



# DESERT BREEZE

Newsletter of the Tucson Cactus and Succulent Society

January 2020

Thursday, January 2, 2020 at 7:00pm

## SPINY SUCCULENTS: Euphorbias, Cacti, and Other Sculptural Succulents and (Mostly) Spiny Xerophytic Plants

Presented by Jeff Moore

Nurseryman and author Jeff Moore has spent most of his adult life negotiating this spiny landscape and takes you herein on a tour of these remarkable plants in cultivation.

This program will explore the his new book's truly extraordinary succulents in cultivation: cacti, euphorbias, fouquierias, alluaudias, and a host of other dry-climate and often spiny architectural wonders. You will see images of some of these xerophytes in their native habitat, but the focus will be on spiny succulents in cultivation. Beautiful images of mature landscape plants will provide you with an appreciation of them at full size and maturity, but many are delightful little container specimens and are also highlighted.

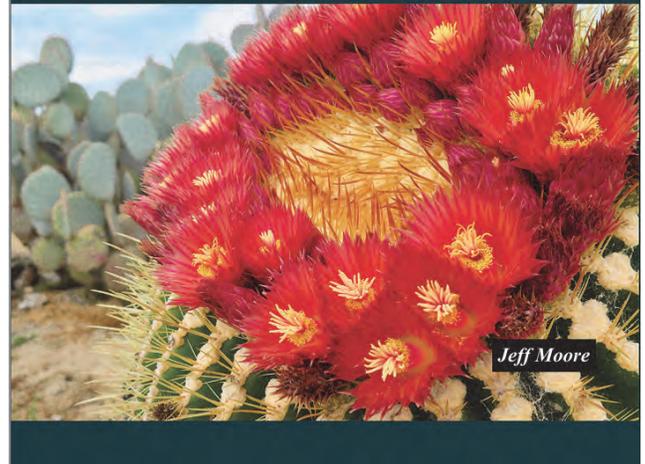
While the structure of succulents is usually the first thing to draw you in, many will amaze you with their glorious and colorful flowers. You'll even learn to love the spines!

Jeff Moore has owned and operated Solana Succulents retail nursery in Solana Beach, CA since 1992. He grew up in Southern California, and is married with two grown sons. This will be his fourth self-published title on succulent plants. Jeff is an accomplished and well-known speaker on cultivated succulents.

Please welcome our new members and visitors to the first program of the New Year and also, make some new friends. Visit our library and check out an excellent book! During the break, you will want to enjoy the great refreshments and also, try your luck to win some of the plants available in the raffle. Stay until the end of the meeting and get your free plant offered to you by the Tucson Cactus and Succulent Society.

### *Spiny Succulents*

*Euphorbias, cacti, and other sculptural succulents and (mostly) spiny xerophytic plants*



**TCSS Program Presentation**  
Thursday, February 6, 2019 at 7:00pm  
Program information to come.

## January Meeting Refreshments

Those with family names beginning with A - J, please bring your choice of refreshments to the meeting. Your generous sharing will be greatly appreciated and enjoyed!



Sky Islands Public High School • 6000 E. 14th St.



## President's Message

Happy New Year

We ended 2019 on a high note. We had the largest Holiday Party in our 59 year history. 194 members, family guests signed up to attend. Great food, great fun and great plants and gifts. The tables were decorated with small plant rescued and purchased to enhance the holiday spirit. Thanks to

all who helped and participated.

Our Society accomplished two very special achievements. In 2019, our society set a new record of 1,401 members and shortly after our 20th anniversary of the rescue program, we rescued our 100,000 plant. We all need to be proud of these accomplishments.

We are a lot more than just numbers with an always excellent monthly meeting, great educational activities, Pima Prickly Park, a "Field Guide to Cacti and other Succulents of Arizona", and in 2020 Sonoran XIII.

This is my 19th consecutive year as President. What a privilege! There are 4 newly elected Board members to join with the continuing 8 to keep us moving forward. Check them out on the newsletter list. I am really excited about the enthusiasm of the Board and officers and thank them for their commitment.

Protect your plants, enjoy the cooler weather, and remember it will be summer before you know it. I wish you good health and good growing.

Thank you for all your support.

Dick Wiedhopf, President

## Boojum trees help fill out Baja Garden at Pima Prickly Park

By: Bill Thornton

If someone were to compile a list of the world's weirdest plants the boojum (*Fouquieria columnaris*) would surely rank near the top. The name first appeared in Lewis Carroll's "The Hunting of the Snark". One type of snark – the boojum – was said to be especially dangerous. No description of the snark or boojum was provided, but botanist Godfrey Sykes remembered the name when he first noticed the plant through a telescope off the coast of Sonora in 1922 and exclaimed "Ho, ho a boojum, definitely a boojum!". Also known as cirio because of its resemblance to tall wax church candles, the name boojum stuck and has long been the most popular name for this weird and wonderful plant.

The boojum is to the central desert of Baja California what the saguaro is to the Arizona desert, i.e. the signature plant of the region. A visit to boojum country is an unforgettable experience for desert plant lovers. Prime habitat near Catavina, Baja California Norte is a veritable wonderland of boojums, massive cardons (*Pachycereus pringlei*), and elephant trees (*Pachycormis discolor*).

If you can't afford a trip to Baja, the San Diego Zoo's Wild Animal Park near Escondido is the next best thing. The Baja Garden is a masterpiece with more than 200 boojums, complete with cardons and elephant trees. Closer to home mature boojums can be seen at the Arizona Sonora Desert Museum, Desert Botanical Garden in Phoenix, and Boyce Thompson Arboretum in Superior.

As with much of Prickly Park our own Baja Garden is a work in progress. In early December our good friend Bob Perrill of Boojum Unlimited generously donated two plants from his nursery to join cardons, organ pipes, barrels and opuntias already in place. Look for our Baja Garden near Saguarohege on your next visit.

To add a boojum to your collection visit the Boojum Unlimited website. Several of our member nurseries also offer boojums for sale.

Footnote: Dr. Robert (Boojum Bob) Humphrey's classic "The Boojum and it's Home" is available in the TCSS library.



## Cactus Rescue Program

In 2019 the Cactus Rescue Program celebrated its 20th Anniversary with an event held at Pima Prickly Park in October. During the year, the rescue crew donated 3,795 volunteer hours, ran 47 rescues and 6 sales, participated in 2 community outreach events, and rescued 8,976 plants, including 210 saguaros. To date since the inception of the rescue program in 1999, TCSS volunteers have donated 36,661 hours and completed 463 rescues, saving 101,161 plants.

Donna Ellis

## Conservation Committee

The Conservation Committee is being reactivated after a number of years in limbo. Conservation by definition is oriented to preservation and protection from loss or depletion. With that as our goal we hope to work with programs that not only protect our environment but also look to preserve habitats and plants in situ.

We have established a long term commitment to financially support the Coteco Biological Reserve (Pitayal) in southeast Sonora, Mexico an area originally set up by David Yetman and others. This nearly 600 acre section of rapidly vanishing coastal thornscrub is dominated by organ pipe cactus, *Stenocereus thurberi*.

For more information on this location see:  
[https://www.tucsoncactus.org/pdf\\_files/Creation\\_of\\_the\\_Pitayal.pdf](https://www.tucsoncactus.org/pdf_files/Creation_of_the_Pitayal.pdf)

Closer to home the committee is looking to support research on our own endangered endemic pima pineapple cactus, *Coryphantha robustispina*.

Other projects of concern during the start of the 2020 decade include bats/agave related conservation and education and assistance with preservation work at Ironwood National Monument.

If you have a conservation project or interest contact me at:  
[conservation@tucsoncactus.org](mailto:conservation@tucsoncactus.org)

Thomas Staudt

## Social Media and Video Library

This year marks the first full year of recording our monthly presentations as well as operating both a Public facing and Paid Members only sites on Facebook. Here are some summary statistics (as of 12/17/2019):

Video Library (note since this is the first report on statistics, this includes all pre-2019 videos): 1,900 views representing 290.5 hours of watching. The most popular video was "Adenium DNA and Taxonomy, by Mark Dimmitt".

Public Facebook Page (note since this is the first report on statistics, this includes all pre-2019 data): 1,201 subscribers. The current top 10 subscriber's countries (out of 44 countries represented): United States, Mexico, India, Philippines, United Kingdom, Argentina, Italy, Canada, South Africa, and the Dominican Republic. As of 12/17/2019, there are 1,197 posts.

Paid Members Only Facebook Page (note since this is the first report on statistics, this includes all pre-2019 data): 170 subscribers with 459 posts.

Regards,  
Peter

## Program Presentations for 2019

For 2019 we had 11 guests that presented excellent programs throughout the year at our monthly meetings. Each one did their best to present a very educational and entertaining presentation that I hope everyone enjoyed. Please join me in thanking each guest speaker for making 2019 a special year to remember.

January 3, 2019.....	Rob Romero
February 7, 2019.....	Don Vitco
March 7, 2019.....	Steven Derks
April 4, 2019.....	Bob Webb
May 2, 2019.....	Gary Nored
June 6, 2019.....	Jessie Byrd
July 11, 2019.....	Art Friedman
August 1, 2019.....	Judy Mielke
September 5, 2019.....	Jerry Arp
October 3, 2019.....	Jason Wiley
November 7, 2019.....	Michelle Cloud-Hughes

Thanks to Everyone,  
Vonn Watkins

## TCSS Treasurer

During 2019, I maintained and retained financial records for the organization and recorded all receipts and disbursements in accordance with the Bylaws, the President, and Board of Directors. A monthly financial summary is provided at the Board meeting along with explanations. An annual financial statement is available to all members. The Treasurer prepares the Certification of Incorporation for the Arizona Corporation Commission, maintains insurance policies, and provides documents for Federal Income Tax filings. The Treasurer's committee is present at all rescue sales and other events where funds are received or disbursed.

Catherine Robson  
Treasurer

*Continued on other side*

## **REFRESHMENTS:**

### **Patsy Frannea & Kris Thompson Co-Chairs**

The refreshment committee provides basic snacks and drink at all meetings that are supplemented by food that members bring to share. Each month the newsletter tells members whose last names start with assigned alphabet letters that it is their turn to bring something to share on the refreshment table. The committee has a budget of \$100/meeting to provide the drink and snacks for about 150 people. Many thanks to all of the members who generously bring food to share, to Kathy and Bob O'Donnell for providing the drinks, Kris Thompson for being co-chair for food and organization and Joie Giunta, Twink Monrad and Marija Tallat-Kelpsa for their assistance. Our committee also plans and puts together the main entrees and drink for our annual holiday party.

## **Tcss Desert Garden Tour**

### **Patsy Frannea, Chair, Jean Lewis, Thomas Staudt, Robert Ellis, Joie Giunta, Bill Salisbury**

In October of 2019 the Garden tour committee organized a garden tour for TCSS members and their guests that showcased 5 desert landscapes on the north/northeast side of Tucson. Months of planning involves finding 5 or 6 members in geographically similar areas willing to open their gardens for tour, gathering information and taking photos on a pre-tour, writing descriptions and formatting write-ups about each garden for the newsletter and tour day, signing up volunteers to help on tour day, creating maps and directions for tour goers including putting out directional signs on tour day, and hosting a reception for the garden owners. In 2019 about 200 members and their guests took advantage of the tour and we all were most grateful to the generous homeowners willing to welcome us into their gardens. In 2020 we are considering a change of format in order to feature more gardens. Watch for more information in the February newsletter and please let us know if you might be interested in being on the committee.

## **Library**

Hello and Welcome. I want to personally invite all of our members to take a look at our own TCSS Library. Our library is an impressive collection of everything cactus and succulent. If you have a question about what to plant in your very own backyard, how to propagate your favorite plant, or to learn more about a specific species, we have the book for you. We are located in rear of the Sky Islands auditorium, directly to your left when you enter for our meetings and next to the Prickly Pear Punch. I encourage you all to check out a book for the month between 6 PM and after meeting adjournment. Remember, you can always email any questions regarding the TCSS library directly to [librarian@Tucsoncactus.org](mailto:librarian@Tucsoncactus.org) Thank you members for making this wonderful reservoir of knowledge a possibility!

Brad Haeckel,  
TCSS Librarian

# Acknowledgement Of Contributions

The Names below represent the Tucson Cactus & Succulent Society members and friends whose donations helped make this year a success. We extend our sincere thanks for your support.

## Publications

Lindsey & Barry Abrahams  
Mark Nall  
Chuck Penson & Kathryn Bevacqua  
Patricia Waterfall  
Gene & Mary Milbrath  
Toni Yocum & Robert Webb

## Education

Lindsey & Barry Abrahams  
Martha Burgess & Rod Mondt  
Sharon Atwell  
Hector Campoy  
Steven C Chesser  
Mark A Dimmitt  
Helga Egertson  
Connie Engard  
Albert Everaerts & Greta Janssen  
Margaret Fusari  
George & Emojean Girard  
Amanda Joyce Higgins  
Ralf Holzheu  
Evelyn Hubbell  
Matthew B Johnson & Patricia A  
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Jan Konstanty & Pat Wallace  
Richard Poppy & Juliana Rose & Teal  
Jerry & Colette Price  
Susan Richards  
Ken Rupel  
Richard Ryan  
Douglas Williams

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Denise Bernier  
Ann & Steve Berthe  
Hector Campoy  
Mark A Dimmitt  
George Eversole  
George & Emojean Girard  
Judy Shaw  
John & Ann Tundermann  
Vonn Watkins  
Winifred Williams & Kenneth Hinkle  
Toni Yocum & Robert H Webb

## Conservation

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Hector Campoy  
Paul Cook  
Mark A Dimmitt  
Helga Egertson  
Margaret Fusari  
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Judith Goodrode  
Chris & Sandra Marshall  
Mark Mason

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Paola Molina  
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Thomas Pringle  
Richard Ryan  
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Moira Shannon  
Ginny Sonett  
Michael Tamarac  
Marsha Turkin  
Vonn Watkins  
Jon R. Weeks, Ph.D.  
Winifred Williams & Kenneth Hinkle  
Jody Wilson

## Florilegium

Keimpe Bronkhorst & Rebecca Bushner  
Hector Campoy  
Steven C Chesser  
Judith Goodrode  
Pete & Joan Marum  
Ken Rupel  
Patricia H Waterfall

## Pima Prickly Park

Stephan Baier & Family  
Jim Bliss  
Keimpe Bronkhorst & Rebecca Bushner  
Steven C Chesser  
Matt Davison  
Constance Elson  
Dave Endres & Ray Ramirez  
Albert Everaerts & Greta Janssen  
Liz & Murray Fox  
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Jody Wilson  
Monica Wnuk

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Nancy & Regis Slutter  
Kris Thompson  
William Thornton  
Jennifer Topp  
Monty Karen Turner  
Louis & Diane Vazquez  
Kevin Walters  
David Yetman  
Betsy Zukoski

## Special thank you to:

Robert H Perrill, Boojum Unlimited,  
donated 2 wonderful Boojum to Pima  
Prickly Park

Connie Engard donated a truck load of  
rocks for Pima Prickly Park

**TCSS BOARD  
Officers**

**President:** Richard Wiedhopf • [president@Tucsoncactus.org](mailto:president@Tucsoncactus.org)  
**Vice President:** Vonn Watkins • [vp@Tucsoncactus.org](mailto:vp@Tucsoncactus.org)

**Secretary:** Monica Wnuk  
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**Treasurer:** Cathy Robson  
[treasurer@Tucsoncactus.org](mailto:treasurer@Tucsoncactus.org)

**Board of Directors:**  
[board@Tucsoncactus.org](mailto:board@Tucsoncactus.org)  
(terms expire **December 31** of year indicated)

Peter Ertman (2022)  
Brad Haeckel (2022)  
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Jessie Byrd (2021)  
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**Garden Tours:** Margaret Pope • [art@Tucsoncactus.org](mailto:art@Tucsoncactus.org)

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**Field Guide Sales:** Susan Durham & John Durham

[books@tucsoncactus.org](mailto:books@tucsoncactus.org)

**Conservation:** Thomas Staudt  
[conservation@tucsoncactus.org](mailto:conservation@tucsoncactus.org)

**Newsletter Editor:** Karen Keller • [runbunny@cox.net](mailto:runbunny@cox.net)

**Deadline for newsletter text or photos:**  
**Monday, January 23, 2020**

**TCSS Web Page:**

[www.tucsoncactus.org](http://www.tucsoncactus.org)

**Webmaster:** Keimpe Bronkhorst • [webmaster@Tucsoncactus.org](mailto:webmaster@Tucsoncactus.org)

For additional information call: (520) 256-2447

**Everyone is Welcome!**

Bring your friends, join in the fun and meet  
the cactus and succulent community.

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**Cacti Rescued - Since 1999**

**458 Rescues - 36,190 Volunteer Hours** (updated 11-04-19)

Please see our **Website Calendar** for the next  
rescued cactus sale. They are scheduled at various  
times during the year based on our inventory.

**TCSS Club Members receive a 10% discount**

We need your "Eyes and Ears" to help us find new Cactus  
Rescue sites. Please email us as much information as  
you can from new project signs or from other sources to  
**Site@TucsonCactus.org**. Attach a photo of the sign if  
you can. Note, we do not remove plants from residences.

## January 2020

**Thursday, January 2, 2020 at 7:00pm**

Euphorbias, Cacti, and Other Sculptural Succulents  
and (Mostly) Spiny Xerophytic Plants

Presented by Jeff Moore

**Tuesday, January 14, 2019 at 7:00 pm**

Board meeting, Ward 3 Council office at  
1510 E Grant Rd. Tucson, AZ

## Sabino Canyon at Sunset





# DESERT BREEZE

Newsletter of the Tucson Cactus and Succulent Society

February 2020

Thursday, February 6, 2020 at 7:00pm

## Ray Turner and the Saguaro: A Research Retrospective

Presented by Robert Webb, Arid Lands Greenhouses



Ray Turner and *Agave turneri*

Ray Turner (1927-2018) was a research botanist with the U.S. Geological Survey in Tucson before his retirement in 1989. He worked well into his 80s, and much of his final work dealt with adding to long-term research on saguaros in the northern Sonoran Desert. Turner and his colleague, Rod Hastings, started work on saguaros in 1959 in response to a general research push within the academic community of southern Arizona to understand long-term growth rates, demography, and fate of saguaros. Turner's multi-pronged approach included permanent plots that measured mortality, recruitment, and growth rates as well as some rudimentary physiological measurements looking at water uptake. His



legacy of research is the reason why we have a broad understanding of the complicated responses of saguaros to climate change and land use across the northern Sonoran Desert.

Please be sure to come and enjoy some historical information gathered by one of our saguaro research pioneers, Ray Turner. Welcome our new members and visitors and also, make some new friends. Visit our library and check out an excellent book! During the break, you will want to enjoy the great refreshments and also, try your luck to win some of the plants available in the raffle. Stay until the end of the meeting and get your free plant offered to you by the Tucson Cactus and Succulent Society.



This map is for location only. It is not to scale.

Sky Islands Public High School • 6000 E. 14th St.

**TCSS Program Presentation**  
**Thursday, March 5, 2020 at 7:00pm**  
An Island Apart – Travels in Madagascar  
Presented by Fred Dortort

## February Meeting Refreshments

Those with family names beginning with K - T, please bring your choice of refreshments to the meeting. Your generous sharing will be greatly appreciated and enjoyed!



Dick Wiedhopf, TCSS president, suffered a major heart attack during a meeting at the UA Arboretum on January 16. On January 20, he underwent bypass surgery at Banner Hospital. Currently he is progressing well during recovery. He said that he was not quite ready for visitors but was trying to catch up on emails, memberships etc. There are more

things he can't yet do, but things are getting better every day. If you would like to email thoughts and wishes to Dick, please use the email address of [president@tucsoncactus.org](mailto:president@tucsoncactus.org).

He says it doesn't hurt as much as being stuck by a saguaro, but the recovery takes longer. Until he returns, our TCSS

Vice President and Board of Directors will continue club management and all previously scheduled events will be held as normal.

We are all looking forward to seeing him and we are wishing him the very best in his recovery.

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## Save These Dates for 2020

**The Sonoran XIII Conference  
Friday, April 24, and Saturday, April 25, 2020**

**Great Expectations for an Excellent Educational Weekend!**

Membership Plant Sale Only, Friday, April 24  
Saturday, April 25, Speakers • Workshops • Vendor and Rescue Plant Sales  
Silent Auction • Excellent Lunch and Dinner • Drinks • Lots of Fun and More!

We will be needing volunteers for numerous positions on Friday and Saturday when this event takes place.

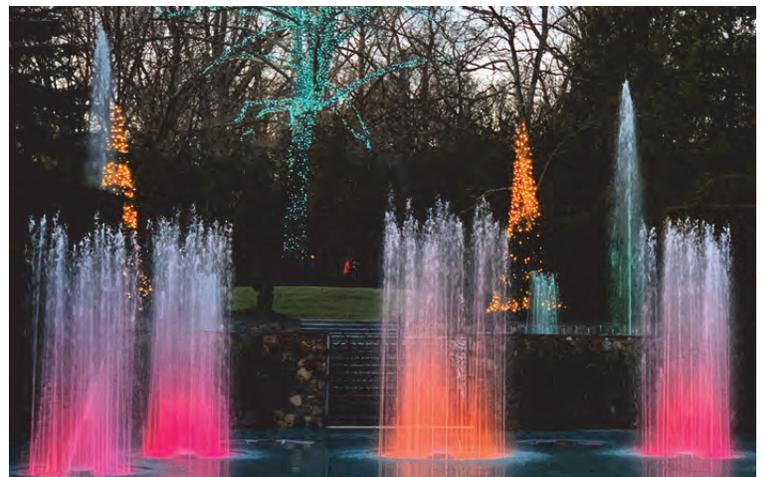
Please contact Monica at [Secretary@tucsoncactus.org](mailto:Secretary@tucsoncactus.org) if you would like to help.

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### TCSS Desert Garden Tours 2020

In 2020 the Garden Tour Committee has decided to vary the format from our annual tour and plan a year of "Pop-Up Tours". Members who would like to share their desert landscapes with other members can let us know and we will arrange, and make announcements for, a tour just at your home. You can choose any Saturday during the year that isn't taken. Please just give us at least a few weeks' notice so that we can get the word out to our membership. We'll need to setup a calendar to avoid conflicts, so if you want a preferred date when your landscape is at its best, please let us know asap so that we can get you scheduled. On the day of your "Pop-Up Tour" please plan to have your desert garden available for members to tour from 9am to 2pm. For more information or to reserve a date for your "Pop-Up" please contact our committee at [atgardentours@tucsoncactus.org](mailto:atgardentours@tucsoncactus.org)

### Longwood Gardens, PA



# FROM THE FLORILEGIUM

## Arizona Originals: Native Plants of Arizona – Exhibit January 24 to April 10, 2020

Fifteen artists from the Southwest Society of Botanical Artists (SWSBA) are represented in an exhibit of botanical art at the Natural History Institute in Prescott, Arizona. Participating in the exhibit are Tucson artists Chris Bondante, Melanie Campbell-Carter, Susan Hildreth, Margaret Pope, and Pauline Savage.

Included in the exhibit are several pen-and-ink scientific illustrations prepared for “Legumes of Arizona: An Illustrated Flora and Reference”, the eagerly awaited book about the family Fabaceae in Arizona (rumors are that the wait is nearly over).

