

The Voice of New Mexico's
Rural Electric Cooperatives

enchantment

**ROOSEVELT ELECTRIC
COOPERATIVE**

FEBRUARY 2022

A Place of Power

Explore Pueblo culture and history at
Pecos National Historical Park. **Page 14**

Pecos National Historical Park
visitors can see how Puebloan
people lived until the late-1830s
when most moved to Jemez.



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AMERICAN**
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**Parent Teacher Conferences
February 7th**

FEBRUARY 2022

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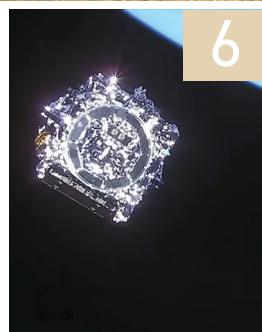
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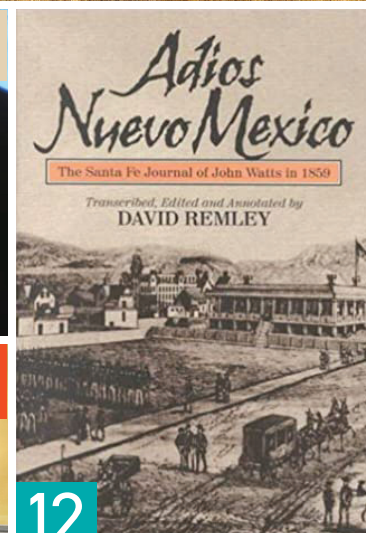
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Energy-Efficiency Tip of the Month

About 30% of a home's heating energy is lost through inefficient windows. Caulk and weatherstrip windows to seal air leaks. When running your home heating system, lock all operable windows to ensure the tightest seal possible.

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Continental Divide Electric Cooperative member Cina Henderson, who photographed Nalainah—supervised by feline companion Sgt. Tibbs—flipping through the family's edition of *enchantment* magazine.

Cina wins \$20!



enchantment

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THE NEW MEXICO RURAL ELECTRIC COOPERATIVE

ASSOCIATION provides legislative and educational services to the cooperatives that are members of the association and deliver electric power to New Mexico's rural areas and small communities. The mission of the New Mexico Rural Electric Cooperative Association is to strengthen, support, unify and represent cooperative member interests at the local, state and national levels. Each cooperative has a representative on the association's board of directors, which controls the editorial content and advertising policy of *enchantment* through its Publications Committee.

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Defining New Emerging Energy Technology

We are in the 2022 legislative session. New energy technologies are emerging. One new source that has promise is hydrogen. While this is outside my expertise, I have asked the chancellor at New Mexico State University to give us insight. The New Mexico co-ops in our organization have unanimously agreed to support the hydrogen hub concept as a way we can reduce carbon output.

I have asked Chancellor and President Dr. Dan Arvizu to give us the perspective. He is from Alamogordo. He graduated from NMSU, worked for Bell Labs and Sandia Labs for several years, was the director of the National Renewable Energy Laboratory, and is now chancellor and president of NMSU. His insight follows.

—Keven J. Groenewold, CEO

New Mexico is at the crossroads of redefining our role as an energy leader. With the transition to low-carbon energy well underway, we find ourselves with a once-in-a-lifetime opportunity to carve out a niche that not only uses our vast resources, but ensures equitable engagement of rural communities as both recipients and contributors in a new energy economy.

While we clearly have challenges ahead, the state is well-heeled to lead the way. Of particular note is a strong willingness to build collaborative partnerships that embrace a shared vision of economic and social prosperity for the citizens of this great state.

This focus on collaboration is resulting in robust public-private partnerships specifically focused on leveraging the state's research universities and national laboratories to advance technology pathways. It also leads the way to a willing network of higher education institutions poised to develop economic and workforce opportunities, and grows an entrepreneurial network that fosters new businesses and jobs across the state.

Historically a multigenerational progression, transitioning to a carbon-free future is on the fast track. Over the past few years, the state has embraced an expansion of renewable energy as a resource for electric generation. This expansion has been possible through advancements in

technology and aligned policies that have made the economics of adoption mainstream for solar and wind generation.

The emerging focus on developing a hydrogen economy offers similar opportunities for the state, but it is not without challenges that accompany the adoption of new technologies. We clearly have opportunities to leverage our vast infrastructure of interstate highways, railways, pipelines, transmission networks and an aligned workforce. Our challenge is to effectively leverage these assets so rural communities are provided the opportunity to engage in the anticipated economic benefits.

Two particular challenges New Mexico research universities are uniquely positioned to support include the reuse of treated water and carbon storage, and management in the emerging hydrogen economy. Specifically, NMSU, New Mexico Tech and University of New Mexico are active in various public-private partnerships to leverage faculty expertise that advance both traditional and innovative technologies and applications.

NMSU is building on its extensive research expertise in water to develop new technologies to treat and reuse water resources—including brackish and produced water—in a more sustainable manner that preserves freshwater resources. NMSU is also poised to explore innovative ways for carbon capture and storage

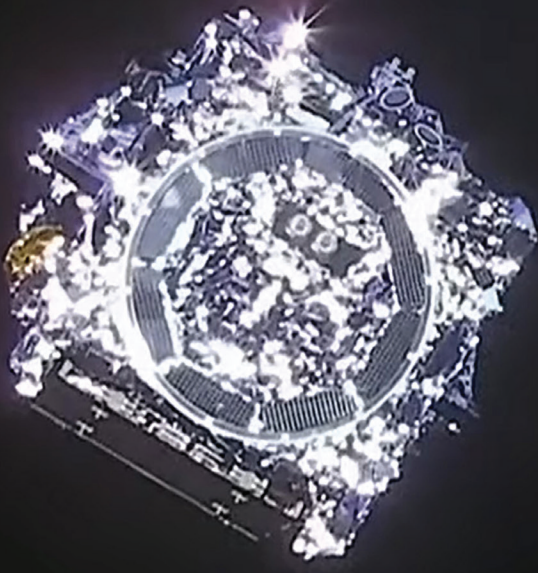
using agricultural applications—research that leverages our 12 Ag Science Centers located statewide.

NM Tech is building on expertise in carbon sequestration to explore innovative ways to capture, manage and store carbon. UNM has expertise in energy policy that can be leveraged to ensure technologies are able to be deployed in alignment with regulatory and policy frameworks.

Additionally, research underway at Sandia National Laboratories and Los Alamos National Laboratory offers additional expertise for New Mexico to pilot hydrogen-based demonstration projects.

With opportunities at state and federal levels to develop regional hydrogen hubs, New Mexico is well-positioned to be a leader in this emerging energy sector.

As we begin 2022, I look forward to the exciting opportunities that hydrogen technologies offer, and invite others to join in building a shared vision that positions New Mexico as a national and global leader in the new energy economy. 🌱



February Skies Fade to Black

The James Webb Space Telescope, enshrouded within its folded-up protective sunshield, above Earth following separation from its launch booster after its takeoff December 25, 2021. IMAGE COURTESY OF NASA

For the past several months, we have enjoyed the sight of various bright planets of our solar system appearing in our evening sky, but that show comes to an end during February as all these worlds disappear into twilight during the course of their—and our—journeys around the sun.

