



# NEWSLETTER

of the

## NATIVE PLANT SOCIETY OF NEW MEXICO

APRIL, MAY, JUNE 2013

VOL. XXXVIII No. 2

### Annual Conference in Albuquerque—August 8–11, 2013 “From Here to Terra Incognita: Ecosystems in a Changing Climate”



Members stop for lunch in San Lorenzo Canyon, a 2013 State Conference field trip location.

To New Mexicans living elsewhere in our beautiful state, the word *Albuquerque* may be synonymous with malls, sprawl, and the rival sports teams. Those are present, to be sure, but in many ways our largest city is also the ideal location for the 2013 annual conference of the Native Plant Society of New Mexico, and a generally

worthwhile destination for native plant investigators and aficionados alike.

The urban environment offers the New Mexico Museum of Natural History, the Rio Grande Botanic Garden/Biopark, and the extensive herbarium collections of UNM. Yet these are not as special as Albuquerque's geographic setting and integration with nature.

On one side of town one can begin a hike into a wilderness area and experience five vegetation zones, and on the other side of town stroll among petroglyph-strewn lava flows and economy-sized volcanoes, passing the bosque of the Rio Grande in between. A look at Albuquerque's position on any map of geographic, geologic, or floristic regions shows a place where the Great Plains, Chihuahuan Desert,

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*See full details on pages 9–14. Registration form on page 15.*

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## From the President

by *Renée West*

At its semi-annual meeting in early February, the Board of Directors reviewed the proposals for grants. We are pleased to fund three grant proposals, as well as our annual grants to academic herbaria around the state. The funded projects are:



- Stepping Out for Science Inquiry (Middle School Schoolyard Science). Stephanie Bestelmeyer, Asombro Institute for Science Education.
- The Importance of Competition in Mediating Plant Responses to Climate Change—Induced Precipitation Changes in the Chihuahuan Desert. Robert Shriver, Duke University.
- Investigating the Phylogenetic and Biogeographic Relationships of *Spiranthes magnicamporum* (Orchidaceae) in New Mexico. Matthew C. Pace, PhD student, University of Wisconsin–Madison.

We look forward to seeing their progress reports at the end of the year.

I am so pleased to see the title for the upcoming state annual meeting this August: “From Here to Terra Incognita: Ecosystems and a Changing Climate.” This is such an important topic for all of us and for the land we rely upon. I’m glad to see this chance for the Society to start thinking about the serious problems that face our ecosystems in the present and the future. The Albuquerque chapter has put together a diverse and impressive set of speakers, field trips, and gathering opportunities.

Among the broadly interdisciplinary group of speakers will be Craig Allen. In the past year Allen, a highly respected researcher, has become the go-to guy for journalists with questions on what’s happening to forests, and has been interviewed on national television. He will be coming to us directly from attending the Ecological Society of America meeting in Minneapolis. On Saturday afternoon we will hear from Allen on New Mexico forests.

David Dunn will talk about the acoustic ecology of bark beetles and climate impact on Friday. A sound designer, Dunn will present “one of the most unexpectedly fascinating talks you ever heard,” according to those who have heard him speak on this topic. Saturday night’s banquet speaker will be Eric Blinman, director of the New Mexico Office of Archeological Studies. His talk on 2,000 years of climate change in the Southwest will give us yet another interesting perspective. There are also four workshops (on rare plants, gourmet cooking of prickly pear cacti, wildlife habitat gardening, and challenges of seed propagation) and 21 diverse

field trips, including a visit to the Los Lunas silvery minnow refugium.

The full list of speakers and their topics, field trips, and gatherings is contained in this issue, along with registration information. I look forward to seeing you at this important and interesting meeting.

It’s always nice to see native plants featured in the mainstream media. The Spring 2013 Home & Garden issue of *Focus on Carlsbad* magazine includes an article called “Xeriscaping: Natural Beauty in an Arid Land.” The piece focuses mainly on planting native trees, succulents, wildflowers, and shrubs, as well as using native plants for low-water lawns. The benefits to native wildlife are also discussed, and local people who use native plants are interviewed. The issue features beautiful native plant photos, including a claret cup cactus right there on the cover. ❖

## New Policies Presented for Review

by *Renée West*

At its February meeting, the Board of Directors proposed two changes to the Society’s Policies in Effect. These are presented here for review and comment by members. If you have comments or questions, please contact president Renée West.

**Procedures for Email Voting by the Board** In the Policies Governing Conduct of Board Meetings, the current policy on Interim Voting states:

From time to time, pressing business may require a vote of the Board between scheduled meetings. The President may call for an interim vote of the Board via post, email, or telephone. The entire Board shall be given opportunity to return a vote and authorizing signature by postal service. The result of an interim vote will be read into the minutes of the next scheduled meeting.

The revised policy will remove the language “authorizing signature by postal service” and will add that a quorum must respond.

**Holding Two Board Positions At Once** It was established that there is nothing in the by-laws or policies preventing anyone from holding two Board positions at once. The Board has voted that no director can be both a chapter representative and an officer of the Board at the same time and that this should be stated in the Policies in Effect. ❖

## Conservation Volunteers Looking for a Leader

Volunteers are lining up to help the Native Plant Society of New Mexico by participating in the Conservation Committee. But the committee needs a new Chair! The Chair is an important position, designed to keep the Board and membership informed on issues affecting native plants and their habitat. The Chair looks for ways to promote native plant uses and appreciation. The Chair can write newsletter articles, or work with the committee to write them. Reports to the Board are requested twice a year, for both Board meetings, but more are always welcome.

There certainly is no shortage of issues to work on affecting New Mexico plants. The Board cannot keep up with everything—it needs the advice of the committee and Chair, who can spend some time getting to know the issues. This is important work in these times. Please think about helping us conserve native plants and their habitats by taking on this position. If you're interested, please contact president Renée West. ❖

## Holy Ghost Ipomopsis (*Ipomopsis sancti-spiritus*): 2012 Update

by Jim McGrath, Albuquerque Chapter

On July 29, 2012, I joined state Division of Forestry botanist Daniela Roth, former state Division of Forestry botanist Bob Sivinski, UNM rare plant botanist Phil Tonne, and three others at two sites of the 2011 Holy Ghost Ipomopsis plantings in Holy Ghost Canyon adjacent to the Pecos Wilderness. These plantings are part of the recovery program for this federally listed endangered species. I can report that our half-day visit clearly indicated that the plantings were doing quite well; the majority were in flower. We went there to prepare a seedbed for certain portions of the plantings. As part of the recovery program we needed to remove the organic material (litter and duff layers) so that mineral soil would be exposed. In nearby areas of this “experiment” the organic material remained untouched. Botanical researchers want to know under what conditions the Holy Ghost Ipomopsis reproduces best. Does mineral soil enhance germination and successful reproduction? Does the organic material inhibit or encourage successful germination and reproduction? The ecology of this species is discussed in detail by Phil Tonne in the October–December 2011 NPSNM newsletter.

