



NEWSLETTER

of the

NATIVE PLANT SOCIETY
OF NEW MEXICO

APRIL, MAY, JUNE 2020

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The NPSNM Otero County Chapter on an exploration of the Alamo Canyon. The beautiful site, with its vistas, is on the agenda of the upcoming conference as a field trip.

Image: Elva K. Österreich

The Newsletter of the Native Plant Society of New Mexico

April-June 2020, Vol. 45 No. 1. This newsletter is published quarterly by the Native Plant Society of New Mexico (PO Box 35388, Albuquerque, NM 87176) and is free to members. The NPSNM, a nonprofit organization, is composed of professional and amateur botanists and others with an interest in the flora of New Mexico.

Original articles from the newsletter may be reprinted if attributed to the author and to this newsletter.

Views expressed are the opinions of the individual authors and not necessarily those of NPSNM.

The next submission deadline is May 25, 2020. Articles and high-resolution artwork supporting NPSNM's mission are welcomed and can be sent to the editor, Margaret Ménache, [npsnmnewsletter \[at\] gmail.com](mailto:npsnmnewsletter[at]gmail.com).

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Mission The Native Plant Society of New Mexico (NPSNM) is a non-profit organization that strives to educate the public about native plants by promoting knowledge of plant identification, ecology, and uses; fostering plant conservation and the preservation of natural habitats; supporting botanical research; and encouraging the appropriate use of native plants to conserve water, land, and wildlife.

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From the President

Jack and Martha Carter Conservation Fund Grant Awards

by Tom Stewart



It is one of the responsibilities and pleasures of our board of directors to award grants from the Jack and Martha Carter Conservation Fund to worthy projects that further at least one of our mission areas. There are twelve recipients this year.

In the north, we are contributing to the Taos Land Trust's propagation and use of native plants to create better pollinator habitat in Rio Fernando Park. The Santa Fe Botanical Garden will restore forbs and grasses to the Leonora Curtin wetland preserve and to Museum Hill. The Women's International Study Center will recreate a portion of Leonora Curtin's historic garden with native plants as low-income girls are taught about horticulture and botany.

In the south, the Friends of the Organ Mountain Desert Peaks National Monument will use our grant to continue identifying and labeling native plants growing near the visitors center. The Heart of the Gila group will analyze the effectiveness of non-chemical methods of removing invasive Tamarix from botanically sensitive areas. The Asombro Institute will involve middle school students in a native plant search to teach about evolutionary relationships.

Our research support this year goes to NMSU investigators in testing the efficacy of various native species in Chihuahuan desert restoration, and to Auburn University, which is studying how New Mexico wild onions attract pollinators that are so reluctant to fertilize cultivated onions.

Other grants are going to the DeHaven Ranch in Harding County (coaching landowners in maintaining healthy wetlands), Taos County Cooperative Weed Management Area (native vs. invasive plant coloring book), the Pecos Sunflower Storytelling Project (to finish a film about the rescue of that endangered species), and the Institute for Applied Ecology (the Forest Bound program for teenagers).

What could be more gratifying than encouraging great people in their conservation, botanical, and educational work? We deeply thank the donors who make this possible. ❖

Gila Chapter member Ron Parry receives prestigious Citizen Science Award

by Betty Spence

At the Eighth Natural History of the Gila Symposium held at Western New Mexico University February 27-29, 2020, Gila Chapter member Ronald Parry received the Citizen Science Award for his volunteer work on moths. The Citizen Science



Award recognizes an individual or organization that shows a dedication to science in support of natural resource conservation by collecting and making available data that provide better understanding of the resource.

A biochemist by profession, Ron has always been a naturalist at heart. Upon retirement in 2012 he initiated a project to document the diversity of moths in the Gila National Forest and vicinity. Ron explained: "The planet is in the midst of a human-caused mass extinction. It is important to increase public awareness of the complex and beautiful biodiversity that is being threatened. Unlike butterflies, moths are relatively neglected by amateur naturalists, since they are largely nocturnal."

The results of his efforts are shown on his website, www.southwesternmoths.com, which currently displays photographs of some 550 moth species, accompanied by data on identification, family, sex, wingspan, collection location and

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larval food plant. During the Symposium, Ron gave a presentation on how to use his website most effectively in combination with other resources to identify local moths. ❖

Conservation Corner: From Around the State and Beyond

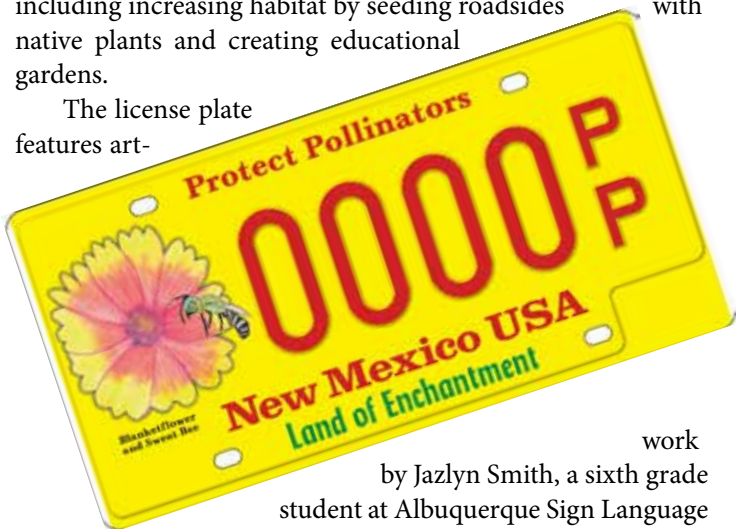
by Rachel Jankowitz, NPSNM Conservation Committee Chair

From Wild Friends NM

New Mexico's first Pollinator Protection License Plate, featuring student artwork, is almost here! Sales of the license plate will fund pollinator-friendly planting on state roads. Wild Friends students from around the state worked to pass a bill at the 2019 Legislature to create the new license plate. Wild Friends is a civics education program for grades 4-12 based at the UNM School of Law. Students studied pollinators and their critical role in sustaining both food systems and natural ecosystems, and met with legislators to advocate for SB 234.

