



The purpose of the Oklahoma Native Plant Society is to encourage the study, protection, propagation, appreciation and use of Oklahoma's native plants.

**Volume 29, Number 4
Winter 2014**

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ONPS website www.oknativeplants.org

Email: oknativeplants@yahoo.com

**COPY AND ART DEADLINE
FOR NEXT ISSUE IS**

10 February 2015

Gaillardia

The Oklahoma Native Plant Society Newsletter

CALENDAR

Note: the events dated below are followed by either a page number for further descriptions or the contact person.

Mark your calendars!

ONPS Indoor-Outing
Saturday, Feb. 7

@

Cameron University
Lawton, OK

More info at
oknativeplants.org



Wildflower Workshop in Durant, OK in May or early June, TBD.

2015 ONPS Annual Meeting, Sept. 25-27 @ University of Oklahoma Biological Station, Lake Texoma.

Note: all members are invited to all meetings, including board meetings, and are encouraged to bring guests.

WELCOME THESE NEW MEMBERS

Judy Edgar, Ripley

Robert Scott, Edmond

James M Winters, Oklahoma City

Judi Hill-Hively, Hominy

ONPS THANKS THE FOLLOWING DONORS TO COLOR OKLAHOMA

Nowata High School Class Of '81 for Wildflowers in
Memory of Howard Slocter

Tulsa Perennial Club

PRESIDENT'S COLUMN

Joe Roberts

I am honored to have been elected ONPS President for the next year. My mom always told me that I could be anything I wanted to be, even president, if I tried. Mom, I made it!

Sincere thanks to Adam Ryburn, outgoing President of ONPS and my mentor while I served as Vice-President. Thanks also to Sheila Strawn for stepping into the Vice-President position. Sheila is a longtime member and a virtual encyclopedia of protocol of the ONPS.

Your organization is run by a group of hard-working, passionate, plant lovers. You notice I did not say plant experts, or botanists. While we are very, very, fortunate to have many expert botanists in the ONPS, the society by and large is made up of, and run by, amateurs with varying levels of knowledge about native plants. My formal education in botany consists of one course in Field Botany taken thirty years ago. My point is that anyone, with any set of skills, can contribute to the running of the ONPS, often in ways totally unrelated to native plants. We need people with skills such as bookkeeping, computing, archiving, and organizing. You don't have to know a lot about native plants to help advance our purpose of encouraging the study, protection, propagation, appreciation and use of the native plants of Oklahoma. You just have to be passionate about that purpose.

We are all amateurs in a way, working to improve whatever skills we have. Appreciation and knowledge of native plants is a lifelong pursuit, like music, or a foreign language. It is a journey, not a destination, and this society has a place for everyone of any level to join that journey with likeminded folks. I hope you will join with the officers and members of your organization to continually improve our society and advance our mission.



BOTANIST'S CORNER

Discoveries and the Database

C. Randy Ledfor

During the annual meeting there was a discussion about the Oklahoma Vascular Plant Database (OVPD) and various applications of.

If you have not used the database, note some of the advantages: you can discover the distribution of a species based on herbarium collections from across the

state; or, you can search for a list of species for any given county. There is a feature allowing one to print a species list by county. Go to oklahomaplantdatabase.org to view website page. Also, see oknaturalheritage.ou.edu/plants for details.

Whether you are an expert botanist or a citizen scientist, you can make a contribution to the database by submitting pressed and labeled specimens not already documented for a county.

For example, my wife and I have been surveying plants on an acreage within the past year to foster an evaluation of rangeland conditions and wildlife habitats. Our findings include some plant species that were not listed on the OVPD for Pawnee County, OK. The plants include: *Escobaria missouriensis*, *Melothria pendula*, *Elaeagnus umbellata*, *Glycyrrhiza lepidota*, *Krameria lanceolata*, *Cooperia drummondii*, *Mirabilis albida*, *Mirabilis nyctaginea*, *Gaura parviflora*, *Andropogon glomeratus*, and *Ulmus pumilis*.