NHI is at 126 N. Marina Street. Gallery hours are 11:00 AM – 4:00 PM, Tuesday – Friday (<https://naturalhistoryinstitute.org/>).

Passion, Devotion, Intimacy: Art and Natural History –  
February 6, 2020

The Natural History Institute’s Speaker Series presents SWSBA member Melanie Campbell-Carter who will explore the strong connection between art and natural history. She and other members of the chapter will share some of the stories behind the “Arizona Originals” exhibit hanging in the NHI gallery.

The presentation is from 7:00 – 8:30 PM and will be live streamed at [https://youtu.be/KhjEqsSS4\\_A](https://youtu.be/KhjEqsSS4_A). (There is also a link to the live stream on the NHI’s event page.)

In December’s “Desert Breeze”, the Scottish botanist Archibald Menzies (1754–1842) was noted as the first collector to have gathered specimens, in 1792, of the Douglas-fir, *Pseudotsuga menziesii*, during his five-year voyage on the HMS *Discovery*. In 1795, on *Discovery*’s return voyage to England, Menzies collected, by chance, seeds of what would become a horticultural celebrity in Europe—*Araucaria araucana*, the remarkable monkey puzzle tree.

While docked in Valparaiso, Chile, officers of the *Discovery* were invited to dine with the Spanish Viceroy. Some nuts unfamiliar to Menzies were served during the meal, and he took several back to the ship to plant. Seven seedlings survived the voyage, and Menzies gave one to his colleague Joseph Banks, with the remainder sent to Kew Gardens. King William took great delight in the trees at Kew, the largest of which lived until 1892. In 1844, commercial plant collectors returning from Chile brought large quantities of the tree’s seed to England where it became widely planted as an ornamental tree.

The illustration here is of a large monkey puzzle tree in Dropmore Park, England that, in 1876, had grown to a height of 60’ in 45 years. An unusual and intricate branching structure, plus extremely sharp leaves, gave rise to the tree’s peculiar common name—a tree that would indeed be a puzzle for a monkey to climb.

*Araucaria araucana* is dioecious, with male trees bearing oblong pollen cones and female trees with 8” diameter

globular cones. These large seed-bearing cones have been an important source of food for the indigenous tribes, as each cone produces 200–300 kernels, each twice the size of an almond, and numerous such cones grow on each branch. Trees can live beyond 1000 years and grow to 130’ with a 5’ diameter trunk. The nutritious seed-bearing cones are not produced until the tree is 30–40 years old. Branches are covered in closely overlaid, scale-like foliage with very sharp edges and tips. Amazingly, each leaf can live for 24 years, a trait that greatly reduces the tree’s nutrient requirements.

The genus *Araucaria* includes 20 species, fourteen of which are endemic to New Caledonia. *Araucaria* is one of three genera in the family Araucariaceae, the other two being *Wollemia* and *Agathis*, all of which date back to the Jurassic Period. Today these ancient trees occur only in the Southern hemisphere, but fossil records show that they previously covered both hemispheres.

The genus *Wollemia* has but a single species, *Wollemia nobilis*, the Wollemi pine, and it has been prominent in recent news covering Australia’s catastrophic wildfires. Its existence was known only from fossil records until 1994, when David Noble discovered a living grove of some 200 trees in the Blue Mountains of Wollemi National Park. It had survived in remote moist ravines where it would normally have been protected from fires occurring high above on the plateaus. But the recent fires are not normal. A carefully planned operation by firefighters and environmental officials limited tree fatalities to just two, although there is some canopy damage. It is thought that the Araucariaceae have evolved to resist fire, and unfortunately these are times that will test that theory.

More illustrations of the monkey puzzle tree can be seen on the Florilegium Program’s website. A link is on our homepage.



*Araucaria araucana*, Monkey puzzle tree,  
Illustrator: Vernon Heath, *The Garden*, an  
*Illustrated Weekly Journal*, Vol. IX, 1876

**TCSS BOARD  
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**Newsletter Editor:** Karen Keller • [runbunny@cox.net](mailto:runbunny@cox.net)

**Deadline for newsletter text or photos:**  
**Thursday, February 27, 2020**

**TCSS Web Page:**

[www.tucsoncactus.org](http://www.tucsoncactus.org)

**Webmaster:** Keimpe Bronkhorst • [webmaster@Tucsoncactus.org](mailto:webmaster@Tucsoncactus.org)

**For additional information call: (520) 256-2447**

**Everyone is Welcome!**  
**Bring your friends, join in the fun and meet  
the cactus and succulent community.**

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4

**Cacti Rescued - Since 1999**  
**458 Rescues - 36,190 Volunteer Hours** (updated 11-04-19)

Please see our **Website Calendar** for the next rescued cactus sale. They are scheduled at various times during the year based on our inventory.

**TCSS Club Members receive a 10% discount**

We need your "Eyes and Ears" to help us find new Cactus Rescue sites. Please email us as much information as you can from new project signs or from other sources to **Site@TucsonCactus.org**. Attach a photo of the sign if you can. Note, we do not remove plants from residences.

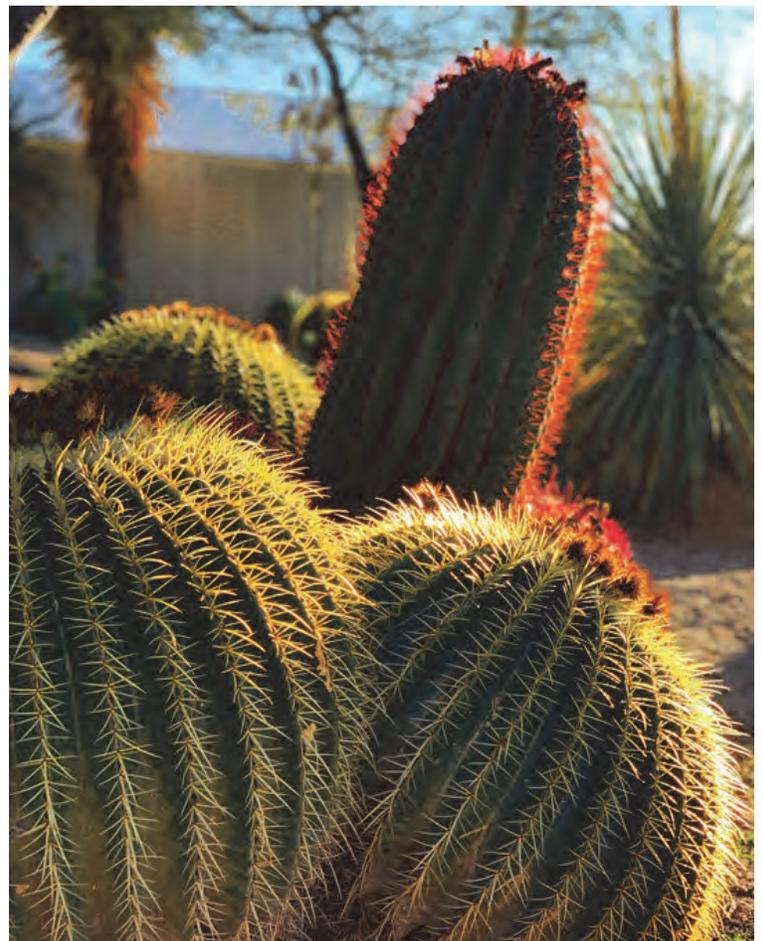
## January 2020

**Thursday, February 6, 2020 at 7:00pm**

Ray Turner and the Saguaro: A Research Retrospective  
Presented by Robert Webb, Arid Lands Greenhouses

**Tuesday, February 11, 2019 at 7:00 pm**

Board meeting, Ward 3 Council office at  
1510 E Grant Rd. Tucson, AZ





# DESERT BREEZE

Newsletter of the Tucson Cactus and Succulent Society

March 2020

Thursday, March 5, 2020 at 7:00pm

## An Island Apart—Travels in Madagascar

Presented by Fred Dortort, author of The Timber Press Guide to Succulent Plants of the World

Fred's talk on Madagascar will cover a wide variety of things he and his friends encountered in over 3000 miles of driving. The main focus, of course, will be on the vast and unique population of succulent plants found only there, ranging from giant baobab trees to miniature, ground-hugging euphorbias. He'll also be showing examples of the giant island's equally unique assortment of people, architecture, fauna and geography as well. Home to wildly diverse ethnic groups, a place where pirates such as Captain Kidd once lurked and giant elephant birds used to roam, Madagascar stretches a thousand miles from its tropical north to its temperate south. It is truly like no other place on Earth.

Not long after Fred Dortort began growing cacti and succulents, he was seized by the urge to see them in their natural surroundings. Since then he's managed to travel to many of the places where they grow, from Arizona to Namibia, South Africa to Bolivia, and among other succulent hot-spots, Madagascar. Fred has maintained a relationship with the University of California Berkeley Botanical Garden for decades, teaching courses and, at various times, taking charge of the greenhouse cactus and succulent collection. Over the years Fred has written many articles for the Cactus and Succulent Journal and other horticultural publications. He is the author of The Timber Press Guide to Succulent Plants of the World, and always enjoys sharing stories and images of some of the things he's seen along the way with interested audiences.

You do not want to miss this program presentation by Fred Dortort! Fred authored the Timber Press Guide to Succulent Plants of the World. Be sure to come and welcome our new members and visitors. Make some new friends and visit our library and check out an excellent book! During the break, you will want to enjoy the many refreshments and also, try your luck to win some of the plants available in the raffle. Stay until the end of the meeting and get your free plant offered to you by the Tucson Cactus and Succulent Society.



*Cyphostemma laza\_01*



*Aloe capitata*



*Adansonia rubrostipa*



*Kalanchoe linearifolia*

## March Meeting Refreshments

Those with family names beginning with U - Z, please bring your choice of refreshments to the meeting. Your generous sharing will be greatly appreciated and enjoyed!



## President's Message

I am so grateful for all the well wishes and thoughtfulness expressed as I recover from a heart attack and bypass surgery. It really helped and is deeply appreciated. I am not yet 100% but I will get there soon. The doctor said the new plumbing is good for 20-25 years. Wow!

Working at Pima Prickly Park, Rescues and my own garden built up my heart and help save my life. That's all in the past and the future is bright for everything.

Our Society continues to grow and attract new members. Right now we have more than 1,200 renewals and new memberships. I want to thank our great Board of Directors who have stepped up and handled everything during my absence.

We are focused on Sonoran XIII on April 24 & 25. This will be an exciting new format and a great opportunity for all of you to engage in an outstanding plant sale, workshops, and

outstanding speakers at lunch (Mark Dimmitt) and dinner (David Yetman) on Saturday April 25. There are also 4 outstanding workshop presentations by Jessie Byrd, Scott Calhoun, Laura Eubanks and Jane Evans. If you don't know these folks, I suggest you goggle them and find out just how outstanding these programs will be and you don't want to miss this.

There will also be a silent auction which is always dependent on members and vendors to donate outstanding specimens. Silent auctions raise funds for our Research Grants Program which has raised our status throughout the world. We have been cited for our contributions in prestigious journals. This is a real tribute to our Research Grant Funds committee, headed by Doug Rowsell.

Our commitment to conservation and education has never been stronger.

Thank you all for your support

Dick Wiedhopf, President

## Acknowledgement Of Contributions

The Names below represent the Tucson Cactus & Succulent Society members and friends whose donations helped make this year a success. We extend our sincere thanks for your support.

### Unrestricted

Jon Larson  
Lee Oler  
Berni Jilka & Bert Winkler  
Valerie & Douglas Reynolds  
Chris & Wendy Gaddis  
Elizabeth & Nancy Vlassis  
Baird & Darla Thompson  
Marjorie Campbell & Julie Robinson  
Walter Barnes & Melvin Laszczynski  
Jane Ruggill  
Alexandra Schultz  
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### Florilegium

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### Conservation

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Dana Betzer  
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Vonn Watkins  
Kenneth & Ellen Perkins  
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### Research

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### Pima Prickly Park

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Penny Miller  
Joe Bacik  
Joseph Bannon  
Ron & Abbe Meyer  
David A. Palzkill

### Education

Jon Larson  
Mark A Dimmitt  
John Ross

Syd Teague  
Publications  
Jon Larson  
Toni Yocum & Robert H Webb

## TCSS Desert Garden Pop-Up Tours

The Garden Tour Committee has decided to vary the format of our annual tour and plan a year of "Pop-Up Tours". These will be individual garden tours on scheduled Saturdays throughout the year per the owners choice. Normally there will be only one garden on the tour but possibly two if they are in close proximity. Members who would like to share their desert landscapes with other members can let us know and we will arrange, and make announcements for, a tour just at your home. You can choose any Saturday during the year that isn't taken to showcase your garden at its best. Please just give us at least six weeks' notice so that we can get the word out in our monthly newsletter. On the day of your "Pop-Up Tour" please plan to have your desert garden available for members to tour from 10am to 2pm.

For more information or to reserve a date for your "Pop-Up" please fill out the Application form in this newsletter. The form is also available on our website. For questions or more information please contact our committee at [GardenTours@TucsonCactus.org](mailto:GardenTours@TucsonCactus.org)

### CURRENT POP-UP TOUR CALENDAR 2020

**Saturday, March 21st:** Voris/Staudt Tour-MidTown

(SEE Details on Page 9 Below & web)

**Saturday, April 4th:** Hinton Tour-Green Valley  
(details in April Newsletter & web)

**Saturday, April 11th:** Higley Tour-East Tucson  
(details in April Newsletter & web)

**Saturday, May 2nd:** Frazer Tour-Northwest Tucson  
(details in April Newsletter & web)



**SONORAN  
XXXIII**

**Tucson Cactus and Succulent Conference  
April 24 & 25, 2020**

# Sonoran XIII Program Schedule

Friday, April 24, 2020 (Special Plant Sale) • Saturday, April 25, 2020 (Conference Events)  
 Hotel Tucson City Center – 475 North Granada Avenue, Tucson, AZ, 85701

Day and Time	Event	Location
<b>Friday, April 24</b>		
3:00 pm - 5:00 pm	Saturday Event Registration	Hotel Lobby
3:00 pm - 5:00 pm	Silent Auction Donations Accepted	Hotel Lobby and Outdoor Sales Area
5:00 pm - 7:00 pm	Vendor Plant Sales Open - 15% Discount for All Members and Full Registrants (Today Only) No Rescued Plant Sales	Outdoor Sales Area
	All discounts will be applied at the checkout	
<b>Saturday, April 25</b>		
8:00 am - 12:00 pm	Silent Auction Donations Accepted	Hotel Lobby and Outdoor Sales Area
7:00 am	Rescued Plant Sale Numbers Available	Outdoor Sales Area
7:00 am - 6:00 pm	Registration and Information Desk	Hotel Lobby
8:00 am - 4:00 pm	All Vendor Sales, Rescued Plant Sales Open	Outdoor Sales Area
8:00 am - 4:00 pm	Educational Displays, Etc.	Hotel Lobby
8:00 am - 5:30 pm	Silent Auction Bidding	Hotel Lobby
8:00 am - 8:10 am	Introduction to Sonoran XIII - Richard Wiedhopf	Copper Room
8:20 am - 9:50 am	Morning Workshop 1 - Scott Calhoun: <i>The Designer's Cactus Garden</i>	Gold Room
8:20 am - 9:50 am	Morning Workshop 2 - Jane Evans: <i>Designing and Caring for a Succulent Planting in a Decorative Container</i>	Silver Room
10:00 am - 11:30 am	Morning Workshop 3 - Laura Eubanks: <i>Succulent Tapestries - Creating Living Art in the Garden</i>	Gold Room
10:00 am - 11:30 am	Morning Workshop 4 - Jessie Byrd: <i>Sharing Your Space with Stickers: Desert Home Gardens</i>	Silver Room
11:40 pm - 1:40 pm	Buffet Lunch and Guest Speaker - Mark Dimmitt: <i>Becoming a Horticulturist in only 70 years by trial and ERROR</i>	Copper Room
1:50 pm - 3:20 pm	Afternoon Workshop 1 - Laura Eubanks: <i>Succulent Tapestries - Creating Living Art in the Garden</i>	Gold Room
1:50 pm - 3:20 pm	Afternoon Workshop 2 - Jane Evans: <i>Designing and Caring for a Succulent Planting in a Decorative Container</i>	Silver Room
3:30 pm - 5:00 pm	Afternoon Workshop 3 - Scott Calhoun: <i>The Designer's Cactus Garden</i>	Gold Room
3:30 pm - 5:00 pm	Afternoon Workshop 4 - Jessie Byrd: <i>Sharing Your Space with Stickers: Desert Home Gardens</i>	Silver Room
5:30 pm	Silent Auction Ends - Bid winners plant collection to 6:00 PM	Hotel Lobby
6:30 pm	Cash Bar	Copper Room
7:00 pm - 9:00 pm	Plated Dinner and Guest Speaker - David Yetman: <i>The New and the Old about the Saguaro</i>	Copper Room
All Assigned Workshops: Gold Room and Silver Room		



**Tucson Cactus and Succulent Conference**

**Friday, April 24, 2020**

**(Setup, 15% OFF TCSS Member & Full Registrant Plant Sale Only)**

**Saturday, April 25, 2020**

**(Speaker Programs, Workshops, Plant Sales & Silent Auction)**

Featuring

**Program Presentations, Workshops  
Cactus and Succulent Plants,  
Pottery, Books & Art Sales**

**Special Guest Speaker Program Presentations by**

**Mark Dimmitt • David Yetman**

**Special Guest Workshop Programs by**

**Jessie Byrd • Scott Calhoun • Laura Eubanks • Jane Evans**

Location

**Hotel Tucson City Center**

**475 N. Granada Avenue • Tucson, Arizona 85701**

**hoteltucsoncitycenter.com**

**Presented by the Tucson Cactus and Succulent Society**

**Visit us on this special website for more Information  
and to Register for the Sonoran XIII Conference**

**sonoranconf.com**





**Tucson Cactus and Succulent Conference  
Saturday, April 25, 2020 • 8:00am-4:00pm**

# **Cactus and Succulent Plants, Pottery, Books & Art Sales**

**ALL SALES ARE OPEN TO THE PUBLIC • Featuring**

- Animal Habitats
- Arid Lands Greenhouses
- Arid Oasis
- Blue Sky Plants
- Carolyn's Mosaic Treasures
- Christine Vargas
- Crazy "H" Cacti
- DEW Studio
- Desert Natives, Inc.
- Destination Forever Ranch
- Ecogrohydro
- Gardening Insights
- Jen's Hypertufa Pots
- Julia Szerina Stein
- Julie Szerina Stein
- Kelley's Greens
- Nighthawk Natives
- Planta Del Sol
- Plants for the Southwest  
& Living Stones Nursery
- Pottery by Judy
- Starr Nursery
- Sticky Situation
- Succulentia
- TANK'S Green Stuff
- The CAM Plant
- TCSS Cactus Rescue



**Please Visit Our Outdoor Sales Location at  
Hotel Tucson City Center**

**475 N. Granada Avenue • Tucson, Arizona 85701**

**Presented by the Tucson Cactus and Succulent Society**

**Visit us on this special website for more information:**

**[sonoranconf.com](http://sonoranconf.com)**



The Tucson Cactus and Succulent Society is a 501(c)(3) non-profit educational organization

# Sonoran XIII Conference – Program Presentations

## Mark Dimmitt

### ***Becoming a Horticulturist in only 70 years by trial and ERROR***

Mark A. Dimmitt has a Ph.D. in biology (herpetology) from the University of California at Riverside after earning an M.S. from UCLA and a B.S. from Pomona College. He worked at the Arizona-Sonora Desert Museum from 1979 to 2011, first as Curator of Botany, and eventually as Director of Natural History (field ecologist). His areas of research included botany and vertebrate biology, and he is the author of more than 50 scientific and popular publications about ecology and horticulture. He is a Fellow of the Cactus and Succulent Society of America. His major publication is the plant and ecology chapters of *A Natural History of the Sonoran Desert* (2000), and is the senior editor of the revised edition (2015).

Mark's other and ongoing career is as a plant breeder. He spent a couple of decades hybridizing *Trichocereus* (*Echinopsis*, cacti), then *Tillandsia* (bromeliads); he has introduced about 50 cultivars. Since the late 1970s his main focus has been on hybridizing the genus *Adenium*; 'Crimson Star', 'Evelyn Marie', and 'Bouquet' are among his creations. He is coauthor of the book *Adenium: Sculptural Elegance, Floral Extravagance* (2008). Mark also collects and grows a number of other weird plants, mostly succulents and epiphytes.

## David Yetman

### ***The New and the Old About the Saguaro***

A summary of what we know about the saguaro, from its deep history in the Miocene to the latest genomic studies and which are its closest relatives and, maybe, where it is headed.

David Yetman is research social scientist and has been at the University of Arizona, Southwest Center since 1992. He received his doctorate in philosophy from the University of Arizona in 1972. Yetman's research has been primarily directed towards the state of Sonora, Mexico and its indigenous people, their history, and how they have incorporated native resources into their lives.

His books include *Sonora: An Intimate Geography* (1996); *Scattered Round Stones: A Mayo Village in Sonora, Mexico* (1998); *Guarijíos of the Sierra Madre: Hidden People of Northwest Mexico* (2002); and *The Ópatas: In Search of a Sonoran People* (2010). He has also written extensively on native uses of plants in Sonora. His *Mayo Ethnobotany: Land, History, and Traditional Knowledge in Northwest Mexico* (2002, co-authored by Thomas R. Van Devender) combines ethnohistory and ethnobotany. His 2007 volume *The Great Cacti: Ethnobotany and Biogeography of Columnar Cacti* documents columnar cacti throughout the Americas, while a smaller work *The Organ Pipe Cactus* (2006) describes the natural history of the remarkable plant for which a U.S. Park Service National Monument is named. In addition,

Yetman is author of numerous journal articles and book chapters. He is a frequent presenter of lectures on deserts, their people and their natural history. In addition to his writing, Yetman served for nine years as host for the PBS documentary television series *The Desert Speaks* and currently produces and hosts the PBS series "In the Americas with David Yetman." Yetman received an Emmy Awards in 2007 and 2014 for his documentary television work.

# Sonoran XIII Conference – Workshop Leaders

## Jessie Byrd

### ***Sharing Your Space with Stickers: Desert Home Gardens***

This workshop will help people looking to incorporate cactus and succulents into their own home landscapes while considering simple design concepts like scale, understanding how microclimates can be taken advantage of, layering plants for aesthetics, and maintenance hints for long term health of a garden.

Jessie Byrd is the Native Plant Nursery Manager for Pima County Natural Resources, Parks and Recreation, which specializes in growing and salvaging native plant species for public projects. Jessie believes that using native plants in urban landscapes can help encourage biodiversity while also significantly reducing long-term maintenance inputs. She earned a Master of Landscape Architecture from the University of Arizona and a BA in Biology from Bryn Mawr College. She is a Tucson Cactus and Succulent Society board member.

## Scott Calhoun

### ***The Designer's Cactus Garden***

In each of the over 300 home gardens Scott Calhoun has designed, he strives to surprise and delight homeowners with cactus and succulent plantings. Join Scott on a virtual tour of his favorite gardens. His talk will highlight unconventional techniques such as planting prickly pear cactus in 55-gallon drums and steel boxes. Scott will also discuss integrating in-ground plantings of cactus and succulents with annuals, perennials, and shrubs.