Later in August Daniela documented more thoroughly the response from the 2011 plantings. She found that 84% of the 640 plants planted at the two 2011 treatment sites were alive in 2012. And 92% of those surviving plants were flowering. A total of 57% of the survivors were browsed in the two plots. Deer are presumed to be the browsing culprit, but elk or rabbits may be involved. There were no tracks or droppings observed.

Just because a plant is in flower does not necessarily mean it is reproducing. The flowers need to produce seeds. Because of the large degree of browsing impacts observed in August 2012 and the associated late flowering of plants that compensated for the browsing damage, Daniela returned to the two study sites in late September to determine the number of adult plants that had mature or maturing seed capsules. Of the total number of flowering plants, only 52% produced mature or maturing capsules at one site, while at the second site 94% did. According to Daniela, more study is needed to determine what effect browsing has on the production of mature seeds. ❖

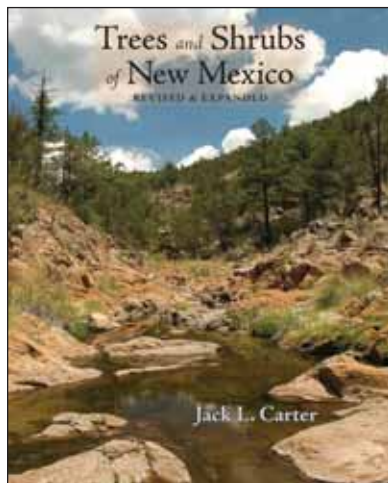
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**If you received this newsletter via email,  
and would prefer a hard-copy, please notify  
Cindy Roper at [nativeplantsnm@gmail.com](mailto:nativeplantsnm@gmail.com).**

### The Newsletter of the NPSNM

April–June 2013. Vol. 38 No. 2. 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.

**Next deadline is June 1, 2013.** Articles and high-resolution artwork supporting the NPSNM's mission are welcomed and can be sent to the editor, Sarah Johnson, at [sarita@gilanet.com](mailto:sarita@gilanet.com), or PO Box 53, Gila, NM 88038.

## Native Plant Society of New Mexico

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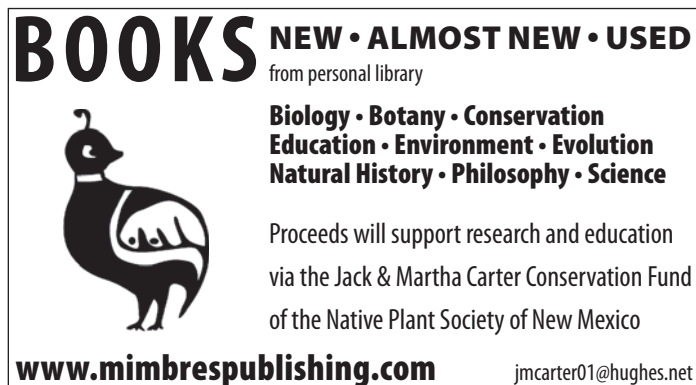
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**Mission** The Native Plant Society of New Mexico (NPSNM) is a non-profit organization that strives to educate the public about native plants by promoting knowledge of plant identification, ecology, and uses; fostering plant conservation and the preservation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



**Envelopes please! The Las Cruces chapter of the NPSNM makes regular monetary contributions to the Asombro Institute for Science Education and also to the two herbaria at NMSU. From left: Chapter president Carolyn Gressitt presents the chapter's 2013 donations to Dr. Kelly Allred, Curator of NMSU's Range Science Herbarium; Dr. Stephanie Bestelmeyer, Executive Director of the Asombro Institute for Science Education; and Dr. Donovan Bailey, Curator of NMSU's Department of Biology Herbarium.**



**A productive winter board meeting, February 9–10 at the UNM Sevilleta Field Station. Pictured here, clockwise from upper left: Gary Runyon, Jan Martenson, Lolly Jones, Barbara Fix, Joan Woodward, Pam McBride, Renée West, Kathy Barton, John White, Carol Johnson, Tom Antonio, Bob Powell, Jack Carter, Charles Holmes, Keller Suberkropp, and Linda Barker. Also present at the meeting, but not shown here, were Cindy Roper, Martha Carter, and Bob Sivinski.**

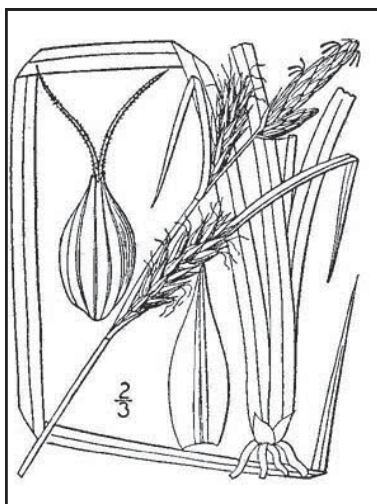
## NPSNM 2013 Workshop Schedule

### Sedge Identification (Bill Norris)

JEMEZ SPRINGS, July 24–26, Valles Caldera Science and Education Center

The Sedge Family of plants (Cyperaceae) is represented in New Mexico by 15 genera and about 156 species. More than half the species are in the genus *Carex*, which is the largest plant genus in the state. Sedges occur in all but our driest ecological communities and are especially important in wetlands. As a group, sedges create some of the greatest challenges for identification. Their small flowers and fruits require very careful field and lab study to properly identify plants to species. In addition, they are also difficult to identify by vegetative characteristics alone. This workshop will (1) provide an overview of the morphological terminology used in the Sedge Family, (2) distinguish the characteristics of the most common genera, then (3) focus upon species identification in the genus *Carex* by using keys on sample specimens in the lab and living plants in the field.

Workshop instructor is sedge expert Dr. Bill Norris, Professor of Ecology and Evolutionary Biology, Western New Mexico University, who recently published a key to



the genus *Carex* in *Flora Neomexicana III* (Allred and Ivey 2012) and coauthored a guide to the identification of sedges in the genus *Carex* (Iowa species).

This workshop will begin Wednesday afternoon to learn terminology and Cyperaceae genera. Thursday will be entirely lab exercises using keys to identify species in the genus *Carex*, and all day Friday is a field trip to find and identify sedges in the beautiful Valles Caldera National Preserve.

Accommodations are provided by the Valles Caldera Science and Education Center in its Jemez Springs facility, which has 25 bedrooms with full baths, institutional dining hall and kitchen, three living room areas, large classroom and meeting room, teaching laboratory, and a quarter mile of the Jemez River on the property for private trout fishing.

Registration fee includes two nights' lodging and six meals. Bedrooms have two single beds and can be single or double occupancy.

NPSNM Members: \$225 double occupancy, \$295 single occupancy; Nonmembers: \$250 double, \$320 single (includes 1-year NPSNM membership)

### The Art of Wildflower Photography (Lisa Mandelkern & Bob Sivinski)

SANTA FE, August 24–25, Saint John's College

This workshop is an introduction to plant photography with digital cameras and editing digital images with Adobe Lightroom or PhotoShop Elements (both are inexpensive programs). Learn to how to make good photos better and salvage artistic results from mediocre images. Also learn to edit and prepare images for Internet or PowerPoint presentation and get creative using the artistic filters in PhotoShop Elements.