You might be surprised what you will discover in your own neighborhood. In our backyard we collected *Erodium cicutarium* and *Abutilon theophrasti*. In other haunts, we came across *Hibiscus trionum*, *Clematis terniflora*, and *Crataegus crus-galli*. Specimens were provided to Mark Fisbein for herbarium deposition at OSU and inclusion on the OVPD.

2014 ONPS ANNUAL MEETING

The 2014 ONPS Annual Meeting was recently held on October 11 at Chandler Park near Tulsa. **Alicia Nelson** introduced the membership to the Tree For All project taking place at Chandler Park (more information found on the next page). **Dr. Jay Walker** delighted the membership with his talk titled *The Crosstimbers: Where East meets West*.

Following lunch, the annual business meeting commenced with updates from the different chapters and announcement of ONPS award recipients. **Chadwick Cox** was awarded the Anne Long Award for Promotion of Native Plants, while **Elaine Lynch** was awarded the Betty Kemm Service Award. The following were elected to officer and board member positions: **Joe Roberts**, President; **Sheila Strawn**, Vice President; **Sandy Graue**, Secretary; Mary Korthase, Treasurer; **Adam Ryburn**, Historian; **Elaine Lynch** and **Jay Pruett** as Class of 2017 Directors.

Following the annual business meeting, we took a quick trip outside to botanize at Chandler Park and the

Tulsa Botanic Garden north of Tulsa. It was a great day for botanizing.

Mark your calendars for our next annual meeting; a joint meeting with the Friends of the University of Oklahoma Biological Station held on Sept. 25-27, 2015. Additional information will be posted along with a registration form as soon as it is available.

ONPS SUPPORTS TREE FOR ALL

Pearl Garrison

The Oklahoma Native Plant Society's newest and very exciting project is a native plant area in the Brook and Jill Zink-Tarbell Memorial Park and TREE FOR All in Tulsa.

The project is the vision of Lynn Endres, a Tulsan who was a friend and admirer of the Tarbells. Both were in wheelchairs and had a tremendous impact on accessibility for the handicapped in Tulsa.

The site is on a cliff in Chandler Park in southwest Tulsa. In December construction will begin on the park and a treehouse that will be easily accessible for anyone with a handicap. A bridge will link a huge stand-alone rock formation with the main part of the park. The treehouse will be flat with several overhangs, giving it the look of a flower with petals. (The design is on TREE FOR ALL's Facebook page.)

In spring, summer and early fall, people will be in a canopy. In later fall and early spring, visitors will be able to see for miles to the north. What has driven Lynn is the realization that many with physical challenges have never been in a treetop. She drew ideas from those in wheelchairs and with other limitations for the architect to follow in the design.

Lynn strongly believes the park and treehouse will be a destination for those with disabilities from across the country.

Lynn and other organizers are relying on donations and an amazing number of people and companies donating time, creativity, and resources. Tulsa County Commissioner Karen Keith and other commissioners are excited about enhancing the park, which is in her district. The memorial and treehouse will be at the top of Chandler Park and north of the activity center.

Lynn asked ONPS to be part of the project, and board members eagerly agreed. During the official announcement of TREE FOR ALL in October, Alicia Nelson and Pearl Garrison met Robert Richardson, who created the landscape design. He is eager to meet with committee members to talk about the best

selection of natives and the best location for them. Committee members are also discussing signage ideas.

This is a great educational opportunity for ONPS to bring awareness about Oklahoma native plants to the public.

Thank you to committee members **Connie Murray, Alicia Nelson, and Adrah Slear**, and to **Dr. Jay Walker** and **Dr. Mike Dunn**, who have agreed to be consultants.

2014 ONPS AWARD WINNERS ANNOUNCED

Anne W. Long Award, Promotion of Native Plants
Gloria Caddell

Chadwick Cox is this year's 2014 recipient of the Anne W. Long Award. Chad has served many roles in the Oklahoma Native Plant Society. He has been the Website Manager, *Gaillardia* Editor, and Conservation Chair. We all know Chad as the one who has begged and cajoled us into getting our contributions in on time for the *Gaillardia*, so that our newsletter can continue to promote our activities that promote native plants. He was recognized for his service when he received the ONPS Service Award in 2006. Chad is currently the Citizen Science Chair and Treasurer for the Oklahoma Invasive Plants Council. As Citizen Science Chair he recruits participants to help map the distribution of invasive plants of concern within Oklahoma so that we may better protect our native flora. The member who nominated Chad said the following: "His long time service to ONPS is exemplary and his dedication to promoting awareness of native and invasive plants is almost equal to an obsession. I can think of no one else more deserving of an award for 'promotion of native plants'." Congratulations Chad!