This spring, New Mexicans will be able to buy a Pollinator Protection License Plate featuring a native plant and pollinator. Proceeds from the license plate will fund pollinator-protection activities by the New Mexico Department of Transportation, including increasing habitat by seeding roadsides with native plants and creating educational gardens.

The license plate features art-



work by Jazlyn Smith, a sixth grade student at Albuquerque Sign Language Academy. Jazlyn illustrated a blanketflower and green sweat bee to portray the relationship between native flowers and pollinators. Jazlyn's art was chosen by a panel of esteemed judges, including a bee scientist and botanist, from entries submitted by Wild Friends students from around New Mexico.

The license plate will be available in the spring. It will cost \$25 for the initial registration and \$15 for yearly renewal. Plates may be purchased online (mvd.newmexico.gov), at Motor Vehicle Division offices, or at MVD Express offices.

From the Gila Conservation Coalition

On December 20, the Department of Interior denied the NM Central Arizona Project Entity's request for an extension of the deadline for a Record of Decision on the Gila River diver-

sion, cutting off access to more than \$50 million in construction funding for the project that would harm New Mexico's last wild river and take money away from local communities with critical water supply needs.

The letter from the Department of Interior says "The slow pace of progress by the State since the passage of the [Arizona Water Settlement Act of 2004] shows a lack of urgency and priority by the State for delivering water supplies to rural communities that could be served by the project. Even today, a feasible project with necessary funding and contractual commitments has not been identified to enable

project success. After careful consideration, I regret to inform you that due to the State's failure to make progress, an extension of the deadline identified in Section 212(i) of the Act will not be granted."

Planning for a Gila River diversion under the AWSA has gone on for 15 years and wasted \$15 million without producing plans for a viable project. It's well past time to move on and focus our attention and the tens of millions of dollars in AWSA funding on priority community water projects that can bring real water security to everyone in southwest New Mexico.

Senator Martin Heinrich, Senator Tom Udall, and Governor Michelle Lujan Grisham all have supported protection of the Gila River and use of AWSA funding on cost-effective, non-diversion projects. Additionally, they opposed an extension of the AWSA deadline for the diversion. We really appreciate the hard work of our senators and Governor Lujan Grisham to protect the Gila!

From Washington, D.C.

(based on an article by Kellie Lunney, published in the E&E News, January 8, 2020)

Sens. Susan Collins (R-Maine) and Maria Cantwell (D-Wash.) want the Interior Department to create a five-year pilot pro-

gram promoting native plant species to preserve ecosystems and help reverse land and water degradation. Their new bill, S. 3150, aims to prevent and eradicate devastating invasive species through greater use of native plant material for federal land maintenance and restoration. The proposal specifies that the program would be enacted in at least two (out of 12 total) National Park Service regions.

The "Native Plant Species Pilot Program Act of 2020" calls for a study on the cost effectiveness of using native plants and directs the department to submit a report to Congress assessing the results of the pilot program within a year after it ends.

"Bringing more native plants back to our shared public lands will help us combat invasive species, provide food and shelter for local wildlife, and adapt to the looming threat of climate change," Cantwell said in a statement.

The bill would give the Department of the Interior flexibility to use nonnative plants when necessary. It would require the DOI to collaborate in carrying out the pilot program with the Bureau of Land Management's National Seed Strategy; the Department of Agriculture's Natural Resources Conservation Service Plant Materials Centers; and the Plant Conservation Alliance, a public-private partnership among 12 federal agencies and more than 350 nonfederal cooperators.

Endangered Plants Proposed Rulemaking

A public hearing was held March 30 on amendments to Rule 19.21.2 NMAC, Endangered Plant Species List and Collection Permits. The NM Energy, Minerals and Natural Resources Department proposes the amendment to remove *Mammillaria wrightii* var. *wilcoxii* from the list of state endangered plants because threats are limited and it is more common and widespread than documented at the time of listing. Illegal collections may still occur but have not been documented.

EMNRD proposes to add *Townsendia gypsophila* (Gypsum Townsend's aster), *Sclerocactus cloverae* (Clover's cactus), *Scrophularia macrantha* (Mimbres figwort), *Castilleja tomentosa* (tomentose paintbrush), *Penstemon metcalfei* (Metcalf's beardtongue), *Cymopterus spellenbergii* (Spellenberg's springparsley), and *Linum allredii* (Allred's flax) to the list of state endangered plants because of their overall rarity and documented threats. EMNRD proposes to add *Agalinis calycina* (Leoncica false-foxglove), *Hexalectris colemanii* (Coleman's coral-root), and *Castilleja ornata* (Swale paintbrush) because of their extreme rarity and threats.