Scott Calhoun loves wildflowers, spiny plants, tacos, and rocks. He spends as much time as possible deep in the Mexican backcountry searching for new plants and eating local specialties. He has gardened in the American Southwest for over 20 years and is the author and photographer of six books about the region. Scott's work has been featured in The New York Times and The Wall Street Journal. He writes a monthly column for Sunset magazine and freelances for numerous publications. Scott runs Zona Gardens, a design studio based in Tucson, Arizona. He designs, writes, and lectures throughout the United States.

## Laura Eubanks

### ***"Succulent Tapestries" - Creating Living Art in the Garden***

Join Laura Eubanks as she shares how you can create your own jaw dropping paradise by introducing succulents, cactus, rocks, boulders, and interesting elevations into your own garden spaces.

Laura Eubanks is a sought after succulent garden designer and speaker with an international reputation. Her work has been featured in books, magazines, and on television. Her social media following is vast. Her Popular "Succulent Tip of The Day" series has been viewed on Facebook and YouTube over a million times.

## Jane Evans

### ***Designing and Caring for a Succulent Planting in a Decorative Container***

Jane will present a workshop that will help you understand what is needed for designing and presenting a really spectacular staged display. If you want to know how the experts do it, you need to attend this workshop.

Born in Tucson, Jane is very familiar with the Sonoran Desert and the conditions we live with. After graduating from the University of Arizona with a BS in Plant Sciences she worked for one year as an Extension assistant at the Tucson Garden Center. An opportunity too good to pass up happened in 1978 and she became the owner of the Garden Flower Shop on the corner of Stone and Blackledge. After 12 years running the flower shop she was able to move out into the nursery, Plants for the Southwest, that her husband Gene Joseph started on the property in 1986. Plants for the Southwest grows plants from deserts around the world. Since 1987 Jane has grown the Lithops, Mesembs and Haworthias for the nursery.

# TCSS Desert Garden Tour

## POP-UP

**Come Join Us to View an Amazing Urban Desert Oasis Garden  
Maria & Thomas  
March 21, 2020 - (Cancelled due to coronavirus)  
TCSS members and their guests are invited - no charge**



Our 1/3 acre midtown yard is designed for comfortable use in a xeriscape setting. Swales, basins, and rocky mounds were established early in the yard restoration to maximize water collection and enable native and desert adaptable trees and shrubs. Rescued cacti, agave and other succulents dominate the setting. You will find over 100 barrel cacti (mostly *Ferocactus wislizeni*), over 30 saguaros, numerous hedgehogs, pricklypear, more *Mammillaria grahamii* than anyone would want to count and a nice scattering of queens (*Peniocereus greggii v. transmontanus*). The barrels, hedgehogs and mammillaria have all successfully seeded and new young plants are frequently popping up in the yard.

In addition to the basins for water harvesting, gutters funnel rain water from our roof into three collection tanks that hold a combined 1,250 gallons. A 1.5 inch monsoon rain will overflow those containers. The stored winter rains will sustain most of our watering needs into May. Mature trees provide significant cover for most of the seating areas in the yard. A small ramada provides an additional seating area and it houses some of our shade preference plants.

As you walk through the yard you will spot numerous found objects collected on desert hikes while conducting wildlife and plant surveys. One thing to note: ALL the larger rocks in the yard have been personally collected and added to the yard. The property value may not have increased but the yard sure weighs a lot more.

We've been at home in this yard for over 15 years. In 2012 we were hosts for a TCSS yard tour, in 2009 we received the Tucson Botanical Garden's Xeriscape award, in 2010 we were married here.

Like all gardens this is still a work in progress but then I look around and think, "damn, there's no more room in the yard"! Come on by, give the yard a look and maybe find a spot for us to plant new things.

Note: This garden is only partially wheelchair accessible.

# Application for Tucson Cactus & Succulent Society Desert Garden “Pop-Up” Tour

If you would like to share your Desert Garden with other TCSS members, please fill out this form and ....

Email to: [GardenTours@TucsonCactus.org](mailto:GardenTours@TucsonCactus.org) or Mail to TCSS, PO Box 64759, Tucson, AZ 85728-4759

This pdf form should be “clickable” so you can fill it in, save and then email the file or save and print then mail

Garden Owner Name(s)	
Street Address	
City	Zip
Home Phone	
Cell Phone	
EMail Address(es)	
Requested Date for Tour (Saturdays Only)	
1 <sup>st</sup> Choice	
2 <sup>nd</sup> Choice	
3 <sup>rd</sup> Choice	
Any Restrictions (HOA Rules, Access Gates, One-Way Roads, etc)	
Other Nearby Attractions (Nurseries, Farmers Market, Parks, Trails, etc.)	

Nearest Major Intersection
Special Instructions to find your property
Number of Parking Spaces Nearby
Restroom Facilities Available No <input type="checkbox"/> Yes <input type="checkbox"/>
Handicap Access Full <input type="checkbox"/> None <input type="checkbox"/> Partial <input type="checkbox"/>
Basic Description of Your Garden (Size, Special Plants and Features, Garden Tour Awards, etc)
<div style="border: 1px solid black; height: 400px;"></div>

Your Name
Today's Date

# FROM THE FLORILEGIUM

## EXHIBIT REMINDER: Arizona Originals: Native Plants of Arizona –January 24 to April 10, 2020

There's still time to visit the Natural History Institute (NHI) in Prescott and see this excellent exhibit of botanical art by fifteen artists from the Southwest Society of Botanical Artists (SWSBA). Participating in the exhibit are Tucson artists Chris Bondante, Melanie Campbell-Carter, Susan Hildreth, Margaret Pope, and Pauline Savage. The exhibit also includes several pen-and-ink scientific illustrations prepared for the upcoming publication, "Legumes of Arizona: An Illustrated Flora and Reference".

Photos of individual works from the exhibit can be seen on SWSBA's Facebook page:[www.facebook.com/pg/Southwest-Society-of-Botanical-Artists-199021916872407/photos/?ref=page\\_internal](https://www.facebook.com/pg/Southwest-Society-of-Botanical-Artists-199021916872407/photos/?ref=page_internal)

Shown here is a watercolor illustration of the saguaro by Joyce Peters, SWSBA President, who also crafted the beautiful and unusual saguaro rib framing for her painting, which will be on display at the Sonoran XIII Conference in April.

NHI is at 126 N. Marina Street. Gallery hours are 11:00 AM – 4:00 PM, Tuesday – Friday ([naturalhistoryinstitute.org](http://naturalhistoryinstitute.org)).

Passion, Devotion, Intimacy: Art and Natural History – Video presentation from February 6, 2020

The Natural History Institute's Speaker Series presented SWSBA member Melanie Campbell-Carter in an exploration of the strong connection between art and natural history. Her presentation includes stories behind some of the works in the "Arizona Originals" exhibit hanging in the NHI gallery.

The video can be found on the NHI's event page. Here is a direct link to the YouTube video [www.youtube.com/watch?v=KhjEqsSS4\\_A&feature=youtu.be](https://www.youtube.com/watch?v=KhjEqsSS4_A&feature=youtu.be).

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February's "Desert Breeze" included a brief history of *Araucaria araucana*, the monkey puzzle tree of Chile that was introduced into European gardens in the 19th century by Scottish botanist Archibald Menzies. Illustrations of the tree that we've compiled on the Florilegium Program's website all date to the 19th century and were drawn from trees growing in Europe.

One recent and superb illustration of the tree was painted by botanical artist Işık Güner from a very large specimen growing in Scotland. I encourage everyone to visit her website and see this extraordinary painting: <https://isikguner.com/en/gallery-detail/30/araucaria-araucana>.

Güner's painting of the monkey puzzle tree was part of an 8-year project that culminated in "Plants from the Woods and Forests of Chile", a publication by the Royal Botanic Garden Edinburgh (RBGE) that includes eighty-one watercolor plates of Chile's threatened plants painted by Turkish artists Güner, Gülnur Ekşi, and Hülya Korkmaz.

In 2015, a limited edition of 450 English copies and 350 Spanish copies were published. Sadly, getting your hands on

this magnificent book is unlikely. Thirty of the plates can be seen on Işık Güner's website (above). More information about the project, the illustrations, the artists, and authors can be seen on the RBGE's website: [chileanplants.rbge.org.uk/en/](http://chileanplants.rbge.org.uk/en/).

The project also produced a brief video, "Painting the Woods and Forests of Chile", to accompany the RBGE's exhibition of the paintings. Narrated by the lead author, Martin Gardner, it features beautiful views of Chile's flora, including massive specimens of *Araucaria araucana*. Brief interviews with the artists also showcase their paintings. [vimeo.com/141756293](https://vimeo.com/141756293).

Işık Güner was one of three botanical artists who painted—in tandem—a near life-size watercolor of *Amorphophallus titanum*, the titan arum, that bloomed at the RBGE in 2017 ("Desert Breeze", January 2018). Here is a link to a Vimeo gallery that includes not only brief videos of the painting in progress but also videos of the RBGE titan arum in bloom: [vimeo.com/showcase/4694962](https://vimeo.com/showcase/4694962).



*Carnegiea gigantea*, Saguaro cactus, © Joyce R. Peters

## TCSS BOARD

### Officers

**President:** Richard Wiedhopf • [president@Tucsoncactus.org](mailto:president@Tucsoncactus.org)

**Vice President:** Vonn Watkins • [vp@Tucsoncactus.org](mailto:vp@Tucsoncactus.org)

**Secretary:** Monica Wnuk

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**Treasurer:** Cathy Robson

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### Board of Directors:

[board@Tucsoncactus.org](mailto:board@Tucsoncactus.org)

(terms expire December 31 of year indicated)

Peter Ertman (2022)

Brad Haeckel (2022)

Penny Miller (2022)

Steve Watts (2022)

Keimpe Bronkhorst (2021)

Jessie Byrd (2021)

Crystal Cannon (2021)

Linda Heisley (2021)

Steve Chesser (2020)

Donna Ellis (2020)

Bill Salisbury (2020)

Kris Thompson (2020)

### CSSA Affiliate Rep:

Bill Holcombe (2021)

**Cactus Rescue:** Donna Ellis

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**Education:** Laurie Naugle • [education@Tucsoncactus.org](mailto:education@Tucsoncactus.org)

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**Florilegium:** Margaret Pope • [art@Tucsoncactus.org](mailto:art@Tucsoncactus.org)

**Garden Tours:** Patsy Frannea • [tours@Tucsoncactus.org](mailto:tours@Tucsoncactus.org)

**Librarian:** Brad Haeckel • [librarian@Tucsoncactus.org](mailto:librarian@Tucsoncactus.org)

**Prickly Park:** Linda Heisley • [park@Tucsoncactus.org](mailto:park@Tucsoncactus.org)

**Programs:** Vonn Watkins • [programs@Tucsoncactus.org](mailto:programs@Tucsoncactus.org)

**Refreshments:** Patsy Frannea • [refreshments@Tucsoncactus.org](mailto:refreshments@Tucsoncactus.org)

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**Field Trips/tours:** Rob Romero/Joie Guinta

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**Conservation:** Thomas Staudt

[conservation@tucsoncactus.org](mailto:conservation@tucsoncactus.org)

**Newsletter Editor:** Karen Keller • [runbunny@cox.net](mailto:runbunny@cox.net)

**Deadline for newsletter text or photos:**

**Thursday, March 26, 2020**

**TCSS Web Page:**

[www.tucsoncactus.org](http://www.tucsoncactus.org)

**Webmaster:** Keimpe Bronkhorst • [webmaster@Tucsoncactus.org](mailto:webmaster@Tucsoncactus.org)

For additional information call: (520) 256-2447

**Everyone is Welcome!**

Bring your friends, join in the fun and meet  
the cactus and succulent community.

# 100,075

## Cacti Rescued - Since 1999

458 Rescues - 36,190 Volunteer Hours (updated 11-04-19)

Please see our Website Calendar for the next rescued cactus sale. They are scheduled at various times during the year based on our inventory.

TCSS Club Members receive a 10% discount

We need your "Eyes and Ears" to help us find new Cactus Rescue sites. Please email us as much information as you can from new project signs or from other sources to **Site@TucsonCactus.org**. Attach a photo of the sign if you can. Note, we do not remove plants from residences.

## March 2020

**Thursday, March 5, 2020 at 7:00pm**

An Island Apart—Travels in Madagascar

Presented by Fred Dortort, author of

The Timber Press Guide to Succulent Plants of the World

**Tuesday, March 10, 2020 at 7:00pm**

Board meeting, Ward 3 Council office at

1510 E Grant Rd. Tucson, AZ

**Saturday, March 21, 2020 at 10:00am - 2:00 pm**

Pop Up Desert Garden Tour at

Maria & Thomas (cancelled due to coronavirus concerns)

TCSS members and their guests are invited - no charge

## TCSS Program Presentation

**Thursday, April 2, 2020 at 7:00pm**

The Four Seasons of the Cacti and Xeric Plants  
of New Mexico

Presented by Steven Brack



**Sky Islands Public High School • 6000 E. 14th St.**



# DESERT BREEZE

Newsletter of the Tucson Cactus and Succulent Society

April 2020



## President's Message

This year continues to be filled with pitfalls. As I went to type this message my computer said, too bad! I have a fatal error and will not work. Fortunately, I have an old computer but trying to remember how to do things on it is a challenge.

The Board of Directors has officially postponed Sonoran XIII and

notified all registrants that their registration funds are being returned asap. We are conducting board meetings via telecommunications and have also cancelled the April general meeting. The Pop-up home tours are also on hold. We will let you know about the May meeting based on the most current information concerning the corona virus. This is a time to be concerned about your health and the health of others. There are a number of members in the category of concern and let's make sure that we reach out to them by phone or email that they are okay and/or do they need any assistance.

A number of us were excited by the prospect of helping produce aloe gel for a local distillery which wanted to make hand sanitizer. This was strictly a non-profit opportunity. It was an interesting process and two of us, working alone, produced about 2 gallons of gel. We were disappointed to find out that the rules had been changed by the FDA and the distillery was not eligible to produce hand sanitizer, but we now know how to produce quantities of aloe gel.

Most of the local nurseries are open for business. This is a great time to visit one, keeping appropriate distance from one another. We certainly want to support them and make sure that they do not fail. They are the backbone of the hobby. This is also great planting season. I really encourage you to work in your yards and take advantage of this time.

I am sure that you have noticed what a great blooming season we are having. Please take photos. We will create an opportunity to share them in the near future.

Stay safe and protect your health.

Dick Wiedhopf, President

## Acknowledgement Of Contributions

The Names below represent the Tucson Cactus & Succulent Society members and friends whose donations helped make this year a success. We extend our sincere thanks for your support.

### Pima Prickly Park

Richard & Patricia Wiedhopf

Mike Noel (Boojum Tree and Stenocereus gummosa)

Jo Motanic & Family

### Conservation

Todd A Smith

George Carlisle

### Unrestricted General Fund

Junie Hostetler & Nancy Farrier

### Florilegium

Margaret Pope

### Unrestricted

Steven Higley

John Emmett

Junie Hostetler & Nancy Farrier

## The April TCSS Monthly Meeting has been cancelled.

In the interest of health concerns of TCSS members and friends, the Board of Directors of the Tucson Cactus and Succulent Society has cancelled this April 2, 2020 monthly meeting and hopes to reschedule the speaker, Steven Brack, for a future meeting.

### TCSS Program Presentation

Thursday, May 7, 2020 at 7:00pm

Agave species post Gentry - There are how many new ones???

Presented by Greg Starr

## TCSS Desert Garden Pop-Up Tours

Unfortunately we've had to cancel the first 4 Pop-Up Tours that we had scheduled for this Spring. We look forward to setting up a new calendar of tours once it is safe for us to gather again. If anyone wants to temporarily reserve a date in the future to open your garden to the membership for a Pop-Up Tour, please email [gardentours@tucsoncactus.org](mailto:gardentours@tucsoncactus.org) with any questions, or you can fill out an online application at [www.tucsoncactus.org/html/popup\\_tours.html](http://www.tucsoncactus.org/html/popup_tours.html) and email to us.

## FROM THE FLORILEGIUM

For many botanical artists, drawing with a graphite pencil is deeply gratifying. Eliminating the demands and distraction of color can free the artist to concentrate solely on form and detail to create a more intimate work. Think of it as putting aside the colorful, many-layered symphony to spend quality time with a string quartet. And if a graphite drawing is a string quartet, a drawing created in silverpoint is a string quartet with all the instruments muted.

Before graphite pencils came on the scene in the late 1600s, there was metalpoint—drawing or writing with sharpened tools made of soft metals. While used from Antiquity to the Middle Ages for mostly mundane purposes, metalpoint evolved to become a favored tool of Renaissance artists, including Leonardo daVinci and Albrecht Dürer, both of whom created highly detailed portraits in silverpoint. Various metals were used, but drawing with silver was preferred because it created a darker and warmer tone.

Silverpoint is considered a high key medium, one consisting primarily of light tonal values. At first glance, these works could be seen as too delicate or faint, and certainly they don't have the wide tonal range of graphite works. But they are unusually beautiful and require unique skills that are difficult to master.

The silverpoint tool is simply a length of silver wire inserted into a holder, or stylus. A modern claw-type lead holder is ideal. One end of the silver wire can be sharpened to a point for making thin lines with the opposite end rounded for creating tonal areas. Other metals or alloys (copper, lead, gold, zinc, platinum, brass, bronze) can be used, each of which will have a unique coloration on the paper.

Before drawing, the paper or other type of support must be coated with an abrasive substance, such as casein paint or gesso. As the silver is drawn across this prepared "ground", marks are produced by tiny bits of metal flaking off and adhering to the rough surface. The pressure applied to the stylus must be light enough to avoid puncturing the paper or scraping off the abrasive coating.

Silverpoint drawings have a delicate shimmer that is enhanced when the metal begins to tarnish. Silver is initially a warm gray when first applied but changes to a sepia tone over time. The tarnishing is not always uniform and doesn't occur predictably.

The drawing shown here of *Abutilon palmeri* is by artist Joan LaMoure and illustrates the delicate nature of working with silver and the ethereal feel of the finished work.

Joan was born in Michigan and raised in Southern California. In 1978, she and her husband moved to New River, Arizona where they built a house on 10 acres of land, raised two sons, and lived for 40 years. They currently live in Cave Creek, Arizona.

Joan is a life-long multimedia artist who finds inspiration for her work primarily from the natural world. She studied art and fashion design at Phoenix College, and later, transferred to Arizona State University where she majored in Fibers taking course work in art, surface design, and printed textiles

as well as taking numerous workshops with professional surface design artists. She has worked with varied materials to create fine art pieces such as stained glass windows and lamps, beaded jewelry, clothing, mosaics, and large fiber art compositions for galleries and private commissions.

In 2010, Joan graduated from the Desert Botanical Garden's Art and Illustration Program. Her illustrations were accepted in student shows, and she illustrated four rare plants for the Grand Canyon's Rare and Endangered Plants Project. Joan's *Tusayan Flameflower*, *Phemerathus validulus* watercolor became the signature piece for two exhibits of "Grand Canyon's Green Heart: The Unsung Legacy of Plants" held at the Kolb Studio in the Grand Canyon National Park. In 2011 and 2012, Joan had three botanical illustrations exhibited at the Tempe Public Library in the Southwest Society of Botanical Artists' exhibition "Indigenous Plants of Arizona."

Joan continues to study art and design with many professional artists and is a Juried Member of the Sonoran Arts League, Society of American Mosaic Artists, Southwest Society of Botanical Artists, and the American Society of Botanical Artists.

Additional examples of silverpoint drawing can be seen on the Florilegium Program's website (<https://art-botanical.org/>) along with links to several video demonstrations of silverpoint drawing. Joan's painting of the *Tusayan Flameflower*, *Phemerathus validulus*, can also be seen on the site. Links are on our home page.



*Abutilon palmeri*, Indian mallow, © 2007 Joan LaMoure

Tucson Cactus and Succulent Society  
**Profit & Loss**  
 January through December 2019

2019 FINANCIAL ACTIVITY

Beginning Balance January 1, 2019 \$135,365.37

**2019 FINANCIAL ACTIVITY**

**Income**

20000 · Membership & Meetings Income	\$18,234.00
22100 · Rescued Cactus Sales income	44,749.75
23000 · Special Events Income	3,922.00
24000 · Special Projects Income	752.00
24500 · TCSS Field Guide Sales	11,552.22
25000 · Investment Income	376.55
26000 · Donation and Gift Incomes	63,801.85
<b>Total Income</b>	<u><u>\$143,388.37</u></u>

**Expense**

40000 · Monthly TCSS Meeting Expenses	\$12,705.40
41000 · Newsletter Expenses	2,876.70
42000 · Cactus Rescue Program Expenses	24,905.76
43000 · Special Events Expenses	7,194.14
43900 · Sonoran Conference Expenses	25.00
44000 · Special Project Expenses	679.70
45000 · TCSS Field Guide Expenses	216.18
46000 · Sonoran XIII Expense	5,063.71
51000 · TCSS Operational Expenses	12,936.83
52000 · Library Expenses	476.66
53000 · Educational Outreach Expenses	2,512.34
54000 · Research Program Expenses	4,000.00
56000 · Conservation Program Expenses	3,000.00
57000 · Prickly Park Expenses	13,617.64
66900 · Reconciliation Discrepancies	-144.00

**Total Expense** \$90,066.06

**NET INCOME:** \$53,322.31

**December 31, 2019 Year-End Balance:** \$188,687.68

BALANCES ON DECEMBER 31, 2019

CHECKING ACCOUNT (QB Balance)	\$66,275.76
SAVINGS ACCOUNT	91,743.23
PETTY CASH	\$300.00
24M CD (Exp: Oct 2020)	15,186.67
BUSINESS CD 24M (Exp: Mar 2021)	15,182.02

**TOTAL TCSS FUNDS:** \$188,687.68

2019 DONATIONS

CONSERVATION	\$2,780.92
EDUCATION	590.00
FLORILEGIUM	270.00
GENERAL FUND	55,988.73
MEMORIALS	75.00
PIMA PRICKLY PARK	1,495.00
PIMA PRICKLY PARK HUB	2,057.20
PUBLICATION	205.00
RESCUE PROGRAM	20.00
RESEARCH	320.00
	<u>\$63,801.85</u>

## TCSS BOARD

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**Treasurer:** Cathy Robson  
[treasurer@Tucsoncactus.org](mailto:treasurer@Tucsoncactus.org)

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Kris Thompson (2020)

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**Conservation:** Thomas Staudt  
[conservation@tucsoncactus.org](mailto:conservation@tucsoncactus.org)

**Newsletter Editor:** Karen Keller • [runbunny@cox.net](mailto:runbunny@cox.net)

**Deadline for newsletter text or photos:**  
**Thursday, April 23, 2020 by 4:00pm**

**TCSS Web Page:**

[www.tucsoncactus.org](http://www.tucsoncactus.org)

**Webmaster:** Keimpe Bronkhorst • [webmaster@Tucsoncactus.org](mailto:webmaster@Tucsoncactus.org)  
For additional information call: (520) 256-2447

**Everyone is Welcome!**  
Bring your friends, join in the fun and meet  
the cactus and succulent community.

# 1 0 2,7 5 3

**Cacti Rescued - Since 1999**  
470 Rescues - 36,952 Volunteer Hours (updated 03-02-20)

Please see our Website Calendar for the next rescued cactus sale. They are scheduled at various times during the year based on our inventory.

**TCSS Club Members receive a 10% discount**

We need your "Eyes and Ears" to help us find new Cactus Rescue sites. Please email us as much information as you can from new project signs or from other sources to **Site@TucsonCactus.org**. Attach a photo of the sign if you can. Note, we do not remove plants from residences.