The one holdout for now is Jupiter, which begins February low in the southwestern sky after dusk. It disappears into the twilight by around mid-month.

Our morning sky, by contrast, is full of planets this month. Venus rises about an hour before dawn and gleams brilliantly in the southeastern sky. Mars, which is significantly dimmer, follows along about half an hour later.


Mercury also puts on a pretty good show in the morning sky during February.

Around the first weekend of the month, it forms a distinct triangle with the other two worlds.

By the end of the month, Saturn also starts emerging into the dawn, although it remains quite low for now. It and Mercury have a fairly close conjunction with each other in early March.

An initial step in our next major quest in studying the surrounding universe took place this past Christmas, when the James Webb Space Telescope was launched from the European Space Agency's spaceport in French Guiana. Webb is now in the process of unfolding its sunshield, which is intended to keep its detector and instruments cold so they can function properly. It should be close to arriving at its station position roughly 1 million miles from Earth in the opposite

direction from the sun. It will finish unfolding its mirror and undergo several weeks of testing to ensure everything works properly. If all goes well, we should start to receive useful science from Webb around the middle of 2022.

Although sometimes touted as a "successor" to the Hubble Space Telescope, Webb is actually more of a complementary instrument. Hubble primarily operates in what is called the visible part of the spectrum—i.e., those wavelengths of light to which our eyes are sensitive—whereas Webb will operate exclusively in the infrared. Its planned capabilities should revolutionize many areas of our knowledge of the universe and may provide evidence for the existence of life on potentially habitable worlds orbiting around other stars. 

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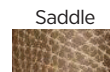
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NMSU Golf Course Donation Provides Relief

Las Cruces Country Club supports the NMSU golfers

By Tatiana Favela

Whether it's helping guests at the pro shop or instructing them on the golf course, Keslee Sherman—a student employee at New Mexico State University's Golf Course—enjoys the experience of working there and teaching others her skill. Now, thanks to a recent gift dedicated to the golf course, a new scholarship will help students like Sherman focus more on their academics and pursuing their passions.

The New Mexico State University Foundation recently received an endowment that will support the Golfer Development program at the NMSU Golf Course under the name of Las Cruces Country Club.

"We wanted all of the Las Cruces Country Club's proceeds to go to NMSU to fund golf scholarships and the junior golf programs," said Larry Alford, Las Cruces Country Club Board of Directors president. "We have had a great relationship with management at the NMSU Golf Course over the years, and we appreciate that support. In return, we hope this endowment will continue to support golf opportunities at NMSU for a long time."

The \$690,000 endowment had been in the works with Las Cruces Country Club for the past five to six years and was officially stamped for approval in August 2021. It's set to benefit students who work at the NMSU Golf Course by providing scholarships for those in the PGA golf management, hotel, restaurant and tourism management, or turf grass management programs.

"This gift is tremendous for our students, and it will help to elevate a number of our programs," said NMSU Chancellor Dan Arvizu. "I want to extend a special thank you to New Mexico Sen. Joseph Cervantes, who helped facilitate

this gift. It ensures the legacy of the Las Cruces Country Club will live on and benefit future generations."

"Through this endowment, we will be able to support deserving students for years to come in a manner that recognizes the Las Cruces Country Club for its commitment to this community," said Derek Dictson, NMSU Foundation president.

Sherman is a PGA golf management student in the College of Business' Marketing Department. Scholarship support eases the stress of making ends meet while juggling school and career development.

"I won't need to be worried about where money's going to come from next," Sherman said. "I can focus on school, and that can help me further my golf career—give more of my heart to what I'm passionate about, which is coming to the golf course and helping people find their passion."

Students from other disciplines who work at the NMSU Golf Course will also be eligible for scholarship funding through the new endowment.

"We also employ students from lots of different areas across campus, and those students will have the opportunity to get some of that scholarship money as well," said Jason White, director of the NMSU Golf Course and a PGA member.

Programs at the NMSU Golf Course include the PGA Junior League, PGA HOPE and summer camps. This funding unlocks the opportunity to enhance golfer development, provide security to existing programs and potentially establish new programs in the future for the community, White said.

"Whether it be junior golf, military and veteran programming, diversity inclusion—we really just want to help introduce people to the game of golf who may not otherwise be able to afford to learn the game," White said.


Another goal is to make golf more accessible for newcomers.

"We want to lessen those upfront costs, whether it's equipment, programming or access to the golf course," White said. "They can try it to see if they like it and then go from there."

The Las Cruces Country Club, which was established in 1928, has a rich history in the community and is known for being the "friendliest club in town." The club's legacy will carry on through this endowment, with hopes of inviting more people to become a part of the golf community in Las Cruces while giving back to future generations.

"This is a way for that name and that history to continue on, which I think is really special," White said. "We're honored as a university that they would want to give that gift to us to continue their name moving forward."

"If we can introduce more young people to the game of golf and what we all love, then hopefully they will have those same aspirations to be a golfer," Alford added. "We just want them to remember it came from the Las Cruces Country Club and it's for the betterment for the game of golf, but also for the betterment of the individuals."

The funding will be managed on behalf of the NMSU Golf Course and awarded in the amount of \$30,000 a year. 

To learn more about the NMSU Golf Course, visit <https://golf.nmsu.edu>.

The New Mexico State University Foundation recently received an endowment that will support the Golfer Development program at the NMSU Golf Course.

PHOTO BY TATIANA FAVELA





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Budget-Friendly Energy Efficiency

Q: I don't have a big budget for energy-efficiency upgrades. Do you have any budget-friendly energy-saving tips?

A: You don't need a lot of money to save on your energy bill. I have some suggestions that are low-cost, simple adjustments you can make in your home, whether you rent or own.

We all want to afford being comfortable in our homes. If you are having trouble paying your energy bills, you are not alone. The U.S. Energy Information Administration reports one in three households faces challenges meeting their energy needs. That's an estimated 37 million people making difficult decisions about what to go without to pay their energy bills.

Decreasing monthly bills and being more efficient at home is something we all should practice. Here are some budget-friendly energy-efficiency tips targeting the biggest energy user: the heating system. Heating and cooling accounts for nearly half of a U.S. home's energy consumption.

Close the Damper

If you have a fireplace, make sure the damper is completely closed when not using it. Leaving the damper open is like leaving a window open—it's just harder to see. The air you just paid to heat your home will go right out the chimney.

The only exception: Some gas fireplaces need to remain open for gas fumes to exit. If you have a gas fireplace, check the owner's manual for more information on the damper position.

Add Coziness to Your Home

One way you can feel warmer in your home without turning up the thermostat is by making your home cozy.

The way our bodies perceive the temperature of a room is based more on the surfaces in the room than the air

temperature. In general, harder surfaces feel colder. For example, your tile floor will feel cooler than your fabric sofa.

Cold floors in a room make us feel colder. Adding an area rug to a hard-surface floor can make us feel warmer, even with the same setting on the thermostat.

