

Tucson Cactus and Succulent Society Monthly Meeting Presentation

Thursday January 2, 2020 from 7 - 9 pm

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

Presented by Jeff Moore

Owner of Solana Succulents Retail Nursery in Solana Beach, California

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.

Welcome to the first program in the New Year by attending this very special presentation by Jeff Moore. Please 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.

Spiny Succulents

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



Tucson Cactus and Succulent Society Monthly Meeting Presentation

Thursday February 6, 2020 from 7 - 9 pm

"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.



Tucson Cactus and Succulent Society Monthly Meeting Presentation

Thursday March 5, 2020 from 7 - 9 pm

"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.

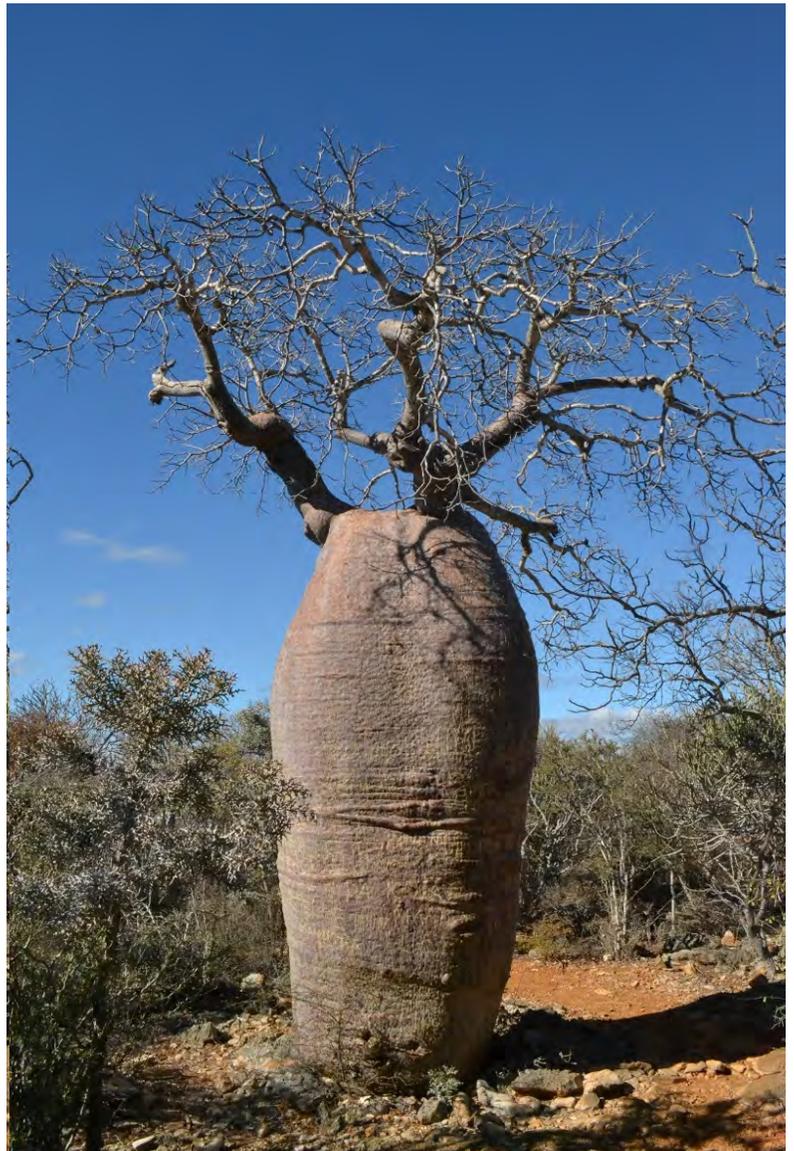


Pachypodium rosulatum

Kalanchoe linearifolia



Kalanchoe linearifolia



Adansonia rubrostipa

Aloe capitata



TCSS Monthly Meetings

We did not have any meetings due to Covid-19 concerns for the months of:

- April, 2020
- May, 2020
- June, 2020

We starting holding virtual Zoon broadcast meetings on first Thursdays per our regular meeting dates in July, 2020.

Tucson Cactus and Succulent Society Monthly Meeting Presentation

Thursday July 2, 2020 7:00 pm

Presented by Greg Starr
"New or Reconsidered Agave species Post Gentry"

Note this is a Virtual Meeting using Zoom technology

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.

Agave montana



Agave azurea



Agave calciphila



Agave oteroi



Tucson Cactus and Succulent Society Monthly Meeting Presentation

Thursday August 6, 2020 7:00 pm

Presented by Rob Romero
"Some Cacti of Cochise County Arizona"

Note this is a Virtual Meeting using Zoom conferencing technology

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.





Tucson Cactus and Succulent Society Monthly Meeting Presentation

Thursday September 3, 2020 7:00 pm

Cacti and Succulents Endemic to Baja California Presented by Peter Breslin

Note this was a Virtual Zoom meeting - It was recorded and available on [YouTube](#)

No meetings at Sky Islands High School are currently being planned due to Covid-19 concerns

You can view the July meeting with the aid of your cell phone, tablet, ipad, laptop or desktop computer, you will enjoy an excellent program! There will be a Q&A period at the end using written Chat questions, you do not need a microphone

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.







Tucson Cactus and Succulent Society Monthly Meeting Presentation

Thursday October 1, 2020 7:00 pm

“Mutant Cacti and Succulents”

Presented by Tom Glavich

Note this is a Virtual Meeting using Zoom conferencing technology

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. You are 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.

This will be our 5th ZOOM program presentation. All are 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.

Euphorbia pseudocactus



Astrophytum crest



Tucson Cactus and Succulent Society Monthly Meeting Presentation

Thursday November 5, 2020 7:00 pm

"Aloes On My Mind: Exploring Aloe Hybrids One Generation at a Time" Presented by Karen Zimmerman

Note this is a Virtual Meeting using Zoom conferencing technology

There will be an informal chat 15 minutes before the meeting and a Q&A period at the end using written Chat questions - See our Zoom Instructions

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.



Tucson Cactus and Succulent Society Monthly Meeting Presentation

Thursday December 3, 2020 7:00 pm

The Presentation will be...

Your Questions and Their Answers - Panel Discussion

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

Note this was a Virtual Meeting using Zoom conferencing technology

This presentation is available on YouTube for viewing

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.

This will be our 7th ZOOM program presentation. All are 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.