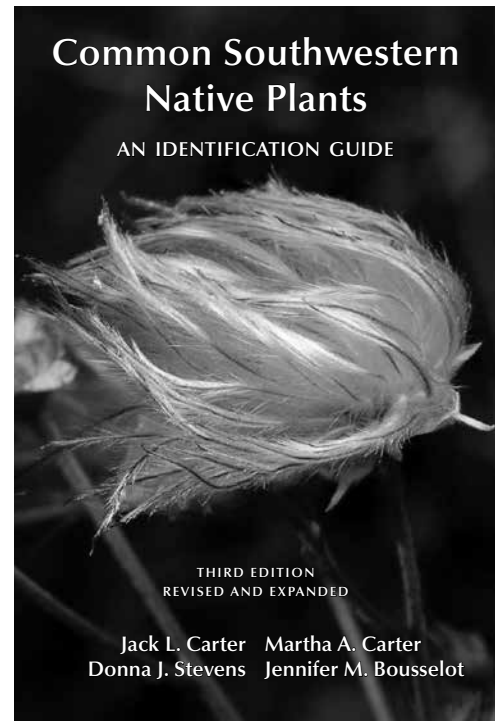
EMNRD proposes to change the botanical names of the following state listed endangered plants to reflect current taxonomy: *Coryphantha robustispina* ssp. *scheeri* replaces *Coryphantha scheeri* var. *scheerii*; *Argemone pinnatisecta* replaces *Argemone pleiacantha* ssp. *pinnatisecta*; and *Hexalectris arizonica* replaces *Hexalectris spicata*. The proposed amendment also includes a few new definitions and stylistic adjustments to the Rule. ❖

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Chapter Activities & Events

For further information on the following events, notify the contact person listed, or visit the chapter's web page: First go to www.npsnm.org; click on Chapters; then select the chapter. **Hikers** should always bring plenty of water, hat, sun protection, lunch and/or snacks, field guides, and wear sturdy shoes, suitable for rough, uneven ground.

Albuquerque

All scheduled monthly meetings are normally the first Wednesday of the month at 7:00 p.m. in the NM Museum of Natural History, 1801 Mountain Rd. NW. For more information on programs contact Jim McGrath at [sedges \[at\] swcp.com](mailto:sedges[at]swcp.com), 505/697-1287. For field trips, contact Carol Conoboy, [carolconoboy \[at\] gmail.com](mailto:carolconoboy[at]gmail.com), 505/897-3530. For meeting places indicated [A] through [H] see website. Note that several hikes have multiple meeting places. Check the website for further information.

Apr 1 Meeting. "Build It and They Will Come: Attracting Wildlife to the Garden." Wes Brittenham, Farm and Landscape Manager at Los Poblanos Historic Inn and Organic Farm.

Apr 11 Hike. Pine Flats to see Pasque Flowers. Gary Runyan and Doris Eng, trip leaders. Six miles south of Tijeras. One mile loop excursion. We will stop to eat our lunches at Sabino Canyon on the way back. Meet at 9:00 a.m. at [A]

Apr 18 Hike. Wildflowers of Socorro County, Nogal Canyon. Mary Nutt and Tim Hankins, trip leaders. Several short walks, drive through long, scenic slot canyon. Info on other meeting places on website. Meet at 8:00 a.m. at [G]

Apr 25 Hike. San Ysidro Bike Trials. Lee Regan, trip leader. About 3 mi but not strenuous. Alternative site may be selected, depending on flower bloom. Meet at 8:00 a.m. at [G]

May 2 Hike. Sandia Foothills of Placitas. Leonore Goodell, trip leader. Easy morning hike. Meet at 8:30 a.m. at [D]

May 6 Meeting. "The Use of Soil Seed Banks in Ecological Restoration." Akasha Faist. Dr. Faist will discuss the ecology of soil seed banks and illustrate how they may be effectively used in ecological restoration efforts.

May 16 Hike: Tohajiilee Hoodoo Village. George Miller, trip leader. Hiking loop is about 4.5 miles in open sun. Meet at 8:00 am at [B]

May 23 Hike: Sandia Mountains Cool Season Grasses and Spring Wildflowers on Three Gun Spring Trail. Jim McGrath, trip leader. Meet at 9:00 a.m. at [A]

May 31 Hike: Edible and Medicinal Plant Walk at Quarai. Pam McBride and Dara Saville, trip leaders. Meet at 9:00 am at [A]

Jun 3 Meeting: "Forest Changes in Northern New Mexico Mountains: Past, Present, & Climate-Driven Future" USGS research ecologist Craig Allen.

Jun 13 Hike: Tecolote Trail. Pam McBride (505-343-9472), trip leader. Meet at 8:30 a.m. at [A]

Jun 27 Hike: Hamilton Mesa, Pecos Wilderness. George Miller, trip leader. Meet at 8:00 a.m. at meeting place [G] Registration with leader required: [gomiller \[at\] WildflowersNM.com](mailto:gomiller[at]WildflowersNM.com)

El Paso

Meetings are at St. Alban's Episcopal Church, 1810 Elm Street (Elm at Wheeling, off Piedras). Programs are second Thursdays at 7:00 p.m. (coffee social at 6:30) unless otherwise noted. All events free unless a fee is specified. Nonmembers always welcome. Info: John White, 575/640-7555; [jmwhite \[at\] utep.edu](mailto:jmwhite[at]utep.edu).