## April 2020

**Thursday, April 2, 2020 at 7:00pm**

**TCSS Montly Member Meeting has been canceled.**

In the interest of health concerns of TCSS members and friends, the Board of Directors of the Tucson Cactus and Succulent Society has cancelled this April 2, 2020 monthly meeting and hopes to reschedule the speaker, Steven Brack, for a future meeting.

**Tuesday, April 14, 2020 at 7:00pm**

Teleconference

**Tuesday, April 24, 25, 2020 at 7:00pm**

**The Sonoran XIII Conference, originally scheduled for Friday April 24, 2020 and Saturday April 25, 2020 has been postponed due to concerns related to the COVID-19 virus.** We don't know yet when the conference will happen.



**Sky Islands Public High School • 6000 E. 14th St.**



# Desert Breeze

Newsletter of the Tucson Cactus and Succulent Society

May 2020



## President's Message

The Board of Directors and committee chairs have been meeting by teleconferencing on our regular meeting time and dates, so that there is no break in continuity of the Society. It is a new experience but one that is working well and we are looking at other no ways to communicate with each other and all

the members. Nobody knows how long this virus will last but we are adopting to it.

We have had two rescues recently and have adopted procedures that protect our crew members. It has worked very well and I want to thank Steve and Barb Watts for taking the lead along with Donna Ellis to accomplish our rescue mission. They have really stepped up to the challenge.

There will not be a general meeting in May but we are hopeful that we can have a meeting on June 4. Greg Starr is our intended speaker. The Covid-19 virus is in charge and we will

not jeopardize anyone's health. So watch the website or our Facebook page for more information.

Our tentative plans are to hold our Good Time Silent Auction on Sunday, September 13, 2020. For those of you who have not participated this is multiple silent auctions, sale of \$2, \$5, & \$10 pre-priced plants, free items donated by members related to gardening (plants, pots, tools, etc.) plus ice cream and all the toppings. It is a full afternoon of fun.

Pima Prickly Park is in bloom. If you are looking to get out in a safe setting take a walk around the Park and see all the wonderful plants in bloom. The Cholla Maze should be terrific as well as many prickly pear. It's worth an hour or so of your day.

The Society currently has 1,274 members.

Thank you,

Dick Wiedhopf, President

## Acknowledgement Of Contributions

The Names below represent the Tucson Cactus & Succulent Society members and friends whose donations helped make this year a success. We extend our sincere thanks for your support.

### General Fund

Sandi Kilkuts & Family  
Vicki Lawrence

### Educational Outreach

Joan A Holladay  
In honor of my friend Denise Barnes

### Support Of The Rescue Program

Taylor Cheiak  
Anthony Rodriguez

### Pima Prickly Park

Support To Obtain A Very Large  
Multi-Headed Golden Barrel  
William Thornton

## The May 7, 2020 Monthly Meeting has been cancelled.

In the interest of health concerns of TCSS members and friends, the Board of Directors of the Tucson Cactus and Succulent Society has cancelled this May 7, 2020 monthly meeting.

### TCSS Program Presentation

Thursday, June 4, 2020 at 7:00pm

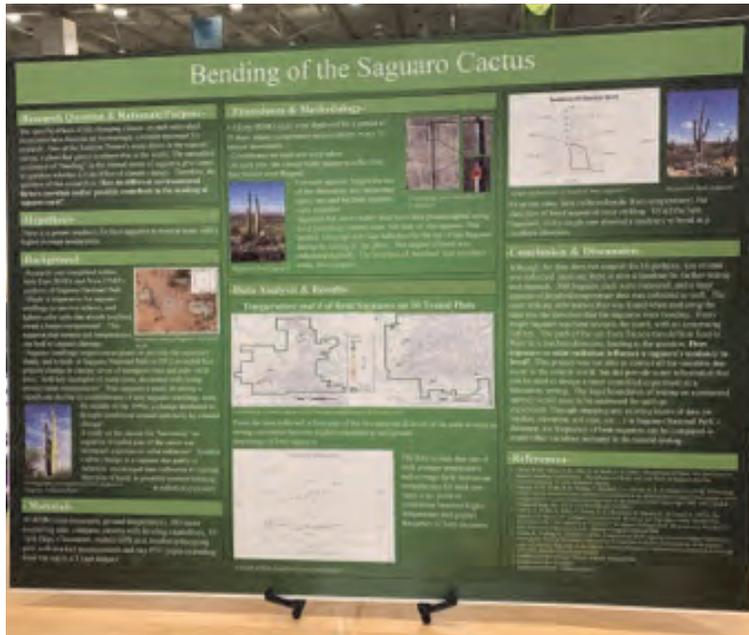
Agave species post Gentry - There are how many new ones???

Presented by Greg Starr

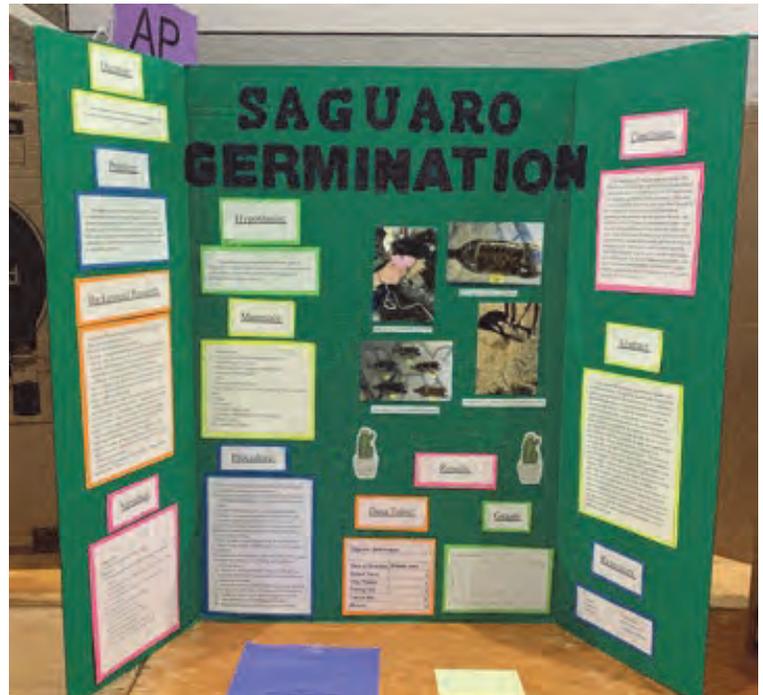
# SARSEF

This year TCSS participated in the Southern Arizona Research, Science and Engineering Fair (SARSEF) TCSS judges identify projects directly related to cactus or succulents. They evaluate the projects as to content and research. TCSS awards a First Place of \$100.00, a Second Place of \$75.00, Third Place of \$50.00 and Honorable Mentions of \$25.00.

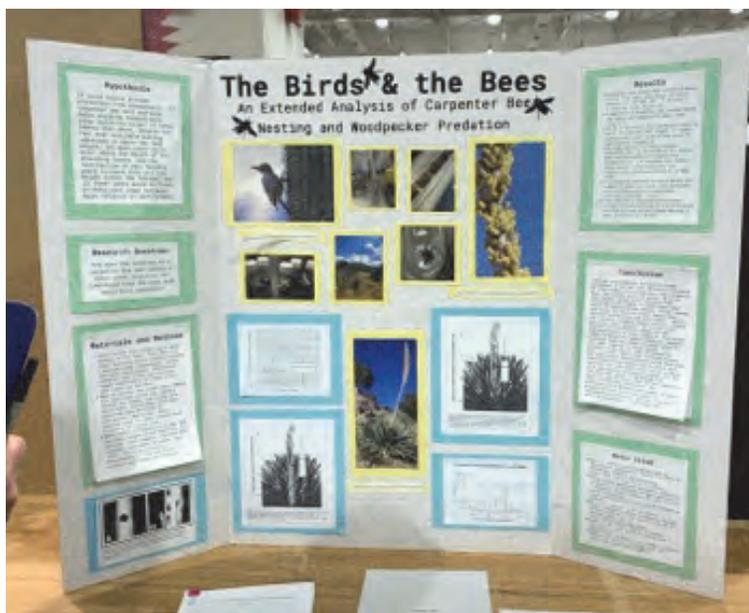
Our judging panel was Patsy Frannea, Janet Baker and myself. We were only able to meet with one of the students because of the virus. The goal here is to incentivize the students with an interest in science. We hope to meet some of the winners at our TCSS May 2020 meeting. Laurie Naugle



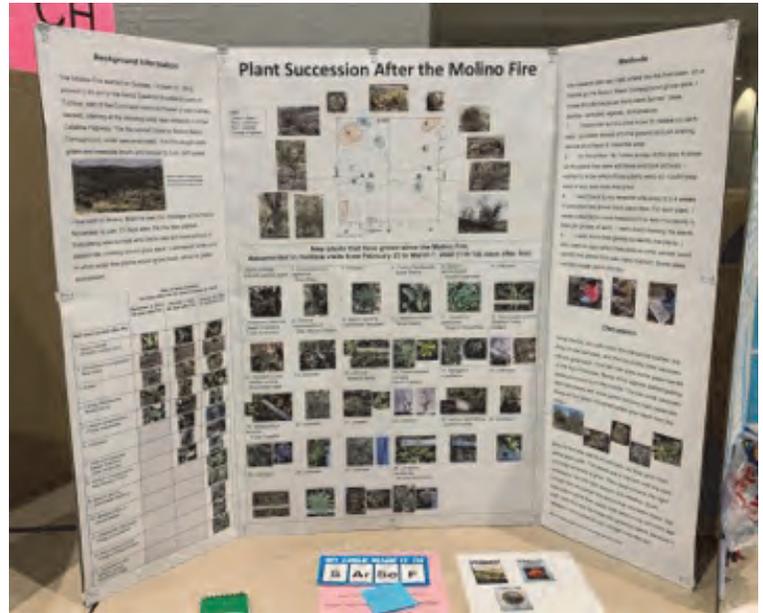
First Place - Celeste Vonelle Browne  
Bending of the Saguaro Cactus  
University High School



Third Place - Abigail Zsitvay  
Saguaro Germination  
Old Vail Middle School -grade 7



Second Place - Chloe Burkholder  
The Birds & the Bees  
Empire High School



Honorable Mention - Elwyn Lipson  
Plant Succession After the Molina Fire  
Khalsa Montessori School -grade K

## ALERT & Warning to TCSS Members! *Oncosiphon piluliferum*

On Monday, April 6 2020 Linda Heisley, our Manager of Pima Prickly Park, uprooted the imaged specimen of an “invasive species”.

It is called “Stinknet” or “Globe Chamomile” for its distinctive bright yellow “globes” of tiny flowers (up to 400 can comprise each globe!).

This plant originated in south Africa and made it to our west coast at San Diego and Los Angeles, California sometime in the 1980s. From there it invaded Arizona in the Phoenix area after 2000. Recently, with our unusual wet winter it has recently shown up in Tucson and Ajo.

In addition to the bright yellow “globes” of tiny flowers, it has small finely divided, carrot-like, dark green leaves that are odiferous like carrots but that bear a very strong “stink” when they dry. The plants are said to grow to 6 to 24 inches

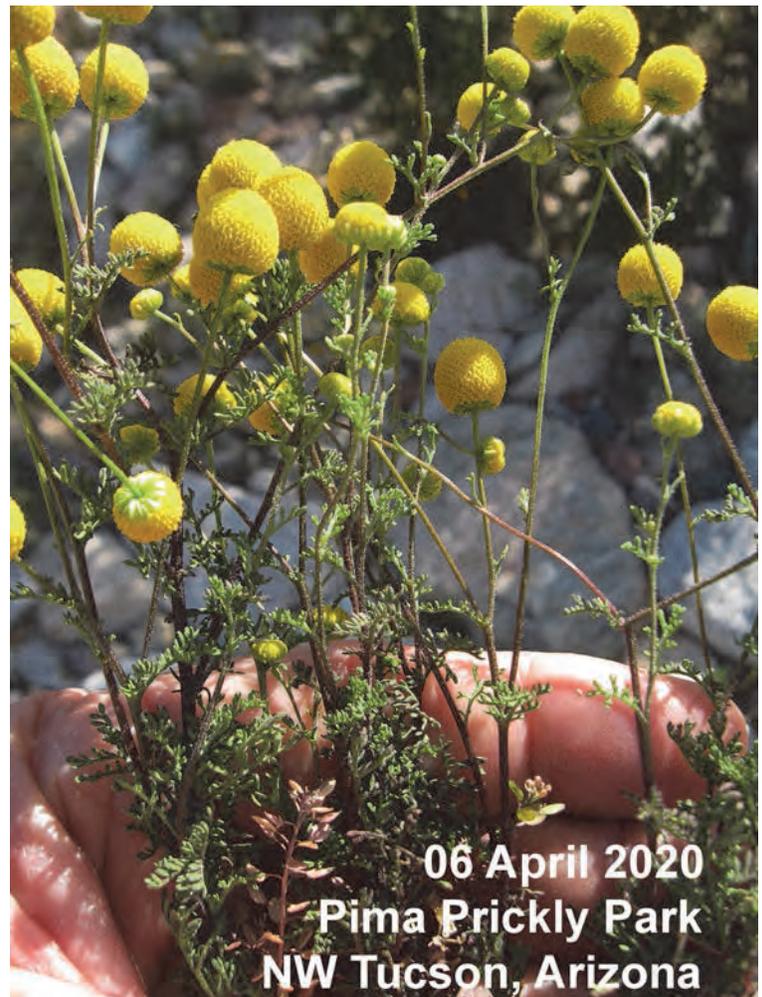
in height. They can form patches that are dense enough to choke out our native plants. They are wet winter-spawned annual composites.

Furthermore, the dead plants are highly flammable as well as potentially able to cause severe allergic reactions. Also, there has been no mention of a native herbivore that may be able to check the advance of this plant.

To prevent its spread in your garden or elsewhere in our environment carefully uproot the plants and immediately “bag” them in order to stop the “broadcasting” of their tiny seeds! **Watch for this plant – it is NASTY!**

- Bill Peachey

For further information, please visit :  
[www.sdcwma.org/species/stinknet.php](http://www.sdcwma.org/species/stinknet.php)



## TCSS BOARD

### Officers

**President:** Richard Wiedhopf • [president@Tucsoncactus.org](mailto:president@Tucsoncactus.org)

**Vice President:** Vonn Watkins • [vp@Tucsoncactus.org](mailto:vp@Tucsoncactus.org)

**Secretary:** Monica Wnuk

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**Treasurer:** Cathy Robson

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[board@Tucsoncactus.org](mailto:board@Tucsoncactus.org)

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**Conservation:** Thomas Staudt

[conservation@tucsoncactus.org](mailto:conservation@tucsoncactus.org)

**Newsletter Editor:** Karen Keller • [runbunny@cox.net](mailto:runbunny@cox.net)

**Deadline for newsletter text or photos:**

**Thursday, May 28, 2020 by 4:00pm**

**TCSS Web Page:**

[www.tucsoncactus.org](http://www.tucsoncactus.org)

**Webmaster:** Keimpe Bronkhorst • [webmaster@Tucsoncactus.org](mailto:webmaster@Tucsoncactus.org)

For additional information call: (520) 256-2447

**Everyone is Welcome!**

Bring your friends, join in the fun and meet  
the cactus and succulent community.

# 102,752

## Cacti Rescued - Since 1999

470 Rescues - 36,952 Volunteer Hours (updated 03-02-20)

Please see our Website Calendar for the next rescued cactus sale. They are scheduled at various times during the year based on our inventory.

**TCSS Club Members receive a 10% discount**

We need your "Eyes and Ears" to help us find new Cactus Rescue sites. Please email us as much information as you can from new project signs or from other sources to **Site@TucsonCactus.org**. Attach a photo of the sign if you can. Note, we do not remove plants from residences.

## May 2020

**Thursday, May 7, 2020 at 7:00pm**

**TCSS Monthly Meeting has been canceled.**

In the interest of health concerns of TCSS members and friends, the Board of Directors of the Tucson Cactus and Succulent Society has cancelled this May 7, 2020 monthly meeting.

**Tuesday, May 12, 2020 at 7:00pm**

Teleconference



**Sky Islands Public High School • 6000 E. 14th St.**



# Desert Breeze

Newsletter of the Tucson Cactus and Succulent Society

June 2020



## President's Message

Hard to believe it is June! This Covid 19 virus has changed all of our lives and activities but has not affected the plants that we enjoy. This has been a great blooming spring and I have been able to enjoy all my plants in bloom, but unfortunately not being able to share them with you, family and other friends.

The Queen of the Night *Peniocereus gregii* are blooming at Pima Prickly Park. The Bloom Night will not happen this year but you are welcome to stop by in the early morning, when the park is open, to view these wonderful plants. Don't forget about wearing your mask and social distancing.

We are working on a number of projects to engage all of you in activities that can be accomplished in a safe manner. Some of you participated in a rescue sale that was very successful (over \$5,000) and safe, but limited. We are looking at a Big Sale that includes our member vendors plus some rescued plants that can be done in a very safe way, probably in late June. All you will have to do is bring your mask and money.

We are also looking into ZOOM meetings. At least with ZOOM (a computer or cell phone platform) we can see and hear each other. I wish I knew when or if normal activities will return. Don't forget there are a number of programs that have been recorded that you can watch on our website. There are also a number of programs at: [cactusandsucculentsociety.org](http://cactusandsucculentsociety.org) from the 2015 and 2017 conventions. I have watched a few and they are very good. They include some of our members presenting their programs on their specialties. Check these out.

This summer we are supporting two interns at the Pima County Native plant Nursery located on the grounds of Pima Prickly Park. They also spend some time with us at the Park. This is our second year and we are pleased to support this program which provides \$2,000 financial aid to their college program on successful completion of the summer internship. Many thanks to Jessie Byrd and her staff for their leadership.

Our Society continues to grow and as of this writing we have 1,314 members representing 866 household. Your support is amazing and we will continue to develop activities for you to enjoy and learn.

Thank you for your continued support.

Dick Wiedhopf, President

## Acknowledgement Of Contributions

The Names below represent the Tucson Cactus & Succulent Society members and friends whose donations helped make this year a success. We extend our sincere thanks for your support.

**General fund**  
Jeff Timan

**Pima Prickly Park**  
Debra Golden-Davis

## Please Note:

**No current Monthly Meetings  
are being scheduled at this time  
due to Covid-19 precautions.**

**In the interest of health concerns of TCSS members and friends, the Board of Directors of the Tucson Cactus and Succulent Society has cancelled the monthly meetings until further notice.**

# Prickly Inspirations

The amazing blood red flower buds begin to appear.



Flowers open at night and appear for viewing the next morning.



Multiple seed pods invite birds, ants and many others.



The fruit pops open and reveals lots of small black seed.



## *Neobuxbaumia polylopha*

**Family:** Cactaceae  
**Genus:** Neobuxbaumia  
**Species:** polylopha (DC.) Backeberg  
**Common Name:** cone cactus, golden saguaro, totem pole cactus

**Habitat:** It is somewhat protected by growing only on limestone hills and on rocky slopes although some areas are now possibly being transformed for other uses that could have an impact on plants in some locations.

**Range:** This species is found only in small populations located in Guanajuato, Querétaro, San Luis Potosí and Hidalgo, Mexico.

**Description:** Mature flowering size plants can be very attractive. The single stem may produce up to 30 rather sharp ribs. Small young plants will continue to add ribs as they grow (as seen in the photo to the right). The reddish golden spines give the plant a rather fuzzy look and this is a unique feature that makes the plant a great selection for your landscape. As with all large columnar plants, woodpeckers can be a problem, so be sure to monitor the plants as they get larger every year.

**Size:** Plant size can vary depending on their location. Plants found in their natural habitat have adapted for many years and this species can reach a height of around 30-40 feet.

**Shape:** Usually a single cylindrical column but multiple stemmed plants are not uncommon. Double or triple stems can be formed at seed germination, and or stems that are clipped or receive main stem damage can produce multiple offsets. Crested plants can also be found.

**Flowers and Fruit:** In Arizona, cultivated plants usually flower in late summer. Dark red flower buds may appear in July followed by flowers continuing into September. The flowers open during the night and will be wide open in the early morning. Flowers are pink in color with a somewhat reddish outer tint (just my observation). Soon after flowering the fruit will begin to swell and pop open revealing numerous seed available for collection by birds or eventually falling to the ground.

**Propagation:** Primarily from seed but also from stem segments.

**Care:** This species is very easy to care for and always likes lots of full sunlight and will expand when moisture is added during warmer temperatures. Watch the monsoon moisture and stop watering during high rainfall. Just let nature take control during those months.

**Comments:** Some plants can be damaged by fungus so closely monitor and spray if needed. In a dry climate this species can take temperatures as low as 12 degrees fahrenheit or about -11.11 celsius. Plants can take freezing temperatures for quite a number of hours without damage and this species has proven to be a choice plant for our Tucson area. There are only a few local nurseries that have this species for sale in sizes adequate for the landscape. If you may be interested or need further information about local sales, please email [vp@tucsoncactus.org](mailto:vp@tucsoncactus.org).



## FROM THE FLORILEGIUM

A new and exceptional botanical art website went online last November. The Shirley Sherwood Collection ([shirleysherwood.com](http://shirleysherwood.com)) includes more than 1,000 works of botanical art that have been acquired by Dr. Sherwood over the past thirty years. Some 300 contemporary artists from 36 countries are represented in her collection.

In 2008, Kew Gardens opened the Shirley Sherwood Gallery of Botanical Art, the world's first and only gallery dedicated solely to botanical art. The gallery houses Kew's 200,000 works of botanical art as well as Dr. Sherwood's collection. Since its opening, some 50 exhibitions have been held in the gallery.

In this brief video from 2018, Dr. Sherwood gives a brief tour of the gallery: [www.youtube.com/watch?time\\_continue=79&v=a85ai0vD7Ns&feature=emb\\_logo](https://www.youtube.com/watch?time_continue=79&v=a85ai0vD7Ns&feature=emb_logo).

The Facebook page for the Shirley Sherwood Collection presents several brief videos of individual botanical works from the collection with commentary by Dr. Sherwood: [www.facebook.com/pg/shirleysherwoodcollection/videos/?ref=page\\_internal](https://www.facebook.com/pg/shirleysherwoodcollection/videos/?ref=page_internal).

