



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.

- March 4: NE Chapter meeting with a talk *Bryophytes: What They Are and How They Work*. Page 8
 - March 25: Central Chapter Meeting at OCU, Speaker: Clark Ovrebo "Introduction to Spring Mushrooms." Page 8
 - April 6: Cross-Timbers Chapter field trip to Roman Nose State Park Page 6
 - April 12 Cross-Timbers Chapter 2 lectures and a potluck dinner. Page 6
 - April 13: NE Chapter field trip 2013 Spring Outing: *Wildflower and History Walk*. Page 9
 - April 21: Central Chapter Wildflower hike at Pontotoc Ridge Preserve, Pontotoc County. Page 8
 - April 27: Cross-Timbers Chapter field trip back to Cow Creek Restoration Project .
 - June 11: Clark Ovrebo will lecture on mushrooms at Myriad Botanical Gardens. Page 9
 - June 15: Clark Ovrebo will lead an ONPS field trip at Lake Thunderbird State. Park. Page 9
 - June 15: Central Chapter Wichita Mountains Wildlife Refuge trip. Page 8
 - Fabulous Wildflower Fridays, the 3rd Friday of each month, Page 6
 - Central Chapter morel mushroom walk late March/early April (depends on mushrooms) Page 10
- Note: all members are invited to all meetings, including board meetings, and are encouraged to bring guests.

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

Volume 28, Number1
Spring 2013

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PRESIDENT'S PARAGRAPH

Adam Ryburn

The Flora of Oklahoma

In the last couple of months I've been asked by a few folks if I know anything about the status of the Flora of Oklahoma Project. As a member of the Flora of Oklahoma Committee, I thought I would take this opportunity to provide an update. As many of you know, for the last 30 years a group of professional botanists from around the state have spent one Saturday a month working on taxonomic treatments of the vascular plant flora of our state. The result of the committee's hard work is a series of publications that has contributed to the evolution of the *Flora of Oklahoma*.

The first of these publications was in 1994 titled *Key to the Vascular Plant Families of Oklahoma*, which provide the first comprehensive family key since Waterfall in 1969; and was actually accompanied by Waterfall's publication. *Key and Descriptions for the Vascular Plant Families of Oklahoma* was published in 1997 and soon followed by *Key and Descriptions for the Vascular Plants of Oklahoma* in 1998. Over the last decade, the committee has focused on completing the treatments to the species of each plant family represented in Oklahoma (173 families represented by ~2600 species), updating the later publication on a regular basis.

So what has the committee been doing lately? The answer rest with the largest plant family in Oklahoma. The Asteraceae, or sunflower family, is represented by over 300 species in Oklahoma; thus considerable time has been spent on the treatment of the family. So much time is being spent on this family that the Committee has decided to produce a separate publication focused on the Asteraceae of Oklahoma. It is the Committee's hope that this publication will be released within the next couple of years, and soon after will follow the completed *Flora of Oklahoma*.

Check out the Flora of Oklahoma Project website (www.biosurvey.ou.edu/floraok) for more information and instructions of how to order your copy of the most recent, working, edition of *Key and Descriptions for the Vascular Plants of Oklahoma*.

IMPORTANT GENERAL NOTICES

Lynne has provided information in this issue on how you can have a Facebook page safely (see P5). We highly recommend that our members either have a Facebook page or are on our listserv or both so that they will have access to events that occur between Gaillardia issues. Facebook has become the major flower show and identification function.



BOTANIST'S CORNER

Life in the Oklahoma Desert

Pat Folley

*"The rain, it raineth every day
Upon the just and unjust fella,
But more upon the just because
The unjust hath the just's umbrella!"*

Oklahomans must be some of the most "unjust" folks in the country, because we seem to be living under a very large, very dry umbrella. I was born into the Dust Bowl, and remember at least the last half of it. Even in Oklahoma City, where we were living, the clouds of dust from the Panhandle and western counties rolled into town day after day.

Maybe the most unjust fact about the dust clouds is that they can look just like rain clouds as they arrive. Even little children in the city were aware that we sorely needed rain, and we'd run excitedly into the house to announce that "the rain is coming – come look at the black clouds". Mama would run out to get the clothes off the line, and be so disappointed.

