language so you can get the idea of how easy and versatile this is:

Wanna say "good morning"? just Yo.

Wanna say "Baby I'm thinking about you"? - Yo.

"I've finished my meeting, come by my office" - Yo.

"Are you up?" - Yo.

The possibilities are endless.

As Ron Popeil, the consummate pitchman, might say, "It's just that easy." He might say, too, "But wait. There's more!" Except that in the case of Yo, I don't think there's much more to it. Reportedly the developers are adding some new features, but they're all based around the "open the app and tap" concept. The idea is, emphatically, "less is more."

I take small issue with Yo's claim that the possibilities are "endless." I'd be inclined to say more like "limited."

Granted, some tech-savvy types have figured out how to use Yo as a switch to initiate an action – like turning on the lights before you walk into your house. And it's being used by some businesses to alert you to new content on their website. But for most users, Yo is Yo.

Among the reader comments attached to a news story about Yo, one wag proposed that the app should allow you to send other messages with one tap. His suggestions included "Dude!," "Dude?" and "Dude . . . Dude . . .Dude." In the universe of Yo, that's downright verbose.

I'm not knocking the app, which I'm sure could be fun . . . for a few minutes. Yo's launch last year generated a bit of buzz and interest . . . Was this going to be a Twitter or Facebook killer? It doesn't appear that way. Those who opined that Yo represents the final exclamation point on the end of Western Civilization can stand down. Most people, it seems, still seem able to bat out an occasional tweet or text message.

For a while, Yo was pretty high up there in the iOS app store download ranking, but interest seems to be waning. My hunch is that people, sentimental fools that we are, still prefer to get a message that says "Baby, I'm thinking of you!" a lot more than a generic Yo. That's a bit too much like pulling up to your girlfriend's house and honking the horn. Not the most romantic way to start the evening. And her dad – trust me on this – doesn't like that at all.

Maybe there'll be a turnaround for Yo (and I hope so; I like tech startups to succeed) but my guess is that this may be a case where – with apologies to Yogi Berra – Yo's future is all behind it.

In the arena of minimalist communication, Twitter and Yo have nothing on the old masters. A story that may be apocryphal holds that the wildly popular 19th century French novelist Victor Hugo, who wrote millions of words published in books fat enough to be doorstops, also holds the record for the world's shortest correspondence. According to this story, Hugo, who was in exile on the British Isle of Guernsey for speaking out against Napoleon III, telegraphed his publisher "?" demanding the reaction to the release of his latest novel, *Les Misérables*. The reply: "!"

Couldn't have said it better myself.

See you next time.

– Bill Murphy (MS 1468, 505-845-0845, wtmurph@sandia.gov)

Employee recognition awards nominations



The Employee Recognition Awards program honors individuals and teams whose work or contributions in support of Sandia's mission and values have been exceptional. Nominations for the award will be accepted through Jan. 30.

The ERA program recognizes excellence in five categories, four for individual nominees and one for teams. Individual achievement award categories include:

- **Technical Excellence**, which recognizes individuals whose innovative science and predictive, science-based engineering capabilities contribute to the transformation of Sandia's business practices and provide solutions to national security problems.

- **Exceptional Service**, which recognizes commitment and efforts to implement and proactively seek improvements to the organization, and/or Sandia's reputation while enabling others to succeed.

- **Leadership**, which honors employees who have demonstrated exceptional creativity, courage, and integrity in leading others to the successful accomplishment of Sandia's work. This is also the category to acknowledge an individual for demonstrating exceptional people skills, modeling and reinforcing key behaviors and attitudes that are aligned with Sandia's organizational values.

- **Sandia Values, Ethics, and Integrity**, which recognizes individuals who have exemplified Sandia's values and demonstrated the highest standards of integrity and business ethical conduct.

The Team category recognizes teams whose exceptional contributions are critically enabled by teamwork, and model the values of people working together toward a common goal, proactively looking for, and acting upon, opportunities to improve, while being fully accountable for their performance.

Eligibility criteria for nominees include:

- Individual nominees must be current, regular, Sandia employees on roll since Dec. 31, 2013.

- Contractors and non-employees (e.g., industry colleagues) cannot be team members listed in an ERA nomination. If contractors and other non-employees supported work for which a team has been nominated for an ERA, Sandia management can recommend to the employer of the contractor/colleague that the individual receive recognition from his or her company for the work.

- Team representatives must be current, regular, Sandia employees on roll since Dec. 31, 2013.

- Nominations are for accomplishments between Jan. 1 and Dec. 31, 2014.

- Last year's winners for the 2013 calendar year are not eligible to win for 2014 calendar year. However, an individual winner last year can be on a winning team this year and can also be the team representative.

Nomination forms with detailed instructions are available from Sandia's internal web at <http://info.sandia.gov/era>. Each division has an ERA coordinator, also listed via the link. Any current, regular Sandia employee may nominate individuals or teams. A separate nomination form must be submitted for each individual and team nomination. A combined total of 122 individuals and teams will receive corporate Employee Recognition Awards. Individual recipients and designated representatives for winning teams will be recognized at a Corporate Awards event Saturday, Aug. 22, in Albuquerque.



Sandia National Laboratories

<http://www.sandia.gov/LabNews>

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LOCKHEED MARTIN

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NOVA awards

LOCKHEED MARTIN

From Sandia's 2015 ERA winners, Paul Hommert and his deputy directors will select from one to four nominees that will represent Sandia in the Lockheed Martin NOVA awards process. This prestigious annual awards program honors 50 individuals and teams across the Lockheed Martin Corporation who have made outstanding contributions to Lockheed Martin Mission Success. The NOVA award categories are the same as Sandia's process. NOVA awardees will attend a Lockheed Martin Corporate celebration. NOVA teams must consist of 3-25 members.

Looking back . . .

Testing underground was a hard way of life



TUNNEL KINGS — In this 2004 photo, Sandians, from left, Dan Bozman, Mike Burke, and Jerry Chael work 1,000 feet underground at what was then the Nevada Test Site. The site no

longer tests nuclear weapons but still conducts subcritical experiments, which produce no nuclear yield. (Photo by Randy Montoya)

By Stephanie Hobby

Underground nuclear weapons testing in the United States in the 30 years before it ended in 1992 meant burying a device, detonating it, and measuring the results. Tests were massive, expensive, and needed 24 months and 100 people to design and set up. Paul Raglin, senior manager of Infrastructure and Investments Dept. 1210, was a test director for the Defense Nuclear Agency in the 1980s and oversaw many of the shots at the Nevada Test Site.