The same goes for windows. Windows are typically the least-insulated surface in a room and can feel cold in winter months. Adding or closing curtains can help the room feel warmer.

Check Your Windows

Make sure windows are closed and locked. Locking windows pulls the sashes tighter together, reducing gaps that allow air to flow through and cause drafts. If your sash locks don't form a tight fit, adjust them or add weatherstripping.

A variety of window weatherstripping products are available for less than \$20. Most are simple to install and only require tools you likely already have around the house, such as scissors and a tape measure.

Some are more permanent solutions, and some are intended to be used for one heating season and then removed. Temporary solutions such as caulk strips, putty, pull-and-peel caulking or window insulation films can be used if you rent your home and can't make permanent changes.

Seal Your Doors

Weatherstripping doors is an easy do-it-yourself project. Make sure your doors seal tightly and don't allow drafts to pass around the edges or under the door.

Make sure any doors leading to an unheated space—outside or into a garage—are sealed tightly. If you can see light around the edges or underneath the door, or feel air movement when the door is closed, you are losing energy. Because doors need to open and close easily, expect to do a bit of adjusting after installing weatherstripping. If weatherstripping isn't installed correctly, it can make the door hard to close. Making it too loose defeats the purpose. You need to get it just right.



Weatherstripping around your windows is a low-cost, easy-to-install solution to ensure warm air does not escape from your home.

PHOTO BY MARK GILLILAND/PIONEER UTILITY RESOURCES

Layer Up

Dressing for the season prevents going overboard on your energy use. It can be tempting to adjust the thermostat to increase your comfort. Putting on a sweater or comfy sweatshirt can have the same comfort impact without increasing your energy use. Slippers can be a big help, too, especially when your feet touch a cold floor.

The next time you consider turning up the thermostat a few degrees, try some of these tips first to keep you warm and leave increased energy bills out in the cold. 🧡



Miranda Boutelle has more than 20 years of experience helping people save energy. She has worked on energy-efficiency projects from the Midwest to the West Coast. Today, Miranda is director of operations and customer engagement at

Efficiency Services Group in Oregon, a cooperatively owned energy-efficiency company.

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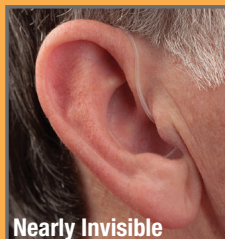
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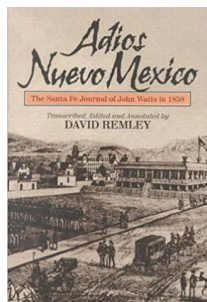


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Adios Nuevo Mexico, The Santa Fe Journal of John Watts in 1859

Here is a daily journal revived and transcribed by David Remley to offer curious readers the unusual

opportunity to bear casual witness to the life and times of John Watts, an American teenager from Indiana living in territorial Santa Fe 163 years ago.

"I went to church this morning and heard a sermon by Mr. Gorman and one thing about it was it was short." - Sunday, April 1859.

How refreshing to see just how timeless the teenage experience is!

But John Watts is more than just unintentionally hilarious. His dedication to a daily journal produces an enduring artifact of the human spirit and a mirror into our own stirrings to rise up out of youth into the adults we are destined to become.

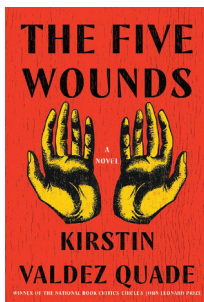
Furthermore, Watt's journal offers insights to daily life in Santa Fe, uncommon to public records, and made much more spectacular, of course, by his boyish musings that are all at once sophisticated and unguarded.

As Watts is left to his own devices much of the time, his chronicle touches on themes of self improvement and observations of the many prominent personalities he encounters.

I'll leave you with this wry observation from October 1859:

"Dick Simpson was caught sleeping with Mrs. Generet by Mrs. Green, Date and John Kingsbury and they told him he had to do one of two things—marry Mrs. Generet or leave the Territory and he chose the latter. At least he has left the town..."

Transcribed by David Remley
Yucca Tree Press
ttupress.org



The Five Wounds

At present, Kirstin Valdez Quade, born and raised in New Mexico, may be the most notable new author we can lay claim to on the national stage.

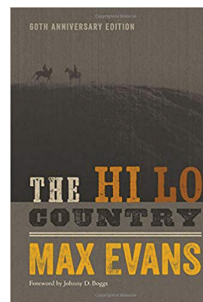
In her debut

novel, "The Five Wounds," no one is more surprised than our troubled protagonist—33-year-old Amadeo Padilla, a lifelong resident of Las Penas and soon-to-be grandfather—in just how seriously he is taking his role as Jesus in this year's Good Friday procession.

"The Five Wounds" was first a story published in The New Yorker. Now, in her critically acclaimed novel, Valdez Quade has masterfully raised Amadeo, his mother, Yolanda, and his pregnant teenage daughter, Angel, up—in full measure—to share a critical year in their life.

I dare say you will have a hard time putting this novel down—not only for the satiating treat of a contemporary and intimate telling of a New Mexican family's life, but for your sincere rooting for and attachment to the memorable characters Valdez Quade brings into sharp focus in one of NPR's Best Books of the Year.

By Kirstin Valdez Quade
W.W. Norton & Co.
wwwnorton.com



The Hi Lo Country

Maybe you watched the Scorsese flick, "Hi-Lo Country," in theaters when it was released in 1998, or maybe you watched Woody Harrelson and Billy Crudup work it out

on the small screen later at home on VHS or DVD. Or maybe I'm breaking news to you. In any case, this original delivery by esteemed and recently departed author Max Evans is top-shelf Wild West storytelling.

And not unlike proper green chile (of which Evans surely would have had many servings of over his more than 50 years living in New Mexico), you need no more—and absolutely no less—than the right ingredients.

In the case of "The Hi Lo Country," those particulars are youth, friendship, drinking, gambling, fighting and a very much married, "attractive, bored and dangerous Mona."

First published in 1961, this novel—with its unadorned prose—offered an interested audience a vivid portrait of New Mexico and the American West. That's exactly what's on the table—and still piping hot—for the taking today.

By Max Evans
University of New Mexico Press
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Pecos National Historical Park: A Place of Power

By Margaret Nava

Visitors to Pecos National Historical Park get a glimpse into the past and the history of the Pueblo people.

Archeologist Alfred Kidder excavated and photographed the original village site, its buildings, and several rubbish dumps. In one of his reports, Kidder wrote, “The beds of rubbish were repositories for ashes, house-sweepings, table-leavings, broken pottery and discarded implements. They served, as well, for the burial of the dead.”

The remnants he discovered revealed a lot about early Puebloan people.

The people who lived there in the 14th and 15th centuries possessed a culture rich with unique architecture and extraordinary crafts. They also performed complex spiritual rituals and ceremonies, hunted wild game, made their own tools, and grew and traded things such as corn, beans, and squash for buffalo meat with the hunting tribes of the Western Apache.