Paul Buck Botany Award

Adam Ryburn

The Paul Buck Botany Award was established by ONPS in 2012 in an effort to reward the botanical accomplishments of undergraduate students in our state. Dr. Paul Buck, a botany professor with the University of Tulsa and a much adored member of the Oklahoma botanical community, has inspired a love of botany and the natural world in thousands of Oklahomans. This award is given each year to an outstanding presentation in the field of botany by an undergraduate at the annual Oklahoma Academy of Science (OAS) Technical Meeting. The Oklahoma Native Plant Society wishes to congratulate **Helen Holmlund** of Oklahoma Christian University on her

exceptional presentation titled “Dehydration Tolerance of California Ferns in Relation to Stem Hydraulics and Mechanical Strength”. Ms. Holmlund received a check in the amount of \$250.00 to hopefully enhance her already stellar research endeavors. Additionally, ONPS wishes to thank **Paul E. And Alice R. Richardson** for their generous donation to the Paul Buck Botany Award.

Betty Kemm Service Award

Sue Amstutz

Elaine Lynch received the Oklahoma Native Plant Society’s 2014 Betty Kemm Service Award during the Annual Meeting of the Society held October 11 at Chandler Park in Tulsa. A long-time member of Cross Timbers Chapter in Stillwater, Elaine was recognized for her service since 2003 as Cross Timber’s secretary, as well as her participation on the ONPS State Executive Board as a Director since 2011. Not one but two letters of nomination for Elaine were received by the committee (Chairman Sue Amstutz, members Clare Miller and Irene McKee), attesting to the worthiness of her service to Cross Timbers chapter, as well as to the Society as a whole. Elaine was cited for accurate record-keeping, organizational skills, enthusiastic attention to details, and devoted commitment to her Stillwater chapter and to ONPS statewide. Called the lynchpin of the Stillwater group, Elaine exemplifies the spirit of service originally exhibited by Betty Kemm herself who this award now memorializes.



Elaine Lynn (left) receiving Betty Kemm Service Award from BKSA Chair Sue Amstutz

Photo Contest Winners

Congratulations to the following ONPS Photo Contest winners of 2014. Winners were announced at the Annual Meeting in Tulsa.

Categories:

Close-up

1st Place: Becki Sheets-Klinger

2nd Place: Lynn Michael

3rd Place: Becki Sheets-Klinger

Habitat

1st Place: Ellen Johnson

2nd Place: Becki Sheets-Klinger

3rd Place: Dale Amstutz

2014 Special Category: Vines

1st Place: Ellen Johnson

2nd Place: Dale Amstutz

3rd Place: Deborah Davis

First Time Close-up

1st Place: Martha Burger

First Time Habitat

1st Place: Martha Burger

2nd Place: Martha Burger

First Time 2014 Special Category: Vines

1st Place: Martha Burger

Within each category (close-up, habitat, or special) photographers may enter their photos as either a "First Time" submission or a "Regular" submission. "First Time" submissions are for those entrants who have not entered the ONPS photo contest previously; all others must be submitted as "Regular".

Monetary awards include: \$50.00 for first place entries; \$25.00 for second place entries, and \$15.00 for third place entries.

The Annual Photo Contest is open to all ONPS members, their friends and family, and the general public. All photos entered become the property of ONPS and may be used for displays, publications, and/or educational purposes. ONPS will credit photographers.

2015 Photo Contest information, including entry forms and rules, can be found on the ONPS website (www.oknativeplants.org). The 2015 Special Category is "trees in flower". The deadline for submission is July 1, 2015. Winners will again be announced at next year's annual meeting and published in the winter edition of the *Gaillardia*. We invite you to go outside and photograph our native flora and submit your entry!