I was about 4 or 5 on Black Friday, and it is something I will never forget. I was drawing a flower with crayons at the west window of my room, and when the black cloud arrived, it was with such force that the fine black silt was forced around the window-frame and poured into the room like a dry waterfall. Quickly, we wrung out towels in the bathtub and put them over the windowsills to stanch the flow.

Because I was fascinated by flowering plants I wanted to know their names, and how they lived, and why they came and went at such incomprehensible intervals. One year, the

American elms that lined the property across the street stayed green all through the summer. That would have been in about 1942. It was puzzling, because I “knew” that trees always lost their leaves twice a year, winter and summer. Nobody I asked could say why.

The Santa Fe railroad came through town just a few blocks away, and often enough there would soon be ragged, weary men approaching our house. I never saw more than one at a time. There seemed to be a courtesy among those homeless, ragged and weary men that permitted only one at a time to come up the driveway and knock on the back door. In almost a whisper they would ask my Mom “Ma’am, could you spare me a sandwich. I haven’t eaten today.”

No matter how many hungry children Mama had to feed that day, she would always make a sandwich, and if there were anything in the house to add to that, in it went. In those times before plastic containers, she would offer a jelly-jar full of clean water or a cup of coffee if it was cold. The visitor would gulp it gladly, leave the cup on the back step, and move on.

Hobos were a fact of life; in the city where times were hard, too, but there was a roof over our heads and water in the pipes and gas in the little stoves that heated each room in the winter. Nobody talked about how the homeless folks slept, at least, not around children. Once an aunt took my sisters and me for a ride across the city. That route crossed the dry Canadian river bed, and we saw a huddle of cardboard tents under a bridge, where dirty barefoot children and disheveled thin women stood staring at something. I asked my aunt “why are those ladies out under the bridge?” Her reply was sharp: “you weren’t supposed to notice that. Those were not ladies, they were tramp women”.

Lately there has been a spate of new books about the dust bowl days. They speak of a worldwide economic collapse and of governments helpless in the face of an unprecedented disaster. It was there that I learned that the jobless were made to feel ashamed of their condition, as if they had chosen it, and were humiliated by the workers in the relief agencies.

CONSERVATION CORNER

Chad Cox

My request for reports on the callery pear infections in Oklahoma towns was only partially successful. About the only reports I received were those from people that already had noted the infections where they lived, that is, they did not need to look for them. Even those reports are instructive. Although not that many were reported, all towns of any size had infections.



Did our terrible summer kill this callery pear?

The drought here in Oklahoma appears to have killed some smaller callery pears, especially those out in a prairie setting. The older trees, like those of other species, have lived through the summer. Perhaps this is well known in forestry but I noticed that sprouts on trunks appeared hardier than the larger young callery pears. An area of the Sutton Urban Wilderness was cleared of red cedars autumn before last and during that clearing several callery pears were broken off at ground level. These sprouted back last year and then grew a little more this year. As picture here, the sprouts are on stumps that are about the same age as the leafless tree. The larger root systems supporting a smaller leafed section undoubtedly

made them more hardy. It is quite clear that callery pear stumps will need to be poisoned as part of any control procedure.



Callery pear sprouts on stump

John Muir in his book about being raised on the Midwest plains wrote about his battles with the stumps of burr oaks in the plains. Although there were no stately trees in the plains since the sprouts from these stumps faced continual removal through fires and predation, the stumps continued to grow and were massive and hundreds of years old. His family had a giant plow and a multi Oxen team that he used to remove the stumps from his family's farm as well as many of his neighbors' lands. Makes you admire just how persistent plants are, even individual ones.

Those of you that received emailed request for reports on infestations of callery pears in your area are not off the hook. Expect follow up emails in the future. Sure would be helpful to have some members that would note the outer boundaries of their town's infestations so as to monitor the callery pear spreading rate. If you would like to participate in this mapping of the callery pears, email me.

BOOK REVIEW

Pat Folley

Eating the Sun / How Plants Power the Planet
by Oliver Morton

This was a library book I borrowed from the Norman Public Library in November, 2012. And, as it's one of the best science books I've read in a long while, I want to remember it well. In fact, I've already ordered a copy of my own from Amazon.