When the Spanish arrived in 1541, life became difficult for the people of Pecos.

The Spaniards built a French-style

church of adobe bricks, and Christian missionaries taught about a strange, new god. The people were ordered to renounce their old traditions, learn Spanish and give much of their food to the Spanish settlers.

Resenting the many years of Spanish control and abuse, the people of Pecos joined forces with other pueblos and planned a revolt. On August 10, 1680, they stole the Spaniards’ horses, raided their settlements, burned their crops and destroyed their church.

A total of 400 people were killed, including men, women, children and 21 Franciscan missionaries. The remaining settlers were driven out of Pueblo lands. They returned 12 years later, but things were never the same for the Pueblo people.

Although Kidder spent time at other archaeological sites, Pecos was where he knew he could collect enough data to support his theory that the lowest layers of a site contained the oldest relics.

Pecos not only had been home to cultures dating back to the Preceramic Period (11,500 B.C.E. to 600 C.E.), but it had also witnessed the dawn of the Developmental Period (600 to 1200 C.E.),

the Coalition Period (1200-1325 C.E.) and the Classic Period (1325-1600 C.E.).

During the Classic Period, as many as 100 native settlements merged into one that became the richest and most powerful of all pueblos. Kidder believed if he dug deep enough, he could establish a chronology of the region and a unified system of nomenclature for the different periods of ancestral Puebloan culture in the Southwest. His work was successful. His classifications of Basket Maker I, II and III, and Pueblo I, II, III, IV, and V are still in use.

Aside from being just another dig, Pecos was a place of power for Kidder. Each time he uncovered a new level, he revealed a new dimension of Pueblo life.

Kidder learned that throughout the thousands of years people lived at Pecos, they struggled to survive. At one time, they lived in pit houses and at another in apartment-like stone structures containing hundreds of rooms. They wove baskets, crafted pottery, planted crops, diverted water from the nearby river and fought drought.

Warfare with hostile tribes was a constant threat. The arrival of the Spanish brought change and disease. Withstanding it all, the people shared their art, beliefs, values and communal identity.

By the late 1830s, those remaining at



Outbuildings and ancient pottery shards in Pecos National Historical Park along the Santa Fe Trail tell the story of those who once lived here. Staff and volunteers at the park do their best to preserve and protect the site. ABOVE LEFT IMAGE COURTESY OF WIKIPEDIA

Pecos left their crumbling pueblo and moved to Jemez, about 80 miles east.


Finishing his work at the Pecos ruins in 1929, Kidder joined Carnegie Institution of Washington and spent the remainder of his career studying Mayan archaeology in Peru, Mexico and Guatemala.

Kidder died in 1963. He and his wife are buried in the park, near one of the sites he excavated.

At the height of the Depression, New Mexico acquired Pecos Pueblo and an area of 341 acres and preserved them as a state monument. In 1965, President Lyndon B. Johnson proclaimed the area a national monument and gave control to the National Park Service. The main unit of the park was expanded by more than

6,000 acres and redesignated a National Historical Park in 1990.

An important function of the National Park Service is “to preserve unimpaired the natural and cultural resources and values of the national park system for the enjoyment, education and inspiration of this and future generations.”

The staff and volunteers at Pecos National Historical Park make every effort to preserve and protect the site’s artifacts and historic buildings that are a cultural heritage of the past. By preserving these buildings and the objects found near them, they ensure the important stories of this place of power will continue to be heard for generations to come. 

The NPS Junior Ranger Program

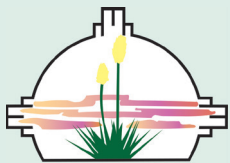
The National Park Service offers a program that allows students of all ages to learn more about the park by joining the junior rangers. Go to www.nps.gov/kids/become-a-junior-ranger.htm to learn about the Junior Ranger Program.

The Pecos National Historical Park website has information for those interested in participating in the local Junior Ranger Program. Go to www.nps.gov/peco/learn/kidsyouth/junior-ranger.htm.



How to Get There

Pecos National Historical Park is 25 miles southeast of Santa Fe. There is no public transportation to the park. Visitors traveling north on I-25 can take exit 299 near Glorieta to Highway 50 to Pecos Village. From Pecos, head south 2 miles on State Road 63. The park is on the right. Visitors traveling south on I-25 can take exit 307 near Rowe and proceed 4 miles north to the park on State Road 63. From Rowe, the park is on the left.



A Touchstone Energy® Cooperative 

General Manager

Antonio R. Sanchez Jr.

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Portales, NM 88310

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Website

www.rcec.coop

Office Hours

8 a.m. to 5 p.m. (M-F)

Roosevelt County Electric Cooperative is an equal opportunity provider and employer.

Board of Trustees

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Board Meeting

The Board of Trustees meets the fourth Tuesday of the month at 9 a.m. in the cooperative boardroom.



RCEC Recognizes Employees

Three employees recently received awards in recognition of their years of service at the co-op. From left: Tammy Salas, 5 years; Sammy Tapia, 5 years; Annette Salguero, 20 years.

Congratulations to all, and thank you for your committed years of service.

Closed for Presidents Day

Roosevelt County Electric Co-op's offices will be closed Monday, February 21, in observance of Presidents Day.

For assistance, please call the after hours phone number: 575-356-4492

Have a happy holiday!

Job Anniversaries

Brian Gonzales, 1 year
Shaun Miller, 1 year



RCEC Annual Meeting

Tentatively scheduled for
Monday, April 18, 2022

ENMU Campus, Union Ballroom
Portales, NM

Registration
5:30 p.m.

Dinner
6 p.m.

Meeting
6:30 p.m.

By-Laws Summary Explains Annual Meeting Process

Requirements for Membership: Any person, firm, corporation or body politic or subdivision thereof will become a member of Roosevelt County Electric Cooperative, Inc., (hereinafter called "cooperative") upon receipt of electric service from the cooperative, provided that he/she or it has first:

1. Made a written application for membership therein;
2. Agreed to purchase from the cooperative electric energy as hereinafter specified;
3. Agreed to comply with and be bound by Articles of Incorporation and by-laws of the cooperative and any rules and regulations adopted by the Board of Trustees; and
4. Paid the deposits/fees hereinafter specified.

No member may hold more than one membership in the cooperative, and no membership in the cooperative shall be transferable, except as provided by these by-laws.

Annual Meeting: The annual meeting of the members shall be held during the month of April of each year at such place in Roosevelt County, New Mexico, as selected by the Board of Trustees and which shall be designated in the notice of the meeting for the purpose of electing trustees, passing upon reports for the previous fiscal year and transacting such other business as may come before the meeting. It shall be the responsibility of the Board of Trustees to make adequate plans and preparations for, and to encourage member attendance at the Annual Meeting. In the event of an Emergency, Pandemic or other Force Majeure, the meeting may be held in accordance with Section 3.08 herein. Failure to hold the Annual Meeting at the designated time and place shall not work as a forfeiture or dissolution of the cooperative.