ONPS BOARD MEMBER PROFILE

Jay Pruett

Greetings ONPS members and friends! My name is Jay Pruett and I am very pleased to have recently elected to your Board of Directors. Regretfully, I was unable to attend your meeting in October, so I wanted to give an introduction of myself to you here in *The Gaillardia*.

I first have to admit that I'm not a botanist and can't readily identify many plants very well, though I do know some. My education is in biology, with more emphasis on the fish/birds/ecology sides of things. I do nevertheless understand the critically important role of plants in our existence as a society and the functioning of life on the planet, both globally and in every little pocket of natural habitat. I also appreciate the intrinsic beauty of plants, not only of the showiness of their flowers, but of the functional beauty of every part of every species. Native wildflowers are a favorite subject for my nature photography efforts.

I am also aware of the huge effect that people have had in the destruction of plants in their natural settings, to satisfy both needs and desires. We have cut down forests; plowed prairies; imported non-native species (plant, animal, and microbial); altered basic natural processes like fire regimes, hydrological systems, and grazing patterns; introduced hazardous and toxic chemicals; and overharvested animal and plant species, some to the point of extinction. These things have not been done with malicious intentions, but ignorance, a lack of understanding of consequences, and apathy all played a significant role in the current status of our heavily-impacted ecosystems.

What does all of that have to do with ONPS and me? In previous professional lives, I have worked for a pollution control agency and several electric utility companies and corporations, trying to do what I could to influence better stewardship of our natural surroundings. In the case of the utilities, this was done from within those organizations, as environmental department leader and head of global environmental stewardship initiatives, which included rainforest conservation projects in South America.

For the past 11+ years, after retiring from the utility world, I have been the Director of Conservation for The Nature Conservancy of Oklahoma. In that role, I am not only responsible for the operation of our dozen or so nature preserves, but also for coordination of statewide efforts to form partnerships with other interested entities (agencies, non-profits and corporations) to facilitate more conservation of our natural surroundings. The Oklahoma Invasive Plant

Council and the Oklahoma Prescribed Fire Council are two of the partnerships that I've started with this purpose in mind. The OkIPC has been operating under the non-profit umbrella of ONPS, but has recently applied for its own independent, non-profit status.

Please forgive this overly-lengthy introduction, but I wanted to show that perhaps my new role as a member of your Board may not be too far-fetched from your and my goals of achieving more conservation of our native plants and their habitats. I look forward to working with you, enjoying and learning more about native plants with you, and coordinating efforts with TNC, OkIPC and other organizations to make more conservation of native plants happen. Thank you for this opportunity to collaborate with you!

CONNECTING TO ONPS

Adam Ryburn

In addition to receiving this newsletter and accessing the ONPS website, there are a couple of other ways to stay informed and up-to-date on all ONPS activities. All events and happenings of the Society are publicized via the ONPS Listserv and the ONPS Facebook page.

Subscribing to ONPS Listserv:

To subscribe to the ONPS Listserv, send an email to listserv@lists.ou.edu and place the following command in the body of the message SUBSCRIBE OKPLANTS-L your first name last name. You do not need a subject for this email. If I was joining, I would do this by sending my email to listserv@lists.ou.edu with the following text:

SUBSCRIBE OKPLANTS-L Adam Ryburn

Note there is no punctuation, just single spaces.

Priscilla Crawford who has provided us with this service will OK your subscription so there may be some time before you can use the service. Once you are notified, you can send an email to everyone on the listserv by merely sending the message to OKPLANTS-L@lists.ou.edu.

Joining the ONPS Facebook Page:

To "join" the ONPS Facebook group page, log on to Facebook and search for "Oklahoma Native Plant Society". Once you get to the ONPS group page, click on the "Join Group" icon. The group page is a closed group and members must be added by page administrators.

CHAPTER ACTIVITIES

Southwest Chapter

Doug Kemper

The ONPS SW Chapter is looking forward to February's Indoor-Outing to be hosted by Cameron University in Lawton with a late afternoon trip to tour the SW Oklahoma Wildflower and Butterfly Conservation Gardens site, a major element of the Medicine Park Aquarium & Natural Sciences Center now in the latter stages of construction and planned for opening Spring 2015.