It was published by HarperCollins in 2008, well-bound but almost without illustrations. Actually, it's three books in one: Part One is the story of the decoding and understanding of the process of photosynthesis, using the tools of modern biology, chemistry, and especially, machinery. It's full of entertaining anecdotes which enliven the narrative and keep it from plodding even for a moment.

Sample, page 92: "Our bodies are stardust, our lives are sunlight."

Page 169: "The true photosynthesizers are all bacteria".

Page 206: "Every chloroplast in every plant across the world today is descended from one particular cyanobacterium that was swallowed by one particular eukaryote"

Part Two tells the story of how the Earth learned to perform this very complicated process, inventing life itself from the materials derived from the birth of the solar system. Part Three describes how, in the lifetime of a grand old tree, human culture and technology is undoing the processes of life, and how a looming disaster might be averted.

All through, the stories are told in a straightforward, matter-of-fact language that sticks to the facts, doesn't attempt to frighten the reader into despair, but lays the facts on the line for anyone to see. I wish the whole world could read it!

And this little quotation by Louis McNiece: "World is suddener than we fancy it/ World is crazier and more of it than we think / incorrigibly plural."

Editor's note: At Pat's suggestion, I read the book and enjoyed it.

ONPS ON FACEBOOK

Lynne Michael

I frequently hear that people don't want to join Facebook (fb) for privacy reasons. After having been a member for many years, I hope to alleviate your fears and tell you why you want to be a member and read all the great things happening on the ONPS group page.

Facebook has privacy settings. After you set up your profile you will see your name at the top of your page. To the right of your name are the words "Home" and two icons: a lock-looking one and a gear-looking one. If you click on the lock one it states: "Privacy Shortcuts" and has "Who can see my stuff?" "Who can contact me?" and more. This is one place to limit the individuals that have access to your information. The next icon has "Account Settings" and "Privacy Settings" which are other places to control your exposure. Many people set up their accounts and never look at these settings. Their pages can be seen by anybody on fb. With these limits in place, only people you acknowledge can see your information. They must "friend" you with a friend request and you can accept or ignore the request. Until you accept them, they cannot see personal information about you. They can see names and pictures of your friends, which is a way they can tell if you are the right person, and they can see your photo albums. I don't post pictures that may give too much information.

To set up a facebook account you need your first and last name, email, your gender, your birth date, and a password. After you set up your account, go to the privacy setting and click so that it will NOT show your birth date, email, and any other information you don't want seen. I suggest you post a native plant picture as your profile picture if you don't want to post a picture of yourself.

If you still have privacy issues, don't accept many friends, don't play any games, and don't post any pictures. You can still use it to see happenings on the ONPS group page by adding the group as one of your favorites. It is a closed group, so only members see our posts and new members have to be approved. Recent posts have included positive identification of Purple Cliffbrake by consensus of several members and posting of pictures of

blooming plants in all seasons. Latest post was of Blue-eyed grass. ONPS events are also posted, but members can and should add any they are aware of.

That is a quick snapshot of some facebook privacy features. Hopefully, we can all post and share our knowledge of Oklahoma native plants there. Other related: Mycology Chapter Oklahoma Native Plant Society group, and Color Oklahoma page.

INDOOR OUTING 2013

Alicia Nelson

Oklahoma Natives: Plants and People

The NE Chapter members were pleased to host the Indoor Outing this year at the Tulsa Garden Center. Members and guests from all over the state came to enjoy this multicultural and educational event. The weather was beautiful and over 225 attendees had the pleasure of experiencing the information and demonstration booths, and native plant vendors.

Dr. Jay Walker, NE chapter member and mc for the event, began the program by sharing with the group his personal experience and early research of indigenous tribal cultures and how they used native plants for medicinal purposes. He described his field experience and the ways the plants were extracted and properly treated. He shared with us some common native plants and what treatment they were used for medicinally. Dr. Walker's research and expertise has contributed to the pharmaceutical industry.

The Mvskoke Food Sovereignty Initiative shared how the early Muscogee people gathered and preserved foods for all seasons. Rita Williams, shared the importance of cultural knowledge taught by the elders of the family, of plants, nuts and berries.

Stephanie Berryhill, M.S., Anthropology/Linguistics, spoke and demonstrated how the possum grape was used by her culture. Each guest had the opportunity to taste possum grape juice. Mike Berryhill, is a traditional bow maker and founder of the Red Stick Bow Society. He shared with us the plants used in traditional bow making, such as the Osage

orange (*Maclura pomifera*) and brought numerous samples of bows and arrows for us to view.