Saturday and Sunday mornings introduce the technical



aspects of digital nature photography in a classroom setting and Saturday afternoon is a hike to the adjacent Santa Fe National Forest to practice the field techniques of wildflower photography.

Workshop instructors Lisa Mandelkern and Bob Sivinski are both past NPSNM presidents and avid photographers. Participants who can bring digital single lens reflex (SLR) cameras and laptop computers with either Adobe Lightroom or PhotoShop Elements to this workshop will benefit the most from this instruction.

NPSNM Members: \$80; Nonmembers: \$105 (includes 1-year NPSNM membership)

**Register for either of these workshops online at <http://www.npsnm.org> or contact Bob Sivinski at [bsivinski@cybermesa.com](mailto:bsivinski@cybermesa.com)**

## How Can NPSNM's Grants Program Better Support Education in the Plant Sciences?

by Jack Carter, NPSNM Finance and Investment Committee Chair

As the board has reviewed the wide range of proposals submitted each year, and at the same time recognized the long-term potential of the grants program to fill a serious need for education in plant conservation, they have identified several shortcomings that are not being addressed at either the state or chapter level.

First, it appears that many of those submitting proposals lack the experience to understand the guidelines and the defined limits of the grants program, especially as it concerns science education in botany. Second, very few proposals are being submitted that would improve plant science education in the elementary and secondary schools.

Third, we have reasons to believe the study of plants is poorly conceived and developed in the early years of education. Do K–12 schools have a science curriculum that includes teaching basic botany, studying and conserving the local trees and shrubs in the environment, and providing experiences that support basic investigations with plants that meet the New Mexico standards for science education? Do teachers in grades 5–12 have a background in the plant sciences that would encourage them to teach the green plant through basic research methods and through conducting science as inquiry? Do students in these same grades ever participate in field activities outside the classroom, where the local native flora or ecosystem is developed as a model to be conserved? What percentage of new teachers, graduating with a teaching certificate, have completed a basic course in botany?

Some of the possibilities for funding that are overlooked or not well understood include these:

- Proposals that would educate teachers from K–12 and prepare them to make use of the local flora in their classes
- Proposals for summer activities, as the ideal time to teach basic botany to K–12 students is the growing season
- Floristic research programs for secondary school students that might provide a first real field study experience and might become a stepping stone into a career in the plant sciences
- Workshops or field activities that reach out to older or

handicapped people who cannot hike great distances, and that could take them into natural areas and assist them in learning and enjoying the native flora

- Requests for short courses and workshops in botany that would assist teachers in expanding their knowledge of the New Mexico flora and the use of plants in teaching science

This is only a preliminary list of activities that might strengthen the NPSNM grants program in plant science education, and there must be many other suggestions that deserve board attention. Please contact a board member and make your ideas known. ❖



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## Report on NPSNM's Finances and Investments

by Jack Carter, NPSNM Finance and Investment Committee Chair

First, I want to thank all of you who continue to support the Native Plant Society of New Mexico in so many ways. The organization is in good hands, and among plant conservation organizations it is respected throughout New Mexico. The leadership is making every effort to reach a larger audience through education and research activities, including workshops and an active grants program. Several individual chapters continue to provide programs, workshops, and field trips to attract people in their local areas, and the annual meetings have a habit of growing in quality from year to year. The newsletter and the website, which have also improved, provide news of upcoming activities, important conservation reports, and articles of local and national interest.

As chair of the Finance and Investment Committee, I am pleased to report that in spite of the shaky financial conditions at the national level, the NPSNM is continuing to live well within its means, and continues to support important research and educational projects throughout New Mexico and west Texas. It is important to add that this is all due to the continuous strong financial support provided

by the membership. We have been able to keep our annual dues and operating budget low because so many members give their time and effort to making the local chapters a success, and the state organization is effective in reaching our objectives.

Many of our members provide financial support above their regular membership dues. These funds have traditionally been set aside to support projects that extend beyond the capabilities of the board and the local chapters. These friends of the native flora have for more than a decade provided additional funds and made it possible for the board to develop a successful small grants program to individuals and other organizations. This support has allowed the NPSNM to present a wide range of workshops, to fund graduate students in the plant sciences as they continue their research, to support the major herbaria in maintaining their quality and in strengthening field programs, and to extend science education programs for people of all ages. The Society has for many years purchased native plants for a variety of parks, study areas that support birds and other animals, and native plant gardens. The funds received above dues have allowed the board to set aside from \$2,500 to \$7,500 each year for the grants program.

This small grants program has been so successful that four years ago the board voted to establish an endowed fund that could carry and greatly strengthen the grants program much further into the future. Martha and I were shocked and extremely honored when we discovered the board had identified this fund as the Carter Fund. In just four years this fund has grown to over \$40,000, and the income is starting to provide funds that will increase the possibilities for an expanded grants program. Friends with a deep interest in protecting the native flora of New Mexico have recognized

*Continued page 18*

### Don't Forget . . .

Please remember that if you access Amazon through the NPSNM website, [www.npsnm.org](http://www.npsnm.org), your purchase will help support our mission without costing you an extra dime. You can find the link in the left-hand navigation bar, right underneath our Facebook link.

And speaking of Facebook. . . . If you're a dedicated facebooker, and haven't done so already, please "like" NPSNM's page at [www.facebook.com/NPSNM](http://www.facebook.com/NPSNM).

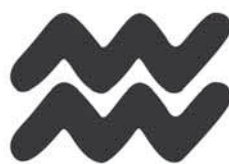
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Native Plant Society of New Mexico  
**2013 Annual Meeting**

# *From Here to Terra Incognita*



Thursday,  
August 8

to

Sunday,  
August 11

Albuquerque

## *Ecosystems in a Changing Climate*

As the old adage goes, the only thing we can rely on is change, and it appears that we along with all species are journeying into unfamiliar climatic territory—Terra Incognita. This theme will be carried out in diverse presentations, showcasing observational and predictive reports on how ecosystems are responding, what the newest models can tell us about New Mexico's future, and constructive measures being taken in our landscapes and in our home gardens. These subjects will come into close perspective with an array of field trips and workshops.

**Meeting Location:** The Thursday board meeting, registration, Friday and Saturday presentations, Friday lunch, Saturday banquet, and silent auction will be at MCM Elegante Hotel, 2020 Menaul NE, Albuquerque, just east of University Avenue, accessible from both I-25 and I-40. All field trips will begin at the MCM Elegante as well. A Friday evening reception will be at Plants of the Southwest nursery, 6680 4th Street NW.

**Accommodations:** Rooms have been set aside at MCM Elegante Hotel, 2020 Menaul NE, 866/650-4900 or 505/884-2511. Rate for attendees is \$81 per night, plus tax. Rooms include full hot breakfast buffet each morning and two complimentary drink coupons per guest per evening. Call the hotel directly to make your reservation. Be sure to mention you are with the Native Plant Society of New Mexico. ❖ **Other nearby accommodations:** **Days Inn**, 800/225-3297, 2120 Menaul NE, www.daysinn.com **Fairfield Inn**, 800/228-2800, 1760 Menaul NE, www.Marriott.com/fairfield **La Quinta Inn and Suites**, 800/753-3757, 2011 Menaul NE, www.LQ.com *Call these hotels directly to make a reservation.* No special rates have been negotiated.