Trustee Qualifications: No person shall be eligible to become or remain a trustee of the cooperative who:

1. Is not a member and bona fide resident in the zone he represents in the area served or to be served by the cooperative;
2. Is in any way employed by or financially interested in a competing enterprise or a business selling electric energy, or supplies to the cooperative, or a business primarily engaged in selling electrical or plumbing appliances, fixtures or supplies to members of the cooperative; and
3. Has been an employee of the cooperative during the preceding three (3) years. Upon establishment of the fact that a trustee is holding the office in violation of any of the foregoing provisions, the Board of Trustees shall remove such

trustee from office. Nothing contained in this section shall affect in any manner whatsoever the validity of any action taken at any meeting of the Board of Trustees.

Nominations: The nominating committee elected by the members at the preceding Annual Meeting shall prepare and post at the cooperative office, at least 30 days prior to the date of the Annual Meeting at which trustees are to be elected, a list of nominations for trustees to be elected, listing separately the nominee from each trustee district to be elected at the meeting.

The committee shall include at least two candidates for each trustee to be elected to succeed the trustee whose term expires at the Annual Meeting; but any fifteen (15) or more members acting by petition not less than 15 days prior to the Annual Meeting and a list of such nominations shall be posted at the place where the list of nominations made by the committee is posted.

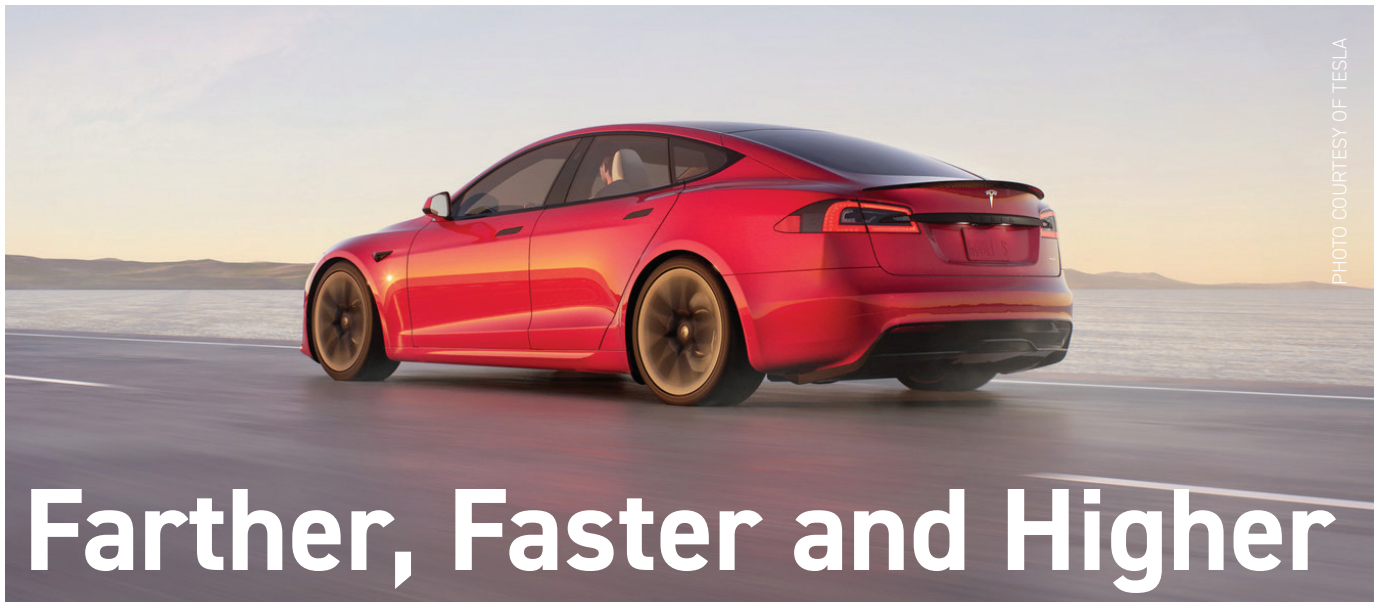
The secretary shall be responsible for mailing with the notice of the meeting, or separately but at least 10 days before the date of the meeting, a statement of the number of trustees to be elected from which zones to be elected and the names and addresses of the candidates, specifying separately the nominations made by the committee on nominations and the nominations made by petition, if any.

Nothing contained herein, however, shall prevent additional nominations from the floor of the meeting of the members. Notwithstanding anything contained in this section, failure to comply with any of the provisions of the section shall not affect in any manner whatsoever the validity of any election of trustees.

Nominating Committee: The Nominating Committee members for the 2022 Annual Meeting are as follows:

<u>Position</u>	<u>Member</u>	<u>Alternate</u>
1	Rod Savage	Steve Harris
2	Paul Benoit	John King
	John Kropp	
3	Betty Price	Jeff Essary
4	Kerry Osburn	Alfonso Gomez
5	Quentin Ray	Patrick Kircher
	Caleb Howl	
6 At Large	James Shay Southard	Floyd Jones
7 At Large	Carol Fine	Beverly Creighton
	Billie Jo Dixon	

The Nominating Committee meeting is scheduled for Tuesday, February 22, 2022 at 1 p.m. at 121 North Main Street, Portales, NM.



Farther, Faster and Higher

Electric vehicle manufacturers continue to expand their offerings

By Mike Teegarden

Electric vehicles made up about 4% of the vehicles sold in the United States in 2021. While that number is growing, the U.S. lags behind other countries, such as those in Europe, where 14% of all new cars are EVs.

As vehicle performance, range and pricing improves, U.S. buyers are being enticed to look closer at going electric. In 2020, more than 240,000 EVs were sold in the United States. That is still behind the almost 455,000 hybrid vehicles sold in that same year, according to the latest figures available from Energy.gov.

The list of manufacturers making electric vehicles continues to grow. No longer a niche item, EVs are made by most major automobile manufacturers and several new entrants to the field.

Let's examine some of the recent achievements that will help us go farther, faster and higher with EVs.

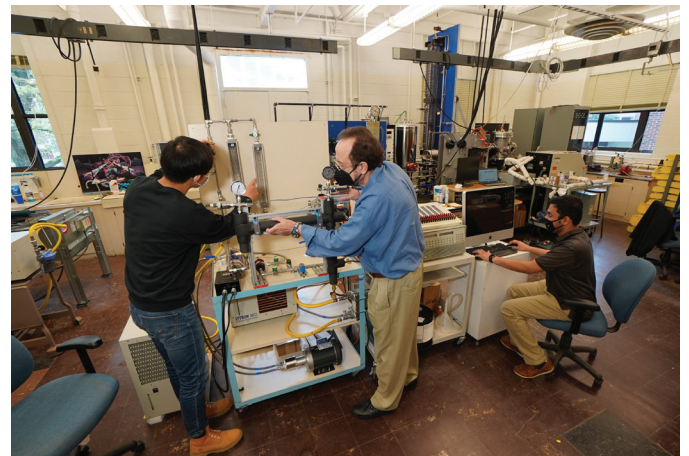
Farther

Today's EVs are a giant leap beyond early models with oodles of heavy batteries and underwhelming range.