Judy Jordan, author of *Plains Apache Ethnobotany*, spoke during lunch about her experience with the Southern Plains Indians of OK and graciously hosted a book signing booth.

After lunch, The Cherokee Native Art and Plant Society gave a wonderful presentation on how Cherokee artists use plants and interact with their natural environment. Shawna and Rog Cain are Cherokee National Treasures with an educational background in cultural anthropology/ethnobiology and ethnobotany from the University of Arkansas. The video presentation had live interviews with Cherokee elders and how they used the indigenous flora (river cane, buck brush, buffalo grass, etc.) with traditional Cherokee art. Toby Hughes, also a Cherokee National Treasure, shared with our guests, how his family elders have passed down to him a manuscript containing over 60 writings for traditional ways of using native plants for medicinal purposes. These writings were written in the pre-trail of tears Cherokee language. He is now translating these writings to the Cherokee language of today.

During the breaks everyone enjoyed the varied experiences throughout the workshop. Oxley Nature Center demonstrated the early pioneer uses of the yucca plant. Katherine Rackliff shared her technique of “hidden turtle” Cherokee basket weaving. Tina Julich brought her handcrafted jewelry. And Lisa Rutherford, Traditional Cherokee Arts, shared her textile imprinted pottery and demonstrated the technique of twined textiles. Guests also had time to visit with Dr. Kevin Gustavson, Oklahoma Conservation Commission on how to incorporate native plants into their landscape. The OK Centennial Botanical Gardens, The Nature Conservancy, Color OK, Mvskoke Food Sovereignty Initiative, Cherokee Native Art and Plant Society and Lin Kobsey Travel were all participating informational booths. And for those early gardeners, we had three participating native plant vendors, Wild Things Nursery, Pine Ridge Gardens and Groggs Green Barn. George Pierson, NE chapter member, docent and contributing photographer to The Nature Conservancy, was our roving photographer

during the event, helping us to record and remember with photos.

For the grand finale, Russell Studebaker, Garden Columnist, Tulsa World, and former City of Tulsa Senior Horticulturist gave a wonderful history presentation on site at the *Creek Council Oak* at 18th and Cheyenne. In the 1970's, Russell designed a garden of native plants that were used by the Creek Indians in their native homeland. He shared with us a species list and talked about the plants and how they were used in traditional ways.

Our committee wanted to bring an appreciation and awareness of all the attributes that our state of Oklahoma has amongst its peoples and landscape. We are a very diverse state botanically, from the western salt plains, through the crosstimbers, tall grass prairies and Ozark plateau to name a few. But, Oklahoma is also rich in history of many different indigenous cultures of North America that have contributed to the uniqueness of our state of Oklahoma.

CHAPTER ACTIVITIES

Cross-Timbers Chapter
Elaine Lynch

Our first event of the spring will be a field trip on Saturday, April 6, to Roman Nose State Park to view early spring wildflowers. All the details have not been worked out as yet. We will post more information to the ONPS listserv when we have it.

On Friday, April 12, we will again be co-sponsoring Plants and People: Annual Botany & Library Seminar. This year's speaker is Nicholas Money, Professor of Botany and Western Program Director at Miami University in Oxford, Ohio. His talk is titled “The Amoeba in the Room: Why Animals and Plants Don't Matter Very Much.” The seminar and a reception will be held in the Peggy V. Helmerich Browsing Room in the Edmon Low Library on the OSU campus in Stillwater from 3:30 to 5:00 p.m.

Following the seminar, chapter members will hold a potluck dinner in Life Sciences East Room 110, beginning at 6:15. Dr. Money has agreed to talk at the dinner on “Demystifying the Magic Mushroom.” We invite any ONPS members who

come to Stillwater for the seminar to be our guests at the potluck.

Our final spring event will be a return to the Cow Creek Restoration Project for a repeat botanical survey. This field trip will be Saturday, April 27th.

The following presentation is hosted by Plant Path/Entomology, Biochem/Molecular Biology, and Micro/Molecular Genetics, the Oklahoma Native Plant Society and OSU Botanical Society.

