



THE OFFSET

February 2014

Webpage <https://sites.google.com/site/cocssok/>



Echinocereus reichenbachii subsp. baileyi
in the Wichita Mountains NWR, Oklahoma.
Mount Scott in the background. Photo by
Michael Douglas

NEWSLETTER OF THE CENTRAL OKLAHOMA CACTUS AND SUCCULENT SOCIETY

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Meeting: Third Thursday of the month at 7 pm. At the Will Rogers Garden Center at 3400 NW 36th in Oklahoma City (except for the month of our Show&Sale, picnic and Christmas party).

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CLUB NEWS



Read your newsletter for information regarding January's meeting, the Planning Meeting on the 18th and the Program for this month. All contain information we need to read and digest and jot down on our calendars. Those at the Planning Meeting tried to come up with some good programs for the year and some activities we all might enjoy and help advertise the club. Even though we had to cancel the Mid-States Conference, we are starting to look forward to our Annual Show and Sale and as always, we need lots of help with this and member participation.

The February meeting is going to be a laid back time, giving everyone an opportunity to discuss various items we have coming up for the year and get the dish garden workshop details finalized along with shopping and talking plants. **Bring a snack!**

Rosario Douglas has been working on getting some speakers for the year and she's getting several lined up and all will be providing some interesting and informative programs. Be sure and come support the club!

The refreshment list for the year will be out on the table during the February meeting and we still need some months covered. If you happen to forget to sign up, send Rosario an email and she will get you on the list. If it would be easier to just assign members a month, bring that up at the meeting and we can discuss it. (*Uncovered months will be covered by the 'club' since we can not ask individual members to do this more than 1-2x a year.*)

If you run across any interesting books for purchase by the club, let Tony Furrh know and he will check into these. Be sure and check the library for additions of periodicals and journals. Some new ones have been received and are ready to be checked out. See you on the 20th!

President Niki Furrh



TIME TO RENEW YOUR DUES

Don't forget that it is time to renew your dues. It is \$10 for individuals and \$15 for families. You can mail the check to Peggy Anglin or you can pay at the next meeting. Let Peggy know if you have a new email address or a new address.

CLUB NEWS

MINUTES OF MEETING OCTOBER 17, 2013

Submitted by: Niki Furrh



The meeting was called to order at approximately 7:00PM. Treasurer Peggy Anglin reported a bank balance of \$6,041.41 and a current roster of 44 members. The minutes from the last meeting were approved as published.

OFFICERS: Motion was made and seconded to leave the current slate of officers in place for 2014 with the Mid-States Conference coming up in June, 2014.

The Christmas Party was discussed briefly and current plans are to have it at the Garden Center in order to help save some money since we have the conference expenses looming ahead. The party has been scheduled for Dec 14th at Peggy Anglin's home. Details will follow in the newsletter.

NEW BUSINESS: Fred Hill mentions that the Master Gardeners for Oklahoma County are having a 'boot camp' 3 Saturdays in a row after the first of the year and he will get further details on this and present to interested members of the club.

Peggy Anglin has recently taken a tour of the new Devon Tower and suggests that this might be an interesting outing for the club. Reservations need to be made ahead of time.

PROGRAM: Niki Furrh presented a short program on "What The CSSA Can Do For Us" along with some history of the organization and how our sister affiliate clubs have tied in together over the years. Members were asked to bring some plants to donate to a raffle and this was carried out with almost everyone leaving with a plant or two in hand. (\$32 was raised and will be deposited into the club's account to help with conference expenses.) The meeting was adjourned at 8:50pm.

CENTRAL OKLAHOMA CACTUS AND SUCCULENT SOCIETY- Jan 16th meeting minutes By Niki Furrh

The program was started at 7:15pm and presented by the Douglas', titled "Landscapes and Succulents of the Richtersveld - South Africa". Mike and Rosario have been traveling the last 3 months and shared a portion of their trip with us. Due to time constraints, Mike indicated that he will be putting the program on the web with additional narration. Even if you were present for the program it will be time well spent to pull this program up and watch it again.

After refreshments the business meeting was called to order at approximately 8:10pm. (There were no meeting minutes for November and December.) Treasurer reports a current balance of \$5,606.41 and reminds us that club dues are now payable. Hopefully, all will be received by the next meeting -- dues can be mailed to Peggy directly if more convenient.

Long time Garden Center employee and friend to the club, Louis Scott, passed away in the fall. We would like to do something in Louis' name for the Garden Center and will give this some thought and present some ideas at the next meeting.

A Planning Meeting is set for Saturday, January 18th, at the home of Peggy Anglin and, as always, all members are encouraged to attend. We will be planning programs for the year and discussing possible field trips and/or other activities for the club during 2014.

