SANDIA LABNEWS
PUBLISHED SINCE 1949

Vol. 78, No. 7, April 23, 2026

Cleaner spaces for a safer Sandia **Page 8**

Powerful X-ray generator gets a refresh

MIGHTY MITL — Sandia technologists Alex Nash, left, and Jacob Werner transport the Saturn Accelerator's magnetically insulated transmission lines, from the center section for cleaning after a shot. **Photo by Craig Fritz**

Saturn accelerator updated for reliability and performance

By **Mollie Rappe**

After nearly 40 years of service and 4,726 firings, called "shots," Sandia's Saturn accelerator finally got a spa day.

Of course, a rejuvenating break for one of the nation's brightest X-ray generators did not involve a deep-tissue massage, a mani-pedi or a seaweed wrap. Instead, the accelerator received redesigned switches, a new core section and a reengineered X-ray source.

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Ceremony marks construction milestone

By **Kenny Vigil**

Workers marked a major milestone on one of Sandia's largest construction projects of the past decade with an April 14 ceremony celebrating the installation of the final beam on the Power Sources Capability building.

"We want to celebrate all the work that's been done to date and reaffirm our commitment to delivering on the remaining work," said Perry D'Antonio, a senior manager overseeing the project's technical requirements.

Construction on the new facility began in August 2025, and the beam ceremony signified completion of the building's steel structure.

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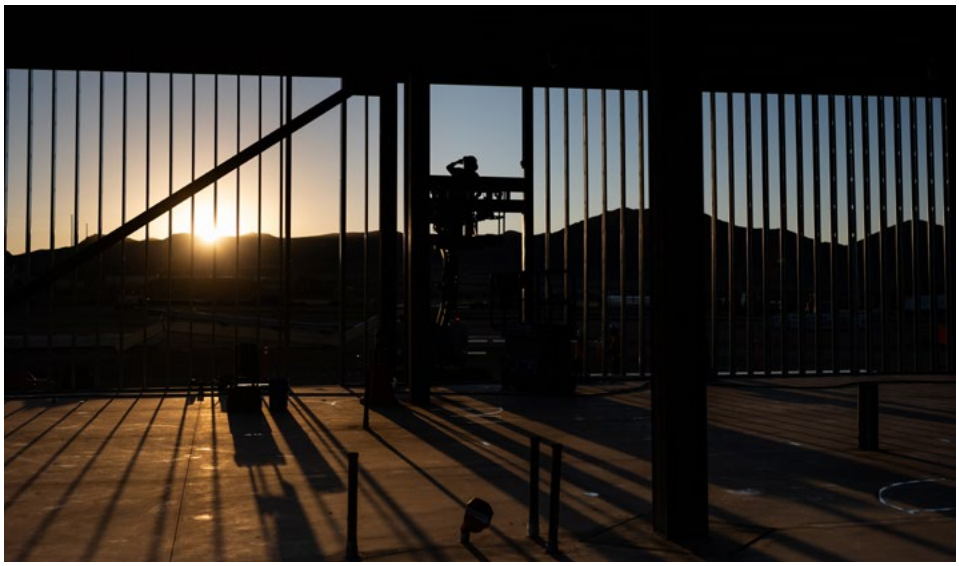

FUTURE READY — The new Power Sources Capability building will replace an aging, outdated facility and was designed to adapt to changing missions over the next 50 years. **Photo by Craig Fritz**

SANDIA LAB NEWS
PUBLISHED SINCE 1949
Managed by NTESS LLC for the National Nuclear Security Administration

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Sandia National Laboratories is a multimission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.

Published on alternate Thursdays by Communications, MS 1468

LAB NEWS ONLINE: sandia.gov/LabNews

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A GLARING PROBLEM — Cliff Ho created the Solar Glare Hazard Analysis tool, now named ForgeSolar, which is used by tens of thousands of customers a year to analyze solar glare and optimize placement of solar installations. **Photo from the Sandia archives**

Glaring impact, TAOS trajectory, quantum boom

Three Sandia projects highlighted for their significant impact

By **Kim Vallez Quintana**

What do a solar glare analysis tool, the trajectory and optimization software known as TAOS and the quantum boom in New Mexico all have in common? They were all developed at Sandia and are all winners of the 2026 Federal Laboratory Consortium Awards for Excellence in Technology Transfer.

2026 FLC Awards

Each year, the FLC recognizes outstanding partnerships that

help turn cutting-edge research at national laboratories and research centers into impactful products and services in the marketplace. This year, there are 27 FLC award winners and seven honorable mentions. Three of those projects were born at Sandia.

Together, the awards reflect the range of Sandia's impact, from improving safety around solar installations and supporting aerospace flight analysis to helping build a growing quantum ecosystem in New Mexico.

Solar Glare Hazard Analysis tool/ForgeSolar

Solar energy installations began spreading across the country in the 2010s after the DOE launched its SunShot Initiative. While it represented a huge step toward making solar more affordable, it didn't take long for some to recognize a glaring problem, including former Sandia senior scientist Cliff Ho.

