

Espinas y Flores Newsletter of the San Diego Cactus and Succulent Society, Inc. Affiliated with the Cactus and Succulent Society of America, Volume 37, Number 1, Saturday, January 12, 2002 at 9:00 AM PROMOTING KNOWLEDGE, STUDY AND INTEREST IN CACTI AND SUCCULENT PLANTS, VISIT US AT SDCSS.COM



Kelly Griffin receives the Volunteer of the Year Award, presented by Pam Badger, on behalf of the membership at the Holiday Party. Left, Lee Badger, Joe Kraatz, and Tom De Merritt, left to right respectively, pose for a photo. Chris Miller, Cindy Wead, Beate Menzel, Juergen Menzel and Tom Knapik, left to right respectively, are caught in the midst of two conversations, after a fine meal. A great way to end another year of the Club.

HAMMER TIME

The illustrious and ever witty **Steven Hammer** will be our guest presenter at our Winter Show and Sale. He is the foremost authority on *Conophytum* and *Lithops* and his presentation will be split up into two parts. He will;

1) Show and discuss slides from a really WET Namaqualand, taken by Pete Arthurs on an August 2001 trip, which centered around Steinkopf. The subjects are the winter-active genera like *Conophytum*, *Cheiridopsis*, *Tylecodon*, *Adromischus*, and *Eriospermum*. Landscape shots alternating with unusual close-ups will give contexts for the most fervid imagination.

2) Show some of Chris Barnhill's beautiful slides used in his new, elephantine, *Conophytum* cookbook, **Dumpling and His Wife**. Steven will also discuss recent signs that conos and other long-term mesembs are at last catching on in this annual-plagued country. They have even made it into the Thanksgiving 2001 Boston Globe!

He will of course discuss some of our magnificent show plants also and bring us up to date on the release of his new *Conophytum* opus. It will be a fantastic way to spend a day.

Please join us on Jan 12, 2002 in Room 101, Casa del Prado, Balboa Park, at 1:00 PM.



Please send your letters, artwork, poetry, Cactus or Succulent of the Month articles, puzzles, comments, or criticisms, etc. to:

Tom Knapik
4669 71 Street
La Mesa, CA 91941
Phone (619) 462-1805 e-mail eyf2000@aol.com
FAX (858) 569-8510

Newsletter submissions are due before the 14th each month unless other arrangements are made.

Espinas y Flores, the newsletter of the San Diego Cactus and Succulent Society, Incorporated, P.O. Box 33181, San Diego, CA 92163-3181, is published monthly with the exception of a combined May-June issue (11 issues per year). Newsletter circulation is approximately 330, with 20-30 issues going to educational institutions, botanical societies, cactus and succulent nurseries, local publications, related natural history events, exhibits, and other interested groups or individuals upon request. Subscriptions are \$15 per year for bulk mail within the U.S.A.

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President's Message... January 2002

Aloha! We just returned from Hawaii - my first trip there in 30 years - sure has changed... We enjoyed the tropical weather and visited every Botanical Garden on Maui - even found a Cactus and Succulent Nursery! We took a brief look at the Silver Swords of Haleakala before nearly being blown off the volcano by 100-mph winds.

I hope that all of you who attended the Holiday Party had as good a time as I did... The food was great (thanks for all the footwork, Laura De Merritt) and the plant selection was outstanding - thanks to Woody Minnich and Grigsby's Cactus Garden. Thanks also to Tom De Merritt and Lee Badger for all the running around. Special highlights included an award presentation to Kelly Griffin for being Volunteer of the Year. Kelly has worked very hard for this club for many years, not only arranging the monthly program, but giving many himself. He always brings many plants to meetings and shows and shares generously of his knowledge and plant material. Thanks again Kelly! There was also to be a special presentation to Ed DeLollis for his service on the Board of Directors. Ed has served for six years and deserves many thanks. Ed will be presented with this appreciation at the January Show - I know he will be there as he is Chair of this event.

Speaking of the Winter Show - look over your plants and grab the ones that are looking great this time of year and bring them in on January 12. This is not a judged show - just for fun and the education of the public - we want to make a great showing so this means we need all of you to bring a few plants - try to get them there by 9 AM... We need volunteers to help out that morning with set up. We will be gathering at 8:00 AM to set up tables and get the room ready and will greatly appreciate anyone who wants to pitch in. There will be coffee and pastries. Steven Hammer will be giving a talk in the afternoon and those who have heard him before know we are in for a great talk and wonderful slides - not to be missed.