Many of today's models can easily travel 150 to 250 miles on a charge. Higher-end models can reach 350 miles or more on a charge, easing range anxiety.

One way to increase range is to improve charging infrastructure. While most daily driving can be done on a single charge, longer trips require a prolonged stop to charge the battery. That assumes a charger can be found.

Experienced EV drivers map out longer trips before leaving home, planning where to stop



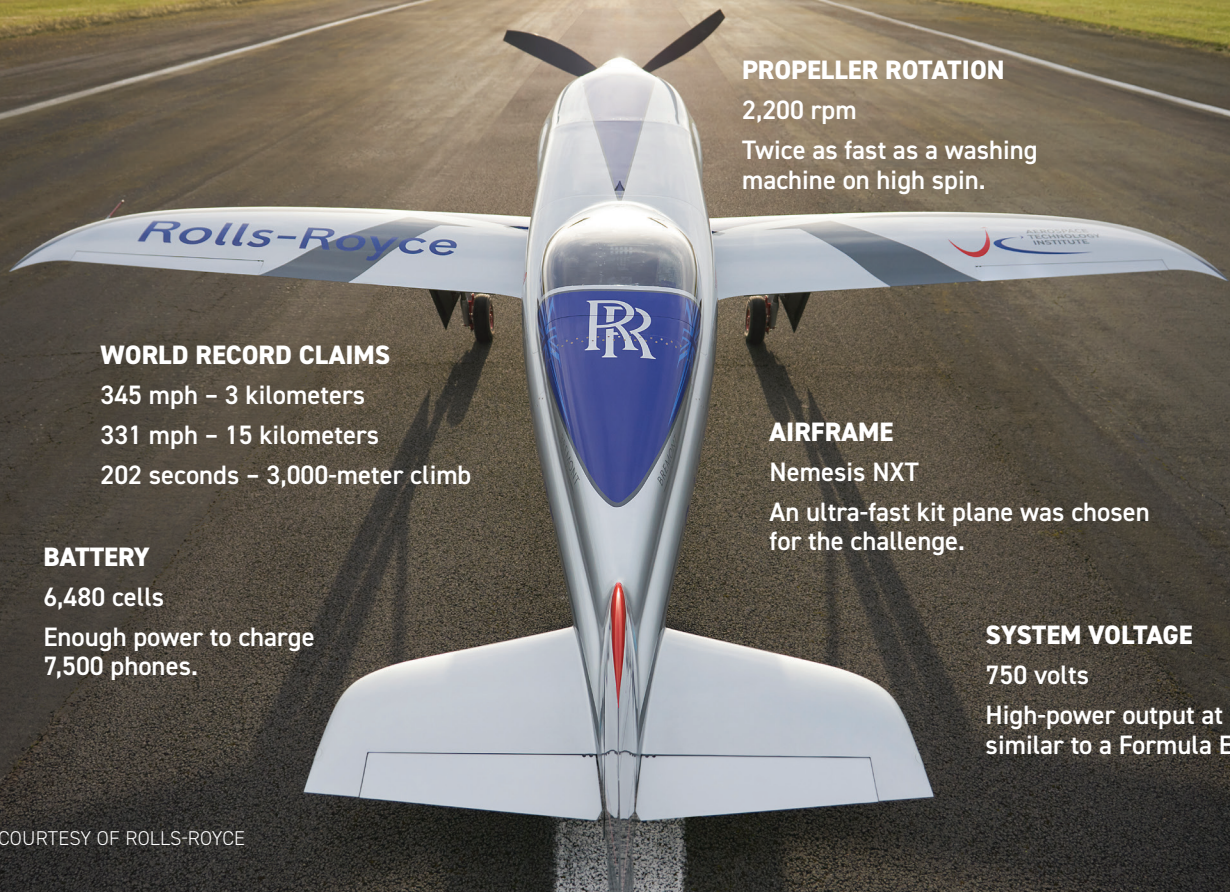
Ford researchers have successfully completed an early step with Purdue University inventing a new, patent-pending method for charging stations that could one day deliver significantly more power compared to today's leading systems. PHOTO COURTESY OF PURDUE

for charging. But more charging stations are on the way.

Under the EV Charging Action Plan announced last year by President Joe Biden, the Department of Energy and the Department of Transportation will establish a Joint Office of Energy and Transportation to

support deployment of \$7.5 billion from the Bipartisan Infrastructure Law to build out a national electric vehicle charging network.

The new office will provide technical assistance to states and help develop plans for charging station networks.



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331 mph – 15 kilometers

202 seconds – 3,000-meter climb

BATTERY

6,480 cells

Enough power to charge 7,500 phones.

AIRFRAME

Nemesis NXT

An ultra-fast kit plane was chosen for the challenge.

SYSTEM VOLTAGE

750 volts

High-power output at low weight similar to a Formula E racer.

PHOTO COURTESY OF ROLLS-ROYCE

Faster

EVs used to be reserved for energy-conscious drivers who didn't mind staying in the right-hand lane. But times have changed. Many EVs pack a lot of horsepower under the hood.

In June, a stock Tesla Model S Plaid set a world record for the fastest quarter-mile acceleration at 9.234 seconds and a top speed of 152.16 mph.

Speed on the road isn't the only time going faster is better. One drawback of EVs is the time it takes to charge the batteries.

"Today, chargers are limited in how quickly they can charge an EV's battery due to the danger of overheating," says Michael Degner, senior technical leader for Ford Research and Advanced Engineering. "Charging faster requires more current to travel through the charging cable.

The higher the current, the greater the amount of heat that has to be removed to keep the cable operational."

Ford and Purdue University researchers have patented a new charging cable technology that uses a liquid that changes to vapor as a cooling agent.

Ford says this new technology, combined with other advances, could result in EVs charging as quickly as a conventional vehicle fills up at a gas station.

Higher

Rolls-Royce—long an innovator in the aeronautical field—has laid claim to building the world's fastest all-electric aircraft, called the Spirit of Innovation.

In November 2021, the single-engine

plane recorded a top speed of 345.4 mph while covering 3 kilometers and climbing to 3,000 meters in 202 seconds.

The Spirit of Innovation is part of the Accelerating the Electrification of Flight project. Half of the project's funding is provided by the Aerospace Technology Institute, in partnership with the United Kingdom's Department for Business, Energy & Industrial Strategy and Innovate UK.

"We are delighted to have played an integral role in this landmark project," says Stjohn Youngman, managing director of Electroflight, which partnered with Rolls-Royce. "Developing the propulsion

and battery system, in collaboration with experienced program partners, has resulted in a world-class engineering capability that will lead the way toward the decarbonization of air travel.

"Our next step is to adapt this pioneering technology so it can be applied across the wider aerospace industry to deliver a more sustainable way to fly."


In time, these advancements are sure to drive more owners toward EVs as prices between internal combustion engine and electric vehicles level out, and EV range and performance improve. 