Gila (Silver City)

All programs are free and open to the public. Meetings are held on third Fridays from October to May (except December) at 7:00 p.m. at WNMU's Harlan Hall, Rm. 219. Refreshments follow the program. For more information, go to www.gilanps.org/events/programs/. Field trips are third Sundays (April to September). Each field trip will be to a different location in order to explore the diversity of our native plants. Meet at 8:00 a.m. at the south parking lot next to the Fine Arts Center Theatre on the WNMU campus for carpooling. For more information check our website at www.gilanps.org/events/field-trips/.

Apr 17 Meeting. WNMU professor and entomologist Manda Clair Jost will speak on insect conservation. Dr. Jost is currently studying the evolution of host choice in parasitic spider-wasps –such as the tarantula hawk, New Mexico's official state insect.

Apr 19 Field trip. Pitchfork Ranch. Owners AT and Lucinda Cole have worked hard to restore the hydrology of this beautiful spot. Since it is at a lower elevation than Silver City, spring vegetation there should have a head-start.

May 15 Meeting. "Diversity of form, function, and habitat in the Cactaceae, with special reference to New Mexican cacti." Botanist Ed Leuck will discuss the family Cactaceae: characteristics, morphological and physiological adaptations, and geographical distribution. Dr. Leuck is currently involved in a long-term study of a population of *Peniocereus greggii* (Arizona Queen of the Night) near Rodeo, New Mexico.

May 17 Field trip. Destination to be determined.

Jun 21 Field trip. Destination to be determined.

Las Cruces

Meetings are second or third Wednesdays (unless otherwise noted) at 7:00 p.m., in the NMSU Herbarium, at the Biology Annex on the NMSU campus. Field Trips are usually on the Sundays following the Wednesday meeting; most last into the afternoon. Bring lunch/snack, water, sun protection, and wear good walking shoes. Please check each listing for when and where to meet. Participants must sign a release of liability form. Children must be accompanied by their parents. Programs and field trips are free, unless we are going a fee area; non-members are always welcome. Contact: Carolyn Gressitt, 575/523-8413.

Leave a message so we can get back to you.

Apr 8 Meeting. Rachel Gioannini, NMSU Assistant Professor of Horticulture, Department of Plant and Environmental Sciences. "Designing a Botanic Garden for Research and Aesthetics." How does one design a garden that serves two masters, Science and Art? Rachel will discuss the process of creating a space that is beautiful and meets the rigors of scientific research parameters.

Apr 12 Field Trip. Hike east side of Baylor Canyon Trail from east side of Organ Mountains via Aguirre Springs parking lots. \$5/car fee area. Moderate walk on trail with slopes and minor scrambling. About 4-mile round trip walk. Meet 8:00 a.m. Parking lot east of Telshor 12 Cinema by former K-Mart lot for carpooling.

May 13 Meeting. Trystan Harpold, 2019 NMSU Graduate, presents "Natives vs. Exotics: Reducing non-native plant species in urban landscapes of Southern New Mexico."

May 17 Field Trip. Valles Canyon, Sierra de las Uvas. Moderately easy 4-mile round trip walk to an area with petroglyphs, a few gentle slopes with very minor scrambling, lasting into mid-afternoon. Meet 8:00 a.m. at Fairacres Post Office, 3800 West Picacho (Highway 70), for carpooling.

Jun 10 Meeting. Marcy Scott will present "Hummingbird Flowers of Southern New Mexico." She will cover the hummingbird species that breed in or travel through the mountains and deserts of southern New Mexico, and feature the spectacular native wildflowers that have co-evolved with them.

Jun 14 Field Trip. Hillsboro Peak Trail, Black Range, from parking lot off Emory Pass, just under 2 hours driving time from Las Cruces. Moderately easy trail walk at 8300-9500 feet, approximately 4-mile round trip with flowers & spectacular views. We will not go as far as Hillsboro Peak. Meet 8:00 a.m. Parking lot east of Telshor 12 Cinema by former K-Mart lot, for carpooling.

Otero (Alamogordo)

For workshop and field trip information, contact Elva Osterreich, echoofthedesert [at] gmail.com, 575/443-4408, or Jennifer Gruger, npsnmotero [at] gmail.com, 505/710-2924. More information will be available on the website or by contacting Elva or Jen

Apr 18 Annual Native Plant Sale in Alamogordo at Oregon and 10th Street, 8:00 a.m.-1:00 p.m. All help is appreciated.

Apr 25 Alamogordo Community Earth Day Fair at the Alameda Park Zoo. Otero Chapter booth, 9:00 a.m.-4:00 p.m. The 25th annual Earth Day celebration is one of Alamogordo's most popular events and the Otero Chapter has an information table with books and plants for sale. Help is needed and appreciated.

May 15 Field trip. White Sands Missile Range adventure. Destination TBA. Limited access area. We will be escorted by WSMR personnel. We must submit the full name of each attendee in advance so please RSVP by May 1. Vehicles must have a high clearance and a full tank of gas. All participants should bring lunch, PLENTY of water, sunscreen, good hiking shoes, and water (yes, it's listed twice!)

Jun 20 Field trip. Bridal Veil Falls. A section of the repurposed Rails-to-Trails that connects to two other trails in the area. This trail rolls down mostly doubletrack to the waterfall. There are one or two short, moderate climbs. The trail includes a railroad trestle over the stream as well as a couple of cattle gates. Meet 9:00 a.m. junction Hwy 82/N. Florida Ave. to carpool. Bring lunch.