The Amoeba in the Room: Why Animals and Plants Don't Matter Very Much

by Nicholas Money

Plants and People: Annual Botany & Library Seminar

Oklahoma State University, Edmon Low Library, Peggy V. Helmerich Browsing Room
April 12, 2013, 3:30-5:00 p.m.

Here are some facts of life: A drop of seawater contains 100 thousand bacteria and millions of predatory viruses; a pinch of soil swarms with cryptic microbes whose activities are a mystery; the atmosphere is misted with 50 million tons of fungal spores that affect the weather; and, our bodies are farmed by vast populations of bacteria and viruses that control every aspect of our wellbeing. The more we learn about microbial biodiversity, the less important become animals and plants in understanding life on earth. The flowering of microbial science is revolutionizing biology and medicine in ways unimagined just a few years ago and is inspiring a new view of what it means to be human.

Biographical

Nicholas Money is Professor of Botany and Western Program Director at Miami University in Oxford, Ohio. He is the author of more than 70 peer-reviewed papers on fungal biology and has authored four books, including, *Mushroom* (2012) described by *Nature* magazine as a "brilliant scientific and cultural exploration." He is working currently on *The Amoeba in the Room: The Majesty of Life Unseen*, which will be published in 2014. This book examines the extraordinary diversity of the microbial world and the invisible majority of life that is detectable only using molecular methods.

Potluck Dinner

All ONPS members are invited to a Potluck Dinner hosted by the Cross-Timbers chapter following the seminar. Dr. Money will give an additional talk at the dinner titled "Demystifying the Magic Mushroom." A variety of mushroom-forming fungi produce psychoactive metabolites that interfere with the transmission of nerve impulses. The resulting experience of mushroom inebriation has been associated, without reason, with a range of supernatural phenomena and religious experience. There is, however, a more meaningful way of appreciating the pharmacological effects of the potent alkaloids in fly agarics and psilocybes. Recent research shows that psilocybin, whose structure mimics serotonin, shows tremendous promise as therapeutic agent for treating depression and may be a valuable drug in palliative care. In this presentation, Professor Money will discuss the science of magic mushrooms, introduce some of the bizarre characters associated with early mycological investigation, and share his thoughts about the religious significance of the mushroom experience. Dinner will start around 6:15 and Dr. Money's talk will follow dinner, around 6:45 p.m.

For more information on the Plants and People Seminar, the potluck or the field trips, contact Mark Fishbein (405-564-4652, mark.fishbein@okstate.edu) or Elaine Lynch (405-624-1461, mneslynch@yahoo.com). Additional information will also be posted to the ONPS listserv when it is available.

Central Chapter
Joe Roberts

As I write this, we are receiving much-needed moisture in the form of rain mixed with snow. I had nearly forgotten what snow looked like. The falling snow is pretty to watch from inside with a cup of coffee in hand, and gives the feeling that we are truly in February, in contrast to the 70 degree days we have been having. Hopefully this will put a dent in the drought, and with luck we will get more moisture and a great spring bloom for a change.

Several Central Chapter members went to the Indoor Outing in Tulsa recently, and it was great to see everybody. Great outing and kudos to the NE Chapter for putting it on. The outing got me re-energized to get out and collect some spring edibles. It won't be long, now.

Speaking of spring edibles, the Central Chapter will have its first meeting of the year at 7pm on March 25th at Oklahoma City University in the Dawson-Loeffler Science Building, room 102. Our speaker will be Dr. Clark Ovrebo of UCO. He will give a presentation titled "Introduction to Spring Mushrooms." This will tie in nicely one of our outings, as we are planning on joining with the mycology chapter's spring morel walk (see below). For those interested in doing a little homework before the presentation, Dr. Ovrebo has written an informative paper titled "Common Spring Mushrooms of Oklahoma." It was published in our own Oklahoma Native Plant Record, Volume 8, Number 1, December 2008. The article can be accessed for free off of the ONPS website. Click on "Oklahoma Native Plant Record". The full address is <http://ojs.library.okstate.edu/osu/index.php/ONPR/article/view/117/104>

Depending on weather conditions, we will join the Mycology chapter for a morel walk on morel mushroom walk late March/early April. Please stay tuned for details, as the walk will probably not happen if there is dry weather, hard frosts, or warm periods around that time, which, in Oklahoma, can all happen in the same day. If you are planning on coming, please look for information sent out via the listserve, or call Joe at (405) 820-6851 beforehand.