Happy New Year to all of you --- See you on the 12 th! Pam Badger pambadge@earthlink.net

WINTER SHOW INFO

Hello succulent fans! Your next chance to show off is on Saturday January 12, 2002. Our fifth annual winter show and sale will again feature the expanded 'brag table'. Actually we will have about ten tables for the show and our goal is to have about one hundred plants on display. What kind of plants should our members bring? This is a good question during the coldest time of year when not much is growing. Ideally, we should have mature examples of the small plants our vendors will be selling at the front of the room in the bountiful sales section. Many types of succulents could be used here including, but not limited to, cactus, Aloes, Euphorbias, Othonnas, bulbs, caudiciforms, or any specimen succulent plants that you are proud to have grown. Since it is nearly impossible to reach me by phone, members interested in showing their plants in this non-competitive exhibit, should send a postcard (please underline) with your name and a list of the plants to:

Ed DeLollis 916 Judilyn Drive Vista, CA 92083

These postcards will be kept on file and will allow us to have an idea of how much space to give to each category of plants that will be represented. This system will provide the means for an orderly setup of the show on the morning of the event, where pre-made placards will denote each category. If you don't send a postcard, you can still show your plants, but you will be sharply scolded by the organizing-police that will be present. All of this having been stated, we look forward to an outstanding display of plants that day that will be a source of pride and inspiration for all who attend. Please bring them in between 8 and 9 AM.

CALENDAR OF UPCOMING EVENTS — 2002 —

❄ JANUARY

12 SDCSS Winter show will be this date. Please groom those winter growers and plan to show them off! Your assistance will be needed. Please contact Ed DeLollis to find out how you can help (760-945-7892).

❄ FEBRUARY

22-24 C&SS of New Zealand Convention. Hosted by Bay of Plenty Branch at the Hotel Armitage, Tauranga. Info: Andrew D A Ross, PO Box 1011, Tauranga, New Zealand, or e-mail: cactus@xtra.co.nz.

❄ APRIL

7-13 27th Congress of the International Organization for Succulent Plant Study (IOS) at the Desert Botanical Gardens, Phoenix, AZ. See IOS Web Page: www.iosweb.org

❄ JUNE

1-2 SDCSS Spring Show and Sale. Start planning for those award winners, it is never to soon!

7-9 Mid-West Regional Conference, Kansas City, MO. Details: Eva Allen 816-444-9321 or e-mail: emallen@earthlink.net Check out their web page at <http://ourworld-top.cs.com/kccss1809>

8-9 C&SS of Queensland Show and Sale Mt. Cootha Botanic Gardens. Details from club, e-mail : cssq@powerup.com.au or check out their web page at <http://www.powerup.com.au/~cssq>

❄ JULY

6-7 CSSA Show and Sale at The Huntington Botanical Gardens.

FYI FYI FOR YOUR INFORMATION FYI FYI

⇒ Virginia F. Martin is an exceptional person, has been to more CSSA board meetings than anyone else that I know about. When I used to go as an observer in the mid 1980's she was there, and she was going when I was a Director in the 1990's. She is a Fellow of the CSSA as well as an Advisor (<http://cssainc.org/cssadir.html>). The CSSA is indeed fortunate to have someone that has such a long history and memory present at board meetings. I remember occasions when Virginia would speak up and share her experiences on how and why the CSSA, in the past, took action on a topic that was relevant to our discussion. Lately, Virginia has been ill, please send her a get well note if you have a chance. Her address is: Virginia Martin, 2631 Fairgreen Av., Arcadia, CA, 91006-5020. – jab

⇒ For those of you that start the newsletter by reading this section ... don't forget our January meeting is the annual WINTER SHOW AND SALE. Bring in those winter growing succulents OR leave with some sale plants. We have the best winter show around because it is in the WINTER! We need your help, take a look at Page 3 for information on how you can assist with this event!

⇒ Steven Hammer has a new book coming out. Do you know his work? This is bound to be a classic, you have got to buy this one! Unfortunately it may be out a little later than our January Show and Sale (he is our featured January Speaker), but find out more details from him or call Rainbow Gardens Bookshop at 760-758-4290 or rainbowgardensbookshop.com. Let them know that you read about the book in our newsletter.

⇒ Have you found that you want to get involved in something bigger than your yard this winter and don't know where to turn? Well the answer to your questions are close at hand ... volunteers are needed at the Societies Baja and Old World Succulent Gardens at the Wild Animal Park. There is plenty to do, Call Chris Miller at 619-258-9915 or c.miller@home.com.