See the Indoor-Outing flyer for details and plan on joining with colleagues for the evening dinner in Medicine Park.

See you all in February!

Central Chapter

Adam Ryburn

Winter is upon us and just as we begin to spend more time indoors, the abundance of color we have seen the entire growing season is now hard to find. Of course the greys and dull browns will soon give rise to the vibrant spring colors we botanists long for each year. What better way to get prepared for the upcoming growing season than by spending the first Saturday in February with other folks also longing for spring. Please consider attending the annual Indoor-Outing scheduled for Feb. 7 in Lawton.

The Central Chapter will soon be undertaking monthly field trips to the John Nichols Scout Ranch located at County Line and SW 119th in the southwest part of Oklahoma City. The goal is to create a checklist of all plants (and maybe some lichen and fungi) by the end of the growing season. This work is being done in conjunction with the Biology Department at Oklahoma City University.

For more information on field trips, workshops, and meetings, check out the ONPS website or contact Central Chapter Chair, Adam Ryburn via email: oknativeplants@yahoo.com.

Northeast Chapter

Connie Murray

On September 8, 2014 the Northeast Chapter held a quarterly speakers meeting. Sadie Cole Gordon spoke to us regarding 'Gardens of Yesteryear,' gardens of Oklahoma, Arkansas, Kansas, Missouri from 1870-1950.

On September 20, 2014 about 10 members of Northeast Chapter joined the Spring Creek Coalition on a hike and picnic along Spring Creek. This was on the property of Martin and Beth Rooney, northeast of Peggs, OK.

On October 11, 2014 Northeast Chapter hosted the ONPS Annual Meeting at Chandler Park, west of Tulsa. At the meeting we highlighted the Tree for All Project that ONPS is endorsing.

We are sponsoring the Butterfly Garden at the Mary Kay Oxley Nature Center at Mohawk Park beginning in the spring of 2015. As a result of city budget constraints and consequent neglect, part of the garden has fallen into serious disrepair. This will not require any financial contribution on our part, but labor, to weed and mulch the garden and plant new plants in the spring. We are soliciting interested volunteers.

On November 1, 2014 eight intrepid members hiked Redbud Valley, the morning after our first frost. Oddly, many leaves had already fallen, but there was not much fall color. But we enjoyed the walk in the woods, nonetheless.

Upcoming at our December 1st meeting we have Audrey Frampton coming to speak to us on Wild Crafting, cultural uses of native plants. As always dessert is at 6:30p.m. and the meeting is at 7:00 at the Tulsa Garden Center.

We continue our Fabulous Wildflower Fridays, at 5:30 the third Friday of each month at Panera at 41st Street and Hudson Avenue. We plan field trips and events, identify wildflowers and share fellowship between quarterly meetings. Regardless of Chapter, please feel free to join us!

Read a good, botanically friendly book lately? ONPS is looking for reviewers of botanically interesting books that our members might also enjoy. If you would like to provide a review, please contact Adam Ryburn via email at oknativeplants@yahoo.com.

Editors Choice for Winter 2014: *The Forest Unseen: A Year's Watch in Nature* by David George Haskell. More information at <http://theforestunseen.com>.

FOR JOINING OR RENEWING USE THIS FORM

Fill out this form or supply the same information. Make checks payable to Oklahoma Native Plant Society and mail to Oklahoma Native Plant Society, P. O.Box 14274, Tulsa, OK 74159.

Membership is for Jan. 1 - Dec. 31 of current year and dues include subscription to *Gaillardia*.

Name: _____

Affiliation: (School, Business, or Avocation) _____

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Native Flora Word Search

Acer

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Gaillardia

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Liatris

Platanus

Oklahoma Native Plant Record - December 2014

Our historical article this year will be about the flora of Kiowa County. There is still very little historic species distribution information from that (far southwest) part of the state, and we hope that Lottie O. Baldock's 1938 master's thesis will spark some interest there. It will be of special value to current botanists and geneticists studying historic distributions and environmental changes in the distributions of species.