“Sandia fielded a number of different diagnostics to support the tests and fielded all the experiments for components as part of the effort to ensure components would survive such intense environments,” Paul says.

Some tests were done in a long pipe, pumped to exoatmospheric conditions 10^{-6} . The device would be at one end with the instruments for the experiments at the other and at intervals through the pipe. Building the test beds cost

roughly \$50 million, not including the experiments.

“Today we rely on modeling and simulation coupled with testing at critical above-ground facilities,” Paul says. “We have come a long way in our ability to understand some of the complexities, thanks to advances in computing technology and the sophisticated computational models that we now take for granted.” The Laboratories’ proposed Short-Pulse Accelerator and Reactor Center would provide critical radiation environments for model validation that previously could only be done in an underground test.

It was a hard way of life. Engineers lived in a remote test facility in Nevada for six months, and operations ran around the clock. “But being able to do things that couldn’t be done anywhere else was very rewarding,” Paul says. “There was, and continues to be, a strong sense of mission.”

PER results

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noteworthy Sandia’s 12 research challenge areas focusing on national security needs that position the Labs to respond to emerging threats.

The Labs earned the very good rating in its nuclear weapons mission by meeting or exceeding more than 99 percent of its program work “despite the funding uncertainties caused by the continuing resolution and FY2014 lapse in appropriations,” the report said.

Sandia performed above expectations by negotiating work with program sponsors; increasing the level of quality to ensure safe, secure, and reliable weapon performance and transportation; and providing cost-effective operations, the report said. Its coordination with NNSA federal program managers and contract support led to a disciplined approach that mitigated risks and put priorities on critical work, the PER said.

“I’m pleased to receive positive feedback acknowledging Sandia’s Nuclear Weapons efforts in meeting Annual Assessment, Limited Life Component Exchange, and Stockpile Modernization deliverables, as well as our contributions to increased scientific understanding and innovation necessary for the current and

future stockpile,” said Deputy Labs Director and Executive VP for National Security Programs Jerry McDowell. “I’m proud of Sandia’s accomplishments and demonstrated ability to meet deliverables while providing cost effective risk mitigation and timely responses to technical challenges.”

Meeting the mission

“Overall, Sandia had increased communication and risk mitigation to help NNSA meet their mission despite losing almost the entire first quarter due to funding issues beyond their control,” the PER said.

And it said Sandia continues to excel in its broader, non-nuclear security mission. “Sandia continually exceeds many customer expectations by providing unique, superior solutions to current and anticipated national security threats,” the PER said. The report said the Labs’ overall rating in the broader mission was affected by an accident that temporarily suspended explosive operations and impacted at least 42 programs and projects.

NNSA said Sandia provided very good leadership in supporting the direction of the DOE/NNSA mission. “When challenges arose, Sandia leadership showed great responsiveness and engagement and used issues as an opportunity for continuous improvement both at Sandia National Laboratories and across the enter-

prise,” the report said.

Sandia met performance criteria and overall technical performance requirements in operations and infrastructure, the PER said. It cited examples such as demonstrating accountability for mission and management controls, assuring that mission commitments are met with high-quality products and services, and maintaining excellence as a 21st century government-owned, contractor-operated facility. Sandia exceeded expectations in several areas of operations and infrastructure. For example, Sandia exceeded expectations for managing an effective Safeguards and Security (S&S) program, which included exceptional resource planning and execution, and maintaining a highly self-critical assurance program. Sandia significantly exceeded expectations in improved life-cycle management, and has significantly reduced chemical, hazardous, and nuclear material inventories.

“I appreciate the recognition of the excellence demonstrated in business operations and infrastructure projects and services,” said Deputy Labs Director and Executive VP for Mission Support Kim Sawyer. “I am extremely proud of the Mission Support team. Mission delivery motivates us each and every day. The feedback we received calling for improvements in work planning and controls across the Laboratories is part of our continuous improvement journey.”

HAROLD'S STORY

After 65 years at Sandia, Harold Rarrick turns in his badge



ONE LAST LOOK — As Harold Rarrick prepares to turn in his clearance badge after 65 years, he reflects on two lifetimes' worth of service to Sandia and the nation. Although Harold, who started at Sandia in October 1949, retired from the Labs in 1993, he remained involved with Sandia as a consultant and senior mentor in the Weapon Intern Program until last October. (Photo by Randy Montoya)

By Bill Murphy

When Harold Rarrick receives the Order of the Nucleus award from the Air Force Nuclear Weapons Center later this month, it will be the capstone to a career that began at Sandia in 1949 and ended just last October when he turned in his badge after almost 65 years.

The award, which will be presented in a ceremony on Jan. 27 at the National Museum of Nuclear Science and History, recognizes a lifetime of contributions Harold made to the US Air Force in nuclear weapon-related work.

Like many of his contemporaries, Harold didn't set out to work in the nuclear weapons enterprise. Rather, he ended up in weapons work almost by chance. He'd heard there was work in New Mexico. It wasn't clear exactly what the work entailed but the employer was apparently looking for people with his skills. Hey, it was a job, and with a wife and baby to support and with a freshly minted degree in math and physics from Pepper-

dine University, a job sounded like just the ticket.

Harold got in his car and drove from California to the Land of Enchantment. He aced the interview with Bob Krohn, who was in charge of early nuclear tests at what was then called Los Alamos Scientific Laboratory. Krohn offered Harold a job at Los Alamos doing . . . well, he couldn't tell him that, not until Harold got his clearance. But the job paid almost \$300 a month, which sounded pretty good. That was in August 1949. After a spell, his clearance came through, launching a career that spanned 12 presidential administrations.

Harold trained for three months at the Los Alamos Ice House, learning the processes involved in the surveillance and assembly of the plutonium and enriched uranium capsules for nuclear weapons, the core of the weapon package. It struck Harold that here he was, a green staff member getting \$285 a month holding a king's ransom's worth of plutonium in his hands. At the dawn of the Cold War, this was probably the most precious material in the nation and he was handling it as a

"I was just a kid when I started. I'd do a few things different but not a lot. I spent 50 years not knowing what I was going to do the next day, what the next new challenge would be. That was a big part of the appeal and that part I wouldn't change at all."

matter of routine.

Not in Kansas anymore

"We knew we were doing something important," Harold says. "We talked about that a lot. We knew there was no margin for error in what we were doing."