The massive installations, many of which were built in open areas near airports, were creating blinding glare, putting pilots, air traffic controllers, motorists and communities in danger. With the Federal Aviation Administration, DOE, Air Force and Department of Transportation all flagging safety concerns, there was a big push to quickly solve the problem. That is where Cliff and Sandia came in.

With the help of then-Sandia graduate student intern Cianan Sims, Ho created the Solar Glare Hazard Analysis Tool. The web-based software allows users to quickly locate a site, draw an outline of a proposed array and identify hazardous glare throughout the year. If glare is found, the tool calculates and suggests alternative configurations. The tool can also predict annual energy production when evaluating design layouts and locations to maximize energy production while mitigating glare impacts.

Cliff and Sims won an R&D 100 Award for the technology in 2013.

The tool was made available for free on a Sandia-managed website and provided guidance to 6,000 users in 60 countries. As the initial DOE-supported phase of the project wound down around 2015, commercialization became the next step for the tool.

By that time, Sims had moved on from Sandia and had started his own software engineering business, Sims Industries LLC. This provided an opportunity for him and Cliff to work together again. With the help of Sandia licensing executive Bob Westervelt, Sims licensed the tool, added new features and renamed it ForgeSolar.

Fast forward to 2026, and the tool is now used in 140 countries, with an average of 20,000 solar glare analyses performed annually. Among the users are the 10 busiest airports in the world.

The FLC agrees the technology is a prime example of a national laboratory harnessing its creativity and resources to address a significant global need, awarding it the Impact Award.

TAOS

While the name Taos may bring to mind the popular tourist town in northern New Mexico, it is also the name of a flight analysis tool developed at Sandia in 1995 for planning research rocket launches.

At the time, creator David Salguero had no idea that his TAOS — short for Trajectory Analysis and Optimization Software — would go on to become a crit-ical asset for government organizations, space companies and the commercial space market.

When it was created, TAOS stood out from other available software tools. Existing software was often tailored to narrow or highly specific problems.

TAOS combined multiple trajectory-solving capabilities into one analysis and optimization package, supporting every step of safety analysis, from conceptual design through postflight analysis. Just as important, TAOS was designed to be intuitive and remains so today.

In 2012, TAOS was licensed to the Federal Aviation Administration and later approved by NASA as an acceptable safety analysis tool. Since then, it has been used to model everything from hypersonic reentry vehicles and satellites to subsonic cruise missiles, unmanned aerial vehicles and sensor darts.

With the rise of the commercial space industry in recent years, the reach of TAOS has grown further. But getting it approved for use within that industry was not easy. Because TAOS fell under International Traffic in Arms Regulations, licensing it for broader use in the commercial space industry required extensive coordina-tion with Sandia and DOE legal teams as well as creativity in establishing a path for distribution.

Sandia was successful in its efforts and, to date, has licensed the software to six major rocket companies and to more than 200 users under government contracts. TAOS is now used by the companies that accounted for 84% of the commercial rockets launched in the U.S. in 2024.

The FLC recognized that effort with its Excellence in Technology Transfer Award, honoring Sandia's outstanding work collaborating to move a specialized lab-developed technology to the marketplace.

The software's success, colleagues say, has relied on years of contributions from dozens of people in addition to Salguero, who retired from Sandia in 2013. They include aeronautical engineers Michael Sparapany, Michael Grant, Jon Christensen and Nathaniel Grady; David Wick; licensing and contract administrators Amanda Malherbe and Sandra Pino; and administra-tive assistants Elisabeta Cosarca Cordova and Victoria Martinez.

"TAOS is where it is today due to the hard work of several individuals, but it wouldn't be what it is today without the foresight of its original author Dave Salguero," Michael said. "The fact that TAOS has stood the test of time and is one of the preferred tools nationwide is a testa-ment to Dave's original architecture."

New Mexico's quantum future

Sandia and its partners also were recognized for a different kind of technology transfer effort, one aimed not at a single tool or product, but at helping grow New Mexico's quantum future.

ENGINEERING EXCELLENCE — Sandia TAOS core developers Nathaniel Grady and Michael Sparapany have been instrumental in the continued success of the TAOS software.

Photo by Bret Latter

Over the past two years, Sandia has worked with other national labs, academic partners, state institutions and private firms to help advance quantum innovation and economic development in the state. That work has included partnerships focused on commercialization, workforce development, facilities, company growth and long-term industry presence.

- Elevate Quantum, a $127 million grant-funded program to accelerate quantum commercialization through public-private partnerships with more than 140 members.
- Quantum Frontiers Project, a memorandum of agreement between the state of New Mexico and the Defense Advanced Research Projects Agency to develop an industry presence through the development of practical quantum computers and partnerships with private industry.
- Quantum Frontiers Project, a memorandum of agreement between the state of New Mexico and the Defense Advanced Research Projects Agency to develop an industry presence through the development of practical quantum computers and partnerships with private industry.
- Quantum Venture Studio, a $25 million initiative through the Roadrunner Venture Studios and the New Mexico Economic Development Department to create advanced facilities that foster collaboration.
- The Quantum Learning Lab and Technician Bootcamp, led by Central New Mexico Community College and Sandia, and funded through the federal "Elevate Quantum" Tech Hub.
- A pilot program that funds $100,000 grants to quantum companies that establish operations in the state.