We are especially delighted to bring to you, a report of research done regarding historic, domestic gardens in the Oklahoma, Kansas, Missouri, and Arkansas region. This work brings the interests of gardeners and taxonomists together and we hope to have more interdisciplinary research like this in the future. Also of great interest to gardeners and botanists, two other papers have to do with plant distribution. One brings the distribution maps of three invasive species up to date, and another describes the features and distributions of two vines that have been difficult to discern, for both professionals and amateurs, who encounter them in the field.

We have an engaging "Critic's Choice Essay" this year. Dr. Gloria Caddell provides some insight as to how pollination studies are made as she reports on a pollination biology course she taught this last year.

The *Oklahoma Native Plant Record* is listed in the "Directory of Open Access Journals", and our abstracts are indexed in the "Centre for Agricultural Bioscience International". After we download data for Volumes 13 and 14 we will use these statistics to apply for inclusion in a larger index. We are thrilled to announce that Dr. Mark Fishbein will be our new "Manuscript Editor". Starting in 2015, it will be his responsibility to get manuscripts reviewed and ready for production, while I continue to recruit papers, and keep everything on time as "Managing Editor". We are so pleased to have Mark joining our editorial staff.

Sheila Strawn, Managing Editor

Oklahoma Native Plant Record.

sastrawn@hotmail.com

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Oklahoma Native Plant Society

2015 Indoor-Outing
Cameron University, Lawton
Saturday, Feb. 7, 2015

Schedule of Events

- 9:00-10:00 am Registration, coffee & pastries @ Science Complex
- 10:00 am Welcome & Introductions
- 10:15 am Preparing Vouchered Plant Specimens
- 11:00 am Using A Taxonomic Key for Identification of Plants
- 12:00 pm Lunch
- 12:30 pm Workshops
- Keying Lichens
 - Keying Composites
 - Keying Milkweeds
- 2:00 pm Workshops Repeat
- 3:30 pm Depart for visit to Medicine Park Aquarium and Natural Sciences Center; followed by dinner in Medicine Park (optional)

detach registration information and mail to address below **or** complete online registration at
www.oknativeplants.org