With that specialized training under his belt, Harold, now assigned to Sandia, was tasked to open a weapon storage site at a base in Texas. It didn't take him long to figure out he wasn't in Kansas anymore: To access the site, which had already been prepped for its weapons mission, Harold remembers walking through a maze of fences and doors guarded by "18-year-olds with machine guns." And even after negotiating this gauntlet, there were other protocols for entering the vault, all designed to make the site as secure as possible.

Over the next several years, Harold's career might be summarized as "On the Road Again." He traveled around the country training personnel and inspecting the components at weapon storage areas, serving in something like an inspector general role.

"I loved the work and the travel," Harold says, noting that his job was exposing him to places he'd never been and experiences he'd never had before. The downside: He knows the travel and his frequent absences were hard on his family.

As the Cold War ramped up, and with it the scale of weapon testing, it became clear that there were risks that needed to be addressed more effectively. In 1957, Harold was asked to set up a health physics organization. Health physics is the physics of radiation protection. It was the job of Harold and his team to ensure that workers at the Labs and in the field at weapon test sites in Nevada and other locales, including Enewetak Atoll (the atoll name was spelled Eniwetok until 1974) in the Pacific, were not exposed to dangerous levels of radiation. This work kept Harold in the field for long stretches.

'We knew what to do'

The pace could be relentless. During a six-week period at Enewetak, for example, there were more than 20 test shots. As Harold recalls it, "Sandia would put experiments on a bomb shot. After the test, we'd evaluate the rad fields, determine the risks, and then take guys in to recover the experiments."

Harold recalls one test that had his team scrambling. They deployed some 4,000 fallout traps and air samplers in one weapons-related experiment.

"We learned that you could get contaminated real easy," Harold says. The hard-won knowledge gained in field tests paid dividends when real-world events took center stage. "When Palomares happened," he says, "we knew what to do." [Note: Palomares refers to an accident in Spain in 1966 in which four nuclear weapons fell from a B-52 involved in a crash. Three of the weapons were recovered on the ground and one was recovered from the Mediterranean Sea.]

Harold describes his work during this time as "real stressful, but addictive."

It seems that in his career Harold was destined to be a road warrior, operating away from the Mother Ship in Albuquerque. In 1970, he was named Division Supervisor of Range Operations at the Tonopah Test Range. During his stint at TTR, Harold created the position of test director, a role that still exists to this day and has proved invaluable to Sandia's weapons mission.

After Tonopah, Harold spent more than 15 years in various roles related to weapon testing. Among his other



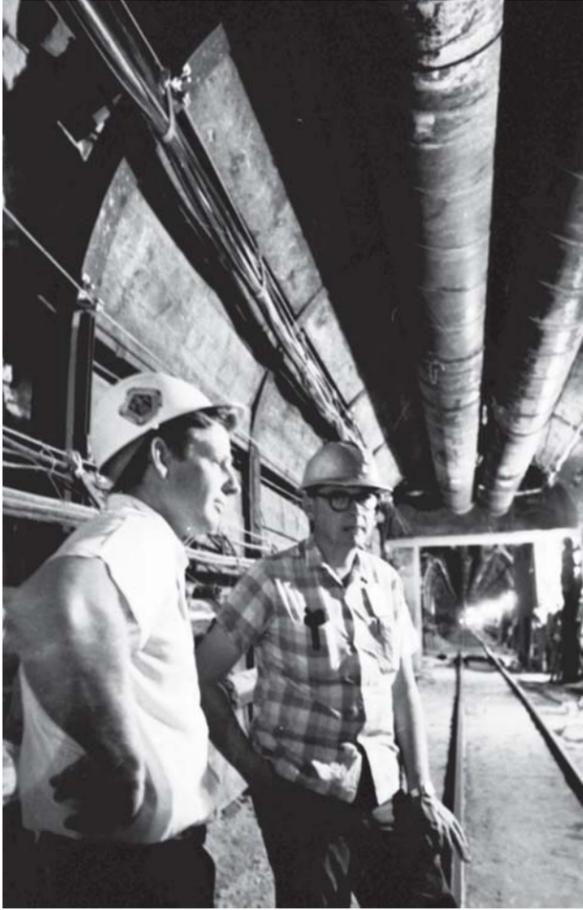
HAROLD holds a certificate of appreciation for his many years of service as a senior mentor in Sandia's Weapon Intern Program. It will soon find pride of place among the many other commendations Harold displays on his Sandia trophy wall. (Photo by Randy Montoya)

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functions, for most of the 1970s Harold was the program manager for reimbursable test programs, providing technical and financial management for non-Sandia customers, including the Defense Nuclear Agency, the US Air Force, US Army, US Navy, NASA, and other DOE laboratories using Sandia test facilities in Albuquerque and Tonopah. He also spent more than a decade in the Nuclear Safeguards organization and the Development Test Directorate, making important contributions to the Labs' nuclear weapon mission.

A highlight of this period was his involvement in the Uranium Mill Tailings Remedial Action program, during which he planned, arranged, and managed two international conferences on the subject.



TEST TUNNEL and radiation monitoring instrumentation installation is checked by Pete Schroeder left, Sandia resident supervisor at the Nevada Test Site, and Harold Rarrick, radiation safety officer for a 1966 weapon test.

As the Cold War wound down, Harold became more deeply involved in environmental assessments and restoration. His personal, often first-hand knowledge of Sandia's weapon test history made his insights invaluable during this period, keeping him engaged and occupied right up until his retirement in 1993.

Staying involved

But retirement didn't mean the end of his involve-



AFTER HE RETIRED from Sandia, Harold continued to stay involved with the Labs. In the mid-1990s he worked closely with corporate archivist Myra O'Conna. His almost encyclopedic knowledge of Sandia's history, going back to the very beginning, was invaluable to Myra in categorizing and organizing Sandia documents and artifacts.



DURING THE 1970s, Harold was deeply involved in a wide range of test programs. For example, he served as test project manager for a series of tests designed to put nuclear waste shipping casks through "worst case" transport accidents. In the photo here, a surplus locomotive is lifted onto a flatbed truck for transport. The unit, sans wheels weighed 125 tons. For the test, the locomotive was propelled by rockets at 80 mph down Sandia's sled track to impact into a truck containing a shipping cask with simulated waste nuclear fuel. The truck and locomotive were also subjected to a fuel fire during and after impact.



IN THIS 1969 LAB NEWS PHOTO, Harold Rarrick, who was serving as tunnel reentry advisor to the test director for a weapon test, stands in front of a test tunnel at the Nevada Test Site. Reentry safety for DoD and Sandia events at the Test Site is a continuing Sandia responsibility.

ment. After working as a consultant to DOE on environmental issues for several years in the 1990s and consulting with Sandia's corporate archivist, Harold was asked to become a senior mentor for the then-new Weapon Intern Program.