Together, those efforts are helping build the infrastructure needed for an in-state quantum sector. In a year's time, New Mexico went from having zero quantum companies to at least five.

The FLC awarded Sandia and its government partners the State and Local Economic Development Award for that broader work to help position New Mexico as a center for quantum science and technology.

Key players in that work include Sandia quantum business development lead Jake Douglass and quantum physicist Megan Ivory. The pair has a long history of working to foster quantum in the state, including launching QCaMP back in 2022 to introduce quantum concepts at the high school level. In the years since, they have remained leading voices in the quantum movement and advocates for growing New Mexico's role in the field.

"A major part of making New Mexico the place to be for quantum is by building new and innovative public-private partnerships," Jake said.

"We're excited to see companies taking advantage of these programs and people growing their businesses," Megan said.

The DARPA partnership alone is expected to bring up to $120 million in funding over the next four years to expand research, engineering and testing tied to quantum technologies in New Mexico.

"New Mexico has a strong history of being a crucial player in world-changing technology development. The field of quantum science is at an inflection point and New Mexico is the place to be to realize the impact of these emerging technologies," Jake said.

Saturn revamp

CONTINUED FROM PAGE 1

"The goal was to figure out what needed to be right, where the big knobs are, to improve the reliability and performance of Saturn," said Mark Savage, an electrical engineer and technical lead for the refurbishment. "A lot of things have to go right for a really good shot on any big machine. It doesn't take many things going wrong to affect it seriously."

Saturn began operating in 1987. It produces intense, hard X-rays, primarily to test and qualify national security elec-tronics, subsystems and materials against X-ray radiation.

Planning for the first phase of the refresh began in 2018 and the machine was shut down from January to October 2024. Recently, the team completed fine-tuning the new X-ray source to ensure it performs as needed, said Jeff Tunell, the team lead for Saturn operations who was involved in the refurbishment.

Super-synchronized switches

From above, Saturn looks like a wagon wheel with 36 spokes that lead to a center hub. It would just fit within two side-by-side college basketball courts. The center hub is a 6-foot-diameter chamber under vacuum where the X-rays are generated.

Each spoke contains complex equipment to store electricity and then release it in a fraction of a second. One factor that determines how reproducible a shot is how well synchronized the spokes are; a billionth of a second — a nanosecond — matters.

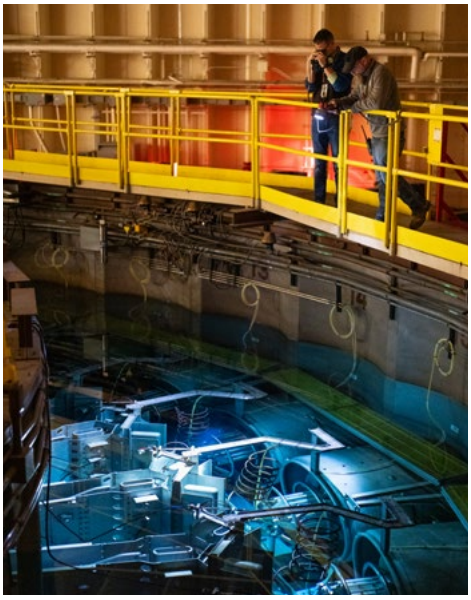
One key part of the refresh was redesigning Saturn's gas switches, which are critical for synchronizing the spokes.

"The gas switches were replaced because we wanted to improve the accuracy of their timing," said Mark, who designed the new gas switches. "The gas switches were a hard problem because they're switching millions of volts and hundreds of kiloamps with nanosecond precision."