Santa Fe

Meetings are third Wednesdays at 6:30 p.m. at Christ Lutheran Church, 1701 Arroyo Chamiso (in the triangle of Old Pecos Trail, St Michael's Dr., and Arroyo Chamiso). For more information, check the NPSNM website. Meetings and talks are free and open to all.

Taos

Meetings are third Wednesdays at 6:00 p.m. in Kit Carson Electric Cooperative boardroom, 118 Cruz Alta Rd. Free, open to the public. Videotaped. Videos of past meetings are at <https://tinyurl.com/TaosNPSvideos>. Check NPSNM website or Facebook for updates, or phone Jan Martenson at 575/751-0511.

Apr 15 Meeting. Dr. Joseph Morton of Santa Fe will speak on "The Mycorrhizal Symbiosis: Essential To All Life On Earth" This is the second of his two-part series on Fungi.

May 20 Meeting. TBA

May 23 Field Trip. Trees of Taos, SMU/Fort Burgwin campus, led by Dr. John Ubelaker. Meet on the campus off Hwy 518 at 8:30 a.m. Drive into the first entrance, bear right, and park by the library. This will be an easy hike along the stream. Dominant and common plants of the Transition zone (6,000 to 8,000 feet), characterized by several dominant plants and some invasive species, will be examined.

Jun 17 Meeting Tiffany Pegoda, owner of Zero Waste in Los Alamos, will speak on "Vermiculture: Composting with Worms that Eat Your Garbage."

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The Making of a Conference

by Kathleen Hall, Albuquerque Chapter

"We abuse land because we see it as a commodity belonging to us. When we see land as a community to which we belong, we may begin to use it with love and respect."

Aldo Leopold



The Otero Chapter visiting a Dog Canyon garden and checking out some native tobacco growing there. Image: Elva K. Österreich

When the members of the Otero Chapter of the Native Plant Society gathered to discuss the conference they will be hosting August 28-30 they were inspired by Aldo Leopold's meditation on land as community. Their land community of over 11,000 years of documented human interaction spreads out from the green slopes of the Sacramento Mountains, crosses red clay river valleys and Chihuahuan Desert flats, and runs from the black volcanic flow of Valley of Fires to White Sands National Monument. Otero County's land includes some of the most diverse topography in New Mexico. How could they best introduce this complex and culturally rich community to the membership of the NPS?

Start at the beginning. The program begins Friday morning with the keynote speaker, Pamela McBride, an ethnobotanist who has studied the relationship of the area's people and its plants from early Archaic times through Mogollon settlement. Pam has analyzed materials from sites





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covering a span of 8,000 years and will acquaint conference attendees with the earliest evidence of plant uses.

Other speakers will continue the timeline of the land's history, revealing the development of water management for farming, the use of plants and their images in ritual, and the ways plants have enhanced health, enabled artistic expression, and enriched the cultures of communities.

By Saturday afternoon speaker topics will be looking from the present into the future—how to move the viewpoint away from land-as-commodity; what some land stewards and researchers are doing to restore the relationship of community between land and people using modern grassland management and restoration ecology concepts and practices.

Meanwhile, workshops and tours. Conference attendees will have a wide variety of places to go, opportunities to get feet on the ground and hands in the mud, or simply absorb insights into how people interact with the native plants of Otero's land. Visit an archaeological dig. Make a pot. Learn plant medicine. Harvest elderberries. Climb a mountain. These activities offer NPS members an opportunity to participate in the landscape and its life.

The members of Otero Chapter have drawn upon a rich

Continued page 14

Native Plant Society of New Mexico
2020 Annual Conference
People and Native Plants
A Journey Through Time

Friday,
August 28
 to
 Sunday,
August 30



Alamogordo
 Tularosa
 Otero
 County

Presentations, field trips and workshops over the three-day conference will support our theme of “A Journey Through Time” by highlighting the rich history of both the people and the native plants throughout the Tularosa Basin and surrounding ranges. Speakers, workshops, and field trips will be presented in chronological order to reveal the interwoven story of people and native plants in this fragile and fascinating Chihuahuan Desert region.

We look forward to having you join us on our Journey Through Time!

Conference Location: Registration and presentations will take place in the Sgt. Willie Estrada Memorial Civic Center in Alamogordo, NM.

Accommodations: **Magnuson by Desert Aire.** 1021 S White Sands Blvd, Alamogordo, NM 88310. 575-437-2110. Special Advance Rate to all State Conference attendees. Reservations must be made by August 13 to guarantee these rates. All rates are plus tax: Queen \$65.00, King \$69.50, Double Queen \$79.89. Guests must declare all pets at check-in (\$15/pet; 2 pets). Full hot breakfast, large outdoor pool, WIFI, room microwave and fridge. Promo code “State Conference 2020”.

Holiday Inn Express and Suites. 100 Kerry Ave, Alamogordo, NM 88310. 575-434-9773 Special rate of \$149.00 plus taxes per night. Two Queen beds or one King bed. Hot/cold breakfast, swimming pool, hot tub, exercise room and room work area, Keurig coffee maker, fridge and microwave. Promo code “State Conference 2020”.

A silent auction has become a traditional highlight of each year's NPSNM state conference. The Otero chapter invites you to donate items that might be of interest to other members.