That role re-energized him as he relished sharing stories about Sandia's weapons heritage with the next generation of weaponeers from the national laboratories, the military, and federal agencies.

The mentor role was a perfect fit for Harold. He was so proud to be a part of the program that his wife sewed on patches of each intern class and embroidered "Harold - Senior Mentor" on every one of the shirts he wore for each intern class.

In recognition of his role in the Weapon Intern Program, Harold was one of several senior mentors honored in 2003 with the US Air Force Award for Exemplary Civilian Service.

Sandia was more than a job for Harold; it was a place

to grow, to learn, to test his own limits.

"Everything was new. We were doing things nobody had ever done before," he says. "We had to get smart fast and one way we got smart was that we worked with smart people. There weren't many dummies at Sandia.

"I was just a kid when I started," he reflects. "I'd do a few things different but not a lot. I spent 50 years not knowing what I was going to do the next day, what the next new challenge would be. That was a big part of the appeal and that part I wouldn't change at all."

Finally, almost exactly 65 years after getting his clearance to work in the weapons complex back when Harry Truman was president, Harold gave up his badge, dropping it in the receptacle box outside Sandia's badge office at the IPOC building. It was a bittersweet moment, but one he was ready for.

"It got to where I was pushing myself to go in," he says. "I was worn out, but I loved the work. I loved Sandia."

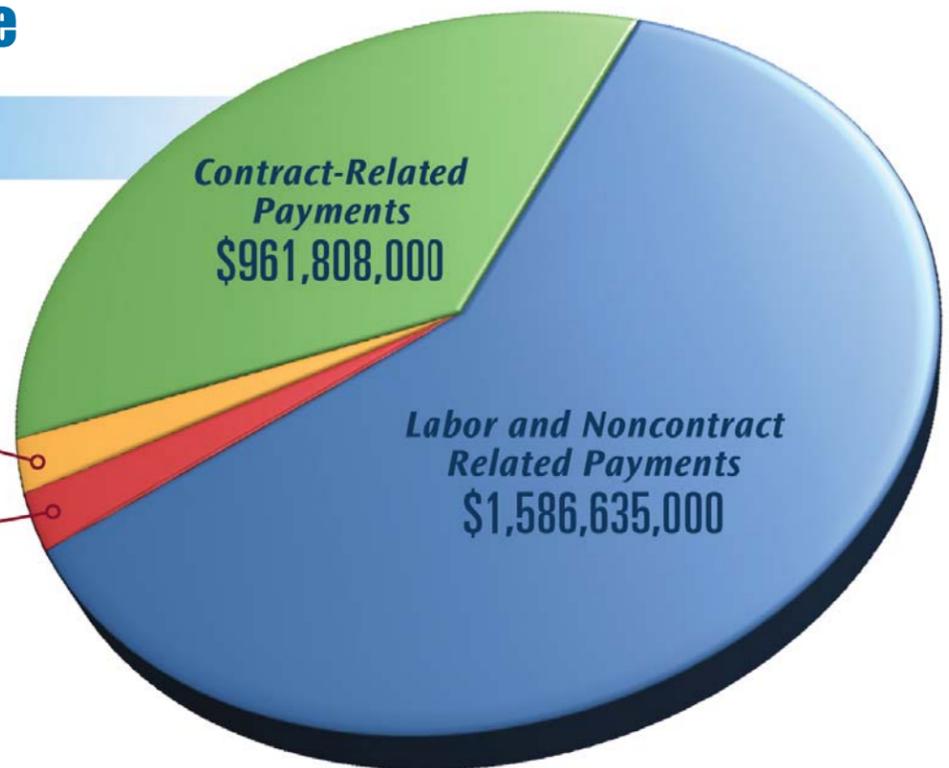
Impact on the state's bottom line

Total Laboratory Expenditures

\$2,686,329,000

Procurement Card Purchases
\$71,863,000

Corporate Taxes
\$66,023,000



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compared to FY13 — by \$12.8 million, \$58.6 million, and \$46.5 million, respectively — “Sandia remains a driving force in New Mexico’s economy,” says Don Devoti, manager of Small Business Utilization Dept. 10222. “We continue to set aggressive small business and supplier diversity goals and work diligently to meet or exceed those goals.”

Small businesses, diverse suppliers wanted

Sandia reaches out to local businesses through a variety of programs. It holds public forums with suppliers and civic leaders to discuss contracting opportunities and lists contracts on its Business Opportunities website. It supplies small and diverse business owners with information on doing business with Sandia and seeks qualified suppliers.

The 2014 *Sandia National Laboratories Economic Impact* report breaks down Sandia’s spending and spotlights its role in the economy. The 2014 data, reflecting actual payments made, are based on the fiscal year from Oct. 1, 2013, to Sept. 30, 2014. The report demonstrates Sandia’s continued commitment to small business.

Sandia’s overall economic impact in 2014:

- \$1.6 billion was spent on labor and non-contract-related payments.
- \$961.8 million went to contract-related payments.
- \$61.5 million went to the state of New Mexico for gross receipts taxes.
- \$71.9 million was spent through procurement card purchases.

The Small Business Act mandates that federal contractors use small businesses, including those that are small disadvantaged, owned by women or veterans and service-disabled veterans, and small businesses in impoverished areas — called Historically Underutilized Business (HUB) zones. The Small Business Utilization Department oversees those mandates and negotiates small business subcontracting goals with NNSA.

“Looking ahead to FY15, Sandia procurement and

Sandia small business expenditures for FY 2014 with breakouts for the New Mexico and California labs:

	National	New Mexico	California
Total small businesses:	\$455,685,000	\$240,575,000	\$71,410,000
Woman-owned small businesses (WOSB):	\$97,221,000	\$75,694,000	\$12,377,000
Businesses in impoverished areas (HUBZone):	\$33,736,000	\$22,560,000	\$230,000
Small disadvantaged business (SDB)	\$93,011,000	\$63,173,000	\$12,949,000
Business owned or co-owned by socially and economically disadvantaged person 8(a):	\$18,152,000	\$11,636,000	\$896,000
Veteran-owned small businesses (VOSB):	\$52,580,000	\$20,063,000	\$6,817,000
Service-disabled, veteran-owned small businesses (SDVOSB):	\$30,715,000	\$10,272,000	\$5,727,000
Small business (non-minority, non-woman, non-vet. owned)	\$130,270,000	\$37,177,000	\$32,414,000

our small business team are driven to exceed all our negotiated small business and supplier diversity goals, the standard by which our program is measured,” Don says. “We will continue to build upon our successes with HUBZone, veteran, service-disabled, and small disadvantaged businesses, where we exceeded our goals last year, to drive future success.”