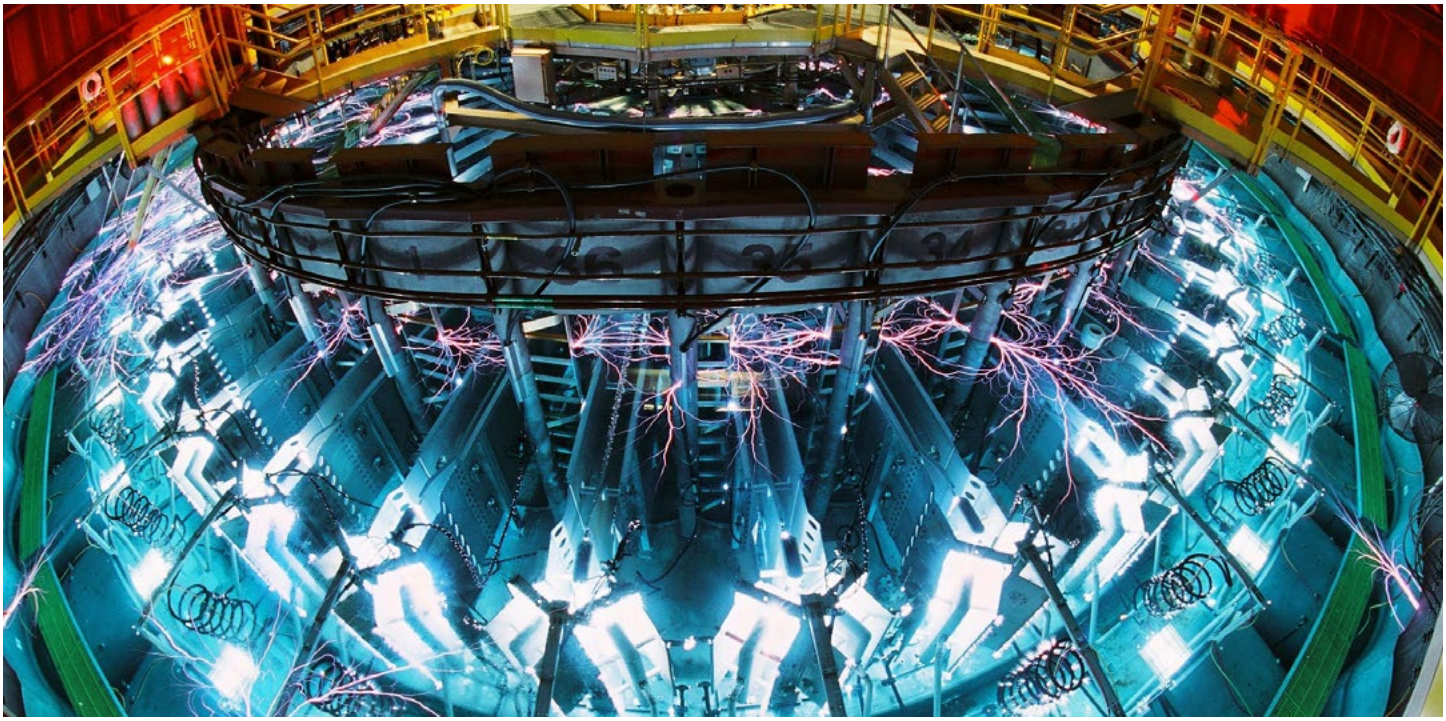
In addition, the timing of a gas switch can now be adjusted in place. Previously, divers had to remove a switch from the water tank to adjust it, a process that slowed troubleshooting significantly. The new gas switches were also designed to last longer and handle higher voltages if oper-ators decide to increase Saturn's voltage in the future, Mark said.

Shiny new core

Saturn's hub, also known as the vacuum insulator stack, was replaced to improve diagnostic monitoring of the energy flow toward the center, Mark said. This helps operators understand what happened if a



DEPTHS OF SATURN — Ray Puckett, left, and Michael Fromer inspect a line of Saturn during a test on Jan. 10, 2025. **Photo by Craig Fritz**



SATURN'S RING — Sandia's Saturn accelerator during a shot in 2011. Since the recent refresh and redesign, it exhibits even less electricity-wasting arcing that looks like lightning, improving its reliability and performance. **Photo by Randy Montoya**

shot doesn't produce the expected level of X-rays.

Saturn's magnetically insulated transmission lines — conduits for the millions of volts traveling from the spokes into the vacuum-insulated hub and X-ray source — were also replaced. Originally, they were mounted in a flexible way, which made sense because Saturn was the first machine of its kind. But this came with the tradeoff that they were hard to install and align consistently, Mark said.

The new transmission lines are less adjustable, making alignment easier and improving performance. They were also designed with better connections between components to reduce arcing.

The updated magnetically insulated transmission lines were inspired by those on the **Z machine**, the world's most powerful pulsed-power machine and a **descendant of Saturn**. Computer modeling of power flow through the new system was done by Sandia physicists Peggy Christenson and David Sirajuddin before any parts were ordered, Mark said.

Jeff's operations team needed to ensure the parts received were machined to specification and that everything had arrived before Saturn was shut down.

"We had some early issues where we weren't receiving exactly what we needed, so we ended up putting a team together to travel out to the machine shops and catch issues before the parts were shipped," said Alex Nash, a technologist involved in both phases of the refurbishment.

The team worked with specialized machine shops across the country to manufacture one-of-a-kind parts for Saturn's core section and other redesigned components.

More reliable X-rays

Saturn's X-ray source was reengineered to improve reliability and reproducibility because, over decades of use, the machine's X-ray production had become less consistent, said Ben Ulmen, who led development of the new X-ray source.

The new source includes design elements that allow technicians to partially preassemble it on a benchtop instead of inside the machine, where they must work overhead. It is also easier to align.