To offer an item, please contact
 Jane Huisingh — [jhuisingh \[at\] gmail.com](mailto:jhuisingh@gmail.com)

2020 Annual Conference Program—Native Plant Society of New Mexico Otero Chapter, Alamogordo, New Mexico

Thursday, August 27

1:30 pm–3:30 pm NPSNM Board Meeting, Magnuson Hotel and Suites, 1021 S White Sands Blvd, Alamogordo

Friday, August 28

7:30 am–4:00 pm Check-in/Registration, Sergeant Willie Estrada Memorial Civic Center (SWEMCC)

8:00 am–4:00 pm Silent Auction/Vendors open

9:00 am–9:30 am **Welcome and Opening Remarks**, Jennifer Gruger, president of the Otero County chapter

9:30 am–10:30 am **Evidence for plant use from Archaic traditions (~ 6,000 BC–200 AD) through the El Paso phase (AD 1275-1450)**, Key Note Speaker Pam McBride

10:30 am–10:45 am Break

JORNADA MOGOLLON PERIOD

10:45 am–11:30 am **Prehistoric evidence of native plant utilization and landscape modification in Tularosa Canyon**, David Greenwald (Companion FT #E on Sunday)

11:30 am–12:15 pm **People and environment of the Three Rivers culture and their record in stone**, Joan Price (Companion FT #F on Sunday)

12:15 pm–1:30 pm Lunch

MESCALERO APACHE PERIOD

1:30 pm–2:15 pm **Tribal historic preservation – Uses of plants**, Holly Houghten

2:15 pm–2:30 pm Break

MEXICAN SETTLERS PERIOD

2:30 pm–3:15 pm **Historic and modern uses of native plants**, Alex Mares

3:15 pm–4:15 pm **Panel Discussion – What is a “Native Plant”?**

5:00 pm–7:00 pm Reception - Otero Artspace (previously the Women's Club of Alamogordo, an historical building in Alamogordo at 12th and Indiana)

7:00 pm Dinner on your own

Saturday, August 29

SATURDAY MORNING

Field Trips and Workshops, 8:00 am–noon, unless otherwise indicated. Items marked with an asterisk (*) indicate a companion workshop or field trip during another part of the conference. Meeting locations and information on workshop fees will be provided later. Fees will be payable at registration.

WS1 **Using Native Plants in home landscaping—notes from a rookie** Leader: LeAnne Roberts
Limit: 15

WS2 ***Elderberry uses: Eating, cooking, medicinal and dyes** Leader: Jane Huisingh
Companion FT #C on Sunday. Location: Pending. Limit: 20.

- WS3 **Apache uses of plants in food preparation** Leader: TBD
Location: SWEMCC **Limit:** 15.
- WS4 **Nature's Pharmacy—identification of native plants and their uses** Leader: Mimi Kamp
 (Companion to FT #B on Sunday) **Location:** SWEMCC **Limit:** 20.
- WS5 **Sunflower workshop** Leaders: **Dr. Richard Spellenberg and Dr. Timothy Lowrey**
Location: SWEMCC. **Limit:** 20.
- WS6 **Traditional pottery of the Ysleta del sur Pueblo** Leader: **Richard Hernandez**
 Learn about uses, examples, and how to make a simple pot. Each participant will create their own pot. **Location:**
 Clay Time, 700 East First Street, Suite 756. **Limit:** 15.
- FT7 **Tularosa Basin Museum of History private tour and optional self-guided walking tour of early homes in Alamogordo** Leader: **Debra Lewandowski**
 A historical Pueblo Revival building. Exhibits range from prehistoric to the Space Race. Helpful in understanding the geography, people, and development of the area. **Location:** 1004 N. White Sands Blvd. **Limit:** 20.
- FT8 **Tularosa acequia system tour** Leaders: **Robert Baca**, Mayordomo, **Robert Danke**, Tularosa Ditch Corp. Chairman, **Diana Chantalle**, herbalist
 Historic 49 blocks of Tularosa and surrounding area. Driving/walking tour led by the mayordomo of the longest actively utilized acequia (open ditch irrigation system) in the southwest. **Meeting location:** TBD. **Limit:** 20.
- FT9 **Historical trees of Tularosa** Leader: **Elva Osterreich**
 Driving and walking in Tularosa and surrounding area. Look not only at the types of trees in the area but also some of the oral history and tales surrounding them, including ghost stories and more. **Meeting location:** TBD. **Limit:** 20.
- FT10 **Alamo Canyon hike and plant identification** Leader: **Ken Henderson**
 High desert vegetation. Difficulty intermediate. See website for additional information. **Location:** Alamo Canyon, just east of Alamogordo. **Limit:** 20.
- FT11 **People and Plants, wisdom of an Apache medicine man** Leader: **Joey Padilla** **Limit:** 20.

SATURDAY AFTERNOON

12:30 pm–4:00 pm Silent Auction/Vendors open
 Noon–1:30 pm Lunch – SWEMCC

TERRITORIAL PERIOD

1:30 pm–2:15 pm **Farmers, ranchers and ditch wars**, presenter TBA

EARLY LOGGING AND RAILROAD PERIOD

2:15 pm–3:00 pm **The effect of logging on the plant ecosystem and early railroads**, Jessie Willet

MODERN ERA

3:00 pm–3:45 pm **Experimental range, range grasses, impact of grazing and shrub encroachment**, Brandon Bestelmeyer
 3:45pm–4:00 pm Break - Silent Auction closes at 4:00 pm
 4:00 pm–4:50 pm **Weed ecology and restoration ecology**, Akasha Faist and Erik Lenhoff
 4:50 pm–5:00 pm **Closing Remarks**, Jennifer Gruger
 5:00 pm–5:30 pm Pick up Silent Auction Items
 6:30 pm **Evening Banquet** – SWEMCC
 Presentation of Jack and Martha Carter Native Plant Conservation Award Recipient and a visit from a Special Guest

Sunday, August 30

Field Trips start 8:00 am unless otherwise indicated. Many of the field trips on Sunday range farther afield and you may want to pack a lunch. Some of them might be on your route home. Items marked with an asterisk (*) indicate a companion workshop or field trip during another part of the conference. Meeting locations and information on workshop fees will be provided later. Fees will be payable at registration.