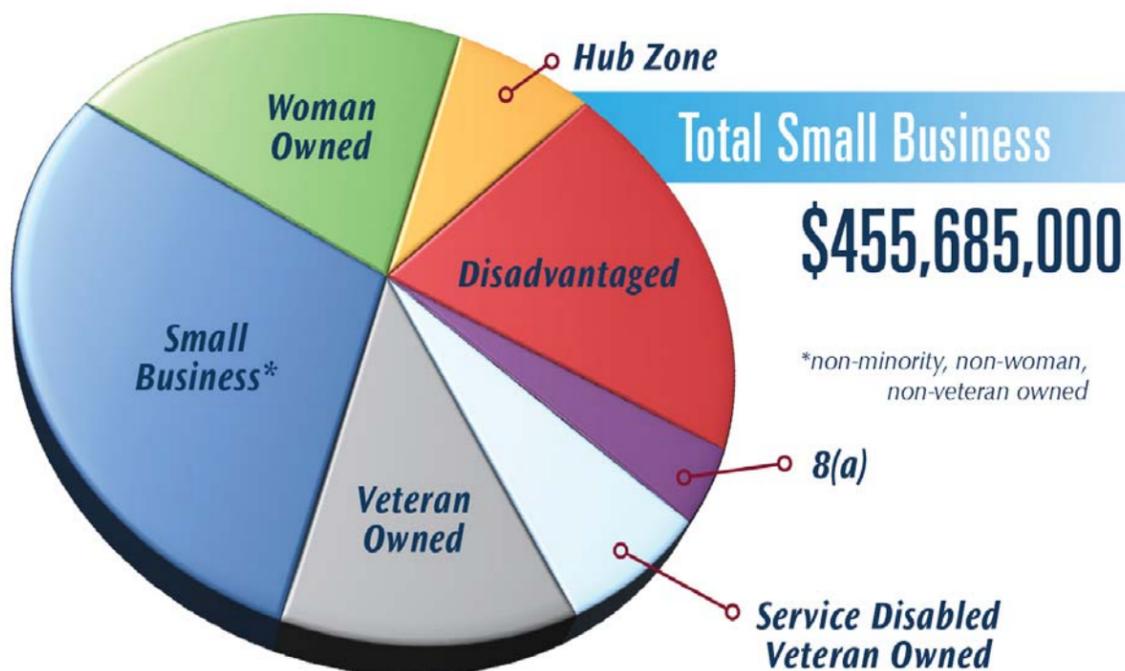
Sandia President and Laboratories Director Paul Hommert echoed the Labs’ full support of the Small Business Act. “Sandia has a long and distinguished record of encouraging and partnering with highly qualified, diverse small business suppliers who assist us in achieving our national security mission,” he says. “We are fully committed to continuing this track record.”

Sandia also helps the state’s economy through the New Mexico Small Business Assistance (NMSBA) pro-

gram, established by the state Legislature in 2000 to help companies receive technical support from the Labs. In 2013, the Sandia NMSBA provided \$2.4 million in technical assistance to 194 New Mexico small businesses in 29 counties. Since 2000, it has provided more than \$26 million in assistance.

Sandia employees gave more than \$6.2 million in 2014-2015 to the United Way of Central New Mexico, making Sandia the largest corporate contributor to the agency. That will be reflected in the 2015 economic impact report.

Sandia employees also contribute their time as volunteers, supporting STEM (science, technology, engineering and math) education through a variety of community programs, such as family science and math nights and engineering challenges, that reached thousands of students.



“My small business team and our entire procurement organization



are driven to exceed our small business and supplier diversity contracting goals. We will continue to engage, value, and partner with suppliers to make a difference in our local, state, and national economies.”

— Don Devoti, manager
Small Business Utilization Dept. 10222

Sandia Classified Ads Sandia Classified Ads Sandia Classified Ads Sandia Classified Ads

MISCELLANEOUS

BABY GRAND PIANO, w/bench, Young Chang, white, beautiful, smoke-free condition, regularly tuned/played, \$4,900 OBO. Santos, 269-3461, call or text.

STORAGE SALE, table & chain saws; bike/roof racks; some furniture; call for details & price. Roesch, 281-9751.

BASIC SCHWINN BOWFLEX PRO, excellent condition, \$250. Hibray, 821-3455.

SKIS/BOOTS, K2 5500-204, Look bindings; Fisher Imperator-205 Marker; Lange 70-VEC-S, size 30; good condition, \$40 ea. OBO. Vook, 884-4754.

SKI BOOTS, 2 pr., Salomon, men's 28.5, women's 27, like new, barely used, \$95 ea. Babb, 228-5225.

TREADMILL, fold-up, space saver, \$65. Fromm-Lewis, 220-5772.

PET DRINKING FOUNTAIN, Pioneer Pet Raindrop, stainless steel, used briefly, in box, excellent condition, \$15. Hall, 280-4344.

FUTON, wood, Southwest/fabric, \$100; pet folding fabric kennel, 20" L x 16" W x 17" H, \$25; photos available. McDonald, 505-554-2048.

MALTESE/BICHON PUPPIES, adorable, 4 wks. old, first shots, 2 boys, \$300 ea., 2 girls, \$375 ea., located in Bernalillo County. Romero, 306-8815, ask for Greg or 730-1055, ask for Valerie.

HONDA GOLDWING INTERCOM HEADSETS, 2, still in boxes, practically new, paid \$400, asking \$300 OBO. Bristol, 505-400-3421.

MULTI-STATION GYM, Marcy, complete arm/leg/core workout, manuals, excellent condition, \$1,500 new, asking \$295. Snelling, 294-5751.

SNOWSHOES, Redfeather PACE 500, weight up to 125-lbs., used twice, \$80; stereo/CD unit, light wood, great condition, \$80. Brewster, 238-4704, ask for Julie.

HDTV, Samsung, 40-in., w/remote & Sony DVD player, \$250. Hennessey, 505-269-6243.

REFRIGERATOR/FREEZER, GE, Bisque, 21.7-cu. ft., ice maker, filtered water, adjustable shelves, works great, \$150. Mann, 401-0988.

BAR STOOLS, 4, oak, swivel seats w/back, counter height, \$45 ea. Sleefe, 281-4103.