Saturn's X-ray source is a vacuum diode with an anode, a cathode and a small vacuum gap. When extremely high-voltage electricity from Saturn's spokes reaches the diode, it arcs across the gap and hits a thin metal foil that converts the electricity into X-rays. The concept is similar to how a dental X-ray works.

"Saturn works a lot like a dental X-ray, except it is billions of times more powerful and its X-ray pulse is about a million times faster," Ben said.

Planning and design for the second phase of the Saturn refresh is underway. That work will focus on updating the triggering system for the Marx bank generators — parts of the spokes that store electricity to produce a high-voltage burst — to improve timing accuracy even more. Phase two will also include redesigning five systems on each spoke that will compress and conduct the electrical pulse better. The phase is expected to be completed in the next three to four years, Mark said.

"This was a huge project," Jeff said. "It took many people from different organizations to make this work. Everyone coming together to solve problems, modify parts, put them into the machine and then prove it could work as designed was a huge accomplishment."

TECHNOLOGISTS PREPARE A SHOT UNDER SATURN'S CORE

AHEAD OF SCHEDULE — Construction on the 136,000-square-foot Power Sources Capability Building at Sandia is ahead of schedule. A beam ceremony, which signifies completion of the building's steel structure, was held on April 14. **Photo by Craig Fritz**

Construction ceremony

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"Construction is advancing ahead of schedule," said Savannah Torres, the project manager overseeing execution. "We've met or exceeded all major milestones to date and intend to keep up the pace."

Construction on the 136,000-square-foot facility in Technical Area II is on track for completion in 2028. Equipment and employees will transition into the Power Sources Capability building afterward. The project's final cost is projected at $400 million. The new building will be south of the Battery Test Facility.

Mission critical

Power sources are critical to the nuclear deterrence mission.

"Every system needs a power source," said Sara Pecak, a senior manager. "Our program spans four technology areas, including thermal batteries."

For example, once a weapon system separates from an aircraft, power sources provide main mission power through detonation. Sandia's responsibilities for power sources include research and development, design, production and surveillance.

"Making power sources requires some unique capabilities, such as dehumidified rooms, also called dry rooms," Sara said. "The stringent requirements and limited supplier base require the nation to maintain this capability internally."

Aging infrastructure

The new building will replace an aging facility that does not have the infrastructure or capacity for all the work to happen under one roof. Instead, four separate buildings are currently needed to complete all the power sources work.

"One of the things we asked for in the new building is the ability for people to walk past one another," Sara said. "That's part of the design concept. We want to create an environment where people can have conversations even if they're not working on the same projects."

Conceptual design work began in 2019.

"We did a lot of value engineering from the original conceptual design," Perry said. Value engineering identifies alternative approaches that preserve mission function while reducing cost, improving constructability and strengthening overall project value throughout design and construction.

Future-focused

"We've created what we think is one of the most efficient design concepts to meet the mission both today and for the next 50 years," Perry said. "We want to build in agility for changing missions over the building's lifespan."

There has been strong collaboration between Sandia and key partners, including NNSA, general contractor Hensel Phelps, and architecture and engineering firm SmithGroup.

"The expertise of the architecture and engineering firm and the general contractor, combined with support from the cross-functional Sandia and NNSA team, has been instrumental in positioning the project for successful execution," Savannah said. "This project not only delivers the facility needed to advance the power sources mission but also establishes a strong framework for future projects within Sandia's multibillion-dollar line-item portfolio."

POWER SOURCES CAPABILITY BUILDING FROM THE GROUND UP

QUALITY CHECKS — A Sandia technologist works on a thin film thermal battery as his colleague performs quality assurance checks for the Power Sources Capabilities team. **Photo by Craig Fritz**

Advanced manufacturing skills for the future national security workforce

By **Sophia Horowitz**

Sandia is partnering with University of Texas at Austin to strengthen the advanced manufacturing talent pipeline and accelerate adoption of next-generation manufacturing capabilities vital to national security.

CLASS IN SESSION — Sandia additive manufacturing course participants visit the Center for Additive Manufacturing and Design Innovation Lab during Sandia Day 2026 at University of Texas at Austin. From left, Lonnie Love, Mark Dudley, Mohan Karulkar, James Kuthakun, UT Austin professor Matthew Jones, John Cochran, Ziam Ghaznavi and Jose Molina. **Photo courtesy of Melissa Kleinsteuber**

A spring 2026 graduate course in additive manufacturing at UT Austin, sponsored by Sandia Academic Programs, the Center for Advanced Manufacturing and Innovation, and Sandia's Laboratory Directed Research and Development mission campaign, Digitally Realized and Enabled Agile Advanced Manufacturing, dubbed DREA^{2}M, will give students and Sandia participants access to leading-edge additive manufacturing and measurement tools.

"Advanced manufacturing is crucial for national security careers and beyond," said Mohan Karulkar, manager for DREA^{2}M and CAMINO. "By investing in this partnership, Sandia is preparing a future workforce that is knowledgeable in accelerating technologies like additive manufacturing, digital engineering and automation."