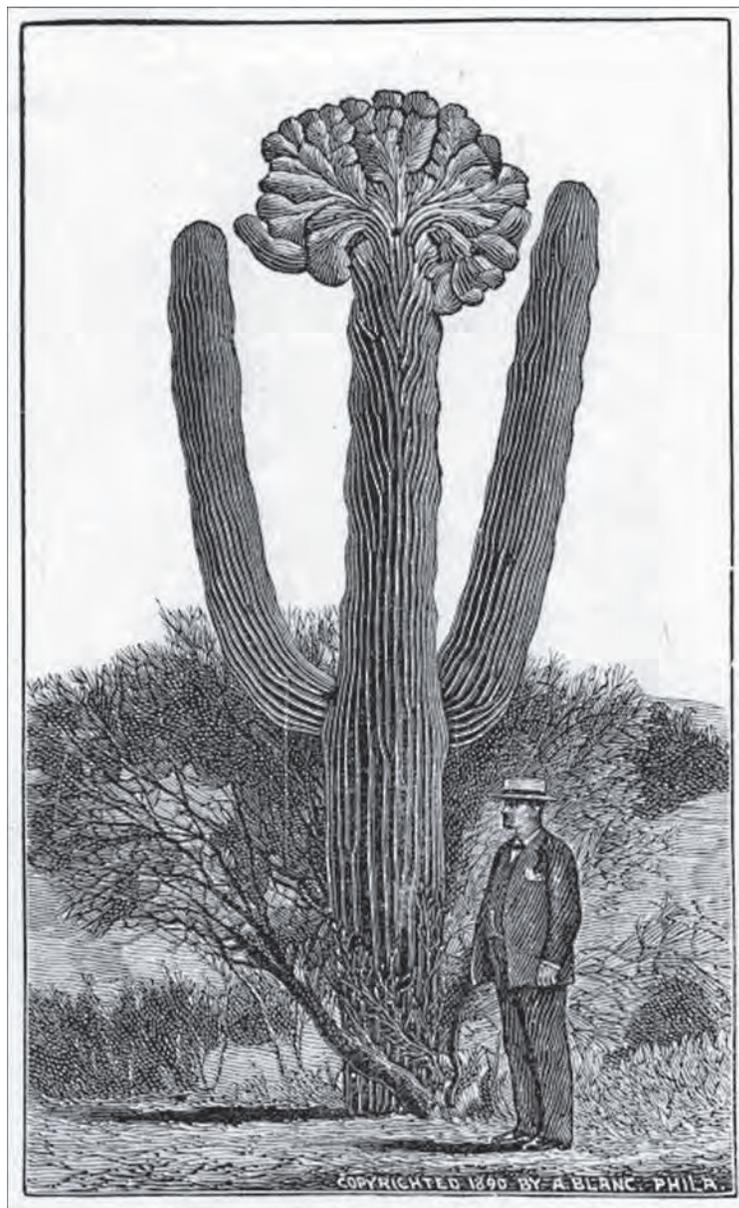
On the Collection's website is a biographical page for each artist with links to their websites, a biography of Dr. Sherwood, and a sampling of photos from past exhibits. Many works from Dr. Sherwood's collection are included in several publications that she has authored or co-authored. These magnificent books can be seen and purchased on the site.

For the faint-of-heart among us who would be reluctant to fly overseas to see this collection, the new website is a gift from the digital heavens. It is a gorgeous site with the viewing size of each work sufficiently large to see all the marvelous details. (If you're using a phone to view the site, find a bigger screen.)

The variety of plants depicted in the collection is astounding. Alas, the site doesn't yet have an index of plants, and the search box results are disappointingly incomplete. In order to see which plants are in the collection, you must spend some very enjoyable time exploring each artist's entry. If persistent, you'll find several works of cacti, aloes, and other succulents. One such work is by Tucson artist Joan McGann ("Desert Breeze" September 2017), who has the honor of having her highly detailed pen and ink study of the crested saguaro included in the Collection ([shirleysherwood.com/-MJC4088](http://shirleysherwood.com/-MJC4088)).

Saguaros are few and far between in contemporary botanical art, and a crested saguaro is rare indeed. The illustration shown here is a woodcut by Albert Blanc that was included in his 1891 plant catalog, "Hints on Cacti". The accompanying article recounted his efforts to harvest the top of a crested saguaro.

Many thanks to Susan Ashton, secretary of the Southwest Society of Botanical Artists and frequent contributor of illustrations in the "Desert Breeze", for directing SWSBA chapter members to this remarkable new online resource.



Woodcut by Albert A. Blanc  
"Hints on Cacti", A. Blanc & Co., Philadelphia, 1891

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Thursday, June 25, 2020 by 4:00pm**

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**Webmaster:** Joe Frannea • [webmaster@Tucsoncactus.org](mailto:webmaster@Tucsoncactus.org)

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or call (520) 256-2447 during business hours.

**Everyone is Welcome!**

**Bring your friends, join in the fun and meet  
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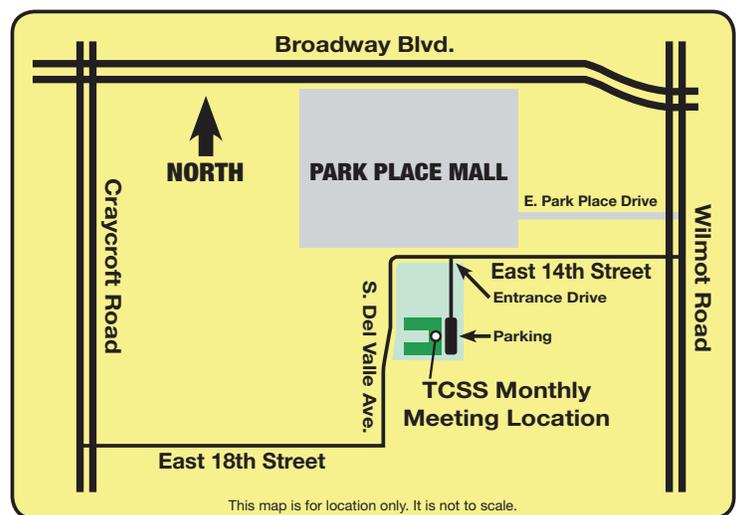
## June 2020

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**Tuesday, June 9, 2020 at 7:00pm**

Teleconference Board Meeting



**Sky Islands Public High School • 6000 E. 14th St.**



# DESERT BREEZE

Newsletter of the Tucson Cactus and Succulent Society

July 2020

Tucson Cactus and Succulent Society • Zoom Program Presentation • Thursday, July 2, 2020 at 7:00pm

## New or Reconsidered Agave species Post Gentry

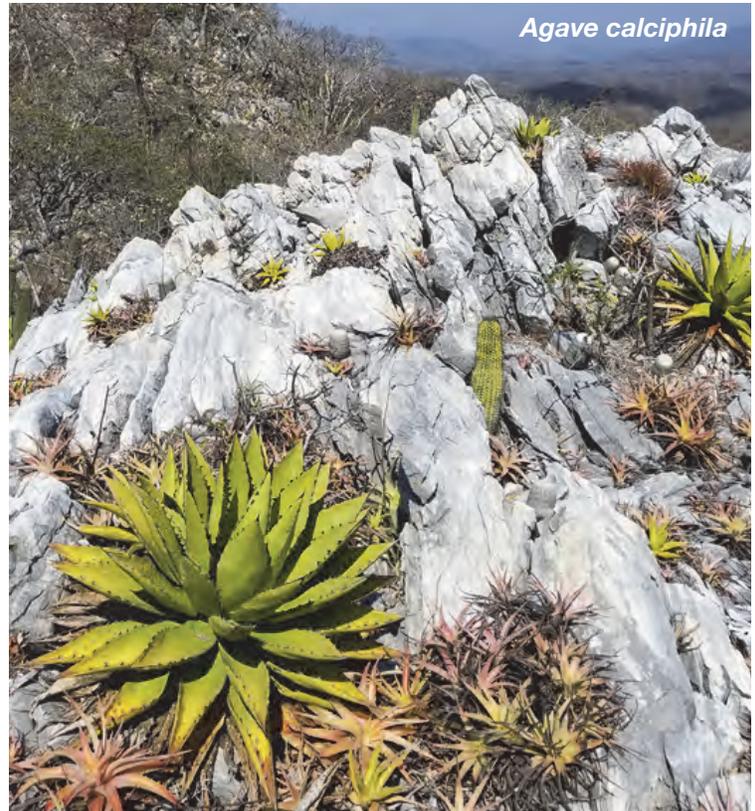
Presented by Greg Starr

In 1982, Howard Scott Gentry produced the most comprehensive monograph titled, *Agaves of Continental North America*. Gentry was an intrepid explorer and collector, spending over 30 years studying the genus in addition to his primary research on the genus *Phaseolus* for the USDA. Agaves have become quite popular both scientifically and with more exploration of Mexico and the southwestern U.S., there have been many new discoveries. In fact, in the 38 years since the publication of *Agaves of Continental North America*, there has been so much activity surrounding the genus that 52 species plus 3 subspecies have either been newly discovered or reevaluated. For example, in the “group” *Striatae*, Gentry listed three species, *Agave dasylirioides*, *Agave striata*, and *Agave stricta*. That number currently stands at 11 species with potentially more on the horizon. Much of this is due to new roads opening areas that were previously nearly impossible to access. Sometimes, a species complex has been reevaluated and species names previously considered synonyms of another name are now considered valid. For example, Gentry considered *Agave kerchovei* to be a highly variable, polymorphic species and included five other names as synonyms. Further investigation has revealed that two of those names are distinct entities and have been elevated back to species status.

Greg has had a long-standing interest in the genus *Agave* both horticulturally and botanically. He has been growing agaves at his nursery since opening the doors in 1985 and has authored or coauthored 5 species and 1 subspecies. He described *Agave ovatifolia* in 2002 along with co-author José Angel Villarreal who had previously described *Agave montana*. More recently Greg has authored or coauthored *Agave azurea*, *Agave calciphila*, *Agave cremnophila*, *Agave oteroi*, and *Agave parviflora subsp. densiflora*. This brand-new presentation of Greg’s will delve into some of the newly described species and some of the reconsidered names. He will take the mystery out of some of these new species and address controversy surrounding others. If you like agaves, there are now even more to like, so come on out and find a new favorite.

After our having to cancel the regular monthly meetings at Sky Islands Public High School, we are now turning to the internet website, ZOOM to aid in presenting our July meeting. If you can attend the July meeting with the aid of your cell phone, pad, laptop or desktop computer, you will enjoy an excellent program! Please follow the Zoom connection instructions on the next page.

Continued on Page 2



*Agave calciphila*



*Agave azurea*



## President's Message

I am very excited to announce that our next meeting on July 2, will be over ZOOM. This means a lot more members will be able to see a great presentation by Greg Starr. Unfortunately, no food, you will have to feed yourself and no plants this time. You have the direction on how to log on to this Zoom meeting. It is

easy so please join us. This is going to be the future of our meetings. They will all probably have a Zoom component. This will enhance our education outreach and will make it possible to hold other types of meeting that will bring more member involvement.

Sunday, June 28, was our Big Vendor Sale. You will have to wait for the July 2, meeting to hear how that event turned out. We have done everything possible to insure that it was safe and met all the Covid-19 criteria. Many thanks for the efforts of Crystal Cannon, Dale Johnson and Doug Rowsell for their efforts to make it a success. And a big thank you to the Vendors that participated. We had 17 plant, pottery and soil vendors. Hope you attended.

Recently we have been stunned by the passing of several long time members, Paul Ellis, Robert Dearing and our current Board of Directors member Bill Salisbury. To their families and friend we extend our sincere condolences. I think that these times make the passing of our friends more significant and meaningful. They all fill in those pleasant spots in our memories. Robert and Bills Family requested donations to be made to TCSS in their memory. These are listed to date in this newsletter.

I also must comment on the destruction of so many Saguaros caused by the current fire in the Catalina Mountains. Buffelgrass, one of the culprits, was originally planted in this area for erosion control and cattle feed and has become one of our worst environmental decisions. It has changed the fire resistant Sonoran Desert into potential serious fire issues. We must take an active role in the control effort and push all levels of government to make this a very high priority. The Tucson area is known worldwide for its majestic stands of Saguaros. We must protect them.

Membership is still growing and we now have 1327 members.

Thank you for your continued support.

Dick Wiedhopf, President

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Continued from Page 1



# Connecting to the Zoom Meeting

**Thursday, July 2, 2020 at 7:00pm**

The Tucson Cactus and Succulent Society has decided to hold the July Monthly Meeting virtually on Zoom. Zoom is an internet website for meetings. Please use your cell phone, pad, laptop or desktop computer.

We recommend if you have never used Zoom to watch this video on Youtube:

<https://www.youtube.com/watch?v=9isp3qPeQ0E>

## Instructions to Join the Zoom meeting:

**Start your browser and enter the following:**

<https://us04web.zoom.us/j/77442209701?pwd=Rm5qUEFsQkZqQSttcGMrTEZzMFlvZz09>

If your browser can't process that address, use: <https://us04web.zoom.us>

**Meeting ID:** 774 4220 9701, Password: 521485

**For Phone Access Without Internet Service:**

**Call** 1-669-900-6833 US (San Jose, CA)

**Meeting ID:** 774 4220 9701,

**Password:** 521485

(audio only: use only if you are not using a microphone attached to a PC, Smartphone, etc).

**If you are calling from outside the US here is a phone number lookup:**

<https://us04web.zoom.us/u/fSnh6w63e>

Please note that when one joins the meeting, you will be automatically muted.

Please do not unmute once the meeting starts.

### General Fund

Leann & Paul Storm

### In Memory Of Bill Salisbury

Robert & Donna Ellis

Cythia Frank

Adora-Marie Higgins & Allan Honda

Cathy & Jon Robson

Penny Miller

Richard & Patricia Wiedhopf

Richard & Brenda Lotesta

### In Memory Of Robert C Dearing

Clara Luna & Saul Ostroff

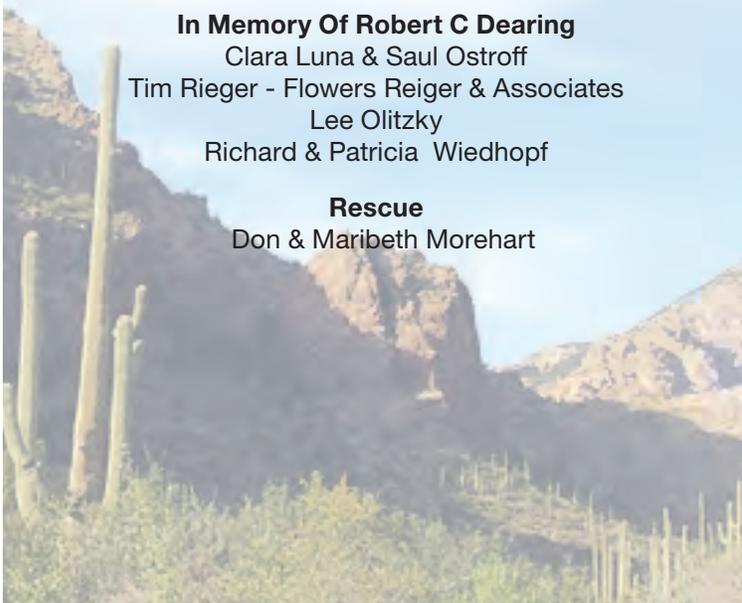
Tim Rieger - Flowers Reiger & Associates

Lee Olitzky

Richard & Patricia Wiedhopf

### Rescue

Don & Maribeth Morehart



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**Garden Tours:** Patsy Frannea • [tours@Tucsoncactus.org](mailto:tours@Tucsoncactus.org)

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**Newsletter Editor:** Karen Keller • [runbunny@cox.net](mailto:runbunny@cox.net)

**Deadline for newsletter text or photos:**  
**Thursday, July 30, 2020 by 4:00pm**

**TCSS Web Page:**

[www.tucsoncactus.org](http://www.tucsoncactus.org)

**Webmaster:** Joe Frannea • [webmaster@Tucsoncactus.org](mailto:webmaster@Tucsoncactus.org)

For general information and questions related to  
TCSS, email [TCSS@TucsonCactus.org](mailto:TCSS@TucsonCactus.org)  
or call (520) 256-2447 during business hours.

**Everyone is Welcome!**

**Bring your friends, join in the fun and meet  
the cactus and succulent community.**

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**Cacti Rescued - Since 1999**  
477 Rescues - 37,425 Volunteer Hours (updated 06-27-20)

Please see our Website Calendar for the next rescued cactus sale. They are scheduled at various times during the year based on our inventory.

**TCSS Club Members receive a 10% discount**

We need your "Eyes and Ears" to help us find new Cactus Rescue sites. Please email us as much information as you can from new project signs or from other sources to [Site@TucsonCactus.org](mailto:Site@TucsonCactus.org). Attach a photo of the sign if you can. Note, we do not remove plants from residences.

## July 2020

**Thursday, July 2, 2020 at 7:00pm (ZOOM MEETING)**

New or Reconsidered Agave species Post Gentry  
Presented by Greg Starr

**Tuesday, July 14, 2020 at 7:00pm**

Teleconference Board Meeting





# DESERT BREEZE

Newsletter of the Tucson Cactus and Succulent Society

August 2020

Tucson Cactus and Succulent Society • Zoom Program Presentation • Thursday, August 6 2020 at 7:00pm

## Some Cacti of Cochise County Arizona

Presented By Rob Romero

Cochise County is unique in Arizona. It is where the Chihuahuan Desert extends into the state. Because of this, there are a few cacti that are found nowhere else in Arizona. With so many places to explore, Cochise County is the perfect place for any cactophile to get out and see these wonderful plants in nature. 7 different cacti will be discussed showing location, and specific habitat types. Rob is a long time cactus hobbyist and traveler. He has been all over Arizona and seen almost all of the state's cacti. He is also the author of "Field Guide To Cacti & Other Succulents of Arizona".

This will be our second regular monthly meeting using Zoom for the meeting and program presentation. If you can attend the August meeting with the aid of your cell phone, pad, laptop or desktop computer, you will enjoy an excellent program. Please follow the Zoom connection instructions provided on the TCSS website and within this newsletter.



### TCSS Zoom Presentation

Thursday, September 3, 2020 at 7:00pm

Cacti and Succulents Endemic to Baja California

Presented by Peter Breslin

Peter is one of four authors of "Field Guide To Cacti & Other Succulents Of Arizona", published by the Tucson Cactus and Succulent Society. He will be teaching biology and environmental science at Geffen Academy at UCLA.



## President's Message

Our first ZOOM meeting was a success. Greg Starr was terrific. We had members and friends from all over joining this Zoom meeting. Please check out all the information about Rob Romero and the upcoming August 6, meeting. It is easy to get on Zoom so let us know if you need help.

September 13, 2020 is the date we set for our annual Good Time Silent Auction. We are planning right now for this event at Sky Islands Public High School, but very concerned about the status of Covid-19. I hope in 6 weeks the downward trend in Tucson continues and we feel safe to have this event. If Tucson is not safe then we will cancel.

There are 4 activities at the event. A modified silent auction, plants for sale at \$2 and \$5, an area of free stuff and ice cream with all the toppings.

In order to reduce close interaction we are changing the silent auction format. Plants, Pots, Books and other related items will still be by donation from members. The purpose is to raise funds for our Research Grant Program. There will not be any return to members who bring in higher priced plants as there has been in the past. Once you have reviewed an item you can make a bid on the bid cards provided. No one knows what you bid nor do you know what anyone else has bid. The highest dollar and cents bid will win. You can make more than one bid but your highest bid will be the one that counts. This will be the process for all the items. The bid cards are turned

in immediately and volunteers will be processing the bids during the entire event. They of course will be secured from sight. The winning bidder for each item will be posted quickly after the auction ends.

Tables with plants selling for \$2 and \$5 will be available on the Patio at Sky Islands. A cashier will be available for your purchases.

In front of the School along the sidewalk will be the free plant and other stuff giveaway. When this opens you are welcome to take the material back to your car. It is all free from you and other members. This is a great opportunity to get rid of plant related stuff that you no longer want or need. All plants must be disease and insect free.

In the hall way, outside the multipurpose room, Ice cream and all the toppings will be served. There will be some seating in the main entrance at appropriate distance for your convenience.

**MASKS and SOCIAL DISTANCING WILL BE REQUIRED AT ALL TIMES DURING THESE EVENTS.** (It is preferred that you remove your mask when eating ice cream)

Start getting your plants and other donations ready. More information will be in the September newsletter and on our website.

Membership is still growing and we now have 1346 members.

Thank you for your continued support.

Dick Wiedhopf, President

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## Instructions To Join The TCSS Zoom Meeting on August 6, 2020

The Tucson Cactus and Succulent Society will hold the August Monthly Meeting virtually on Zoom. Zoom is an internet website for meetings. Please use your cell phone, pad, laptop or desktop computer.

We recommend if you have never used Zoom, please watch this video on Youtube:

<https://www.youtube.com/watch?v=9isp3qPeQ0E>

### Connecting to the TCSS Zoom Meeting

(Please read this information)

**Time:** 6:45 to 9:15pm

(note that the access time has been lengthened so people can officially socialize which seemed to be well received in the last monthly meeting)

The Meeting will Officially Start at 7:00pm

Rob Romero presents: Some Cacti of Cochise County, Arizona

**Meeting ID:** 597 925 0281

**Password:** 4PyX13

(note: neither the meeting ID nor Password is necessary to input if you use the following web address – they are already included in it)

**Web address:** <https://zoom.us/j/5979250281?pwd=N3dxTzFSZFRXcDM5bUJFZUNsOE0Zz0>

**For Phone Access Without Internet Service:** +1 253 215 8782 (Phone in Meeting ID: 597 925 0281 (same as the web) but Password: 746304 (different than web for security reasons).

If calling from out of US to look up an access number: <https://zoom.us/j/5979250281>

# Prickly Inspirations

Many long stems form a nice succulent tree.



## Cereus forbesii

**Family:** Cactaceae

**Genus:** Cereus

**Species:** forbesii C. F. Förster 1846 (Otto)

**Common Name:** torch cactus

**Habitat:** Found mainly in numerous geographic locations in arid plains, within a variety of forest types, along hills and also in some areas near the Chaco region of Argentina and Bolivia, where it is found in the salt flats. Some other plants found growing in the same locations would be *Stetsonia coryne*, *Opuntia quimilo*, *Prosopis caldenia*, *Prosopis alba* as well as many others.

**Range:** Populations are quite numerous in Argentina, Bolivia and Paraguay at the maximum elevation of around 6,500 feet or about 2,000 meters.



5 inch (12.7 cm) seedling

**Description:** This is a large arborecent cactus that has a blue gray or somewhat greenish stem color. Spines can be variable with some being short while others may be long and stout. It is a species with a single trunk and it branches from seed when it reaches around or 3 to 5 feet (1 to 1.5 meters). Mature plants will display many lengthy and somewhat intricate stems that easily makes it a favorite for birds.

**Size:** This species will have a single trunk and plants can eventually mature to around 16 to 20 feet (4.8 to 6 meters) in height. It will also extend in width to about 8 to 10 feet (2.4 to 3 meters).

**Flowers and Fruit:** The flowers usually appear in spring. They are white with reddish maroon outer petals. The flower is to 7.8 inches (20 cm) long and 3 to 4.7 inches (8 to 12 cm) in diameter and the flower will also have numerous long stamens surrounding a large stigma. The Flowers on many plants can be quite variable in color appearance, some darker or with dull to brighter reddish outer petals. The fruit is usually green to pink in color with a somewhat reddish outer tint when mature, (just my observation) and then darker red. The small black seed is a favorite for birds so if you want seed you must be quite protective and collect the fruit early.

**Propagation:** Seed is the best way to propagate this species although stem segments can also be taken and rooted.

**Care:** This is an easily grown species that can take full sun or partially shaded areas. It will do very well with added watering during the dryer parts of the Arizona summer. It is a very hardy plant that can take really cold conditions in many locations in Arizona without protection. This species can also be grown very easily in our native soil.

**Comments:** Over the years this cactus has been grown in Arizona with somewhat limited recognition. It could be because of the large size of the plant, finding plants in local nurseries, or another issue. The display of flowers in the spring will be stunning on older plants so start growing today! If you need further information about this species or would like to find locally grown plants, please email [vp@tucsoncactus.net](mailto:vp@tucsoncactus.net).

Many beautiful flowers open at night.