- A White Sands National Park** **Leader: David Bustos**, park biologist
Walk to a behind-the-scenes area that is not normally accessed by the public, look at the survival techniques of the cottonwood trees, and visit some of the interdunal areas to learn how they work. Ideal for those headed south toward El Paso or Las Cruces. **Limit: 20.**
- B *Identification and responsible harvest of herbs** **Leader: Mimi Kamp**
(Companion to WS4) **Location:** Specific meeting point TBD closer to the event based on what's growing where but Cloudcroft/High Rolls area. **Limit: 20.**
- C *Elderberry hunting skills** **Leader: Jane Huisingh**
Meeting Location: Cloudcroft, specific spot pending (Companion workshop WS2) **Limit: 20.**
- D Health benefits of being in nature: Meditation practices to increase awareness** **Leader: LeAnne Roberts**
Location: LeAnne and Ron Roberts home at 34 High Sierra Drive in Alamogordo **Limit 20.**
- E *Creekside Village tour** **Leader: David Greenwald**
Observe the effects prehistoric and historic land-use activities have had on the landscape. Discuss what native plants were exploited by the Jornada Mogollon who occupied the canyon. **Hike:** moderate/difficult (Companion presentation at 10:45 am on Friday.) **Limit: 20.**
- F *Three Rivers Petroglyph Site tour with plant ID** **Leader: Joan Price**
The petroglyphs, dating back to ~900–1400 AD, were created by Jornada Mogollon people. More than 21,000 glyphs of birds, humans, animals, fish, insects plants, and geometric and abstract designs are scattered over 50 acres of New Mexico's northern Chihuahuan Desert. **Hike:** easy to moderate, the trail is 1/2 mile. **Location:** 17 miles north of Tularosa and 28 miles south of Carrizozo on U.S. 54. (Companion presentation at 11:30 on Friday.) Ideal for those headed north to Albuquerque or Santa Fe. **Limit: 20.**
- G Life zones of the Sacramento Mountains** **Leader: William Herndon**
Driving tour up La Borcita Canyon Road that will stop at five different life zones. Explore plants, animals and birds at each zone. **Difficulty:** easy. **Limit: 20.**
- H Oliver Lee State Park** **Leader: Katherine German**, park ranger/manager.
Set against the Sacramento Mountains, this park features Frenchy's cabin, an historic ranch house, and riparian trail (hopefully with dragon flies). We will visit a unique oasis of water pools under the cottonwood trees of Dog Canyon. The 620-acre park is named after a colorful and influential character, Oliver Lee, from the turn of the 20th century. Ideal for those headed to El Paso or Las Cruces. **Limit: 20.**
- I Osha Trail hike and identification of plants** **Leader: Esther Fyock**
The easy-to-follow 2.2 mile loop passes through high mountain vegetative and geological environments typical of the Cloudcroft vicinity and other nearby areas at similar elevations. Douglas-fir, oak, and aspen abound opening up into meadows of vast variety. **Hike:** Moderate difficulty. **Limit: 20.**
- J Aguirre Springs Pine Tree Trail** **Leader: TBA**
The four-mile trail offers spectacular views of the Tularosa Basin, and includes streams, grassy areas, a variety of shrubs and trees and involves the transition zone from the Chihuahuan Desert to the pinon pine/juniper belt including cacti, yucca, sotol, mahogany and gray oak. **Limit: 20.**

"The last word in ignorance is the man who says of an animal or plant, "What good is it?" If the land mechanism as a whole is good, then every part is good, whether we understand it or not. If the biota, in the course of aeons, has built something we like but do not understand, then who but a fool would discard seemingly useless parts? To keep every cog and wheel is the first precaution of intelligent tinkering." – Aldo Leopold

**People and Native Plants A Journey Through Time
2020 NPSNM STATE CONFERENCE REGISTRATION FORM**

Please send a *separate* form for each attendee OR register individually and pay online at www.npsnm.org

Name	NPSNM Chapter		
Address	City	State	Zip
E-mail Address	Home Phone	Mobile Phone	

Included in conference fee: Snacks during conference breaks, Friday & Saturday lunches, Friday evening reception (appetizers & drinks).

Meals are buffet style with meat and vegetarian choices.

The Saturday evening banquet includes two drinks and is an additional \$30.

Please list any special dietary needs _____

Field Trip/Workshop Preferences (Please register early; space is limited.)