Mail registration to: Adam Ryburn, 12909 SW 24th St., Yukon, OK 73099

Name(s): _____

Email: _____ Phone (cell or home): _____

_____ \$7.00/person – Registration (must be paid by all attendees), on-site registration will be available

_____ \$10.00 – Box Lunch from Atlanta Bread Company (choices below come with chips and cookie)

___ Vegetarian on Nine-Grain Bread

___ Roast Beef on Baguette

___ Roasted Turkey on Nine-Grain Bread

___ Chicken Salad on Sourdough

___ Honey Maple Ham on Honey Wheat

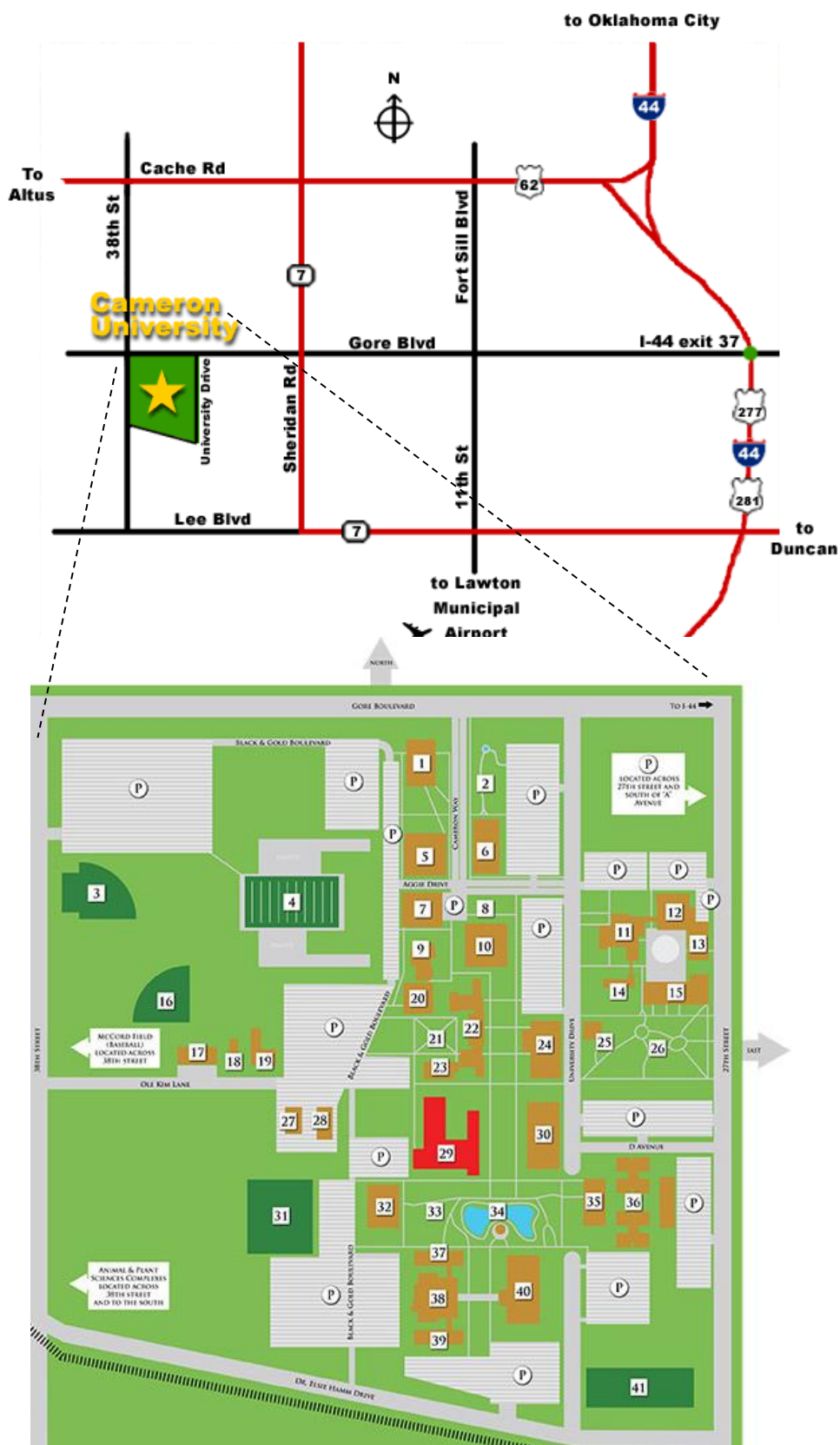
___ Tuna Salad on French Bread

registration must be received by Wednesday, Feb. 4 if purchasing a meal

Total Amount Enclosed: _____

(Make check payable to **Oklahoma Native Plant Society**)

For questions, contact Adam Ryburn at oknativeplants@yahoo.com or (405) 626-6792. Additional information and online registration can be found at the ONPS website: **www.oknativeplants.org**



Directions to 2015 Indoor-Outing

From I-44 to Cameron University

Exit I-44 at Gore Boulevard (exit 37). Go west on Gore Blvd approximately 3 miles. Turn south (left) on University Drive at the Cameron University sign.