**T-shirts, Mugs, Cookbooks:** The Otero Chapter will be selling their Centennial t-shirts in gold, turquoise or desert brown, along with their "flower pot" mugs and *Cooking Wild* cookbooks.

## 2013 Annual Conference Program—Native Plant Society of New Mexico Albuquerque, New Mexico

\*Please note that the presenters have provided a reading and website list related to the topics below, which will be provided separately to conference registrants.

### Thursday August 8

- 1:00–5:00 pm NPSNM board meeting  
6:00–7:00 pm Early registration

### Friday August 9

- 8:15–9:00 am Registration  
9:00–9:15 am Welcome and Announcements—George Miller, President of the Albuquerque Chapter  
9:20–10:05 am Keynote speaker: Renée West, President of the NPSNM, Supervisory Biologist, Carlsbad Caverns National Park— **Some Observations from Southeast New Mexico and Hope for the Future**  
*Weather conditions in Carlsbad Caverns National Park and the surrounding area are changing. Plants and wildlife are responding. We can make worthwhile responses to reduce the impacts if we change our approach. Plain evidence is all around us that climate change is progressing, probably faster than originally predicted.*
- 10:05–10:20 am Break  
10:20–11:05 am David S. Gutzler, Professor, University of New Mexico Earth & Planetary Sciences Department—  
**Climate Change in Southwestern North America**  
*Dr. Gutzler will discuss observations and model projections of climate change in New Mexico and across Southwestern North America. He will review recent observed climate change and variability, touch on causes of climate variability, and summarize 21st century projections.*
- 11:10–11:55 am Bob Sivinski, Botanist at Large—  
**Adiós Ojos y Ciénegas: The Plight of Aridland Springs in New Mexico**  
*A comprehensive inventory of New Mexico's aridland springs and ciénegas has not been completed; however, these habitats are rare, diminishing in extent, or already eliminated. Most remaining springs are threatened, and some ciénega plants are rare and endangered. This talk will not be about climate change, but its impacts can be inferred.*
- Noon–1:30 pm Lunch  
1:30–2:15 pm Mary Stuever, Chama District Forester, New Mexico Energy, Minerals, Natural Resources Department, Forestry Division—**Southwestern Forests and Climate Change**  
*Forests are central to climate change issues in terms of both mitigation and adaptation. Southwestern forests are particularly sensitive to extreme weather, leading to intense landscape-scale wildfires. A practicing forester and academic, Stuever will share ideas about various forest ecosystems and current and future opportunities to support healthy, resilient forests.*
- 2:20–3:05 pm David Dunn, President, Art and Science Laboratory, Santa Fe—  
**The Acoustic Ecology of Bark Beetles and Climate Impact**  
*This presentation will focus upon an ongoing research project that has attempted to bring artists and scientists together towards understanding how sonic interventions into the communication of tree invasive insects may lead to new control strategies. Dunn will also discuss the project's relevance to climate change issues.*
- 3:05–3:20 pm Break  
3:20–4:05 pm Deborah M. Finch, Program Manager, Grassland, Shrubland and Desert Ecosystems Science, USDA Forest Service, Rocky Mountain Research Station, Albuquerque—**Climate Change in Grasslands, Shrublands, and Deserts of the Interior American West: A Review and Needs Assessment**  
*This presentation reviews climate models that predict species and vegetation changes and synthesizes knowledge about climate change impacts on the native fauna and flora of grasslands, shrublands and deserts of the interior American West. Dr. Finch will also examine responses of species and habitats to climate change.*

## Saturday August 10

- 8:00 am **Field trip participants** meet at MCM Elegante south (rear) parking lot for carpooling to destinations. **Workshop participants** meet at times and places described in the field trip and workshop list.
- 1:30–2:15 pm Craig D. Allen, Research Ecologist, U.S. Geological Survey, Jemez Mountains Field Station, Los Alamos—**New Mexico Forests: Past, Present, and Future**  
*By the early 1990s many forests likely were near maximum potential levels of tree density and had reached unsustainable conditions. New research is showing how the drier, warmer climate since 1996 has triggered tree mortality, insect outbreaks, and increased fire size and severity. Dr. Allen presents the ecological drivers and effects of these landscape changes, along with adaptation strategies.*
- 2:20–3:05 pm Judith Phillips, Landscape Designer, Writer and Educator, Judith Phillips Design Oasis and Judith Phillips INK—**Querencia: Strategies for Gardening in an Increasingly Extreme Climate**  
*Querencia is the sense of being joined so closely with our place that what is good for the place is good for us. Growing native plants is one piece of the process that creates synergy between the architecture of the space and the living landscape, managing water with care, and making comfortable habitat.*
- 3:05–3:20 pm Break
- 3:20–4:20 pm **Brief (up to 15 minutes) presentations by statewide members** whose proposals are selected (see separate invitation to submit proposals on page 20 of this newsletter)
- 6:30–9:00 pm Banquet at MCM Elegante Hotel—Chicken dinner as well as vegetarian/vegan offerings  
 Banquet speaker: Eric Blinman, Director, New Mexico Office of Archaeological Studies—**2000 Years of Climate Change and Human Response in the Southwest**  
*The upland Southwest has one of the most detailed records in the world of both climate change and the history of human responses to those changes. This “laboratory” provides a useful perspective on the sustainability of social and economic systems in an arid landscape.*

## Sunday August 11

**Field trip participants** meet at MCM Elegante south (rear) parking lot for carpooling to destinations.

### Workshops and Field Trips

**Workshops.** Maps or directions will be provided to guide participants to venues other than the Elegante Hotel. An escort may also be provided to guide participants from the Elegante Hotel parking lot to workshop venue. Fees, if any, are payable at the workshop site unless otherwise noted.

**Field Trips.** All field trips start from Elegante Hotel parking lot at the start time indicated. Bring plenty of water, sunscreen, hat, snacks, lunch on Sunday, and appropriate shoes.

### THURSDAY August 8

#### Workshop 1. Rare Plant Workshop 1:00–4:00 pm

Participants are introduced to the NM Rare Plant Website. We will examine specimens of rare plants in the Albuquerque area and compare them to similar species. We will learn habitat requirements, distribution and conservation concern for each species. An optional follow-up field trip to find some of these rare plants will take place on Saturday (Field Trip #1). **Limit:** 10 **Location:** UNM Herbarium **Instructor:** Botanist Jim McGrath

### SATURDAY August 10

#### Workshop 2. Not Your Mama's Nopalitos 9:30 am–Noon

El Paso Chapter's Gringo Gourmet takes cooking prickly pear to a new level with non-traditional recipes. This workshop will demonstrate cooking techniques and provide opportunities to taste creative takes on cactus dining from soup to dessert. **Limit:** 15 **Location:** 4H Demo Kitchen, 1510 Menaul NW **Instructor:** Gringo Gourmet Jim Hastings  
**Fee:** \$5 (payable at registration)