Hands-on learning tied to real-world manufacturing practice

The semester-long course will include 15 in-person UT Austin graduate students and six online Sandia staff members. Sandia employees will receive a certificate of completion, and one participant will earn credit for a master's degree in mechanical engineering from UT Austin.

Coursework is designed to build practical fluency in advanced manufacturing workflows. Participants will explore a range of additive manufacturing processes and measurement techniques through hands-on lab assignments, with an emphasis on understanding operational procedures and communicating effectively with technicians and other manufacturing partners.

Students will use equipment in UT Austin's Center for Additive Manufacturing and Design Innovation, a facility that leverages key technologies used across the industry.

"Advanced manufacturing is a key focus for the Sandia-UT Austin partnership, along with quantum technology, AI for national security and microelectronics," said Nadine Miner, Southwest partnerships manager for Academic Programs. "Academic Programs supports collaborations that connect researchers and strengthen education and workforce development. Sponsoring this course helps upskill Sandia's workforce, informs curriculum in ways that develop workforce-ready talent and connects Sandia with top-trained graduates in advanced manufacturing."

Launching CAMINO's Advanced Manufacturing Academy

The course also marks the launch of CAMINO's Advanced Manufacturing Academy, an effort to expand advanced training in manufacturing tools and techniques across the laboratory. By 2029, CAMINO plans to train up to 100 Sandia employees each year to help ensure the workforce can adopt new technologies quickly and effectively.

"The class gave me a better understanding of various 3D printing methods beyond just ceramic printing, helping me see their different uses and benefits," process engineer James Kuthakun said. "I plan to apply this knowledge to explore new materials and techniques that could improve the quality and options in my future projects."

As the academy grows, it will also expand training focused on national security needs — helping Sandia attract top talent and prepare for emerging challenges.

This collaboration underscores Sandia's commitment to developing the people, partnerships and hands-on expertise needed to advance modern manufacturing capabilities in support of the nation's most pressing security challenges.

Focused on employee experience

REAL-WORLD EXPERIENCE — Deputy Labs directors, from left, David Gibson, Deborah Frincke and Rita Gonzales along with Labs Director Laura McGill, right, heard employees' perspectives on working at Sandia and answered questions during the Employee Experience Town Hall on April 15 in Steve Schiff Auditorium.
Photo by Craig Fritz

Creating future-ready space

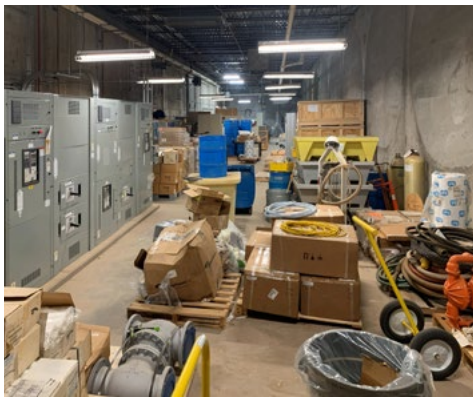
Storage Clean-up Challenge drives results and culture change

By **Damian Lopez-Gaston**

Sandia recently completed the Storage Clean-up Challenge, part of the broader Storage Improvement Initiative. This effort, created to optimize storage practices and spaces across the Labs, has drawn many participants and sparked a cultural shift toward better stewardship of storage spaces at Sandia.

The Storage Improvement Initiative was launched to address the growing need for well-optimized storage spaces, which are critical for future-readiness and mission success. Supported by subteams focused on storage policy, data accuracy and Corporate Storage improvements, the initiative has streamlined storage practices by consolidating storage policy provisions, validating walks-downs of over 200,000 net square feet of storage space and implementing an annual review process for items in Corporate Storage space using the new Storage Portal.

In the fall, the Storage Clean-up Challenge took center stage as a grassroots effort to engage Sandians in improving their own spaces. With no top-down mandate or funding, the challenge encouraged groups to set their own goals and tackle storage issues within their span of control. The response was remarkable: all divisions participated, submitting 50 transformative and impactful improvement goals.



CLEARED OUT — The Above Ground Testing Accelerator Operations team cleared out years of accumulated tools, chemicals and equipment, resulting in a fully functional space for maintenance activities..
Photo courtesy of the Above Ground Testing Accelerator Operations team

Impactful results

The Enterprise Assurance and Risk Management department led a cross-Labs collaboration to clean out and disposition three abandoned transportainers in Tech Area I, one of which contained moldy, forgotten items dating back to the Vietnam era.

"Our team now knows how rewarding it is to conquer a mountain of mess, which others have chosen to ignore. It is vital to make time to get clean-up work done," quality engineer Jeanette Burmester said.

The Environmental Systems department's Ecology Program tackled their storage room, transportainers and truck, transforming their spaces into safer, more effective workspace.

In California, the Engineering Services Program and Operations team optimized the site's classified storage facility, reducing inventory from 120% to 80% capacity and implementing a bar-coded inventory system to streamline operations and enhance readiness for mission success.