PHOTO COURTESY OF ROLLS-ROYCE

Mix it Up This Winter

Just when we think winter's cold blast will never change to spring thaw, it happens. Native New Mexicans quip that if we're tired of the current weather, give it five minutes: it will change. A warm, homecooked meal may take the bite out of ever-changing weather. Chicken and Dumplings is a favorite for just that reason.

Black History Month provides an insightful time to discover African American heritage. Collard, kale, mustard, spinach and turnip greens were a way to satisfy hunger in earlier days and are staples in African American culture. Research shows the use of greens hails from West African cuisine. While sturdy greens normally require extensive cooking, Green Cakes not only recognize our Black ancestors, but provide a quick sidekick for any meal.

If you cannot wait for the taste of summer, find a bit of solace in Summer Wannabe Lavender-Butter Jamwiches, which combine the tastes and scents of summer. For Valentines' Day, use a heart-shaped cookie cutter.

Green Cakes

- | | |
|--|---|
| 1 egg | ¼ cup crumbled feta cheese for spinach, ¼ cup grated cheddar if collard, turnip, or mustard greens are used |
| 1 cup pancake mix | |
| 3 generous handfuls fresh spinach, collard, turnip or mustard greens | ¾ to 1 cup milk |

In a large bowl, mix egg and pancake mix together with a fork. Mixture will be stiff.

Stir in selected greens and cheese. Add milk until mixture forms a stiff batter.

On a heated, buttered griddle, mound and press batter with the back of a spoon into approximately 3- to 4-inch circles.

Fry until browned on both sides. Butter and serve immediately.



Chicken and Dumplings

- | | |
|---|--|
| 3 cups raw chicken, skinless, boned and diced | ½ teaspoon pepper |
| 2 teaspoons (2 cubes) chicken bouillon | 2 tablespoons cornstarch, mixed with enough water to dissolve cornstarch |
| 1 cup carrots, peeled and diced | <i>Dumplings:</i> |
| 1 cup celery, diced | 1½ cups flour |
| 1 cup sweet mini-peppers, cut in thin wedges | 2 teaspoons baking powder |
| 1 onion, diced | 1 teaspoon baking soda |
| 7 cups water | ½ teaspoon salt |
| 2 teaspoons ground thyme | 2 tablespoons cold butter cut into small cubes |
| 1 teaspoon ground sage | 1 cup milk |
| 1½ teaspoons salt | |

Place chicken, bouillon, carrots, celery, peppers and onion in a large kettle. Cook medium heat on stovetop until chicken is barely white. Add water and stir.

Add thyme, sage, salt and pepper. Turn heat down to a low simmer. Cover and cook until vegetables are soft, approximately 1 to 2 hours.

While chicken mixture simmers, stir together flour, baking powder, baking soda and salt in a large bowl. Cut in butter with fork or pastry cutter until a crumb texture is formed.

Mix in milk to form a loose batter.

When vegetables are soft, stir chicken mixture and add dissolved cornstarch. Stir until no cornstarch lumps remain.

Drop four or five large spoonfuls of batter on top of chicken, being careful not to stir. Allow space between spoonfuls for expansion. Cover pot and continue simmering for 20 minutes. Dumplings are done when a tester inserted into the dumpling comes out clean.

To serve, spoon a dumpling into a bowl and cover with chicken mixture.



Summer Wannabe Lavender Butter Jamwiches

3¼ cups flour	1 cup sugar
1½ teaspoons baking powder	1 egg
½ teaspoon salt	2 teaspoons milk
1½ teaspoons crushed lavender pods, optional	1 tablespoon vanilla extract
2 sticks butter, softened	Fruit preserves of choice
	Powdered sugar, to dust

Line two large baking sheets with parchment paper and lightly spray with butter-flavored cooking spray.

In a small bowl, combine flour, baking powder and salt. Set aside.

In a large bowl, blend butter and lavender until smooth. Add sugar. Blend until fluffy.

Mix in egg, milk and vanilla to butter. Blend until smooth.

Mix flour mixture into butter mixture a little at a time until a stiff dough forms. Chill dough for 15 minutes.

Heat oven to 375 F.

Form a large handful of dough into a firm circle. Roll out on lightly floured surface to ¼-inch thickness. Using a pizza cutter, cut into approximately 1-inch-by-2-inch rectangle strips (or use cookie cutter) to form cookies.

Using a small spatula, place cookies on prepared baking sheets, with 1-inch spacing.

Bake for 7 minutes. Remove from oven. Carefully slide parchment paper onto heatproof counter to cool completely. Repeat steps 8 and 9 until dough is finished.

Spread desired fruit preserves onto half of cooled cookies. Press undressed cookies on top to form sandwiches. Dust with powdered sugar.

Cookies may be kept refrigerated in an airtight container for up to two weeks.



Sue Hutchison was born and raised a block from the freeway in Southern California. She had an early start with industrial, large-scale cooking before age 20. She's always been both a beach bum and at home in the kitchen, where she enjoys making new creations.



Where's the Beef?

NMSU researcher tracks cattle behavior with GPS technology

By Cassie McClure

When Derek Bailey was a child in southern Colorado, he was intrigued by cattle that climbed the steep slopes on his family's ranch while all the others grazed below.

"It was steep, mountainous terrain, so cows were down in the bottoms and overgrazed it," Bailey said. "But there were always ones that found their way up. My dad would be mad because we had to go get them. But I thought those cattle were great—adventurous, fat and happy—and grazing on a ton of grasses."

As a professor of range science at New Mexico State University's College of Agricultural, Consumer and Environmental Sciences, Bailey investigates the behavior of cows, including how to keep cows sustainably grazing throughout the country.

Since 2017, Bailey and his research team have used technologies to monitor animal welfare at the Deep Well Ranch in Yavapai County, Arizona, thanks to the support of the Harold James Family Trust.

"They're tickled that we're doing this high-tech research because it has real benefits to ranchers, and it helps with their ranch's sustainability," he said. "My whole research focuses on ways to manipulate cattle to avoid overgrazing in sensitive areas—like riparian areas and streams—and utilize the steeper, rougher country that cattle typically avoid so they can spread out and take advantage of the forage."

Bailey and his team use GPS tracking and accelerometers to monitor cattle activity and changes in normal behavior.

"Like a Fitbit for cows," he explained.

The team then combs through the data and develops algorithms and techniques to move cattle to undergrazed areas and detect



Cory Oltjen, an animal and range sciences graduate student at New Mexico State University, checks a GPS collar before placing it on a Corriente cow in the squeeze chute at Deep Well Ranch in Arizona. Ranch Manager Bob Burris works the chute. PHOTOS COURTESY OF DEREK BAILEY

animal diseases or other welfare concerns.

"Cows normally have a pattern," Bailey said. "They go in and get a drink, and then walk off and lay down. But if they stay there, they're waiting for the water, (and) they're frustrated for some reason. Since I grew up on a ranch, I know that if you see cattle gathered together next to a water tank, it's not a good sign."

Research at Deep Well Ranch has demonstrated tracking cattle with GPS receivers can identify water system failures.

"With the technology, even with wide distances, ranchers could see the same behavior with real-time tracking and software that could say something's wrong by sending a text or email message to the rancher," Bailey said.