On Sunday, April 21st, we will go on a wildflower hike at the Nature Conservancy's Pontotoc Ridge Preserve, Pontotoc County. Kim Shannon will lead the hike. Please bring a picnic lunch and something to drink. After our hike, we will have a picnic at Pontotoc Ridge Preserve, then drive to the Nature Conservancy's newest Oklahoma project, the Oka' Yanahli Preserve on the Blue River in the afternoon. Some of you may have been present at our meeting last year when Jona Tucker of the Nature Conservancy gave a presentation on this recently acquired property.

On June 15th we will combine with ONPS members from around the state at the Wichita Mountains Wildlife Refuge near Medicine Park (or Lawton), OK. This wildlife refuge has unique rock mountains and outcroppings, and native grasslands that should be a tapestry of wildflowers if conditions are right. Details have not been ironed out yet, so keep watching the

listserve, Facebook page, or your mailbox for more information.

For information on these and other activities, please contact Joe at (405) 820-6851. We will send out notices as the dates draw nearer.

FIELD TRIP RULES

- Participation is at your own risk.
- Preregistration is required for all field trips.
- Field trip announcements will contain the name, address, and telephone number of the leader. If you have doubts about the terrain, difficulty, etc., ask.
- Collecting any plant parts or other materials at the site must be approved by the field trip leader.
- Field trips take place rain or shine. Hiking boots, long pants and a hat are essential.
- Bring water and lunch or a snack. Sunscreen and insect repellent are always in demand. Field guides, a camera and binoculars are nice.
- All ONPS field trips are open to the public at no charge, unless charges per-member are specified in the announcement. Visitors and newcomers are always welcome.
- Children old enough to keep up are welcome. Pets are not.

Northeast Chapter
Alicia Nelson

Members, we will meet again on March the 4th at the Tulsa Garden Center beginning at 6:30 pm for desserts and snacks. At 7:00, the meeting will begin.

Have you ever been curious about the mosses and liverworts? Do you want to experience a *moss milkshake*? We have two outstanding individuals coming from Oklahoma State University to speak to us about, *Bryophytes: What They Are and How They Work*. Brooke Bonner earned an M.S. in Botany researching vegetation at the Salt Plains National Wildlife Refuge, and is currently working towards a dissertation, investigating the pollination and reproductive success of native wildflowers in agricultural systems. She is an active board member of ONPS since 2010. As a consulting botanist, Channing Richardson has conducted numerous surveys for threatened,

endangered, and sensitive plant species in the Appalachian and Ozark Mountains. His current research includes updating the known flora of Oklahoma with an emphasis on bryophytes, and determining the effects of disturbance events on bryophyte communities. This will be interesting you won't want to miss it!

Our members are already on the move this year. We had a talented committee that developed, organized and worked very diligently towards a successful statewide Indoor Outing event called *Oklahoma Natives: Plants and People*. I hope you had a chance to attend, it was an interesting and fun event! A sincere thank you to all members who helped make this event successful! We also hosted a booth Feb. 16th, for the Tulsa Garden Center Info Fair. Many area Tulsans visit this event yearly. It is a great venue to talk about ONPS to potential new members.

Mark your calendar, NE Chapter members, for the *2013 Spring Outing: Wildflower and History Walk*, on April 13th. Our group was invited by the Spring Creek Coalition to help host the event by providing plant experts as field guides for the area. Dr. Jay Walker and Lynn Michael will be guiding the participants along the Lucky Springs area. This area is listed on the Oklahoma Natural Areas Registry, is privately owned and still consists of a cool active spring. We will meet at the Tulsa Garden Center at 8:00 am to form carpools to travel to Peggs, OK. Travel time will be about an hour. Bring a sack lunch and drink, I will have a large cooler available. Please RSVP to aknlsn@att.net or call me at 918/599-0085.

We still meet each month on the 3rd Friday at Panera Bread on 41st and Hudson in Tulsa at 5:30 for "Wildflower Friday's".

Mycology Chapter Clark Ovrebo

Dr. Clark Ovrebo will give a talk and lead a local field trip in June, 2013.