EXERCISE BIKE, recumbent, comfortable, 10 mos. old, NordicTrack GX 4.7 w/fan, misc. monitors, iFit possible, \$260. Caskey, 298-6428.

JOGGING STROLLER, good condition, \$80. Garcia, 720-9135, ask for Pat.

WOOD TABLE, w/6 chairs, good condition, \$60 OBO. Romero, 505-307-9389.

SKI BOOTS, Head EZON 2 BYS, mondo size 29, very comfortable, excellent condition, \$180. Brumbach, 505-377-0188.

HOME THEATER SPEAKERS, Infinity, 2 Primus 360 towers, w/matching C25 center channel, great condition, \$240. Chang, 385-6158.

VENDING MACHINE, used, Coke/drink & snack combo, w/change machine, works well but needs some work, \$200. Van Ostrand, 505-896-8115.

RADIAL TIRE CHAINS, fit tire sizes 195/R14, 185/R15, P205/70R14, good condition, \$15. Kepler, 291-3448, glenkepler@gmail.com.

FISH TANK, 50-gal., w/all accessories & stand, \$75; kerosene space heater, never used, w/extra wick, \$50. Kelly, 797-1475.

TIRES, 4, Dunlop, 245/75R16, w/Toyota stock 16-in. alloy wheels, \$400; double cab running boards, gunmetal gray, \$100. Madsen, 610-0725.

BIKE RACK, Yakima Double Down, holds 2 bikes, mounts to rear hitch receiver, w/straps, excellent condition, \$130. Olbin, 275-2681.

HOME THEATER RECEIVER, Onkyo TX-NR905, 7.1 channel, excellent condition, more info at <http://tinyurl.com/ktc5llq>, \$500 OBO. Lujan, 299-2218.

QUEEN BED, European style, IKEA, Rattan-style, w/headboard, footboard, mattress, great condition, \$200. Babilonia, 554-4420.

BIKE TRAILER, Adams folding trail-a-bike, converts road or mountain bike into a tandem. Oczon, 505-888-5140.

OFFICE FURNITURE, L-shaped oak desk, 3 oak bookcases, photos available, \$500 OBO. Dye, 897-0304.

CAMO BINOCULARS, Leupold Cascade 10x42, used once, \$290; motorcycle jacket, lined gray/black, large, \$135. Schroeder, 505-917-4516.

SLIDE SCANNER, Nikon SuperCool Scan 5000 ED, little used, \$200. Sanford, 505-856-8259, twlsanford@comcast.net.

How to submit classified ads
DEADLINE: Friday noon before week of publication unless changed by holiday. Submit by one of these methods:
 • EMAIL: Michelle Fleming (classads@sandia.gov)
 • FAX: 844-0645
 • MAIL: MS 1468 (Dept. 3651)
 • INTERNAL WEB: On internal web homepage, click on News Center, then on Lab News link, and then on the very top of Lab News homepage "Submit a Classified Ad." If you have questions, call Michelle at 844-4902. Because of space constraints, ads will be printed on a first-come basis.

Ad rules

1. Limit 18 words, including last name and home phone (If you include a web or e-mail address, it will count as two or three words, depending on length of the address.)
2. Include organization and full name with the ad submission.
3. Submit ad in writing. No phone-ins.
4. Type or print ad legibly; use accepted abbreviations.
5. One ad per issue.
6. We will not run the same ad more than twice.
7. No "for rent" ads except for employees on temporary assignment.
8. No commercial ads.
9. For active Sandia members of the workforce, retired Sandians, and DOE employees.
10. Housing listed for sale is available without regard to race, creed, color, or national origin.
11. Work Wanted ads limited to student-aged children of employees.
12. We reserve the right not to publish any ad that may be considered offensive or in bad taste.

WEIDER TOTAL BODYWORKS 5000 GYM, w/extra bench, 4 adjustable power bands, excellent condition, \$175 OBO. Laskar, 280-6111.

PORTABLE HEATER, Kerosene, Omni 230, Toyoset, manufactured by Kerosun, 23,000-BTU/h, burning time 12-16 hrs., \$50. Fenimore, 298-8052.

TABLET, Verizon Ellipsis 7, 7.7-in. screen, 8GB, w/32 GB SD, free, just take over contract, \$10/mo., Lindsay, 507-5525.

SLEEP NUMBER BED, queen, >8 yrs. old, only used in guest room, \$200. Velasquez, 505-235-5861.

TRANSPORTATION

'04 VW PASSAT GLX, 2.8L V6, AWD, leather, gray in & out, wagon, new tires, 115K miles, good condition, \$7,600. Trullinger, 505-917-7432.

'84 CORVETTE COUPE, project car, good body, 350-crossfire motor, runs, 700R4 transmission, \$3,000. Marchi, 710-0984.

'92 MAZDA MIATA MX5, classic, very clean, 105K miles, runs great, \$4,500. Brown, 463-5563, ask for Howard.

'06 GMC ENVOY SUV, 6-cyl., well maintained, 109K miles, runs great, \$4,800. Salazar, 319-7250.

'98 HONDA PASSPORT, V6, white, 120K miles, great condition, \$2,500. Cook, 505-916-6793.

'99 TOYOTA TACOMA, regular cab, 4x4, 5-spd., 1 owner, 187K miles, \$3,500. Dierking, 505-977-1041.

'11 INFINITI G37S COUPE, fully loaded, quick & nimble, 56K miles, very good condition, \$25,000. Garrett, 832-439-5638.

'12 JEEP WRANGLER, 2-dr., hardtop, silver, new tires & wheels, 39.5K miles, \$22,000 OBO. Schaller, 400-1805.

'02 FORD F250 XLT, super cab, 4WD, 6.8L V10, 6-spd. manual, 128K miles, runs great, \$9,000 OBO. Hart, 505-286-1349.

'03 MERCEDES-BENZ SL500, hardtop convertible, heated/cooled seats, CD changer, well-maintained, 110K miles, \$20,000. Gallegos, 505-331-9998.

'99 CHRYSLER 300M, silver, only 40,590 miles, excellent condition, \$3,000. Lucero, 298-1524.

LIVING ROOM FURNITURE, 6-pc., cherry, \$550 OBO; leather 4-person sofa, 2 rockers, \$1,150 OBO. Weagley, 385-4059.

PARABODY GYM, very good condition, arm & leg stations, need pickup truck to transport, \$100. Graham, 377-3034.

ESTATE SALE, Jan. 29-31, 8 a.m.-4 p.m., 5828 Academy Court NE (off Academy Road between Wyoming & San Mateo). Garcia, 280-5815.