Monitoring livestock on horseback is labor intensive and challenging, he added.

"It's hard to monitor cattle and sheep on rangelands; it's such a large distance," Bailey said. "There are lots of times you won't see them. By remotely monitoring for their health and well-being, it helps ranchers treat livestock sooner, improve productivity and lower labor costs."


In addition to his work in Arizona,



A Corriente cow, standing behind a calf, wears accelerometer ear tags at Deep Well Ranch. The livestock are part of a research project led by New Mexico State University to investigate the behavior of cows.

Bailey conducted collaborative research in Australia and found that monitoring behavior with accelerometers could detect diseases such as bovine ephemeral fever.

For Bailey, his research goes back to the individualistic nature of cows he witnessed when he was younger and the lingering question: Why would some cows have the ability to climb through more arid terrain to find food, and others wouldn't?

"Genetic selection may be a powerful tool to resolve grazing distribution concerns if we can identify and verify the genes that cause some cows to keep going and others to stay in one area," he said. 

A version of this story first published in the fall 2021 issue of ACES Magazine. To read the issue, visit <https://bit.ly/3qeSbuj>.

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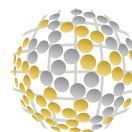
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NMSU Researcher Studies Groundwater Pumping Effects on Rivers as a Fulbright Scholar

By Carlos Andres López

New Mexico State University Professor Sam Fernald has crisscrossed the world studying watershed management. His research has taken him to Chile, Argentina and now the United Kingdom, where he currently is working as a Fulbright Scholar on a collaborative project based at Queen Mary University of London, studying the effects of groundwater pumping on rivers.

Sam, director of the New Mexico Water Resources Research Institute at NMSU, received a Fulbright Scholar award in March—his third since 2000—and relocated to London in August to work on the project. His collaborators include Professors Mark Trimmer and Kate Heppell of Queen Mary University of London and Professor Andrew Binley of Lancaster University.

The research team's work centers on examining biogeochemical, hydrologic and water-quality processes on rivers in the U.K.

"I was pretty fortunate because I found this university through Fulbright," Sam says. "Mark Trimmer and Kate Heppell were both doing different aspects of this project, but they hadn't really looked at the impacts of water management on these instream processes. I'm helping them analyze data they've collected but haven't yet analyzed."

Sam says he's bringing a systems-modeling approach to the project. He explained that

modeling of coupled human and natural systems will show how scenarios of climate change and nonpoint source pollution could negatively impact water quality. He says modeling will also guide policy for groundwater pumping and land-use management to improve water quality.

"In locations worldwide, disconnection of river and groundwater due to groundwater pumping causes increased seepage into river beds and decreased river flow," he says. "These changes could damage aquatic habitat, alter river bed bacterial activity and potentially increase methane emissions from river channels."

Sam says the group's research aims to guide the management of groundwater pumping for healthy rivers and inform appropriate adaptation to climate change. A concern with climate change is maladaptation to changing temperatures and hydrology. Sam says maladaptation creates problems in addition to the original issues being addressed.

Through his Fulbright activities, Sam represented Queen Mary University of London as an observer at the 2021 United Nations Climate Change Conference, or COP26, in Glasgow in November. As part of the Research and Independent Non-Governmental Organizations constituency at the climate talks, Sam says he learned about maladaptation and climate change impacts on the water cycle.



New Mexico State University professor Sam Sam attended the 2021 United Nations Climate Change Conference, or COP26, in Glasgow in November. PHOTO COURTESY OF FERNALD

"Climate change is causing water cycle intensification with more droughts and flooding," he says. "Adaptation should not only respond to the impacts of climate change, but avoid creating additional problems. Groundwater pumping to offset reduced surface water availability can then cause its own problems and be an example of maladaptation."

Sam, who will remain in London through February 2022, believes his research will be applicable in New Mexico.

"We're really interested in New Mexico about groundwater pumping effects on river function," Sam says. "There are important issues right now with groundwater pumping and how it affects river flow."

He notes a yearslong water-rights battle between New Mexico and Texas.

"Water scarcity is such an important issue around the world," Sam says. "In England, the total quantity is less of an issue than the timing and location of water use. Those issues are also important in New Mexico. I'm

working on system dynamics modeling to show the effects of management on these natural processes that will hopefully be useful in New Mexico."

For Sam, highlights of working in London include visiting historical sites around the Hampshire Avon catchment in southern England, where the research team collected samples. One of those sites is the Stonehenge landmark, which stands along the river's main stem. Another is the town of Christchurch, home of a 15th-century Priory and the Royalty Fishery, which sits where the river empties into the English Channel.

"The history is great and gives you a neat perspective on sustainable resource management," Sam says. "The river was a focus for the people of Stonehenge. Downstream, they've been salmon fishing, and they specifically set aside the Royalty Fishery for careful management almost 1,000 years ago. It's been a good perspective on the importance of the long-term perspective for sustainable water resources management." 

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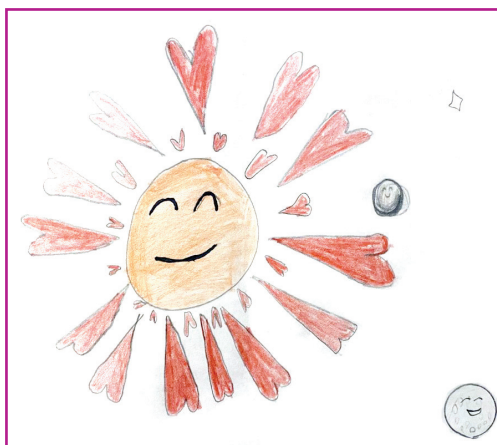
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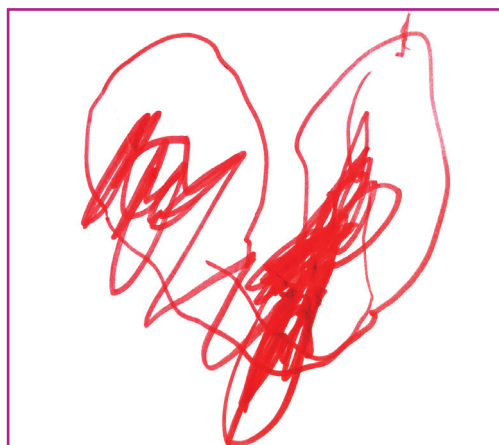
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+ IMPROVES YOUR HOME'S AIR QUALITY

Natural gas and propane furnaces generate heat by burning a mixture of fossil-fuel and air. Heat pumps don't use combustible fuel to create heat which eliminates potential exposure to dangerous combustion byproducts such as carbon monoxide.

+ SAVES MONEY COMPARED TO ELECTRIC BASEBOARD HEAT OR PROPANE FURNACES

A heat pump can transfer up to 300% more energy than it consumes, compared to a high-efficiency gas furnace's 95% rating. Because of this, electric heat pumps can also save substantially on fuel consumption.

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Tri-State is a not-for-profit power supplier to cooperatives and public power districts in Colorado, Nebraska, New Mexico and Wyoming.

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