Young stem growth reveals areoles and spines



## FROM THE FLORILEGIUM

While several of Lucretia Hamilton's botanical illustrations have been included in the "Desert Breeze" over the past few years, we've never looked analytically at the drawings to see what makes them so remarkable. Botanical illustrations, above all else, must strive for absolute accuracy in recording the plant's form, relative size, and, where applicable, color. Hamilton's drawings, particularly those of cacti, certainly display that accuracy. But what else makes them so successful?

What I find most exceptional in this drawing of *Rumex hymenosepalus* is her mastery of compositional technique. Arranging on a single page all the elements of a plant is not an easy skill to master. So many pieces have to be arranged in a coherent and artistic way—the habit, a typical leaf, the flower, flower dissections, enlarged seeds, and roots. With so many detailed components on one page, the artist must find a way to guide the viewer through the drawing. If executed well, the illustration will provide a specific point where the eye is drawn to enter the page. Once there, the viewer should be able to move easily along a visual pathway to take in all the elements of the work.

In this drawing, the cluster of dark tubers at bottom right creates a focal point with strong simple shapes and intense shading. Nothing else in the drawing has such an immediate attraction for the eye. Once within the drawing, a circular pathway leads from the tubers along the rhizome to the stem and the plant's habit. This broad area can serve as a visual resting spot before continuing on to the large leaf arching to the right, leading the eye to the dense whorls of flowers on the inflorescence. Below



*Rumex hymenosepalus*, Canaigre, © Lucretia Breazeale Hamilton, First published 1958 in "Arizona Ranch, Farm and Garden Weeds"

this, the uppermost left tuber points to the enlargement of an achene, and the sheer size of the enlargement easily holds the eye. The various levels of shading and the wide variety of textures created for the various plant structures keep the eye circulating around the page until all the details have been seen.

If it seems that I exaggerate the effect of this visual pathway, take a look at the second illustration, the California poppy, *Eschscholzia californica*. The drawing looks as though it might have been prepared from a pressed herbarium specimen, as there is very little depth to the plant's form. To enter the drawing, the viewer's eye would be drawn first to the darkly toned seed enlargement. From there, the vertical stem of the flower takes the eye directly to the top of the drawing—where it stops. There is no easy circulation leading through the entire work. Of course, this drawing is not a terribly complicated one, and a viewer can methodically look at each element in turn. But the contrast between the two drawings illustrates the value of an effective visual pathway.

With all this said, there are many constraints on botanical illustrations prepared for scientific publications where available space can be severely limited. Many of Hamilton's drawings fall into this category, and in such circumstances, the best compositional techniques may have to be set aside.

The Florilegium Program's website includes two additional illustrations of *Rumex hymenosepalus*, or wild rhubarb. One is by Matilda Smith, the prolific illustrator of "Curtis's Botanical Magazine" ("Desert Breeze" June 2013 and January 2018), and the other by Margaret Warriner Buck from "The Wild Flowers of California: Their Names, Haunts, and Habits" ("Desert Breeze" May 2017). Links are on the homepage (<https://art-botanical.org/>).



*Eschscholzia californica*, California poppy  
© 1977 Lucretia Breazeale Hamilton

## TCSS BOARD

### Officers

**President:** Richard Wiedhopf • [president@Tucsoncactus.org](mailto:president@Tucsoncactus.org)

**Vice President:** Vonn Watkins • [vp@Tucsoncactus.org](mailto:vp@Tucsoncactus.org)

**Secretary:** Monica Wnuk

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**Treasurer:** Cathy Robson

[treasurer@Tucsoncactus.org](mailto:treasurer@Tucsoncactus.org)

### Board of Directors:

[board@Tucsoncactus.org](mailto:board@Tucsoncactus.org)

(terms expire December 31 of year indicated)

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Brad Haeckel (2022)

Penny Miller (2022)

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**Plant Sales:** Linda Heisley • [sales@tucsoncactus.org](mailto:sales@tucsoncactus.org)

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**Newsletter Editor:** Karen Keller • [runbunny@cox.net](mailto:runbunny@cox.net)

**Deadline for newsletter text or photos:**  
**Thursday, August 27, 2020 by 4:00pm**

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**Webmaster:** Joe Frannea • [webmaster@Tucsoncactus.org](mailto:webmaster@Tucsoncactus.org)

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or call (520) 256-2447 during business hours.

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4

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**477 Rescues - 37,425 Volunteer Hours** (updated 06-27-20)

Please see our Website Calendar for the next rescued cactus sale. They are scheduled at various times during the year based on our inventory.

**TCSS Club Members receive a 10% discount**

We need your "Eyes and Ears" to help us find new Cactus Rescue sites. Please email us as much information as you can from new project signs or from other sources to **Site@TucsonCactus.org**. Attach a photo of the sign if you can. Note, we do not remove plants from residences.

## August 2020

**Thursday, August 6, 2020 at 7:00pm (ZOOM MEETING)**

Some Cacti of Cochise County Arizona

Presented By Rob Romero

**Tuesday, August 11, 2020 at 7:00pm**

Teleconference Board Meeting

## Acknowledgement Of Contributions

The Names below represent the Tucson Cactus & Succulent Society members and friends whose donations helped make this year a success. We extend our sincere thanks for your support.

### In Memory of Bill Salisbury

Shirley Salisbury Stern

Jan & Bob Paullette

Bill & Sharon Ginger

Kris Thompson

Beverly Dupnik

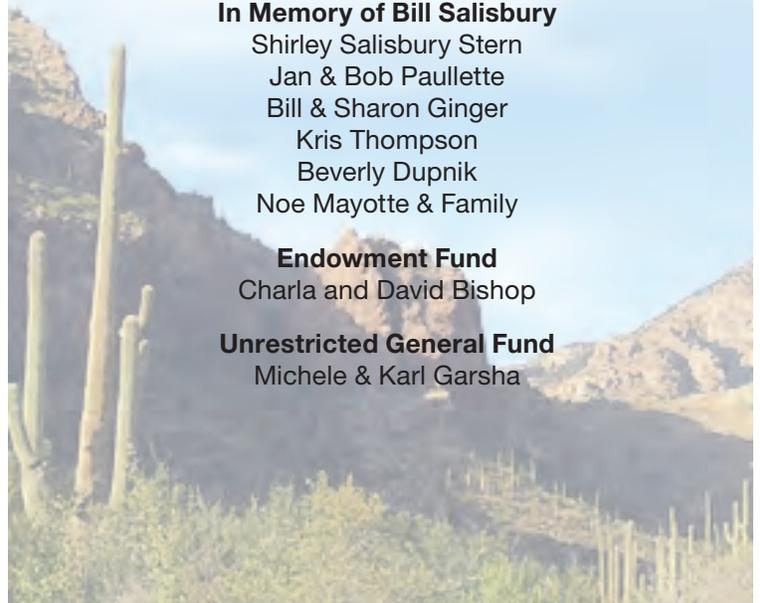
Noe Mayotte & Family

### Endowment Fund

Charla and David Bishop

### Unrestricted General Fund

Michele & Karl Garsha





# DESERT BREEZE

Newsletter of the Tucson Cactus and Succulent Society

September 2020

Tucson Cactus and Succulent Society • Zoom Program Presentation • Thursday, September 3, 2020 at 7:00pm

## Cacti and Succulents Endemic to Baja California

Presented By Peter Breslin

Peter Breslin began Ph.D. studies at Arizona State University in the fall of 2014 and completed the Ph.D. in spring 2020, investigating questions regarding the biogeography and evolution of Cactaceae. Under the advisement of Martin Wojciechowski, with the help of committee members Lucas Majure, Shannon Fehlberg, Fabio Albuquerque and Jon Rebman. Breslin pursued research regarding the molecular phylogenetics, ancestral biogeography, climate change impacts on habitat suitability and population viability of the *Mammillaria* and *Cochemiea* (Cactaceae) of Baja California and adjacent regions.

Breslin is one of the authors of Field Guide to Cacti and Other Succulents of Arizona, published by the Tucson Cactus

and Succulent Society, soon in its 3rd edition. He has been traveling to Baja California to find and photograph populations of rare cacti and succulents for the past 25 years. He recently moved to Los Angeles, CA, to teach biology and environmental science at Geffen Academy at UCLA, where he also hopes to continue several research projects.

This will be our 3rd ZOOM program presentation. Anyone is welcome to join us with the aid of a cell phone, pad, laptop or desktop computer, you will enjoy an excellent program! Please follow the Zoom connection instructions provided and enjoy this presentation.



**TCSS Zoom Presentation**  
**Thursday, October 1, 2020 at 7:00pm**  
Speaker Information to come



## President's Message

Finally a break in the weather.

Hard to believe that it was not 100 degree plus out. Maybe this is a sign that things are getting back to be more normal. We are still lacking rain, the covid-19 has changed our lives, activities, interactions and enhanced our concerns for one another, we are masked and keep our social distances

where possible, but we are still active growing, rescuing and maintaining Pima Prickly Park. We are cactus and succulent nerds and proud of it!

All these issues have turned into new possibilities and programs. Our monthly meetings on ZOOM have not attracted the large audience that I hoped for. It is really easy to do and we will send out another "HOW TO" before the Thursday meeting. We leave time before the meeting starts and after it is over for anyone to say hello to friends and ask questions. It is fun. Please join us. You can have a plate of food and a drink while you are watching and listening to a great speaker. Don't miss Peter Breslin's talk on Baja plants this Thursday.

Rescue Plant sales are difficult with the Covid-19 virus. We are starting to sell some rescued saguaros only on the internet. We are planning diverse sales on the internet from upcoming rescues so everyone will have an opportunity to acquire some really special plants. You will be notified on how to participate. Also, the rescue coordinators are doing training sessions on techniques. We hope to have a large number of volunteers trained for safely rescuing large plants, large saguaros and delicate queens of the night. Thanks to Donna Ellis and Steve Watts for putting these classes together. We are working on a special rescue of plants for Pima Prickly Park. We have almost completed this and will have saved over 70 plants that are being planted at the park. More about these in the next newsletter

The Board of Directors will be electing a nominations committee which will present to you at the November meeting and in the newsletter candidates for President, Vice-President, Secretary and Treasurer plus 4 members of the Board. If you are interested in any of these positions please let me know and I will forward your information to the committee. Please consider taking part in our Society.

Thank you for your continued support.

Dick Wiedhopf, President

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## Instructions To Join The TCSS Zoom Meeting on September 3, 2020

The Tucson Cactus and Succulent Society will hold the September Monthly Meeting virtually on Zoom. Zoom is an internet website for meetings. Please use your cell phone, pad, laptop or desktop computer.

We recommend if you have never used Zoom, please watch this video on Youtube:

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(Please read this information)

**Time:** 6:45 to 9:15pm

(note that the access time has been lengthened so people can officially socialize which seemed to be well received in the last monthly meeting)

The Meeting will Officially Start at 7:00pm

**Meeting ID:** 597 925 0281

**Password:** 4PyX13

(note: neither the meeting ID nor Password is necessary to input if you use the following web address – they are already included in it)

**Web address:** <https://zoom.us/j/5979250281?pwd=N3dxTzFSZFRXcDM5bUJFZUNsOEs0Zz0>

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If calling from out of US to look up an access number: <https://zoom.us/j/5979250281>

# Prickly Inspirations

Plants can be large and attractive.



## *Echinopsis terscheckii*

**Family:** Cactaceae  
**Genus:** Echinopsis  
**Species:** terscheckii (J.Parm. ex Pfeiff.)  
H.Friedrich & G.D.Rowley  
**Common Name:** Argentine Saguaro,  
Cardon Grande Cactus and South  
American Saguaro

**Range:** Populations are quite numerous in Argentina and Bolivia. The larger populations are found in Argentina at Catamarca, Tucuman, Jujuy, La Rioja, San Juan, and Salta at an elevation of around 2,600 to 6,500 feet or about 800 to 2,000 meters.

**Habitat:** *Echinopsis terscheckii* can be found in a variety of soil types and geographic locations from grasslands to bajadas, rocky hillsides and into the Gran Chaco forest (the Gran Chaco is a large arid subtropical forest). Plants also extend into some semitropical regions as well.



Small 4.5 inch (11.4 cm) plant

**Description:** Even though the common name can have “saguaro” included, this species really looks nothing like *Carnegiea gigantea*, except for maybe the overall plant shape. Plants form a single stem that can offset with extending arms. *Echinopsis terscheckii* is often mistakenly confused with *Echinopsis pasacana* as both plants are found within the same region. Healthy plants are medium green in color with nice golden spines. In cultivation this species may be named and referred to as the synonym, *Trichocereus terscheckii*, and the name *Trichocereus* is frequently used.

**Size:** The size of this species may vary depending on local conditions, and water availability. This columnar species forms a large single stem or trunk and will eventually mature from approximately 29 to 40 feet (9 to 12 meters) in height with a trunk diameter of about 2 feet (62 cm).

**Flowers:** The large bright white, nocturnal flowers may appear in the spring or later during the summer months. Flowers may be about 7.8 inches (20 cm) in length and approximately 4 to 5 inches (10 to 13 cm) wide. It has been found that the flowers are pollinated by bats in habitat.

**Propagation:** Plants can be grown rather quickly from seed and that is best preferred, but stem propagation can be another excellent method.

**Care:** *Echinopsis terscheckii* loves full sun, but can be grown easily in areas that are partially shaded. In natural habitat plants usually receive about 12 to 15 inches (30 to 38 cm) of rainfall annually. It is always a good idea to provide good watering especially during the summer months to keep the plant looking really good and healthy. This species is also a hardy plant that can withstand temperatures as low as 12 degrees Fahrenheit (-11 degrees Celsius) for a limited length of exposure time. It is a quite fast growing species that can be easily grown in native soil. Be sure to add a good time-release fertilizer to the soil when first planting.

**Comments:** This species is quite well known and is cultivated in many locations in Texas, New Mexico, Arizona and California. Plants can be easily found in many of your local nurseries but, if you need further information, please email [vp@tucsoncactus.net](mailto:vp@tucsoncactus.net).

Numerous white flowers are found on a specimen plant in Green Valley, AZ.



This photo provided by Dave Fox

## FROM THE FLORILEGIUM

For anyone who loves botanical and natural history illustrations and who might be running out of stay-at-home amusements, I highly recommend spending your days with the 2016 facsimile edition of “Metamorphosis Insectorum Surinamensium” by the German artist-naturalist Maria Sibylla Merian (1647–1717). Published by Merian in 1705, this work is a collection of watercolors that she painted in Amsterdam after returning from a two-year expedition to the Dutch colony of Suriname where she had observed, collected, and painted many of the country’s native insects, small animals and plants.

Merian was trained as a painter, but her true passion was the study of insects. She was fortunate in being born into a family of artists. Her father, Matthäus Merian, a Frankfurt printmaker who illustrated and published natural history books, died when Maria was three. His publishing house passed to his wife, Johanna Sibylla Heim, who soon married Jacob Marrel, a painter, art dealer, and engraver. Marrel trained Maria in drawing, painting, and engraving and introduced her to Dutch flower painting. She was tasked with raising caterpillars for the butterflies that Marrel used in his still life paintings, and over time she became increasingly interested in observing and recording the entire life cycle of the butterfly. Her study was certainly unique for the time.

Initially, Merian would arrange the stages of insect development in sequence, from eggs to adults, with no other subject matter on the page. As her artistry matured, she began to incorporate plants into her drawings with the eggs, larvae, and pupae perched on the leaves and branches and the adults flying overhead. Never before had an artist depicted the entire life cycle of insects in a natural habitat. Even the plants in her drawings exhibit their entire reproductive cycle, with buds, flowers and fruit. Her mastery

of these ecological paintings can be seen in her monumental “Metamorphosis Insectorum Surinamensium”, 62 brilliant watercolors that are overflowing with tropical life.

During her lifetime, Merian was highly respected for both her artistry and her contribution to entomology, yet a century later, she was seen merely as a flower painter and not a very good one at that. Her exceptional achievements in science and art weren’t recognized again until the latter part of the 20th century. Recent books and articles about Merian abound, and there is even the Maria Sibylla Merian Society, which, in 2017, organized an international symposium, “Changing the Nature of Art and Science. Intersections with Maria Sibylla Merian”.

The 2016 facsimile edition of Merian’s masterwork was published by Lannoo Publisher and the National Library of the Netherlands to commemorate the 300th anniversary of her death. The paintings were reproduced at full size from an original edition of Merian’s book held by the Library of the Netherlands, and the result is an enormous 21” folio volume. For this edition, a team of biologists re-examined the paintings to verify the names of the insects and plants, and Merian’s descriptions of each painting have been translated from Dutch and Latin into English. In addition to a biographical section, there are several heavily illustrated essays exploring various aspects of Merian’s life and work.

The superb facsimile version of “Metamorphosis Insectorum Surinamensium” can be purchased online at Amazon. Digital versions of Merian’s beautiful original, without English translation, can be downloaded at the Internet Archive <https://archive.org/details/Metamorphosisin00Meri/mode/2up> and also from the Biodiversity Heritage Library [www.biodiversitylibrary.org](http://www.biodiversitylibrary.org)



*Caesalpinia pulcherrima* with *Manduca sexta*  
(Red bird of paradise with Carolina sphinx moth)



*Malpighia glabra* with *Morpho deidamia*  
(Barbados cherry with Deidamia morpho)

## TCSS BOARD

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(terms expire December 31 of year indicated)

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**Newsletter Editor:** Karen Keller • [runbunny@cox.net](mailto:runbunny@cox.net)

**Deadline for newsletter text or photos:  
Thursday, September 24, 2020 by 4:00pm**

### TCSS Web Page:

[www.tucsoncactus.org](http://www.tucsoncactus.org)

**Webmaster:** Joe Franea • [webmaster@Tucsoncactus.org](mailto:webmaster@Tucsoncactus.org)

For general information and questions related to

TCSS, email [TCSS@TucsonCactus.org](mailto:TCSS@TucsonCactus.org)

or call (520) 256-2447 during business hours.

Everyone is Welcome!

Bring your friends, join in the fun and meet  
the cactus and succulent community.

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**Cacti Rescued - Since 1999**

477 Rescues - 37,425 Volunteer Hours (updated 06-27-20)

Please see our Website Calendar for the next rescued cactus sale. They are scheduled at various times during the year based on our inventory.

TCSS Club Members receive a 10% discount

We need your "Eyes and Ears" to help us find new Cactus Rescue sites. Please email us as much information as you can from new project signs or from other sources to [Site@TucsonCactus.org](mailto:Site@TucsonCactus.org). Attach a photo of the sign if you can. Note, we do not remove plants from residences.

## September 2020

**Thursday, September 3, 2020 at 7:00pm (ZOOM MEETING)**

Cacti and Succulents Endemic to Baja California

Presented By Peter Breslin

**Saturday, September 5, 2020 at 10:00am PDT**

Tom Glavich presents Mutant Cacti and Succulents

CSSA Webinars - Registration Required - See details on the Cactus and Succulent Society of America (CSSA)

<http://cactusandsucculentsociety.org>

**Tuesday, September 8, 2020 at 7:00pm**

Teleconference Board Meeting

## Acknowledgement Of Contributions

The Names below represent the Tucson Cactus & Succulent Society members and friends whose donations helped make this year a success. We extend our sincere thanks for your support.

**In Memory of Bill Salisbury**

Lorraine Durka

Dawne Scarlott

## Please Note:

**"The Good Time Silent Auction  
Schedule for September 13, 2020  
has been cancelled."**



# Desert Breeze

Newsletter of the Tucson Cactus and Succulent Society

October 2020

Tucson Cactus and Succulent Society • Zoom Program Presentation • Thursday, October 1, 2020 at 7:00pm

## Mutant Cacti and Succulents

Presented by Tom Glavich

Tom Glavich is a long-time grower of succulent plants. He has served on the Board of Directors of the Cactus and Succulent Society of America and is currently the co-chair of the Inter-City Cactus and Succulent show and sale, one of the largest C&S shows in the world. He is the author of the Beginner's Guide to Succulent Monocots, and the Beginner's Guide to Succulent Dicots. He is a frequent contributor to the CSSA Journal and an active member of several Los Angeles area Cactus and Succulent Societies.

This presentation will look at mutant cacti and succulents, with an emphasis on the genetic changes and their impact

on the appearance of crests, monstrous and variegated cacti and succulents. A survey of typical and unusual forms will be followed by a short introduction into cultivation and propagation.

This will be an excellent program presentation. Anyone is welcome to join us with the aid of a cell phone, pad, laptop or desktop computer, and you will enjoy a very special program! Please follow the Zoom connection instructions provided and enjoy this presentation by Tom Glavich.



*Astrophytum crest 2020*



*Euphorbia pseudocactus crest*

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### TCSS Zoom Presentation

Thursday, November 5, 2020 at 7:00pm

Aloes On My Mind: Exploring Aloe Hybrids  
One Generation at a Time

Presented by Karen Zimmerman  
Succulent Plant Propagator for the Desert Collections  
Huntington Botanical Gardens  
San Marino, California

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## President's Message

I hope that all have taken the opportunity to visit the Go Green Awards presented by TEP. We are honored to be selected as a recipient. We have partnered with TEP on a number of rescues and thank them for the opportunity to save so many wonderful plants from sites that they were developing to provide all of us with the essential electric power that we

count on. The award states:

### Preservation Partner Award

#### Tucson Cactus and Succulent Society

Cactuses are iconic symbols of our home here in the Sonoran desert – providing beauty as well as shelter and food for wildlife in our unique desert ecosystem. The Tucson Cactus and Succulent Society researches and rescues desert vegetation. TEP volunteers support their efforts to conserve plants that might otherwise be lost to urban growth and construction. Thank you TEP.

Our rescue training program is a great success. Many thanks to Steve Watts, Donna Ellis and Rob Romero for this unique training program which now has trained rescue crew members

on the how to correctly remove large and smaller saguaros, large and heavy plants and the careful digging of queen of the nights. We can boast about our trained volunteers and the safety and effectiveness of their training. Thank you to all that have participated.

We have purchased several battery operated rotary hammers which have proven to be essential tools for our rescue crew members. These tools make rescues safer and allow us to be more efficient on rescues.

Nominations for Officers and 4 Board of Directors positions are still open. Please contact the secretary@tucsoncactus.org if you are interested in serving our society.

We are considering ideas for our annual meeting on December 3, 2020. This is a legal requirement that we handled at our holiday party. Of course this year, because of the Covid-19 virus, we will not have the typical Holiday Party. We do want to have a fun time even if it is only by ZOOM. Any ideas will be appreciated.

Look for the annual meeting announcement, ballots and renewal notices to be sent out in November.

Thank you for your continuing support.

Dick Wiedhopf, President

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## Instructions To Join The TCSS Zoom Meeting on October 1, 2020

If you have a laptop or other device where you can enter a web site address enter  
**<https://bit.ly/tcssmm>**

Copy this into your browser address line or just click on it.

If this does not work and for all other types of devices see our Zoom Meeting Instructions page on our web site. It is

**[https://www.tucsoncactus.org/pdf\\_files/Zoom-Instructions.pdf](https://www.tucsoncactus.org/pdf_files/Zoom-Instructions.pdf)**

You can also find a link to it by going to our October Meeting notice information on the web.

If you can not get connected at the last minute, you can email us at  
**[HELP@TucsonCactus.org](mailto:HELP@TucsonCactus.org) and someone will get right back to you.**

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The rescue crew is planning a "Fundraising - Large Saguaro Training" in Marana in the next 5-8 days. We will be salvaging three large (8-10 ft) saguaros from the dig site for TCSS sales.