*Continued next page*

**Workshop 3. The Wonders of a Wildlife Habitat Garden: An Exciting Style of Landscaping 8:00 am–Noon**

Changing your yard into a wildlife habitat is one way to restore our natural world. Topics covered in the workshop include important concepts and guidelines to use in creating and understanding your own habitat garden plan. We will also visit several gardens certified by the National Wildlife Federation. In the workshop, you will create a conceptual habitat plan tailored to your yard. **Limit:** 8 **Location:** Elegante Hotel **Instructor:** Habitat Landscape Designer and past NPSNM–Albuquerque Chapter President Virginia Burris **Fee:** \$10 (payable at registration)

**Workshop 4. Why Won't They Come Up? 9:30–11:30 am**

A discussion of why many native seeds need special conditions to germinate, and how to meet those needs in order to propagate native plants. Some demonstration and some hands-on activities will result in seeded 4-packs or seeds in baggies to take home. **Limit:** 12 **Location:** Desert Spring Nursery, 137 Charleston NE **Instructor:** Peggy Wells, Owner of Desert Spring Nursery

**Field Trip 1. White Mesa Gyp Soils 8:00 am–Noon**

This is the follow-up field trip to Thursday's Rare Plant Workshop. Workshop participants have priority, but all are welcome on this field trip. We will look for several rare plant species (and any other plants that catch our eye) in gypsum outcrops near San Ysidro. A species list will be provided. **Difficulty:** Easy, but with a few steep slopes **Limit:** 15 **Location:** 45 minutes from Albuquerque **Leader:** Botanist Jim McGrath

**Field Trip 2. Whitfield Wildlife Conservation Area 8:00 am–Noon**

We tour a former farming area being developed for wildlife, principally waterfowl. Part of the area is being planted with native species and returned to bosque, part is being turned into wetland, and another part is being farmed for avian feed. Some 6000 cottonwood, New Mexico olive, mesquite, sumac, and other native woody species have been planted. Invaders such as salt cedar, Russian olive, and Siberian elm are being removed. **Location:** Belen, 45 minutes from Albuquerque **Limit:** 15 **Leader:** Retired BLM Botanist Don Heinze

**Field Trip 3. Los Lunas Silvery Minnow Refugium 8:00 am–Noon**

Native plants are important for native fish! This tour will demonstrate why a facility that mimics nature, rather than a standard hatchery, can help scientists understand the minnow's life cycle requirements and raise healthier fish for release back to the river. Afterwards, we will visit the Tingley Wetland Project, which illustrates the challenges of restoring our native bosque and controlling invasive species. **Limit:** 15 **Leader:** USACE Fisheries Biologist Mick Porter

**Field Trip 4. Rio Grande Botanic Garden 8:45 am–Noon**

This easy-paced tour will include the Desert Conservatory, Curandera Garden, Butterfly Pavilion and Dragonfly Sanctuary Pond as we view both native plants and those from faraway places. **Difficulty:** Easy **Limit:** 15 **Leader:** Rio Grande Botanic Garden Associate Curator Dave Ferguson **Fee (payable on site):** NM resident: \$9/adult, \$4.50/senior; Non-resident: \$12.50/adult, \$5.50/senior

**Field Trip 5. Cottonwood Ecology 8:00–11:30 am**

We will view the Cottonwood Ecology Group's video *A Thousand Invisible Cords: Connecting Genes and Ecosystems*, followed by a guided walk through Albuquerque's riparian cottonwood forest. The Nature Center also offers a visitor center, native plant garden, and pollinator garden. **Difficulty:** Easy **Limit:** 15 **Leader:** Rio Grande Nature Center State Park Volunteer Naturalist Sandra Lynn

**Field Trip 6. Sabino Canyon 8:00 am–Noon**

We will hike a loop trail in the Manzanita Mountains through open meadows and juniper woodlands. The meadows have a great diversity of wildflowers. **Difficulty:** Easy **Limit:** 15 **Elevation:** 7000–7200' **Distance:** 2 miles **Location:** S of Tijeras on I-40, 45 min. from Albq. **Leader:** Retired NM Museum of Natural History Groundskeeper Gary Runyan

**Field Trip 7. Working with Keys to Trees and Shrubs of New Mexico 8:00 am–Noon**

This trip will visit several elevation zones of the Sandia Mountains while teaching how to work with dichotomous keys. Participants will practice identifying and keying trees and shrubs in several habitats. Highly recommended: Bring a copy of Jack Carter's *Trees and Shrubs of New Mexico* and a hand lens. This trip is for avid learners and easy-going hikers. **Leaders:** Educators Jack Carter and Jason Roback

**Field Trip 8. Edible and Medicinal Plants of the Sandias 8:00 am–Noon**

This is a gentle hike on the 10K Trail. Some of the taxa encountered in previous years include Oshá, fernleaf lousewort, ninebark, and baneberry. Plant lists provided. **Difficulty:** Easy, but high elevation **Limit:** 15 **Elevation:** 10,000' **Location:** 1 hour from Albuquerque, about 11 miles from NM 14 on the Crest Hwy (NM 536) **Leaders:** Ethnobotanist Pam McBride and Becky Schnelker

**Field Trip 9. Sandia Crest and Nearby Areas 8:00 am–Noon**

A leisurely wildflower hike along the Sandia Crest and nearby lower elevations, depending on time available and condition of the plants. Emphasis is to be on field identification of as many wildflowers in different habitats as we can fit in. **Difficulty:** Easy **Limit:** 15 **Elevation:** to 10,678' **Location:** 1 hr. from Albuquerque **Distance:** 1–1.5 miles **Leaders:** Larry Littlefield and Pearl Burns, Authors, *Wildflowers of the Sandia and Manzano Mountains of Central New Mexico*

**Field Trip 10. Sandia Crest Hike Crest House Visitors Center to Tram Station 8:00 am–Noon**

The trail provides spectacular views of the Rio Grande Valley, West Mesa volcanoes, and Mt. Taylor 65 miles away. The sunny exposure and limestone soils support a piñon-juniper/ponderosa pine forest transition, often with 50+ species of flowers blooming this time of the year with ample rain. The return trip passes through spruce-fir forest and two meadows. Bring notebook. A plant list with page numbers from DeWitt Ivey's *Flowering Plants of New Mexico* will be provided. **Difficulty:** Moderate **Limit:** 15 **Distance:** 4 miles **Location:** about 1 hour from Albuquerque **Leader:** Author, Nature Photographer and Naturalist George Miller

**SUNDAY August 11**

**Note:** The ending time for Sunday trips is at the site, unless otherwise stated.

**Field Trip 11. The Bosque Under Siege 8:00 am–Noon**

This field trip takes place at the Los Lunas River Park. No fewer than five species of alien invasive plants are replacing the original native flora and taking over the Rio Grande bosque. All invaders have been designated as noxious weeds by the NM Dept. of Agriculture. The most disturbing thing is that this area is typical of much, if not most, of the Rio Grande's riparian vegetation from north of Albuquerque to Las Cruces. Recommended books to bring along are DeWitt Ivey's *Flowering Plants of New Mexico* and *A Field Guide to the Plants and Animals of the Rio Grande Bosque*. **Limit:** 15 **Leader:** Retired BLM Botanist Don Heinze