Use numbers/letters listed for field trips/workshops:

Saturday 8/29 8:00 am–noon 1st Choice _____ 2nd Choice _____ 3rd Choice _____

Sunday 8/30 starts 8 am 1st Choice _____ 2nd Choice _____ 3rd Choice _____

Registration Date	NPSNM Member	Non-Member
On or Before August 1	\$100	\$130
*After August 1	\$115	\$145
Saturday banquet including 2 drinks	\$30	\$30

TOTAL ENCLOSED \$ _____

* Registrations received after August 21 will not include meals

**Any questions, contact Jennifer Gruger 505-710-2924 or npsnmotero@gmail.com
Send form(s) with check (payable to NPSNM/Otero Chapter) to:
Jen Gruger
712 2nd Street
Tularosa, NM 88352**

“People and Environment of the Three Rivers Culture and Their Record in Stone”

Joan Price will present a talk (Friday 11:30 am) and lead a field trip (Sunday FT #F) to the Three Rivers Petroglyph site, a rockscape of indigenous art set in the desert north of Tularosa. The elegant petroglyph pictured on the right features a straight stem with four tiers of mirror triangles topped with a pair of eyes within a oval frame crowned with small triangles that may be rays of light. A Hopi elder visiting Three Rivers Petroglyph Site in 2005 identified this as a sunflower. Price has documented interpretations of several contemporary Native Americans who have visited the vast collection of images that they consider an ancestral sacred landscape. She is a writer, photographer and educator, a Research Associate with Jornada Research Institute, and a scholar of the site for more than 25 years.



Image: Margaret Berrier

Making of a Conference, *continued from page 8*

community of expertise to build their conference program. The Jornada Research Institute, based in Tularosa, studies the archaeological, ethnohistoric, historic and natural resources of the northern Chihuahuan Desert. Its researchers and supporters include friends and members of NPS, several of whom will be presenting and leading activities during the conference. Other resources include the Mescalero Apache Reservation's researchers and preservationists, the Pueblo artisans of Ysleta del sur Pueblo, and the people who hike, explore, study, and support the many natural resources of the Northern Chihuahuan Desert.

Want to enjoy a more immersive conference experience? Join a committee. Help the small but energetic Otero Chapter members greet, set up, staff tables or answer questions. Become or recruit a sponsor.

To help on committees or with sponsorships please contact Jennifer Gruger [jengruger \[at\] gmail.com](mailto:jengruger@gmail.com).

Donate silent auction items by contacting Jane Huisingh [jhuisingh8 \[at\] gmail.com](mailto:jhuisingh8@gmail.com). ❖



Prickly poppy in Alamo Canyon (FT 10). Image: Elva K. Österreich

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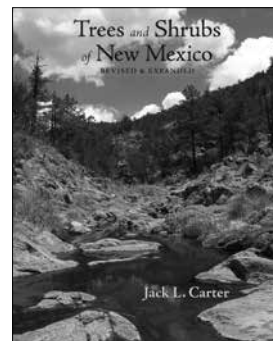
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Available only through the Gila Native Plant Society:

Trees and Shrubs of New Mexico

by Jack L. Carter

2012 edition, fully revised and expanded



**Order your copy
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While there, browse through our excellent selection of guides for plant and pollinator identification, native-plant landscaping, aridland gardening, and more!



The Gila Native Plant Society is committed to promoting the education, research, and appreciation of the native flora of the southwest; encouraging the preservation of rare and endangered plant species; and supporting the use of suitable native plants in landscaping.

Membership in the NPSNM is open to anyone supporting our goals of promoting a greater appreciation of native plants and their environment and the preservation of endangered species. We encourage the use of suitable native plants in landscaping to preserve our state's unique character and as a water conservation measure. Members benefit from chapter meetings, field trips, publications, plant and seed exchanges, and educational forums. The Society has also produced a New Mexico wildflower poster by artist Niki Threlkeld and a cactus poster designed by Lisa Mandelkern. These can be ordered from our poster chair—check out <http://www.npsnm.org/posters/>



Wildflower poster: 22"×34", \$8 (nonmembers, \$10)

Cactus poster: 18"×24", \$5 (nonmembers, \$8)

Contributions to the Jack & Martha Carter Conservation Fund

The generous financial support from so many NPSNM members and friends of the flora of New Mexico will make it possible for the Board to approve more funding for workshops throughout the state, additional basic research on a variety of critical plant taxa, continued support for the state's major herbaria, and hopefully for the development and support of more early education programs from K-12 in New Mexico schools.

Use the form provided below, or contribute through PayPal on the website, www.npsnm.org. Every contributed dollar is being used to protect the flora of New Mexico well into the future.

~Jack & Martha Carter

NPSNM Membership Application

Name(s) _____

Address _____

City _____ **State** _____ **Zip** _____

Telephone _____

E-Mail/Fax _____

*I (we) wish to affiliate with the checked chapter:
(Please check only one)*

- Albuquerque
- El Paso, TX
- Gila (Silver City)
- Las Cruces
- Otero (Alamogordo)
- Santa Fe
- Taos
- No affiliation
- I am interested in forming a new chapter in:*

Annual Dues:

- Individual \$ 30
- Family 45
- Friend of the Society 60
- Sponsor 125
- Patron 250
- Life Member 1,000
- Teacher (PK-12)/Youth (thru 26 yrs) 20

Additional Contribution: \$ _____

Total: \$ _____

Remember that 25% of contributions are returned annually to the individual chapters!

**Make your check payable to
Native Plant Society of New Mexico
and send to**

**Membership Secretary
PO Box 35388, Albuquerque NM 87176**

JACK & MARTHA CARTER CONSERVATION FUND DONATION FORM

Yes! I would like to help New Mexico's flora! Enclosed is my contribution of \$ _____

Name(s) _____

Address _____

City _____ State _____ Zip _____

Phone _____ E-Mail _____

All contributions are tax-deductible as provided under the law.

Make your check payable to: NPSNM—Carter Endowment Fund

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Registration and Program Details Inside!