### This rescue is open to TCSS members who

- 1 have little or no experience in digging large saguaros and need to attend Steve Watts' class described below
- 2 have experience with large saguaros (i.e., do not need to attend the class) but do want to help out.

### Proposed Date and Time:

Tuesday September 29, 2020 at 7:30 AM-

If you want to participate, please respond to the email address below. Indicate whether you want to attend the class. We will limit the class to 8-10 people. If not enough people can attend during the week, we could reschedule to the weekend. Once we compile a crew roster, we will send detailed directions.

**Class:** How to Dig a Large Saguaro, Instructor: Steve Watts

Hands-on class that covers equipment and procedures to safely dig and transport saguaros that are 6 to 10 feet in height. You will learn the criteria for judging whether a saguaro has been skillfully dug. Topics include assembling a team, strategies to mitigate personal dangers with heavy plants, and equipment you can use to avoid damage to the plant. TCSS will supply most equipment, including jackhammer, carpet, rope, straps, slings, ladders, and trailer. Class participants should bring shovels and other small digging tools. You will be expected to help carry/load the saguaro off the site and travel to the Amphi Holding Area to assist in unloading. Once you complete training, you will qualify for the Rescue Crew "A-List of Experienced Saguaro Diggers" and be allowed to use the club's Makita power shovel on regular rescues.

Donna Ellis  
TCSS Board of Directors  
Cactus Rescue Coordinator, [cactus@tucsoncactus.org](mailto:cactus@tucsoncactus.org)

## FROM THE FLORILEGIUM

In 1699, at the age of 52, the German artist Maria Sibylla Merian, accompanied only by her younger daughter, traveled some 5,000 miles from Amsterdam to the Dutch colony of Suriname to study and paint the country's insects and plants (Sep. 2020 "Desert Breeze"). Nearly two hundred years later, in 1871, the British artist Marianne North (1830–1890) traveled solo to North America and Jamaica to paint the countries' landscapes, plants, and wildlife. Like Merian, North had a burning obsession to explore and study nature at close range and, in her words, "to paint its peculiar vegetation on the spot in natural abundant luxuriance."

North's modest fortune allowed her to finance numerous solo expeditions over the next thirteen years, visiting 16 countries on five continents: Canada, the United States, Jamaica, Brazil (100 paintings over 8 months), Tenerife, Japan, Singapore, Borneo, Java, Sri Lanka, India (200 paintings over 15 months), Australia, New Zealand, South Africa, Seychelles, and Chile. She was fearless in venturing into wild areas and difficult terrain where she would simply set up her easel and paint until the work was finished. In all, North created more than 800 oil paintings, many of which portrayed plants that were little known to botanists. Like Merian, she routinely included insects and all manner of wildlife in her paintings.

In addition to botanical subjects, her works also include magnificent scenic landscapes and snapshots of local life, architecture, statues, and temples. Many of the paintings use a single plant to frame a distant landscape, thus setting the plant clearly in its habitat, something that traditional botanical illustration doesn't attempt. While this style has had its critics, it is remarkable and engaging. The painting here of the pitcher plant, *Nepenthes northiana*, is an excellent example of this style of presentation.

Some of North's later critics have objected to her use of oil painting instead of watercolor that has traditionally been used in British botanical art. Clearly watercolor in a damp jungle setting would have been a disaster, but practicalities aside, North simply liked the vibrancy of oil painting, calling it "a vice like dram-drinking, almost impossible to leave off once it gets possession of one."

North's final journey was to Chile, in 1884, where she went in search of *Araucaria araucana*, the monkey puzzle tree (Feb. 2020 "Desert Breeze"). Her last years were spent in Alderley, Gloucestershire, where she transformed a lawn-tennis ground into a terraced garden, populated with plants sent to her from Kew and from friends around the world.

North gave all of her paintings to Kew Gardens to be housed in the Marianne North Gallery that she paid to construct. The photograph here shows but one of the galleries, all of which are a dizzying explosion of color. North herself designed the galleries, including the tight spacing of the paintings. In all, there are 832 paintings in the Gallery along with 246 types of wood that she collected during her travels.

All of North's works can be seen on Kew's website, but the size of the images is a bit small. A far better viewing experienced can be had at Art UK [artuk.org/discover/artists/north-marianne-18301890](https://artuk.org/discover/artists/north-marianne-18301890).

In 2018, Kew published for the first time all of the 832 paintings from the North Gallery. "**Marianne North: The Kew Collection**", is a glorious book, organized by location and complete with

North's annotations for the works. The book, reasonably priced and readily available online, is truly mesmerizing.

Also available online is an earlier work published by Kew, "**A Vision of Eden: The Life and Work of Marianne North**", which contains many of her paintings along with extensive excerpts from her autobiographies. Particularly interesting is her sister's account of North's final years in England.

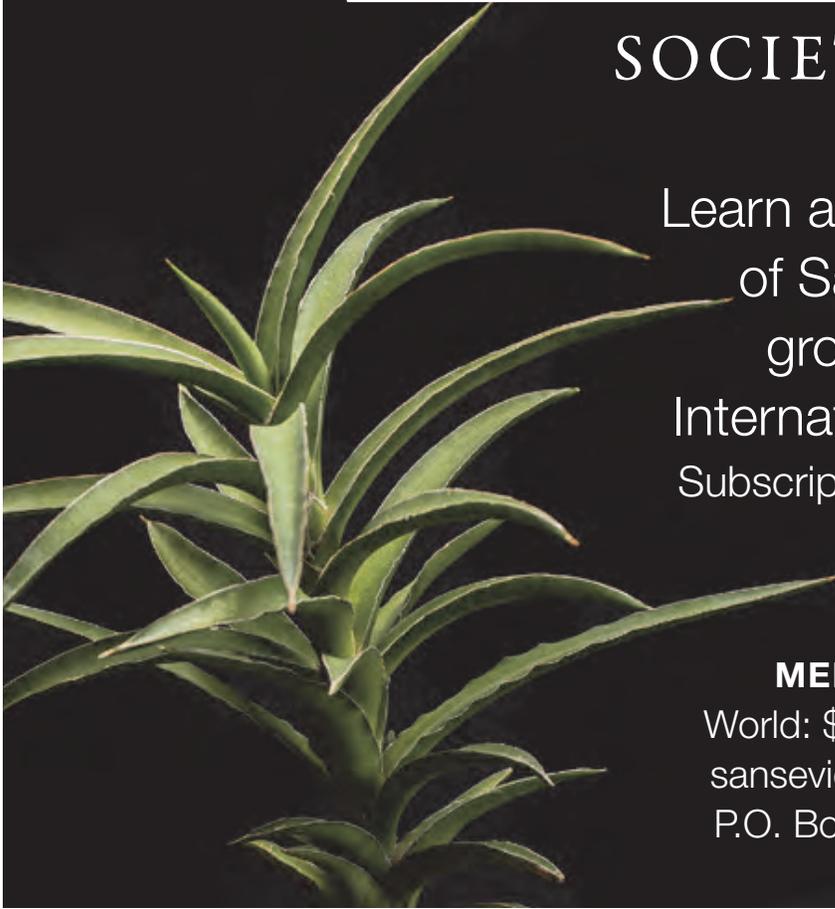


*Marianne North Gallery at Kew Botanical Gardens*



*Nepenthes northiana, Miss North's pitcher plant*

# INTERNATIONAL SANSEVIERIA SOCIETY



Learn about the enormous variety of Sansevierias and how to grow them by joining the International Sansevieria Society. Subscription includes a full-colour journal 2–3 issues per year.

## **MEMBERSHIP/SUBSCRIPTION**

World: \$34/year; North America: \$30/year  
[sansevieria-international.org/membership](http://sansevieria-international.org/membership)  
P.O. Box 64759, Tucson, AZ 85728 USA

## **FIELD GUIDE TO CACTI AND OTHER SUCCULENT OF ARIZONA 3rd Edition**

The 2nd edition is basically sold out and we are preparing to print an updated 3rd edition with updated maps, photographs, and plants.

The Donor Page from the first two editions will be maintained and this will be your only opportunity to add your name and support to the publication. It is really special for your friends and family to see your name in print as a supporter of this definitive work.

**There are 4 levels of support established for this publication.**

<b>Saguaro level</b>	\$2,500 or more
<b>Ferocactus level</b>	\$1,000 - \$2,499
<b>Agave level</b>	\$500-\$999
<b>Opuntia level</b>	\$100-\$499

Use our donation process on our website or send your checks

## **Display Signage For Pima Prickly Park**

It is now time to develop and install educational display signage at the Entrance Hub and at special garden displays such as the Cholla Maze, Monrad Ferocactus Garden, Hummingbird Garden and the Agave Garden.

The cost will be about \$10,000 for these high quality professional displays that are weather safe. These types of displays are at National Parks, Botanical Gardens and other outdoor venues.

Your donation of \$100 or more will be appropriately recognized at the park.

Use our donation process on our website or send your checks to our PO Box.

Thank you.

## TCSS BOARD

### Officers

**President:** Richard Wiedhopf • [president@Tucsoncactus.org](mailto:president@Tucsoncactus.org)

**Vice President:** Vonn Watkins • [vp@Tucsoncactus.org](mailto:vp@Tucsoncactus.org)

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**Newsletter Editor:** Karen Keller • [runbunny@cox.net](mailto:runbunny@cox.net)

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### TCSS Web Page:

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For general information and questions related to  
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or call (520) 256-2447 during business hours.

**Everyone is Welcome!**

Bring your friends, join in the fun and meet  
the cactus and succulent community.

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**Cacti Rescued - Since 1999**  
494 Rescues - 38,012 Volunteer Hours (updated 09-26-20)

Please see our Website Calendar for the next  
rescued cactus sale. They are scheduled at various  
times during the year based on our inventory.

**TCSS Club Members receive a 10% discount**

We need your "Eyes and Ears" to help us find new Cactus  
Rescue sites. Please email us as much information as  
you can from new project signs or from other sources to  
**Site@TucsonCactus.org**. Attach a photo of the sign if  
you can. Note, we do not remove plants from residences.

## October 2020

**Thursday, October 1, 2020 at 7:00pm (ZOOM MEETING)**

Mutant Cacti and Succulents

Presented By Tom Glavich

**Tuesday, October 13, 2020 at 7:00pm**

Teleconference Board Meeting

## Acknowledgement Of Contributions

The Names below represent the Tucson Cactus  
& Succulent Society members and friends whose  
donations helped make this year a success. We extend  
our sincere thanks for your support.

### General Fund

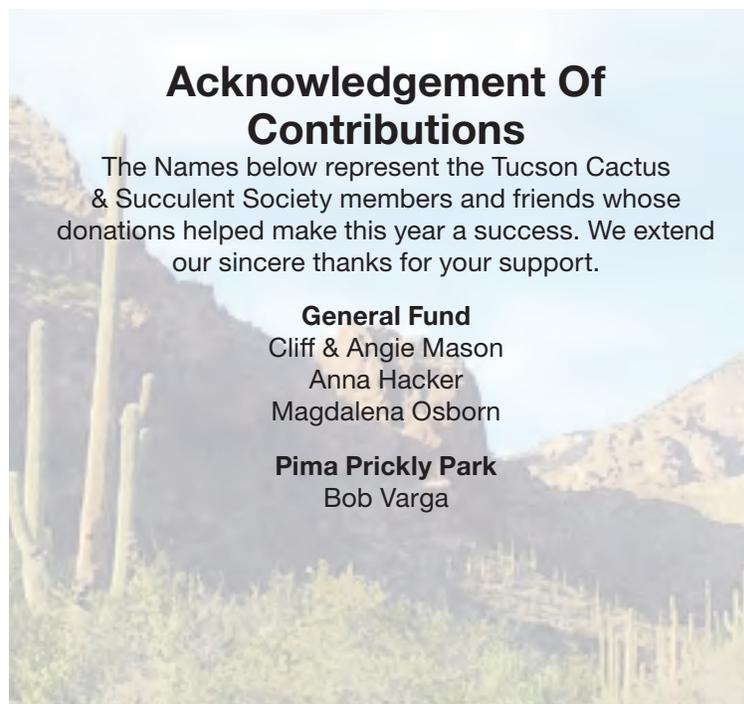
Cliff & Angie Mason

Anna Hacker

Magdalena Osborn

### Pima Prickly Park

Bob Varga





# DESERT BREEZE

Newsletter of the Tucson Cactus and Succulent Society

November 2020

Tucson Cactus and Succulent Society • Zoom Program Presentation • Thursday, November 5, 2020 at 7:00pm

## Aloes On My Mind: Exploring Aloe Hybrids One Generation at a Time

Presented by Karen Zimmerman



Karen Zimmerman has loved and grown plants from a very young age thanks to her grandparents. Succulents became a major passion in 1994, and has never slowed down.

She has been with the Huntington Library, Art Museum and Botanical Gardens since 1999, and as succulent plant propagator for the Desert Collections since 2001. Aloe hybridizing became a “hobby” within her job since 2002. She

has had 12 hybrids published and distributed through the ISI (International Succulent Introductions) program with more on the horizon.

Photography is another passion that she brings to her work, and has had many photos published in journals, a few books and a photography magazine.

Karen will start with an overview of the genus aloe; distribution and diversity of species. She will talk a little about the work of hybridizers up to the present, with a special mention about Kelly Griffin, and his inspiration to try her hand at it. She will show parent plants and offspring, some that became good enough to name and distribute, and others that became disappointments. She will also show some promising babies and future possibilities.

This will be a very special program presentation and anyone who has worked or collected an Aloe should see this presentation. Everyone is welcome to join us with the aid of a cell phone, pad, laptop or desktop computer, and you will be open to an excellent program! Please welcome Karen Zimmerman to our club and enjoy the evening.





## President's Message

ZOOM meetings are fun and easy to attend. We have sent you the log-in: <https://bit.ly/tcssmm> and you will get an email reminder. The neat thing about this technology is you don't have to leave home to attend a monthly meeting. This will also be great when we can have our regular meetings face to face. You can sit back with your favorite beverage and

enjoy the activities.

If you attend the November meeting you can sign up for our raffle prize drawing at no cost. Information about this new event is in this newsletter and will be explained at the meeting. There will be 6 \$25.00 gift certificates won by attendees. They will be sent to you by regular mail and you can redeem them at any of the nurseries listed both here and in the Phoenix/Chandler area. They are good till December 31, 2021. They cannot be redeemed for cash.

The Community Food Bank always needs our help. At our previous December Holiday Parties we collected money and food. Please consider a donation of money this year. See the Community Food Bank article in this newsletter. The Board has agreed to match your contribution since we won't be spending money for the Holiday Party.

There are two additional opportunities to support our society. We will be printing the "Field Guide to Cacti and other Succulents of Arizona" 3rd edition. If you would like your name printed in this edition as one of the supporter's you have until November 5, 2020. See the article in this newsletter.

Also, we are installing professional display signage at Pima Prickly Park. A donation of \$100 or more will be appropriately recognized at the park. This is another opportunity to have your name or a special persons honored at the park

The Nominations Committee will present candidates for officers ending December 31, 2022 and 4 Board of director positions ending December 31, 2023. Then we will accept nominations from the floor as long as the nominee has given written permission or is in attendance and accepts the nomination. The nomination process will close and a ballot(s) (1 for individual members and 2 for family memberships) will be mailed to each household along with membership renewal/update information. Please return by November 30, 2020.

The annual meeting is December 3, 2020 including results of the election, Awards for Service and more.

Thank you for your continuing support.

Dick Wiedhopf, President

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## Instructions To Join The TCSS Zoom Meeting on November 5, 2020

If you have a laptop or other device where you can enter a web site address enter  
**<https://bit.ly/tcssmm>**

Copy this into your browser address line or just click on it.

If this does not work and for all other types of devices see our Zoom Meeting Instructions page on our web site. It is

**[https://www.tucsoncactus.org/pdf\\_files/Zoom-Instructions.pdf](https://www.tucsoncactus.org/pdf_files/Zoom-Instructions.pdf)**

You can also find a link to it by going to our October Meeting notice information on the web.

If you can not get connected at the last minute, you can email us at  
**[HELP@TucsonCactus.org](mailto:HELP@TucsonCactus.org) and someone will get right back to you.**

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## 2020 Holiday Sharing – Matching Gift

Although we won't be able to celebrate the holidays in person this year, we want to continue our tradition of holiday sharing with the Community Food Bank of Southern Arizona. Each year, we have requested donations for the Food Bank at our annual holiday meeting and party. However, we are unable to collect food or monetary donations this year.

Our 2019 holiday sharing helped the Food Bank distribute 283,000 boxes of food equaling 70-million pounds of groceries, including 42-million pounds of fresh produce and vegetables. Since March/April of this year, there has been a consistent 50% increase in the need for food locally.

This year, TCSS will match up to \$1,000.00 of your donations to the Food Bank and is challenging our 1,400+ members to reach that amount. For every dollar received, the Food Bank can provide four meals. If you are able, please consider writing a check, for any amount, to the Community Food Bank of Southern Arizona (no abbreviations), and mail it by December 15 to:

Tucson Cactus and Succulent Society

Holiday Sharing  
Post Office Box 64759  
Tucson, AZ 85728-4759

Thank you! We sincerely appreciate your thoughtfulness!

## FROM THE FLORILEGIUM

On Thanksgiving Day, in 1988, Robert MacNeil of the PBS MacNeil-Lehrer NewsHour, interviewed British botanical artist Margaret Mee whose paintings of Brazilian flora were then on exhibit at London's Kew Gardens, an event planned to coincide with the publication of her book "In Search of Flowers of the Amazon Forests". Mee was passionate in her efforts to inform the world of the irreparable damage being inflicted on the Amazon forest, and she believed that if people saw in her paintings the beauty and fragility of the plants of Amazonia, they would take action to protect it. Six days after the interview, she died in a car accident near Seagrave in England.

Margaret Ursula Mee (1909–1988) was an accomplished artist, having studied at several art schools in England, but she had not painted botanical subjects until 1952, when she moved to São Paulo. Four years later, entranced by Brazil's flowers, she took her first trip into the Amazon, to the Rio Gurupí, where she began drawing the forest's plants. In a span of only two years, she exhibited twenty-five botanical paintings, first in São Paulo and then in Rio de Janeiro, where she attracted the attention of both artists and botanists. Her knowledge of Brazilian plants greatly increased when she was hired as a botanical illustrator at the Instituto de Botanica de São Paulo. For many years, she split her time between the Instituto and the Amazon, making 14 more expeditions into the jungle to record its unique plant life.

In the spring of 1988, Mee made her final trip into the Amazon with the intent of painting the epiphytic night-blooming moonflower, *Selenicereus wittii*. Although she had previously seen and sketched the plant by day, this was the first time she had watched the flowers as they opened at night. Her paintings of the moonflower were her last.

In an interview for the London Sunday Times in August of 1988, she described the despair she now felt when visiting the Amazon. "The last journey nearly broke my heart. All the way up the Rio Negro the forest had been burnt down for charcoal. The land is useless for agriculture, so they simply cut the forest down and burn it. After that there's nothing."

Mee's process was to draw and paint studies of plants in the field and complete the paintings once she had returned home. At first, her paintings were done in the standard botanical illustration format— an isolated plant surrounded by white space. Later, when she saw the danger threatening the Amazon, she began to situate each plant in its natural environment, placing a detailed plant portrait in the foreground and its forest habitat in the background, illustrating the interdependence of the jungle flora. Her hope was that showing the beauty of what was being lost would spur protection efforts.

Her painting of *Gustavia augusta* surrounded by its habitat was used for the book cover of "In Search of Flowers of the Amazon Forests", a compilation of her Amazon diaries published shortly before her death. About a dozen of Mee's paintings are done in this remarkable style that is reminiscent of Marianne North's paintings of plants in their natural surroundings ("Desert Breeze" Oct. 2020).

The 60 paintings in Mee's Amazon Collection were acquired by Kew Gardens. While Kew has provided digital access to viewing all of Marianne North's works, they have not done so with their Mee collection. So here are a few other ways to view her work.

Dumbarton Oaks has a very comprehensive online exhibit of Mee's paintings in their collection. "Margaret Mee: Portraits of Plants" includes a great deal more than the artworks: the section "Amazonian Entanglements" provides an interactive map with descriptions of all her expeditions, and "Margaret Mee in the Amazon" illustrates a biographical sketch with several photographs of Mee in Brazil, including one of her painting the moonflower. The essays and resources section is excellent.

[www.doaks.org/resources/online-exhibits/margaret-mee-portraits-of-plants/plant-portraits](http://www.doaks.org/resources/online-exhibits/margaret-mee-portraits-of-plants/plant-portraits)

The Shirley Sherwood Collection ("Desert Breeze" Jun. 2020) includes 15 works by Mee. <https://shirleysherwood.com/~828>

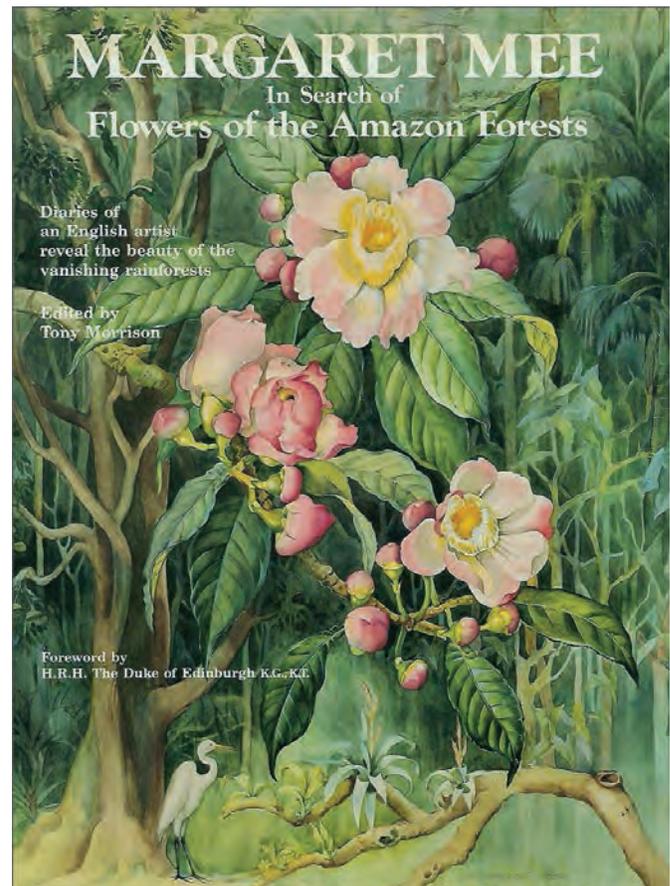
Limited edition prints of twenty-five of Mee's original paintings were produced by Oppenheimer Editions to accompany the 2004 exhibit "The Flowering Amazon: Margaret Mee Paintings from the Royal Botanic Gardens, Kew". This is an excellent source for viewing the paintings:

[www.audubonart.com/shop/category/botanical-art-margaret-mee-79](http://www.audubonart.com/shop/category/botanical-art-margaret-mee-79)

Mee's final quest to find the blooming moonflower is the subject of the wonderful 2012 Brazilian documentary "Margaret Mee and the Moonflower", which is available to rent or buy on Amazon. I highly recommend it.