MID-STATES CACTUS AND SUCCULENT CONFERENCE - Due to unavoidable health and family problems with several members during the last several months, the question of the club being able to physically host the MSC has come into question. With active club membership consisting of only a handful of people, most involved are very hesitant of being able to host an event in the way it deserves to be held. Mike Hellman with the St. Louis club graciously offered some assistance from their club and this was discussed in length. The pros and cons of hosting such an event was discussed and then a ballot vote was taken with **4 "yes - to have the event", 9 "no - not to hold the event" and 2 "no - I can not participate in the planning or the event itself"**. With the 'no' votes double the 'yes' votes, it has been decided to cancel our hosting plans. We will contact the Kansas City club (hosts for the 2012 conference) regarding our decision and return the \$1500 start-up funds sent earlier. This is disappointing to all of us but circumstances beyond our control have made this decision necessary at this time.

The meeting was adjourned at 8:55pm.

CLUB NEWS



MINUTES OF PLANNING MEETING JANUARY 18, 2014

CENTRAL OKLAHOMA CACTUS AND SUCCULENT SOCIETY

A Planning Meeting was held at 10:00 am January 18th at the home of Peggy Anglin. Present were Niki & Tony Furrh, Mike and Rosario Douglas, Joyce Hochtritt, Fred Hill, Peggy Hill, Helen Hill, Peggy Anglin, & Robert Millison.

Items needing to be addressed regarding the Mid-States Conference were discussed including contacting the hotel, speakers, & any other person or entity needing to know that the conference had been cancelled. Joyce Hochtritt will be contacting the vendors again advising them that the conference has been cancelled but we would still want them to come to the Annual Show and Sale.

The WRGC has been reserved for the weekend of June 21st and 22nd with set up on Friday, June 20th for our Annual Show and Sale. It was proposed that we consider the possibility of having the Judged Show plants arranged in the cactus side of the conservatory to help encourage visitation to the new conservatory but this was deemed impractical to those who felt the plants should be near the sales area to help encourage sales. A 'speaker' was also suggested during the Show & Sale weekend, perhaps in the sales room *if the Judged Plants were in the conservatory*, but this was thought to be too busy an area (our normal meeting room is reserved that weekend) and members wondered if anyone would really be interested in hearing a speaker during the Show & Sale.

Programs for the year were discussed in detail and we are hoping to get several speakers for the year. Rodd Mossel is planning a talk in August and Melinda MacMillan, the Horticulture and Gardens Manager for the City is scheduled for October. Steve Owens, author and owner Bustani Nursery, is on the schedule for November. Fred Hill will be giving a program in April and another workshop open to the public is being planned for July. Our annual picnic is currently planned in September at the Furrhs and the Hills are hoping to host the Christmas Party in December.

The meeting was adjourned at 12:00pm.

COCSS February 20h Program

'BUY, TALK, PLAN & EAT!!!!'

Our meeting this month will be a casual affair with a mini plant sale, Show & Tell, \$1 ticket raffle and other items. Besides a small array of cactus and succulents for sale, there will be approximately 6 'show quality' plants for sale also. (*Cash & checks will be accepted*) We are fast approaching the 90 day cut off for ownership of a plant shown in the Judged Show section of the Annual Show and Sale. If you need a plant or want to add to your collection which you will be entering, this will be an ideal time to consider purchasing a plant. We are hoping that **everyone** will be entering at least one plant in the Judged Show and hopefully more. Remember, **the Judged Show is 50% of what our Annual Show and Sale is about**. Other members will be available to help you select a specimen if you need help and also give advice on cleaning the plant up, repotting, etc.

Bring something for Show & Tell -- this really does help encourage others to see more mature or interesting plants up close and personal.

The dish garden workshop a couple of years ago was a huge success and we are planning to hold another in July - the month after the Show and Sale. We will discuss this in more detail at the meeting and get decisions made now for what will be needed, advertising, etc. since we will be involved in the Show and Sale itself from March on.

Another yard tour is tentatively set for the Saturday after the Show & Sale, June 28th, so we will need to finalize these plans to be sure it's included in the advertising.

For **refreshments** we are asking everyone to bring a snack and we will put everything together and snack throughout the evening. The club will get drinks and ice.

See you on the 20th!

FROM THE MEMBERS

As you may remember Jean Heart's *Agave americana* found a new home last December. The agave kept blooming and even sent out two flowers in January. Bees somehow managed to get into the classroom and found the flowers. Here are some photos Jean sent me.