The Above Ground Testing Accelerator Operations team reclaimed a neglected shared space by clearing out years of accumulated tools, chemicals and equipment, creating a cleaner, more functional environment for storage and maintenance activities.

A Silicon Microfabrication Process Engineering team cleared out 144 lots of semiconductor wafers, retiring outdated inventory categories and implementing processes to better manage future releases.

The Explosive Technologies group overhauled an outdoor area, filling multiple roll-off containers with unneeded items and transforming the area into a clear space that fosters safety and pride.

"Better stewardship of the areas we occupy allows us to use space more efficiently and keep better track of our inventory and equipment. Between cleaning and reorganizing, nothing is stored outside the building," said Doug Taylor, a manager in the Explosive Technologies group.

These efforts, along with many other impressive results, demonstrate the Labs' strong appetite for improvement work and the power of collaboration in driving meaningful change.

SAFER SPACE — TThe Explosive Technologies group overhauled an outdoor area, rehoming unneeded items and transforming it into a safer space.

Photo courtesy of the Explosives Technologies group

Reframing storage

The challenge also highlighted enthusiasm across the Labs for addressing storage pressures when framed as mission-critical work. Sandians embraced the idea of being good stewards of taxpayer money and Labs resources, taking ownership of their spaces and creating room for agility and innovation.

"The challenge is recognizing the value of stopping our immediate work to organize. The boon to productivity rapidly made up for our initial sunk time," participant and electrical engineer William Brooks said.

Looking ahead, the Storage Clean-up Challenge is planned as a recurring event to sustain the cultural shift toward improved storage stewardship. Future efforts will focus on encouraging organizations to establish their own guidelines for storage duration, working toward improved compliance with regular federal storage requirements and exploring strategies for building clean-up days and transportainer optimization.

The success of the challenge would not have been possible without the dedication of over 200 Sandians — early adopters who leaned into this culture change. Their efforts have laid the foundation for continued progress and demonstrated Sandia's commitment to operational efficiency, enhanced safety and future-readiness.

Read more success stories from the Storage Clean-up Challenge, including what was accomplished by each division.

Volunteers tune up bikes for families in need

FREE BIKES — Sandia physicist Amanda Dumi, behind the spokes, repairs one of 48 bikes donated during the Free Bikes 4 Kidz-New Mexico event at the Trek Store on April 4. Free Bikes 4 Kidz-New Mexico is a nonprofit geared toward children's health and happiness by providing bikes to families in need. The community donates gently used bikes to the organization, which mobilizes volunteers to clean and refurbish them, then gives them away through after-school programs, health clinics, church groups, crisis centers and tribal organizations.

Photo by Craig Fritz

Retiree deaths

October 2025-March 2026

Bryan Ingram (age 68)	Oct. 1
Claude Potter (78)	Oct. 2
Richard Skinner (86)	Oct. 5
Anne Foy (85)	Oct. 8
William Brown (91)	Oct. 9
Connie Coalson (95)	Oct. 11
E. Louise Bland (87)	Oct. 11
David Hawn (79)	Oct. 11
Russell Smith (77)	Oct. 19
Conrado Otero (87)	Oct. 19
Arthur Lynch (83)	Oct. 19
Terry Ernest (72)	Oct. 20
Jake Aragon (83)	Oct. 24
John O'Connor (81)	Oct. 24
George Rivera (76)	Oct. 24
Alan Stemm (88)	Oct. 25
Emily Joiner (82)	Oct. 26
Samuel Johnson (83)	Oct. 26
Constance Souza (90)	Oct. 28
Robert Foster (93)	Oct. 30
Curtis Domme (76)	Nov. 3
Carolyn Quinn (86)	Nov. 3
Ralph Johnson (90)	Nov. 5
John Allen (95)	Nov. 7
David Corbett (65)	Nov. 8
Patricia Neiswander (84)	Nov. 8
Garth Maxam (81)	Nov. 14
Mark Bleck (74)	Nov. 15
Charles Jackson (99)	Nov. 18
Venito Vasquez (79)	Nov. 20
Joseph Harris (85)	Nov. 22
John Yip (81)	Nov. 27
Donald Mitchell (89)	Dec. 3
Raymond Jones (82)	Dec. 3
Wynona Durham (94)	Dec. 5
Prospero Sedillo (91)	Dec. 14
Robert Alexander (80)	Dec. 14
Jerry Mills (68)	Dec. 15
W. Vandermolen (95)	Dec. 20
Jim Sanchez (89)	Dec. 22
Charles Riney (88)	Dec. 23
Linda Gillis (69)	Dec. 28
William Chambers (76)	Dec. 28
Sharon Gorman (83)	Jan. 1, '26
Gretchen Jordan (81)	Jan. 1
Carol Johnson (84)	Jan. 2
H. Duane Arlowe (92)	Jan. 10
Corliss Fenimore (92)	Jan. 13
Jerry Mercer (83)	Jan. 14
Richard Knutson (95)	Jan. 15
Eva Marie Renninger (82)	Jan. 18
Wilbur Walters (92)	Jan. 21
Don Van Zuiden (69)	Jan. 28
Edwina Nordberg (87)	Jan. 31
Marcelino Armendariz (73)	Feb. 3
Robert Hatcher (87)	Feb. 9
Patricia Baca (76)	Feb. 12
George Fragua (97)	Feb. 15
Wendell Clements (70)	Feb. 15
Eugene McGuire (87)	Feb. 16
David Mccloskey (89)	Feb. 19
Daniel Funk (72)	Feb. 21
Judith Baca (95)	Feb. 28
Delmar Klinetobe (83)	March 1
David Smallwood (87)	March 1
Judith Mead (93)	March 2
Mark Willis (85)	March 3
Evelyn Baca (85)	March 6
William Nickell (92)	March 7
David Carlson (74)	March 10
John Erni (85)	March 10
Marvin Ozmun (94)	March 11
John O'Hare (89)	March 13
John Freie (88)	March 23
Palmer Vaughn (74)	March 26
Jo Ann Neel (83)	March 27
Julian Bartlett (87)	March 30