WYNDHAM TIMESHARE OWNERSHIP, 154,000 points/year, >60 resorts available, \$700 to own. Dell, 505-228-1314.

'08 BMW 328i, premium audio, leather, garaged, Michelin ZP tires, 35,680 miles, like new, \$18,500. Wrobel, 293-0283.

'02 JEEP WRANGLER UNLIMITED, lifted, AT, 4.0L, AC, locker, hardtop, softtop, winch, bumpers, armor, HD steering, 96K miles, \$17,000. Bonahoom, 505-298-6296.

'05 FIAT 500, w/sport pkg., premium sound system, ~1K miles, brand new, perfect condition, \$14,500. Martin, 623-687-7673.

'06 TOYOTA TUNDRA SR5, 17-in. alloys, 4WD, double cab, forest green/gray, new timing belt/water pump, all fluids, plugs, shocks, brakes, 134K miles, runs excellent, \$13,200. Dwyer, 271-1328.

'05 MERCEDES SLK350, red sport coupe, 33K miles, new Michelins, like new, \$14,900. Jarvis, 505-238-3440, ask for Norm.

REAL ESTATE

4-BDR. HOME, 3 baths, 4,280-sq. ft., Four Hills, \$419,900, \$429,900 w/realtor. Ramos, 972-951-0290.

4-BDR. HOME, 2 baths, 2-car garage, 2,093-sq. ft., tiled floors, granite countertops, fireplace, newly constructed, 98th & Ladera, \$249,000. Sanchez, 293-7246.

3.15 ACRES, Heatherland Hills subdivision, utilities/active well on property, 15 mins. to Albuquerque, MLS#82146, \$90,000. Steele, 505-220-6567.

4-BDR. HOME, 3 baths, 3-car garage, 4,000-sq. ft., cul-de-sac, on open space, near Sandia. Dybwad, 270-5888.

WANTED

EXPERT KNITTER, to repair two Ralph Lauren wool ponchos. Burfeindt, 505-897-0179.

ROOMMATE, 7 mins. from Sandia, no pets, \$400/mo., utilities & WiFi included. Guillen, 505-385-8189.



Mileposts

New Mexico photos by Michelle Fleming



Jerry Boyd
35 5351



Leonard Convissor
35 5786



J.G. "Lupe" Arguello
30 1554



Michael Daily
30 1740



Peter Chauvet
38 414



W.R. "Chip" Olson
30 1832



Tony Perlinski
30 5336



Richard Wickstrom
30 5532



Glenn Jensen
25 9329



Dorothy McCoy
25 10659



Berlinda Sanchez
21 4249



Joe "Nick" Nekoranec
12 2995



Beth Moser
25 9531



Jim Pacheco
25 6615



Woody Weed
25 2120



Nick Winowich
25 6822



John Aidun
20 1420



Ronald Goeke
20 1832



Tim Montoya
20 2557

Sandia welcomes service dog to New Mexico campus

Family pet takes on new role to help Army veteran with PTSD

By Valerie Larkin

On Dec. 27, 2004, Rob Mitchell (4021) was driving through Sadr City, Iraq, with the US Army's 1st Cavalry Division, headed toward a nearby base exchange where he and his team planned to buy snacks and CDs. He was behind the wheel of the third Humvee in a three-vehicle convoy when everything suddenly turned brown.

"It was like I'd driven into a sandstorm. I didn't hear anything, see anything, or feel anything. Everything was just brown," he recalls. The dust settled, and he realized his convoy had been hit by an improvised explosive device, an IED.

Rob's best friend, a gunner in the second vehicle, was killed in the attack and several others in the convoy were severely wounded. The Humvee's ballistic glass windshield saved Rob's life when it prevented an airborne ball bearing from hitting him. This was the third IED Rob had survived during his year in Iraq.

A life changed by anxiety

Upon returning to the base after the explosion, a debriefing was about to begin when Rob found himself on the floor. "My whole body was shaking, and I couldn't stop. That was the first time I had experienced what I live with today, which are panic attacks," he says. Rob hadn't sustained any physical injuries, but he had walked away with post-traumatic stress disorder (PTSD), a condition that has affected every day of his life from that point forward.

Although the frequency of the panic attacks has lessened over time, the father of two still lives with constant anxiety. Keeping that anxiety from building into a panic attack is a daily struggle, especially when any number of everyday experiences, from driving under an overpass to seeing trash on the side of the road, can trigger debilitating fear, shaking, numbness, or dizziness, among other symptoms.

"Nothing seemed to cure it necessarily, but a lot has helped. I've come a long way in 10 years of dealing with it. Support has been the biggest help — from friends, family, and battle buddies who have been through the same things I've been through. Playing my guitar has been one of them. Nothing is a be-all, end-all, cure-all. There are battles every single day. I win some, and I don't win others. You just hope you win more than you lose," Rob says.

In the decade since he returned to the States from Iraq, Rob has tried various therapies, from individual and group counseling to eye movement desensitization and reprocessing. When Machel Karler, manager of Diversity, Inclusion, Equal Employment Opportunity and Affirmative Action Dept. 3011, suggested a service dog to Rob, he decided to give it a chance.

In 2014 he called Paws and Stripes, an Albuquerque nonprofit that matches shelter dogs with veterans living with PTSD and traumatic brain injuries. The organization teaches the veterans to train the dogs to become service animals in an eight-to-12-month process.

A new tool in the toolbox

"I went to Paws and Stripes because I decided I needed another tool to help deal with the PTSD. You can't build a house with just a hammer. You have to try everything at your disposal to get through it," Rob says.

Paws and Stripes provides the dog and the training to the veteran at no cost, but the program has a lengthy waiting list. Rob moved up the waiting list by raising nearly \$6,000 to help pay for his dog's training. The majority of the contributions Rob received came from Sandians. "It makes me feel really good knowing the type of support I have here. The support of Sandia is unsurpassed," he says.

Paws and Stripes also can teach the veteran to train his or her pet dog if it meets certain criteria. Rob's dog Hunni, a 4-year-old, 60-pound Rhodesian Ridgeback mix, was evaluated against the criteria, and she was determined to be a good candidate. Rob and his family had rescued Hunni from Animal Humane New Mexico three years ago, and in the last year Hunni has taken on a new role as Rob's service dog.

"She made the transition pretty smoothly. At first it was a little difficult for her to understand that she was no longer the pet. When we're training, and when she's working, no one else can interact with her except me, unless they ask permission first. Hunni needs to get used to not interacting with people everywhere she goes; she basically needs to be a ghost," Rob says.