The last photo shows one of the nice bonsai pots Jean got at a nursery in Norman. She used it to pot her Gasteria plant.

CACTUS AND SUCCULENT HAPPENINGS IN THE REGION



February 20- Central Oklahoma Cactus and Succulent Society monthly meeting at 7:00 pm at the Will Rogers Garden Center.

Program: **Mini Plant sale, raffle and discussion about future club activities**

Refreshments: Everybody needs to bring a snack to share. Club will provide the drinks.

March 20th – Central Oklahoma Cactus and Succulent Society monthly meeting at 7:00 pm at the Will Rogers Garden Center.

Program: **To Be Announced**

Refreshments:

March 29 -30 - Colorado Cactus and Succulent Society's Annual Show and Sale, Denver Botanic Gardens, Denver, CO.

April 5 - 6 - Austin Cactus and Succulent Society's Spring Show and Sale, Zilker Botanical Gardens, Austin, TX.

April 17 - Central Oklahoma Cactus and Succulent Society monthly meeting at 7:00 pm at the Will Rogers Garden Center.

Program: **Gardens of Alcatraz.** By Fred Hill

Refreshments:

April 25-26-27 - San Antonio Cactus and Xerophyte Society's Annual Show and Sale, San Antonio Garden Center, San Antonio, TX.

May 15- Central Oklahoma Cactus and Succulent Society monthly meeting at 7:00 pm at the Will Rogers Garden Center.

Program: **Preparation for the Show&Sale**

Refreshments:

June 21 - 22 - Central Oklahoma Cactus and Succulent Society's Annual Show and Sale, Will Rogers Garden Center, Oklahoma City, OK.

July 17 - Central Oklahoma Cactus and Succulent Society monthly meeting at 7:00 pm at the Will Rogers Garden Center.

Program: **Workshop (open to the public)**

Refreshments:

August 9 - 10 - Kansas City Cactus and Succulent Society's Annual Show and Sale, Loose Park Garden Center, Kansas City, MO.

August 30 - 31 - Austin CSS Fall Show & Sale, Zilker Botanical Gardens, Austin, TX.

ARTICLE OF THE MONTH

The following article appeared in The Oklahoman on November 18h. For now the conservatory is only open on weekdays, but there are plans for possible changes to the visiting hours.

Historic Oklahoma City conservatory set to reopen at Will Rogers Gardens

Known for housing rare cactuses and other exotic plants, the Ed Lycan Conservatory closed for reconstruction in 2011. It is ready to open Nov. 20 at Will Rogers Gardens in Oklahoma City.

By [Robert Medley](#) Modified: November 18, 2013 at 12:00 pm • Published: November 18, 2013

The Ed Lycan Conservatory, full of rare cactuses in desert landscape displays, fell into disrepair and was closed at Will Rogers Gardens two years ago.



Tony Furrh, of Oklahoma City, volunteers helping set up the desert display at the new Ed Lycan Conservatory at Will Rogers Gardens Photo by Robert Medley

The conservatory was falling apart in 2011, said Tony Furrh, 67, of Oklahoma City. Furrh, a member of the Central Oklahoma Cacti and Succulent Society, and others volunteered their expertise helping city workers set up the desert display with cactuses the public will be able to see grow year round when it reopens

Wednesday.

Furrh said there are rose rocks from the former conservatory. He remembers the jungle rooms and the cactus rooms in the old conservatory, and he said the exhibits will be better than before.

The ribbon-cutting for the reconstructed landmark conservatory is set for 1:30 p.m. Wednesday. It will reopen to visitors then.

The old greenhouse was not safe for people to walk inside two years ago. It was rusting away, Furrh said. The two year wait will be worth it, Furrh said. "We're trying to make it better than before," Furrh said. There will be about 100 plants moved in right away.

In 1936, the conservatory opened on NW 36 just east of Portland Avenue at what was known as Northwest Park, said Jennifer McClintock, Oklahoma City Parks spokeswoman. And since that time, it has been at what is now called the Will Rogers Gardens.

As part of a 2007 general obligation bond issue approved by city voters, about \$2 million of improvement has been completed to the conservatory project, McClintock said.

To see a video and more photos you can go to:

<http://newsok.com/historic-oklahoma-city-conservatory-set-to-reopen-at-will-rogers-gardens/article/3905787>

SUCCULENT PLANTS



The genus Arrojadoa



In 2009 Mike and I participated in a 3 week botanical tour of northern Brazil. Many of the plants we saw during this tour were new for us. One such plant was the cactus Arrojadoa, genus I was not very familiar with. Although we saw them on a rainy day the flowers were very pretty.



We had to get permission to enter the ranch where this cactus was found.