**Field Trip 12. Manzano Mountains 8:30 am–12:30 pm**

A leisurely wildflower hike depending totally on the summer rainfall and where wildflowers can be found; if the Manzanos are lacking many wildflowers, we will go to mid-elevations or higher in the Sandias. Emphasis is to be on field identification of as many wildflowers in different habitats as we can fit in. **Difficulty:** Easy **Limit:** 15 **Elevation:** 7,500–8,500' **Leaders:** Larry Littlefield and Pearl Burns, Authors, *Wildflowers of the Sandia and Manzano Mountains of Central New Mexico*

**Field Trip 13. San Pedro Parks and San Gregorio Reservoir 8:00 am–3:00 pm**

The trail to the reservoir gradually ascends into the San Pedro Parks Wilderness. Plants that occur in higher elevation settings that can be seen along the trail might be Gunnison's mariposa lily, Monk's hood, rattlesnake plantain, or NM checkermallow. See the NPSNM website under the Albuquerque Chapter for a checklist of the flora for San Gregorio Lake. **Limit:** 15 **Elevation:** 9,300' **Location:** Near Cuba, off State Rd. 127 & Forest Rd. 70 **Leaders:** Ethnobotanist Pam McBride and Horticulturalist/Botanist Philip Clark

**Field Trip 14. The Narrows Rim Trail at El Malpais National Conservation Area 8:00 am–3:00 pm**

Paul and Sheila will show us wildflowers in a diversity of plant habitats that include the base of the west-facing cliffs, the lava and the mid-Cretaceous sandstone mesa top. Meet at El Malpais ranger station at 9:15 am. **Difficulty:** Easy **Limit:** 15 **Elevation:** 7,000' **Location:** Near Cuba, off State Rd. 127 & Forest Rd. 70 **Location:** 70 miles W of Albuquerque and 9 miles S of I-40 Exit 89 on Hwy 117 **Leaders:** BLM Ranger Educator Paul Yoder and BLM Volunteer Naturalist Sheila Brewer

*Continued next page*

**Field Trip 15. Quebradas! 8:00 am–2:00 pm**

Auto tour on the Quebradas Backcountry Byway. *Quebradas* means “breaks” in Spanish, referring to the rugged terrain, which includes bench lands and a series of colorful north-south trending ridges. We will make a few stops to explore various arroyos and rock outcrops, but the highlight will be a gypsum outcrop with plants specifically adapted to gypsum. Passenger vehicles are fine unless there has been recent rain. **Limit:** 15 **Location:** Starts at Escondida on I-25 about 5 mi N of Socorro, ends on Hwy 380 11 mi E of San Antonio **Leader:** Botanist/Naturalist Jim McGrath

**Field Trip 16. San Lorenzo Canyon 8:00 am–1:00 pm**

We will explore this BLM recreation area, beginning with searching for wildflowers in a broad desert environment, and then proceeding by vehicle toward a narrow canyon. Hike is easy walking up the flat canyon for 1–2 miles, but there will be one minor rock scramble. We'll look for seeps and occasional trickles of water that support colonies of diverse plants. As the canyon narrows, the creek bed winds beneath towering cliffs with rock shelters, cracks and arches, and intriguing geological formations. **Difficulty:** Easy, but with 1 minor rock scramble **Limit:** 15 **Location:** 13 mi N of Socorro **Leader:** Author, Nature Photographer and Naturalist George Miller

**Field Trip 17. Albuquerque Volcanoes at Petroglyph National Monument 8:00 am–Noon**

We will explore the ecology of wildflowers, grasses, and shrubs of desert grassland and plains mesa sandscrub habitat. **Difficulty:** Easy **Limit:** 15 **Leader:** Ecologist Jim Nellessen

**Field Trip 18. Pino Canyon in the Sandia Mountains 8:00 am–Noon+**

This trip reveals the depth and diversity of the western side of the Sandia Mountains. Beginning through high desert grass and shrubs, we soon reach shady woodlands, visit a lush site of seasonal stream flow and eventually a spring. Beautiful views. While hardy hikers can continue on to the crest trail among firs and spruces (9200'), those with less time or stamina can easily return to the parking area on the well-defined path. **Difficulty:** Easy (to spring)/Moderate (full length) **Limit:** 15 **Leader:** Naturalist Tom Stewart

**Field Trip 19. Ojito Wilderness 8:00 am–1:00 pm**

We will explore this desert wilderness with meandering arroyos, steep-sided mesas, box canyons and badlands. We will visit a relic ponderosa pine forest and see native buckwheats, cacti, grasses and asters. Hike is mostly on flat, hard-packed dirt. **Difficulty:** Easy **Limit:** 15 **Location:** W of San Ysidro, about 80 minutes from Albuquerque **Leaders:** Ara Kooser and Kerry Calhoun

**Field Trip 20. Kasha Katuwe Tent Rocks National Monument 8:00 am–1:00 pm**

We explore the cone-shaped tent rock formations formed from tuff deposits from the Jemez volcanic field. Indian paintbrush, Apache plume, rabbitbrush, and manzanita are among the native plants we will see. The hike includes an optional, 630-foot climb to the mesa top, where there are excellent views of the Sangre de Cristo, Jemez and Sandia Mountains and the Rio Grande Valley. **Difficulty:** Moderate/strenuous (with optional climb) **Limit:** 15 **Distance:** 2.7 miles **Location:** 1.5 hrs from Albuquerque **Leader:** U.S. Army Corps of Engineers Botanist Dana Price **Fee:** \$5 per vehicle (payable at start of trip)

**Field Trip 21. Valles Caldera National Preserve 8:00 am–2:00 pm**

The Valles Caldera is home to nearly 400 species of native plants. The trip will move from habitat to habitat to see the largest number possible. We will visit the unique “Alamo Bog” to see the disjunct willow and some fairly rare sedges. Other areas will include riparian, open meadow and wetlands. Species list provided. We will caravan to the preserve and ride in VCNP vans while there. **Limit:** 10 **Leader:** Botanist/Naturalist Chick Keller **Fee:** \$20 (payable at start of trip)

For additional information, please visit  
[www.npsnm.org/events/2013-annual-conference/](http://www.npsnm.org/events/2013-annual-conference/)

**From Here to Terra Incognita  
2013 NPSNM STATE CONFERENCE REGISTRATION FORM**

Please send a *separate* form for each attendee. Checks should be made payable to Albuquerque Chapter NPSNM.

Name		NPSNM Chapter	
Address		City	State Zip
Phone (home)	(cell)	E-mail Address	

*Please register early. Field trips and workshops have limited enrollment.*

**Field Trips/Workshop Preferences** (Indicate by number *plus* FT or W)\*

**Saturday** 1<sup>st</sup> Choice (#) \_\_\_\_\_ 2<sup>nd</sup> Choice (#) \_\_\_\_\_ 3<sup>rd</sup> Choice (#) \_\_\_\_\_  
**Sunday** 1<sup>st</sup> Choice (#) \_\_\_\_\_ 2<sup>nd</sup> Choice (#) \_\_\_\_\_ 3<sup>rd</sup> Choice (#) \_\_\_\_\_

Banquet, Friday lunch and snacks are included in conference fee.