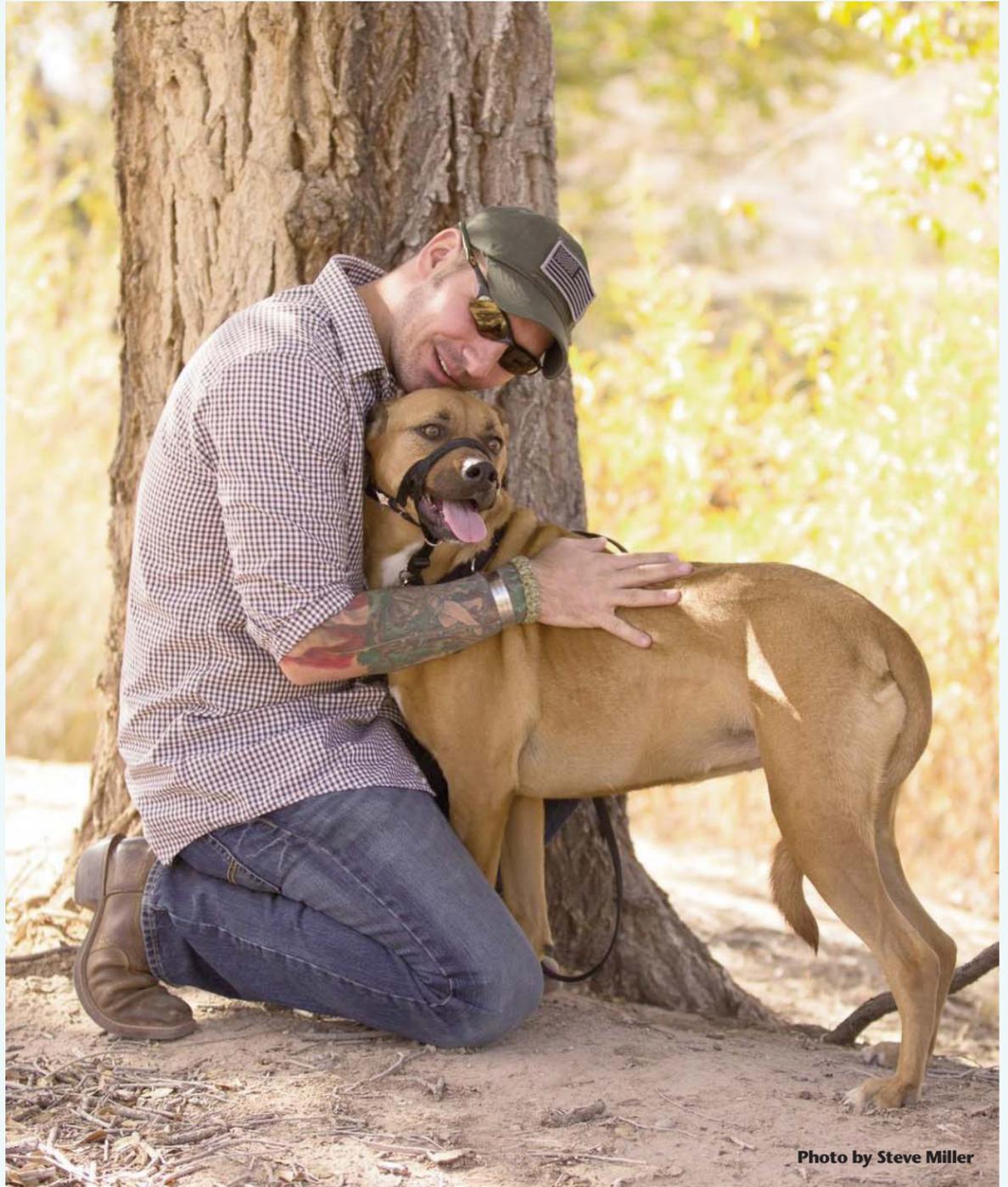


Photo by Steve Miller

UNCONDITIONAL LOVE — Rob Mitchell, an ES&H Coordinator, will begin bringing his service dog Hunni to Sandia at the end of January.

"There are battles every single day. I win some, and I don't win others. You just hope you win more than you lose."

Rob and Hunni attend three weekly training sessions, which include group and individual skill-building activities with the dogs, as well as classes that educate the veterans about how a service dog can help allay their symptoms.

Service dogs can help their human companions through PTSD symptoms in many ways, such as retrieving medications at the onset of a panic attack, calling their attention to an elevated stress level, waking them from nightmares, or providing mobility assistance.

"Hunni's job is to help alert me when my stress and anxiety levels start reaching a point that I need to pay attention to them," Rob says. Hunni can read Rob's subtle physical signals, and if she fusses with her nose harness or acts excited, that is her cue to Rob that he needs to mitigate his anxiety.

Petting Hunni helps too. "The tactile response alone can be calming enough to help turn it around if I start freaking out, to get that affection, that unconditional love."

Through further training, Hunni will be able to help Rob identify and avoid his anxiety triggers, and also to get help if Rob needs it during a panic attack.

Bringing Hunni to Sandia

At the end of January, Hunni will take a test to demonstrate she has the basic skills necessary for operating in a public environment, such as sitting, staying, and obeying commands. After she passes the public

access test, Rob can bring Hunni to work.

Rob works as the Environment, Safety, and Health coordinator for centers 400 and 700, having joined Sandia in 2013 as a member of the Wounded Warrior Career Development Program, which makes certain Sandia jobs available to combat-wounded veterans on a one-to-three-year term.

When she comes to Sandia, Hunni will shadow Rob throughout the day, attending meetings, visiting customers around the campus, and working in Rob's office in Bldg. 802. She will lie in a crate in Rob's office, and when nature calls, she will avail herself of the lawn outside Bldg. 800.

This is the first time in recent memory that a service dog has been on Sandia's New Mexico campus, so Rob worked closely with Machel to ensure all laws and regulations were being followed and to facilitate the process of introducing Hunni to Sandia. Machel coordinated with Sandia's legal and medical departments, the Bldg. 802 manager, the building evacuation team, and others to ensure all facets of Hunni's presence on campus were considered.

"I've put my heart and soul into this for him, and I am so excited to see this come to fruition for him and for his family," Machel says.

"We wanted to make sure we could pave the way in a process for other veterans or Sandians who are considering having service dogs. We wanted to help lay the groundwork for other people who want to have service dogs, and I think we've done that," Rob adds.