The lecture will be held at the Myriad Botanical Gardens, Tuesday evening, 6-8 pm, June 11, in the Terrace Room. During the lecture Clark will introduce you to the collection and study of wild mushrooms of Oklahoma and illustrate some of the more interesting species with colored photos. This lecture is a Myriad Botanical Garden function and cost \$10 for members and \$15 for nonmembers.

On Saturday, June 15 at 9 am, he will lead an ONPS field trip at Lake Thunderbird State Park off State Hwy 9. Meet at the Nature Center. If it has been wet you will see some of the local early summer mushrooms. You might also bring any mushrooms that you find to either the lecture or walk.

WELCOME THESE NEW MEMBERS

Vicke Adams, Proctor
Nikki Austin, Pawhuska
Marilyn Clarke, Tulsa
Amanda Coe, Talala
Marilyn Coker, Sand Springs
Jamie Csizmadia, Edmond
Sandra Dunn, Medicine Park
Peggy Ewing, Tulsa
Andrea Farriester, Oklahoma City
Kelley McGrath, Stillwater
Julie Skye, Tulsa
Jacqueline Smith, Tulsa
Charles Thornton, Bixby

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) _____

Address: _____

Phone: Home _____ Cell _____ Office _____ Please do not list my phone _____

E mail: _____

Renewal __ or New Member __ Dues are tax deductible.

Annual Membership Choice: \$15 Individual __ or \$20 Family __, or \$5 Student __

Life Membership Choice: \$250 Individual __ or \$350 Family __

Add \$5.00 __ to cover cost of copying and mailing a complete ONPS directory if desired.

Volume 12 of *Oklahoma Native Plant Record* Abstracts
Indexed in Centre for Agricultural Biosciences International

Another milestone has been reached as we announce that abstracts in the *Oklahoma Native Plant Record* will be indexed by the Centre for Agricultural Biosciences International (CABI) beginning with volume 12. Their reviewers judged our publication as, “highly relevant to our subject area of the applied life sciences”. We are bustin’ our buttons! We want to thank all our authors, reviewers, and subscribers over these 12 years for supporting and promoting the valuable work we publish. We look forward to the future as we work to increase the size, circulation, and accessibility of the journal and recruit new and more authors to contribute relevant articles about Oklahoma’s native plant species.

This year’s *Oklahoma Native Plant Record* is all about learning from history. Publishing Dr. Marilyn Semtner’s 1972 Master’s thesis this year offers us an opportunity to gain a new perspective on why some introduced species become invasive in natural habitats where others “fail” to do so

Mr. Randall Ledford has collected extensive information regarding use of Oklahoma’s native plant species by the Pawnee. He gives us a preliminary plant list that is sure to become part of an important resource that can be used in Pawnee cultural education. We are hoping to build anticipation and interest in this area of social and botanical research overlap. His goal is to collect and organize this little known body of knowledge for wider dissemination

Dr. Gloria Caddell and Ms. Kristi Rice have provided us with the long anticipated flora of Alabaster Caverns State Park. It also compares flora in those Gypsum outcrops with two other previous studies, at Selman Living Lab in Woodward County and on a ranch in Major County, that were done ten years ago.

An inspirational botany teacher at McLoud High School and at the University of Oklahoma Biological station, Dr. Bruce Smith offers us a comparison study of two oak forests based on data collected by his students from both locations. Engaging his students in plant distribution and ecological studies, he constantly works to fulfill our need to collect and preserve data for the future—future history, to be used by future scientists.

This year our "Critics' Choice Essay" is from Dr. Wayne Elisens. He tells us how herbaria are making specimen data and images globally accessible. We will be able to see and learn from historical collections from all over the world.

The Oklahoma Native Plant Record will keep passing on the science and keep building on what we know. We do not want to lose, or fail to learn, what future generations will need to know to keep Oklahoma's native plant species thriving in Oklahoma. As our practice of publishing historical, unpublished work shows, we believe in the importance of historical works and how they can inform current science policies and future research. Moving into the future, *The Record* is now available on the world-wide web through <http://ojs.okstate.edu/osu/index.php/index> and it is listed on the Directory of Open Access Journals through www.doaj.org. Look for all our past volumes there, as well as www.cabi.org.

Sheila Strawn
Managing Editor

Oklahoma Native Plant Record
Volume 12, December 1, 2012

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