Banquet Preference: Please check one  Chicken  Vegetarian/Vegan  
 Extra banquet ticket(s): \$25  Chicken  Vegetarian/Vegan

**REGISTRATION**

NPSNM Member	Non-Member
<input type="checkbox"/> Paid by 7/1/13 \$85	<input type="checkbox"/> Paid by 7/1/13 \$100
<input type="checkbox"/> Paid by 8/1/13 \$95	<input type="checkbox"/> Paid by 8/1/13 \$110
<input type="checkbox"/> To pay on site \$85 (banquet not included)	
<input type="checkbox"/> Extra banquet ticket \$25	

\*Include here any charges for materials or transport your activity choices (one per day) require:

Saturday charge \$ \_\_\_\_\_  Sunday charge \$ \_\_\_\_\_  
 (Charges refunded if trip or workshop is closed.) **TOTAL \$ \_\_\_\_\_**

**Send form(s) with check made out to Albuquerque Chapter NPSNM to:**

Gary Runyan, 1600 Gonzales Rd. SW, Albuquerque, NM 87105

A silent auction has become a traditional highlight of each year's NPSNM State Conference. The Albuquerque chapter, hosting the meeting August 8–11, invites your donation of items that might be of interest to other members.

For more information or to offer one of your invaluable, please contact Beth Herschman at [herschman9@aol.com](mailto:herschman9@aol.com).

## 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](http://www.npsnm.org); click on Local Chapters; then

### Albuquerque

All scheduled monthly meetings are first Wednesday of the month at 7 p.m. in the NM Museum of Natural History, 1801 Mountain Rd. NW. For more info on programs contact Pam McBride at 505/343-9472 or [ebotpam@msn.com](mailto:ebotpam@msn.com) or Carolyn Dodson at 505/268-7889 or [cdodson@unm.edu](mailto:cdodson@unm.edu). For more info on field trips and forums contact Dana Price, [dana\\_price@gmx.com](mailto:dana_price@gmx.com), 505/872-2646 or (cell) 512/417-9787. For meeting places indicated [A] through [H] see website.

**Apr 3** Meeting. How to Study Plants by Looking at Moths and Their Caterpillars. Eric Metzler, moth expert.

**May 1** Meeting. ALBA-2012: A Year of White Flowers at Deer Canyon Preserve. Jerry Melaragno.

**May 4** Field Trip. Wildflowers of the Deer Canyon Preserve. Jerry Melaragno (847-0402), leader. Meet Jerry at the Shafer Hotel in Mountainair at approx. 9:15–9:30 a.m. Carpoolers meet 8:00 a.m. at [A]. All-day field trip.

**Jun 5** Meeting. Native Plants of the Whitfield Wildlife Conservation Area. Project manager Ted Hodoba.

### El Paso

All programs are second Thursdays at 7 p.m. (coffee social at 6:30) at El Paso Garden Center, 3105 Grant Ave. unless otherwise noted. All events free unless a fee is specified. Non-members always welcome. Info: Jim Hastings, 915/240-7414.

**Apr 11** Meeting. Preview of plants that will be featured at the annual Chihuahuan Desert Gardens FloraFest and plant sale. John White, curator, Chihuahuan Desert Gardens.

**May 9** Meeting. Drip Irrigation Systems. Horticulturist Cheryl Garing.

**Jun 13** Meeting. Potting Succulents and Cacti. Jack Makepeace. Soil mixes, pots, and how-to information.

### Gila (Silver City)

All programs are free and open to the public. Meetings are third Fridays at 7 p.m. at WNMU's Harlan Hall, with refreshments following the program. Hikers meet at 8 a.m. in south parking lot of WNMU Fine Arts Theatre the morning of the hike to arrange carpooling. Participants must sign a release-of-liability form at that time, and will receive a list of native plants in the hiking area. For more info, call Deming Gustafson, 575/388-5192. Destinations may be changed due to weather. Activity updates posted on [www.gilanps.org](http://www.gilanps.org).

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.

**Apr 19** Meeting. The Role of Amateur Botanists in Sustaining the Floristic Tradition in Botany. Bill Norris, professor of biology at WNMU and herbarium director.

**Apr 21** Field Trip. Engineer Canyon, southern Burro Mountains.

**May 19** Field Trip. Railroad Canyon, Black Range.

**Jun 16** Field Trip. North side of Signal Peak to the little spring in the meadow.

### Las Cruces

Meetings and workshops are second Wednesdays (unless otherwise noted) at 7 p.m. in the conference room of the Social Center at the University Terrace Good Samaritan Village, 3011 Buena Vida Circle, Las Cruces. Field trips are Saturdays; most last into the afternoon. Participants must sign a release-of-liability form. Children must be accompanied by their parents. Programs and field trips are free; nonmembers always welcome. Contacts: Carolyn Gressitt, 575/523-8413; Al Krueger, 575/532-1036.

**Apr 6** Field Trip. Tour of native plant gardens in Las Cruces. Meet 9:00 a.m. at east end of Rio Grande Bank parking lot at the corner of University/Telshor.

**Apr 10** Meeting. Weed Eaters! For Better or Worse? Dr. Carol A. Sutherland, entomologist.

**Apr 13** Field Trip. Hike with a cactus expert in the area of North Anthony's Nose in the Franklin Mts. Meet 8:00 a.m. at east end of Rio Grande Bank parking lot at the corner of University/Telshor.

**May 8** Meeting. The Effects of Fire on Native Plants. Mara Weisenberger, biologist for San Andres National Wildlife Refuge.



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**May 18** Field Trip. Hembrillo Canyon, on White Sands Missile Range. Dave Anderson, leader. Meet 8 a.m. at east parking lot of K-Mart on Hwy 70.

**Jun 12** Meeting. Wax Palms and Other Marvels of Colombian flora. Carolyn Gressitt.

**Jun 15** Workshop. How to Use *Trees and Shrubs of New Mexico*. Jack Carter, author, *Trees and Shrubs of New Mexico*. 9:00 a.m.–Noon. Good Samaritan conference room.

### Otero (Alamogordo)

For field trip information, contact Tim Mills, tim.mills1@gmail.com, 210/883-7170; or Helgi Osterreich, hkasak@netmdc.com, 575/585-3315 or 575/443-3928. More info should be available by the beginning of each month.

**Apr 20** Plant Sale, 10th Street and Oregon in Alamogordo, 8 a.m.–1 p.m. To volunteer, contact Helgi or Hildy Reiser (hildyranger@msn.com, 575/439-5196). Help needed!

**Apr 27** Earth Day at the Alamogordo Zoo, 9 a.m.–4 p.m. Help needed; please contact Hildy Reiser (hildyranger@msn.com, 575/439-5196).

**May 25** Field Trip. White Sands Missile Range. Meet 8:00 a.m. at the Small Missile Range entrance. Bring plenty of water and lunch. **You must preregister by May 12 (or by May 1 if not a U.S. citizen);** contact Tim Mills.