Arrojadoa is a genus of about 6 species of cacti. They are all endemic to northern Brazil. The name honors Dr. Miguel Arrojado Lisboa (a Brazilian geologist and geographer who was also the Brazilian rail superintendent in 1922 when Britton and Rose described this genus).

(<http://cactiguide.com/cactus/?genus=Arrojadoa>)



Arrojadoa species have cylindrical stems and grow in shrubby masses.

Flowers are tubular and very colorful.
(cactiguide .com).

All photos by: Mike Douglas
Taken in Bahia-Brazil.
The cactus is
Arrojadoa penicillata

A study of the pollinators of *A. rhodantha* found that the flowers were visited by hummingbirds, bees and butterflies. Bees were the most common pollinator. Fruits and flowers were also found to be more abundant during the rainy season.

Source: <http://pkp.uefs.br/ojs/index.php/sitientibusBiologia/article/view/99>

For cultivation purposes these cacti can be frost sensitive and should be kept at about 40°F or higher Source: Columnar cacti: <http://www.columnar-cacti.org/a>



The following is an excerpt of a longer article entitled:

Morpho-anatomical diversity of the underground systems of *Arrojadoa* (Cactaceae), an endemic Brazilian genus by Renata C. C. Lemos^{1,*}, Marlon C. Machado², Gladys F. Melo-De-Pinna¹ and published in the The Linnean Society of London, *Botanical Journal of the Linnean Society*, 2013, **173**, 108–128.

Source: the Wiley online library
<http://onlinelibrary.wiley.com/doi/10.1111/boj.12077/abstract>

Members of *Arrojadoa* exhibit a variety of underground structures that can originate from roots or stems. Although the development of underground structures of stem origin in *Arrojadoa* represents a unique trait among Cactaceae of eastern Brazil, no detailed reports on the morphological diversity of such structures are available. The present morpho-anatomical study of the underground systems of *Arrojadoa* has demonstrated that a single species can exhibit one or more structural types, such as single or branched stem tubers, short thick stems and/or long subterranean stems, thick and fleshy contractile roots and normal fibrous roots. Various morpho-anatomical structures relating to the underground storage systems in *Arrojadoa* spp. have also been observed, including thick contractile roots consisting mainly of secondary xylem formed by fibrous wood with wide-band tracheids (WBTs) and underground stems with a wide cortical region and WBTs-type wood. Based on the evidence presented, we suggest that such traits, together with the occurrence of contractile roots associated with underground stems, are important adaptive strategies for the survival of the plants during seasonal drought in areas of cerrado (savannah), campo rupestre (rocky uplands) and caatinga (dry thorny scrubland). © 2013 The Linnean Society of London, *Botanical Journal of the Linnean Society*, 2013, **173**, 108–128.

Photo: *Arrojadoa penicillata* by Mike Douglas

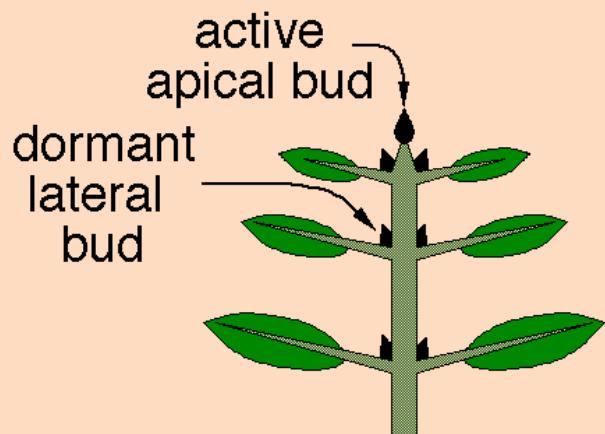
THE BOTANICAL CORNER

by Rosario Douglas



Annulate	Ringed or banded
Aoracanthus	With sword like spines
Apex	Tip, the highest point
Aphyllus	Leafless
Apical	Located at or constituting the apex

Applanatus flattened



Upper left: Annulate rhinophores of the sea slug. See:
<http://www.calacademy.org/blogs/projectlab/?p=1790>

Middle right: an example of the use of the word apical applied to plant anatomy.

Lower left: *Ganoderma applanatum*, a flat mushroom. Wikipedia commons. Photo by James Lindsey.

Terms from a book by W. Taylor Marshall and R.S. Woods. The book is titled, **Glossary of succulent plant terms**, published in 1938. The Cactus Museum at www.CactusMuseum.com, Wikipedia, A glossary put together by John Chippindale of Leeds England. Also terms from CactiGuide.com at <http://cactiguide.com/glossary/>.