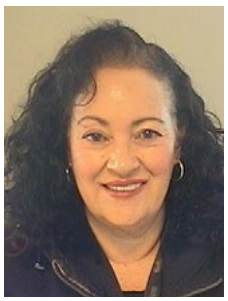
Mileposts

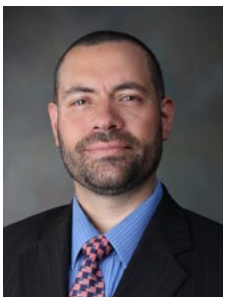

David Cain 35


Alan Williams 30


Jesse Baldwin 25


Lanny Gilbertson 25

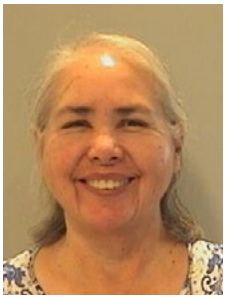

Debbie Griego 25


JC Jakaboski 25


Cristina Munro 25


Adam Rowen 25


William Atkins 20


Randy Edwards 20

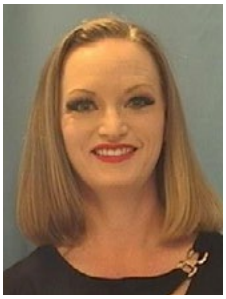

Steve Farmer 20

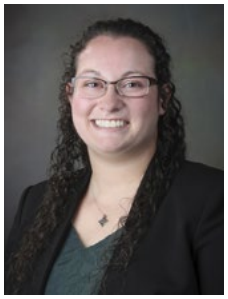

Kelly Garvin 20


Beth Lindberg 20


Frank Maestas 20

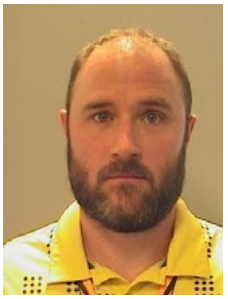

Alfonso Romero 20

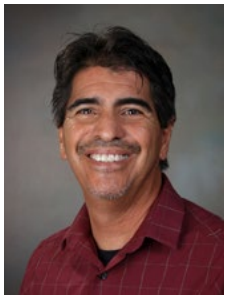

Stacy Woodrum 20


Nan Butler 15


Rachel Gupton 15


James Hartley 15


Owen Johns 15


Richard Martinez 15

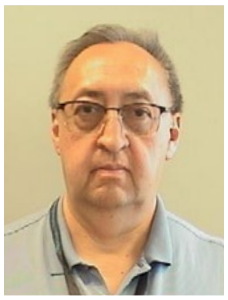

Fred May 15

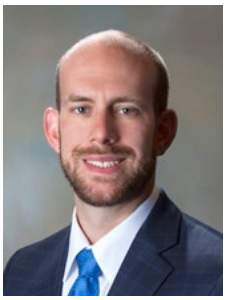

Randy McCoy 15

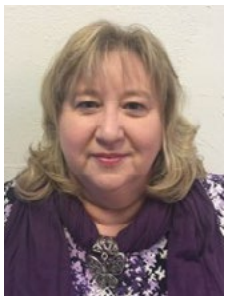

Maelyn Melville 15


Carol Mistretta 15

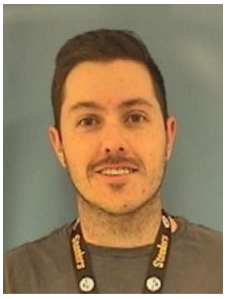

Lloyd Mitchell 15


Allen Newton 15


Brian Owens 15


Lichele Peete 15


Jose Perez 15



Brett Robertson 15

Kathryn Rodhouse 15

Daniel Rohe 15

Brenda Rubidoux 15

Tony Ussery 15

Briana Vernon 15

Seth Walker 15

Gary Wright 15