**Jun 22** Demonstration of archeobotanical recovery methods. Meet 8:30 a.m. at First Presbyterian Church at 14th and Oregon in Alamogordo. For more information, contact Tim Mills.

### San Juan (Farmington)

Meetings are third Thursdays at 7 p.m. at San Juan Community College. For more info, contact Donna Thatcher, dthatcher@fntn.org or 505/325-5811.

### San Juan (Southwest Colorado)

The San Juan/Four Corners Native Plant Society will have four spring and eight summer field trips this year. See the chapter's web page on the Four Corners Flora website, www.

swcoloradowildflowers.com. Field trips are free and open to everyone. For further information, call Al at 970/882-4647.

### Santa Fe

Meetings are third Wednesdays at 6:30 p.m. at Morgan Hall—New Mexico State Land Office, 310 Old Santa Fe Trail, Santa Fe. Free parking available adjacent to the building. For more information, contact Tom Antonio, tom@thomasantonio.org, 505/690-5105. Meetings and talks are free and open to all.

**Mar 20** Meeting. New Mexico Big Tree Program and the Urban & Community Forestry Program. Kelly Washburn, program manager, NM State Forestry.

**Apr 17** Meeting. Ecological Site Descriptions of the Guadalupe Mountains and Ridgeland Resource Unit. Scott Woodall, Rangeland Ecologist, NRCS.

**May** Meeting. Topic/Speaker TBA.

**Jun 15–16** Field Trip. Pagosa Springs, CO. Charles and Anita King, leaders. Five endemic species can be studied in drive-by populations. For details and to sign up, contact the leaders at 505/466-6851.

### Taos

Meetings are third Wednesdays at 7 p.m. in Coronado Hall at the Taos Convention Center. Please check the NPSNM website for updates and additional information on activities, or contact Sallie at taos800@aol.com or 575/776-0860.

**Apr 17** Talk. Meet our new Extension Agent, local Taosano Tony Valdez. Q&A on native plants.

**May 22** Talk. Hummingbirds of North Central NM and Their Favorite Native Plants. Professor John Ubelaker.

**May 25** Field Trip. Meet John Ubelaker on the campus of SMU-Ft. Burgwin for a presentation on plants of the Transition Zone.

**Jun 15** Field Trip. Italianos Canyon. Presentation on plants of the Canadian Zone.

**Jun 19** Talk. Climate Change. Dave DuBois, climatologist.

**Jun 26** (Tentative date). Gardens in Progress Tour.

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**Annual Conference in Albuquerque** *(continued from p. 1)*

Colorado Plateau, and Southern Rockies lose themselves vying for influence. At the edges of ecosystems, the effects of a changing climate become very evident.

Which brings us back to the NPSNM statewide conference, August 8–11. As the old adage goes, the only thing we can rely on is change, and it appears that we, along with all other species, are journeying into unfamiliar climatic territory—Terra Incognita. This theme will be carried out in diverse presentations by experts in their fields, showcasing observational and predictive reports on how ecosystems are responding, what the newest models can tell us about New Mexico's future, and adaptive measures being taken in our landscapes and in our home gardens. These subjects will come into close perspective with an array of field trips and workshops. Find out what exactly is in store by turning to the insert in this issue of the newsletter, or consulting the NPSNM website at [www.npsnm.org/events/2013-annual-conference](http://www.npsnm.org/events/2013-annual-conference). ❖

**Report on NPSNM's Finances** *(continued from p. 8)*

how they can be certain that well beyond their lifetimes they will be continuing to protect their small part of planet Earth. It now appears that the income from the invested funds will reach 3% this year, thus allowing us to start to increase the total funds available. It is also important to note that the board is in the process of developing an outreach program to encourage members and friends to include the NPSNM in their wills and family trusts, to ensure that their contributions will continue to protect the flora of New Mexico.

Many years ago William James recognized the value of providing for future generations, stating, "The greatest use of life is to spend it on something that outlasts it." ❖



**Unusual formation at the entrance to San Lorenzo Canyon, a 2013 State Conference field trip location.**

**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**

*and send to:* Cindy Roper, Administrative Coordinator  
PO Box 35388 Albuquerque, NM 87176-5388

**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. Members also qualify for membership in New Mexico Educators Federal Credit Union. Books dealing with plants, landscaping, and environmental issues are available at discount prices. The Society has also produced two New Mexico wildflower posters by artist Niki Threlkeld and a cactus poster designed by Lisa Mandelkern. These can be ordered from our poster chair (contact information listed on page 4).



**New Mexico wildflower posters:** \$8 (nonmembers, \$10)  
**Cactus poster:** \$5 (nonmembers, \$8)

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## 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)*

- |  |   |
|--|---|
| <input type="checkbox"/> Albuquerque                                       | <input type="checkbox"/> Otero (Alamogordo)                           |
| <input type="checkbox"/> El Paso, TX                                       | <input type="checkbox"/> San Juan (Farmington and Southwest Colorado) |
| <input type="checkbox"/> Gila (Silver City)                                | <input type="checkbox"/> Santa Fe                                     |
| <input type="checkbox"/> Las Cruces  | <input type="checkbox"/> Taos   |
| <input type="checkbox"/> No affiliation                                    |   |
| <input type="checkbox"/> I am interested in forming a new chapter in _____ |   |

### Annual Dues:

Individual	\$ 25
Family	30
Friend of the Society	50
Sponsor	100
Patron	250
Life Member	1,000
Limited Income, Students, and Seniors (65+)	15

**Total:** \$ \_\_\_\_\_

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



*Make your check payable to*

**NPSNM**

*and send to*

**Membership Secretary**

**PO Box 35388, Albuquerque NM 87176**

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**Native Plant Society of New Mexico**



## NEWSLETTER

*of the*

NATIVE PLANT SOCIETY  
OF NEW MEXICO

*is available online.*

Download PDFs of this and  
recently archived issues  
at the NPSNM website:

**[www.npsnm.org](http://www.npsnm.org)**

### **Invitation to NPSNM Members to Make Presentations at the Annual Meeting on August 10**

The 2013 Annual Meeting in Albuquerque will feature fascinating speakers from an unusually wide variety of professional disciplines. But one hour on Saturday afternoon has been reserved *just for you*. The Program Subcommittee encourages you to submit a proposal for an illustrated talk *you* would like to present.

#### **Proposal Guidelines**

- Talks should be planned to last no longer than 15 minutes.
- Your topic can be anything related to New Mexico native plants.
- Audiovisual equipment will be set up at the meeting for the use of all presenters. If you will require any special additional equipment, please specify in your proposal.
- Describe your proposed presentation in a paragraph.
- Provide a title for your proposed presentation.
- Include your
  - name
  - mail address
  - telephone number
  - email address
- Send your proposal by email or snail mail to
  - sandra.d.lynn@gmail.com

*or*

  - Sandra D. Lynn, 1814 Hermosa Dr. NE, Albuquerque, NM 87110
- If you send it by snail mail, please include 5 copies of it for distribution to the program subcommittee. (If you send it by email, Sandra will simply forward your proposal to the members of the subcommittee.)
- Your proposal should be received by June 15, 2013.

**Only three presenters** will be selected. You will be notified as soon as the committee has made its decision.