A transcript of the MacNeil-Lehrer NewsHour 1988 interview with Mee is here:

[web.archive.org/web/20130701054112/http://huntbot.andrew.cmu.edu/HIBD/Departments/Art/Mee.shtml](http://web.archive.org/web/20130701054112/http://huntbot.andrew.cmu.edu/HIBD/Departments/Art/Mee.shtml)



## Detailed Zoom Meeting Door Prize Instructions and Rules

TCSS is pleased to announce a new feature for our Zoom Monthly Meetings – the return of the Door Prize event. *For the next meeting in November, this will be a test, so if we run into problems, please understand.*

For those who have been to one of our in-person Monthly Meetings, you probably remember you could buy tickets for plants (generally red in color) and a Door Prize ticket (generally blue in color) was given to everyone. Then at the end of the meeting break, we would have the drawings.

However, in the virtual world of Zoom, we can't have actual tickets and plants to give away. So, rather than tickets and plants we will use Zoom Chat Room messages as a 'ticket' and rather than plants, six \$25 gift certificates will be awarded to six winners. This is why we need your email address to contact the winners and get your mailing address.

This process is open to all meeting attendees, member or non-member. And, *there is no charge* to you!

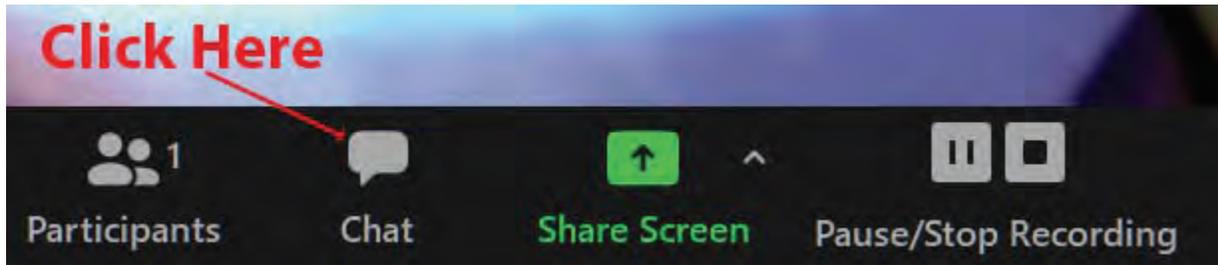
Below is a description of the new virtual process. On the last page are screen shots to illustrate the above process (once you have joined the Zoom Meeting).

1. If you would like to participate in the virtual drawing, please do the following:
  - a. When in Zoom, at the bottom of your screen, there is a small horizontal menu with an icon called "Chat";
  - b. Click on that and a new window will pop-up;
  - c. At the bottom of the new Chat window, there is a field filled in with "Everyone";
  - d. Click on the small arrow and a drop-down field with a lot of names will appear;
  - e. Click on 'Door Prize Tickets';
    - i. Please do **not** send your information to "Everyone," please make sure the 'Door Prize Tickets' name is selected. Any information sent to "Everyone" will not be used and may be displayed to the public attendees.
  - f. On the line that says "Type message here" type over it with your real name and email in the form like: 'John Doe [jdoe12@email.com](mailto:jdoe12@email.com)' and press the "Enter" or "Return" key on your keyboard.
    - i. Only one entry per email is allowed. Multiple entries will be disqualified.
    - ii. This will be a private message that is not viewable except to 'Door Prize Tickets'.
  - g. There is a time limit for entries -- from the start of the meeting to the start of the presentation. All chat messages must be received in that time period or they will not be used. This is due to the time required to process the data.
2. That is all you need to do to enter.

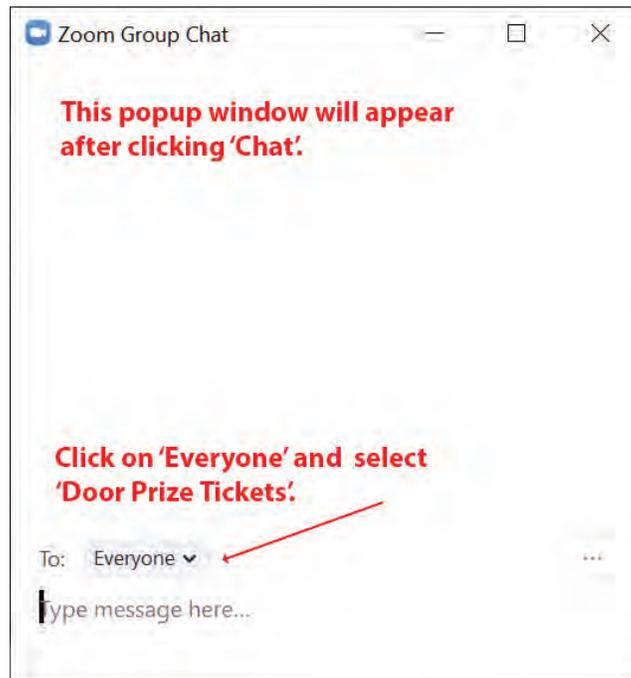
One more point – Many of our vendors shown on the certificate will do either mail order or online orders (or both). Thus, you do not have to be local to enter. However, you will be responsible for any shipping costs, etc. that you incur when you redeem the \$25 gift certificate. The winners will be contacted by email.
3. You may be interested in how we select the winners.
  - a. One of our members has written a small database-driven PC application that takes your Chat Message information and loads it into a database
  - b. Then a random number is assigned (by the database) to each person.
  - c. When the "Select Winner" button is clicked, the system generates a random number which is matched to an entry and that person is a winner of the gift certificate.
4. Please note that once the process has finished and certificates awarded, we will delete all personal information stored in the database.

## Visual Instructions for Entering the Door Prize Event

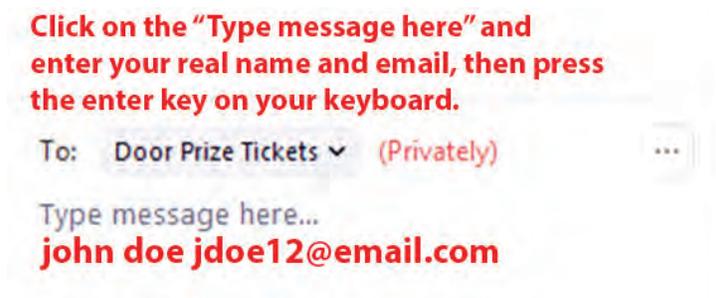
1. After starting Zoom and entering the meeting, click on “Chat’ at the bottom of your screen



2. Click on the word ‘Everyone’ at the bottom of the chat window



3. Click on ‘Door Prize Tickets’
4. On the line that says “Type message here” type over it with your real name and email like: ‘John Doe jdoe12@email.com’ and press “Enter” or “Return” on your keyboard.



5. You are now entered into the virtual drawing!

## Cactus Casuals - Holiday Gift Ideas

Shop from home, at Cactus Casuals ladies and men's boutique, for that special someone or for yourself this holiday! Our clothing section includes stylish TCSS T-shirts which can be accessorized with a lanyard, tote bag or heavy-duty work gloves. For those adventurous cactus rescuers, we have slings and our ever-popular Field Guide to help identify cactus.

Field Guides .....	\$25.95
Slings.....	\$45.00
TCSS Lanyards .....	\$2.00
TCSS T-shirts.....	\$15.00
Tote bags.....	\$5.00
Work gloves.....	\$15.00
(plus shipping)	
Place your orders with kris_thompson@centurylink.net.	

## 2020 Arizona Tax Credit

It will be a while before we'll be able to return to Sky Islands Public High School for our monthly meetings. We have enjoyed a great partnership with the school and have a lease that extends through May 2022. Like many local schools, enrollment is down and promised funding has not been received. If you would like to support this unique school with your Arizona Tax Credit this year, please refer to [www.skyislands.org/files/2020/07/Tax-credit-2020.pdf](http://www.skyislands.org/files/2020/07/Tax-credit-2020.pdf) for more information. Thank you!

## Field Guide To Cacti And Succulent Of Arizona 3rd Edition

**Deadline is November 5, 2020**

The 2nd edition is basically sold out and we are preparing to print and updated 3rd edition with updated maps, photographs, and plants.

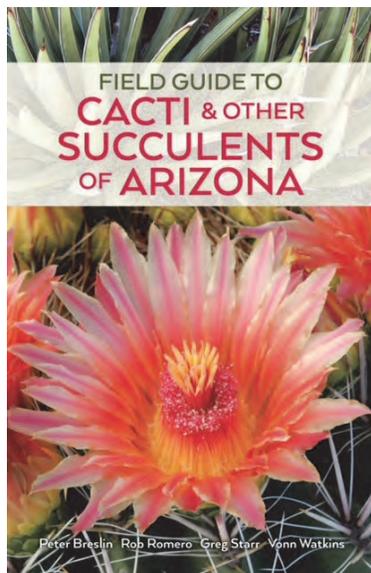
The Donor Page from the first two editions will be maintained and this will be your only opportunity to add your name and support to the publication. It is really special for your friends and family to see your name in print as a supporter of this definitive work.

**There are 4 levels of support established for this publication.**

Saguaro level.....	\$2,500 or more
Ferocactus level .....	\$1,000 - \$2,499
Agave level \$500 .....	\$999
Opuntia level \$100.....	\$499

Use our donation process on our website or send your checks to our PO Box

## Field Guide to Cacti and Other Succulents of Arizona



TCSS is publishing the third edition for Field Guide to Cacti and Other Succulents of Arizona. This edition will be available in December 2020. The first edition was published in March 2015 with 2500 copies printed. The second edition was published in Nov, 2016 with 3100 copies printed. Over 100 people donated to the first edition, and 25 donated to the second.

We had anticipated with the release of the first second edition that the distributions of species would be expanded, and 12 maps were

altered to reflect this newly understood distribution. Also during the two years from the first to second edition we were able to acquire flower photos for 15 species not previously published, and 10 other photos of plants in habitat were of better quality. Significantly, two species were added to the second edition: *Echinocereus relictus* (newly described) and *Nolina texana*. Two species were dropped: *Echinocereus apachensis* and *E. boyce-thompsonii*.

The third edition includes one new species for Arizona: *Echinocereus triglochidiatus*, found along the east border with New Mexico around St Johns. Maps for an additional 11 species have been updated. There are 15 new photos that either replaced plants photoed in cultivation with actual in-habitat photos or in habitat flowers (leadingii). Phenology has been updated so that flowering months appear instead of a more vague mid-summer, early spring indicator. Additionally we have adopted the most currently accepted nomenclature for all species. Primarily this affects the *Cylindropuntia*. In this edition we now highlight the Arizona endemics.

Both second and third editions have had adjustments to copy to better describe species

TCSS is accepting donations for the third edition through Nov. 5. All those who donate will be listed in the book.

Thomas Staudt, editor.

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**TCSS Zoom Presentation**  
**Thursday, December 3, 2020 at 7:00pm**  
Holiday program information to come

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## TCSS BOARD

### Officers

**President:** Richard Wiedhopf • president@Tucsoncactus.org

**Vice President:** Vonn Watkins • vp@Tucsoncactus.org

**Secretary:** Monica Wnuk

secretary@tucsoncactus.org

**Treasurer:** Cathy Robson

treasurer@Tucsoncactus.org

### Board of Directors:

(terms expire December 31 of year indicated)

Peter Ertman (2022)

Brad Haeckel (2022)

Penny Miller (2022)

Steve Watts (2022)

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**Prickly Park:** Linda Heisley • park@Tucsoncactus.org

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**Refreshments:** Patsy Frannea • refreshments@Tucsoncactus.org

**Technology:** technology@Tucsoncactus.org

**Research:** Doug Rowsell • research@Tucsoncactus.org

**Field Trips/tours:** Rob Romero/Joie Guinta

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**Vendor Coordinator:** Dale Johnson • vendors@tucsoncactus.org

**Plant Sales:** Linda Heisley • sales@tucsoncactus.org

**Field Guide Sales:** Susan Durham & John Durham

books@tucsoncactus.org

**Conservation:** Thomas Staudt

conservation@tucsoncactus.org

**Newsletter Editor:** Karen Keller • runbunny@cox.net

**Deadline for newsletter text or photos:  
Tuesday, November 24, 2020 by 4:00pm**

### TCSS Web Page:

www.tucsoncactus.org

**Webmaster:** Joe Frannea • webmaster@Tucsoncactus.org

For general information and questions related to  
TCSS, email TCSS@TucsonCactus.org  
or call (520) 256-2447 during business hours.

Everyone is Welcome!

Bring your friends, join in the fun and meet  
the cactus and succulent community.

# 104,715

**Cacti Rescued - Since 1999**  
494 Rescues - 38,012 Volunteer Hours (updated 09-26-20)

Please see our Website Calendar for the next  
rescued cactus sale. They are scheduled at various  
times during the year based on our inventory.

**TCSS Club Members receive a 10% discount**

We need your "Eyes and Ears" to help us find new Cactus  
Rescue sites. Please email us as much information as  
you can from new project signs or from other sources to  
**Site@TucsonCactus.org**. Attach a photo of the sign if  
you can. Note, we do not remove plants from residences.

## November 2020

**Thursday, November 5, 2020 at 7:00pm (ZOOM MEETING)**

Aloes On My Mind: Exploring Aloe Hybrids One Generation at  
a Time

Presented By Karen Zimmerman

**Tuesday, November 10, 2020 at 7:00pm**

Teleconference Board Meeting

## Acknowledgement Of Contributions

The Names Below Represent The Tucson Cactus  
& Succulent Society Members And Friends Whose  
Donations Helped Make This Year A Success. We Extend  
Our Sincere Thanks For Your Support.

### Publications

(Field Guide 3Rd Edition)

Melanie Campbell-Carter

Curtis & Beth Hamann

Richard & Patricia Wiedhopf

### Pima Prickly Park

Cathy, Elias, Naheli & Ellis Cabezas

Larry & Rowena Matthews

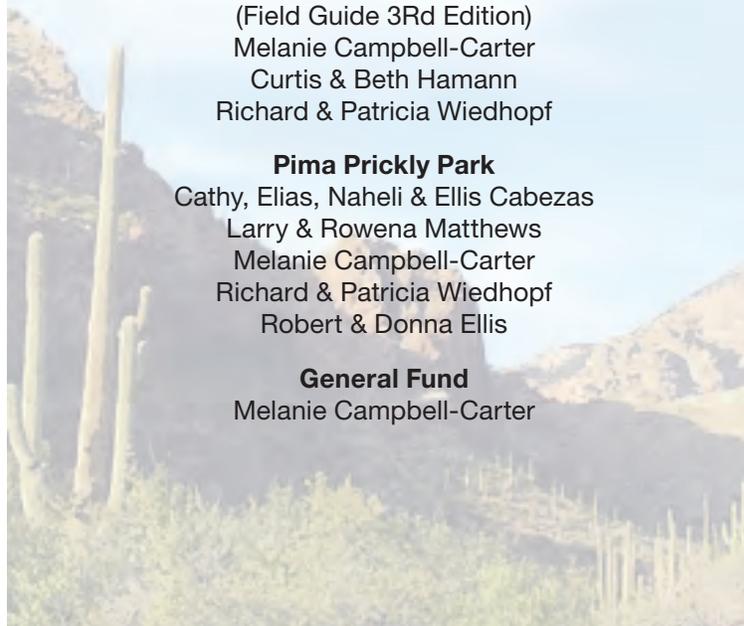
Melanie Campbell-Carter

Richard & Patricia Wiedhopf

Robert & Donna Ellis

### General Fund

Melanie Campbell-Carter





# DESERT BREEZE

Newsletter of the Tucson Cactus and Succulent Society

December 2020

Tucson Cactus and Succulent Society • Zoom Program Presentation • Thursday, December 3, 2020 at 7:00pm

## Your Questions and Their Answers - Panel Discussion

Featuring: Mark A. Dimmitt, Greg Starr and Jason Wiley

This holiday Zoom program will feature 3 professionals that will take questions submitted by you through the Zoom Chat function. Please think about questions that may focus on cacti and other succulents, cultivation, home landscaping and more. For information as to how to access the chat function, please see <https://support.zoom.us/hc/en-us/articles/203650445-In-meeting-chat>. Once the chat window appears, look at the base of the window and you will see the word "Everybody". Immediately below that word, please type your question. The panelists will then verbally answer your question in the order received.

**Mark A. Dimmitt** has a Ph.D. in biology (herpetology) from the University of California at Riverside after earning an M.S. from UCLA and a B.S. from Pomona College. He worked at the Arizona-Sonora Desert Museum from 1979 to 2011, first as Curator of Botany, and eventually as Director of Natural History (field ecologist). His areas of research included botany and vertebrate biology, and he is the author of more than 50 scientific and popular publications about ecology and horticulture. He is a Fellow of the Cactus and Succulent Society of America. His major publication is the plant and ecology chapters of *A Natural History of the Sonoran Desert* (2000), and is the senior editor of the revised edition (2015). He is a coauthor of *Adenium: Sculptural Elegance, Floral Extravagance*.

**Greg Starr** has both a BS in Plant Science and an MS in Botany/Plant Science from the University of Arizona. While working on his MS degree, Greg worked at the University herbarium under the tutelage of Dr. Charles T. Mason. It was there he learned the details of taxonomy and nomenclature and honing his skills at plant identification using botanical keys. For his MS, Greg blended his love of both horticulture and botany to produce a thesis covering the species of *Salvia* that had been in cultivation since 1900. Greg opened a small, native or near-native plant nursery in July 1985 and although he had an interest in cacti and succulents, it took several years for that interest to become an infection causing him to produce his book, *Agaves: Living Sculptures for Landscapes and Containers*, and to be a co-author on the *Field Guide to Cacti & Succulents of Arizona*. Currently, Greg spends the heat of summer days in the relatively cool environment of his house sitting in front of the computer hoping that a random assault of his hands on the keyboard will result in an article for the CSSA journal or another book.

**Jason Wiley** grew up on a sod farm cultivating his career in horticulture which inspired him and to connect people to their environment by creating meaningful experiences in the

landscape. He received his Bachelors of Science in Horticulture from Arizona State University and also studied Landscape Architecture at Colorado State University. He has worked in public gardens for 9 years and has been a professional horticulturist for 16 years. He recently received the title of Director of Horticulture at Boyce Thompson Arboretum. Prior to that, he was a Horticulturist at the Arizona-Sonora Desert Museum where he maintained the Cactus Garden, Agave Garden, as well as various other gardens.



## 2020 Holiday Sharing Matching Gift

We appreciate the monetary donations received for our traditional holiday sharing with the Community Food Bank of Southern Arizona. We have until December 15 to reach our TCSS matching gift of \$1,000.00. If you're able, please be sure to mail your check soon so that we can reach our goal. Any amount is appreciated! Checks should be made out to the Community Food Bank of Southern Arizona (no abbreviations), and mailed to:

Tucson Cactus and Succulent Society  
Holiday Sharing  
Post Office Box 64759  
Tucson, AZ 85728-4759

Thank you so much for making the holidays brighter for our neighbors!



### President's Message

We are all looking forward to the new year and saying goodbye forever to 2020. This is the time for our Holiday Party to celebrate accomplishments, eat wonderful food until we are stuffed to the gills and exchange gifts. Well, we will have to wait till next year for the food and gifts.

The Board challenged you to match \$1,000 gift to the Food Bank of Southern Arizona and you exceeded that. You are wonderful! We can feel good that we are helping out our community in this very dark time.

The December 3, 2020 Zoom meeting will be different. Besides the Annual Meeting requirements, results of the elections and awards will be presented, gift certificates will be awarded and a

wonderful panel of cacti and succulent experts, Mark A Dimmitt, Greg Starr and Jason Wiley will answer any and all questions. (See meeting announcement for details).

We will be sending out membership cards and badges over the next couple of weeks including tax donation receipts for gifts we have received. Cactus buck, for those of you involved with the rescue program, will be sent out by mid-January.

Finally, I plan to wear my latest fancy western shirt that I acquired for this years Holiday Program. I have been doing this for the last 20 years, it's kind of a tradition. I want to toast the success, health and the strength of this Society at the beginning of the meeting so join me with your favorite beverage.

Thank you for your support especially this year.

Dick Wiedhopf, President



## Instructions To Join The TCSS Zoom Meeting on December 3, 2020

If you have a laptop or other device where you can enter a web site address enter  
**<https://bit.ly/tcssmm>**

Copy this into your browser address line or just click on it.

If this does not work and for all other types of devices see our Zoom Meeting Instructions page on our web site. It is

**[https://www.tucsoncactus.org/pdf\\_files/Zoom-Instructions.pdf](https://www.tucsoncactus.org/pdf_files/Zoom-Instructions.pdf)**

You can also find a link to it by going to our October Meeting notice information on the web.

If you can not get connected at the last minute, you can email us at **[HELP@TucsonCactus.org](mailto:HELP@TucsonCactus.org)** and someone will get right back to you.



## A Sunset and Cholla in the Desert to end 2020



Have a wonderful holiday season  
and hope see you all in the New Year.  
Happy Holidays from your editor.

## TCSS BOARD

### Officers

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**Vice President:** Vonn Watkins • [vp@Tucsoncactus.org](mailto:vp@Tucsoncactus.org)

**Secretary:** Monica Wnuk

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**Treasurer:** Cathy Robson

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**Free Plants:** Donna Ellis • [plants@Tucsoncactus.org](mailto:plants@Tucsoncactus.org)

**Florilegium:** Margaret Pope • [art@Tucsoncactus.org](mailto:art@Tucsoncactus.org)

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**Prickly Park:** Linda Heisley • [park@Tucsoncactus.org](mailto:park@Tucsoncactus.org)

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[conservation@tucsoncactus.org](mailto:conservation@tucsoncactus.org)

**Newsletter Editor:** Karen Keller • [runbunny@cox.net](mailto:runbunny@cox.net)

**Deadline for newsletter text or photos:**  
**Tuesday, December 22, 2020 by 4:00pm**

### TCSS Web Page:

[www.tucsoncactus.org](http://www.tucsoncactus.org)

**Webmaster:** Joe Frannea • [webmaster@Tucsoncactus.org](mailto:webmaster@Tucsoncactus.org)

For general information and questions related to  
TCSS, email [TCSS@TucsonCactus.org](mailto:TCSS@TucsonCactus.org)  
or call (520) 256-2447 during business hours.

Everyone is Welcome!

Bring your friends, join in the fun and meet  
the cactus and succulent community.

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**Cacti Rescued - Since 1999**  
494 Rescues - 38,012 Volunteer Hours (updated 09-26-20)

Please see our Website Calendar for the next  
rescued cactus sale. They are scheduled at various  
times during the year based on our inventory.

**TCSS Club Members receive a 10% discount**

We need your "Eyes and Ears" to help us find new Cactus  
Rescue sites. Please email us as much information as  
you can from new project signs or from other sources to  
**Site@TucsonCactus.org**. Attach a photo of the sign if  
you can. Note, we do not remove plants from residences.

## December 2020

**Thursday, December 3, 2020 at 7:00pm (ZOOM MEETING)**

Your Questions and Their Answers - Panel Discussion

Featuring: Mark A. Dimmitt, Greg Starr and Jason Wiley

**Tuesday, December 8, 2020 at 7:00pm**

Teleconference Board Meeting

## Acknowledgement Of Contributions

The Names Below Represent The Tucson Cactus  
& Succulent Society Members And Friends Whose  
Donations Helped Make This Year A Success. We Extend  
Our Sincere Thanks For Your Support.

### Publications (Field Guide 3Rd Ed.)

Rick McNicholas  
Robbie Willingham

**Pima Prickly Park**  
Daniel Klatt