From Highway 62 to Cameron University

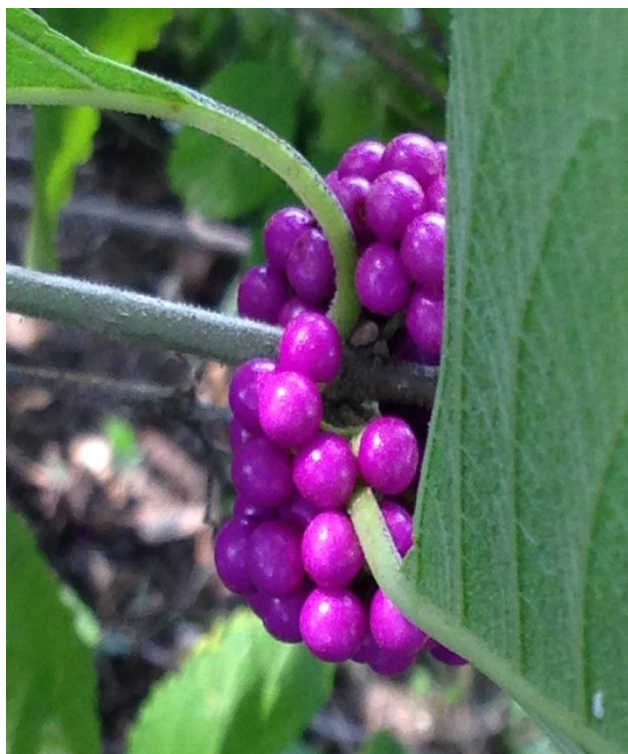
Highway 62 turns into Cache Road in Lawton. Travel on Cache Road to 38th Street, turning south and traveling one mile to Gore Boulevard. Turn east (left) on Gore. Turn south (right) on University Drive located one block past the next traffic light.

Science Complex (Building 29)

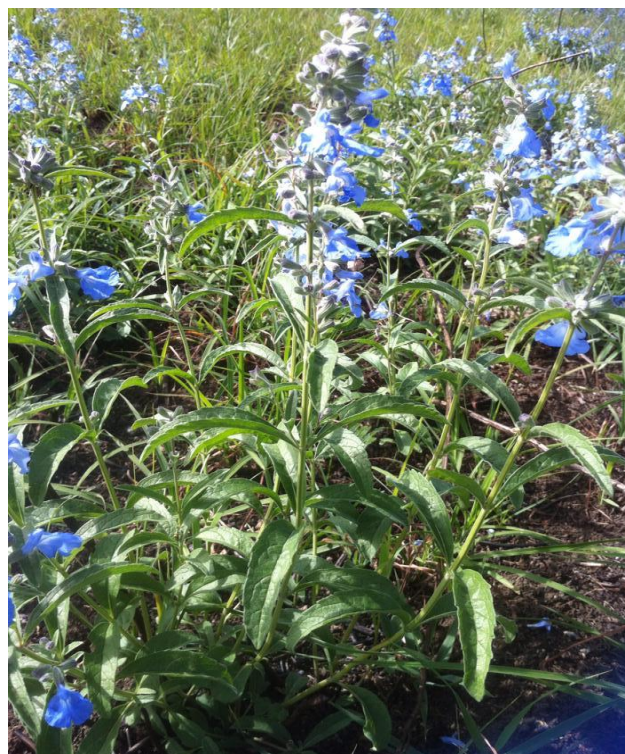
Once on University Drive, take first right and travel west to Black & Gold Blvd. Turn left and travel south to the Science Complex. Parking is on northwest and southwest of building.

ONPS ON FACEBOOK

The ONPS Facebook page reached a milestone recently. Becky Barnes Enloe became the 500th person to join the Facebook site. Thanks Becky. Now lets see if we can double it. Spread the word! Here are a few Editor's Picks from the native plant pictures shared on the ONPS Facebook page.



Callicarpa americana (American beautyberry) by Connie Arnold



Salvia azurea (blue pitcher sage) by Bonnie Ashing



Eryngium leavenworthii (Leavenworth's eryngo) by Mary Korthase



Monotropa uniflora (Indian pipe) by David Arbour

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The Gaillardia

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Vice-president	Sheila Strawn
Secretary	Sandy Graue
Treasurer	Mary Korthase
Historian	Adam Ryburn

Directors at Large:

2015: Bruce Smith and Pearl Garrison
2016: Sara Souza and Mike Dunn
2017: Elaine Lynch and Jay Pruett

Chapter Chairs:

Constance Murray	Northeast
Adam Ryburn	Central
Mark Fishbein	Cross-Timbers
Doug Kemper	Southwest

Committee Chairs:

Publicity and Merchandize	Alicia Nelson
Conservation	Chadwick Cox
TGC Liason, BKSA	Sue Amstutz
Awards	Gloria Caddell
Membership Database	Tina Julich
Photo Contest	Lynn Michael
Mailings/Printings	Karen Haworth

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