⇒ Something new at the Borrego Desert Nature Center: Art & Artists of the Boundary Survey and Pacific Railroad Survey, on exhibit through February 2002. The survey was a monumental work and much of our knowledge about plants of the western border was gained at this time. What do these Boundary Survey participants have in common: Arthur Schott, Major William H. Emory and Lt. Amiel Weeks Whipple? They all have succulent plants species named for them: *schottii*, *emoryi*, and *whipplei*. Read and see more at the exhibit!

⇒ The 'Tres Amigos' Tom De Merritt, Phil Favell and Stan Yalof took their act on the road in November and talked about their "Travels in Texas" as only they can. The Long Beach Cactus Club was their stage.

San Diego Cactus and Succulent Society

Presents

A WINTER SUCCULENT AND BLOOMING CACTUS

> > > SHOW AND SALE < < <

ONE DAY ONLY – JANUARY 12, 2002

Show 10 - 5 & Sale 9 - 5

Room 101 Casa del Prado, Balboa Park San Diego, California



Steven Hammer, renowned Conophile, will speak about the succulent mesembs. With photos from his new book on the Succulent Mesembs. As always, you will not want to miss this treat.

San Diego Cactus and Succulent Society

Application for Sales

at

The Winter Show and Sale

Saturday, January 12th, 2002

We will have a winter show and sale much like we had in January of 2001. Please note: This will be a one day event, from approximately 9:00 AM to 5:00 PM. Any current member is eligible to sell anything concerning succulent plants. You need not have sold any merchandise prior to this event. Late registrants will not be eligible (after Saturday, January 5th). Vendors must enter 5 or more plants into the show. All sales will be made at our scanning cash register as we have done at previous Winter Sales.

The percentages for the vendor and the club are as follows:

	Vendor	SDCSS
Plants	75%	25%
Pots, etc.	90%	10%

All items sold must have bar code labels attached. These labels must conform to the California Cactus and Succulent Societies standard (format and lookup table). Please contact the sales chairman for details. No field collected plants are allowed to be sold. Please make sure all material is free of pests. The society is not responsible for lost or stolen items. It is a good idea for vendors to keep an eye on their property. Plan on providing your own table covers.

Number of tables needed: _____

Name of company: _____

Name of member(s): _____

Make check payable to: _____

Merchandise type(s) (pots, plants, etc.) you will be selling: _____

Please arrive between 8:00 - 8:30 AM to help set-up the area.

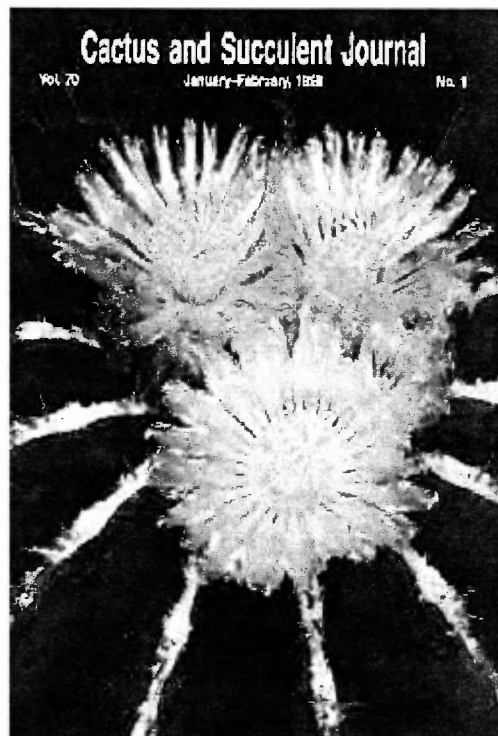
No Friday night setup!

Sales chairman: Tom Birt 858-452-0389 e-mail: tgbird@juno.com

I agree to the conditions stated above (X): _____ Date: _____

From: Bob Barth, Publicity Chair
Subject: CSSA Promotion in 2001 #2
Dear Affiliate Newsletter Editors,

As I'm sure you are all aware, the CSSA is always looking to increase its membership. The more members we have, the more benefits we can offer our membership. I know from many years of experience with the Texas Affiliate clubs that many members of affiliate societies are not members of CSSA. These occasional articles for affiliate newsletters are one of the various ways we try to increase our membership. Apologizing in advance for the redundancy, I will reiterate once again the benefits of CSSA membership. One of the chief benefits of a \$35 a year CSSA membership (\$40 for overseas members) is receiving your own copy of the Cactus and Succulent Journal six times a year, so you don't have to wait hoping your club librarian will remember to bring the club's copy to the next meeting. The journal has a classy new look for 2001, as well as a new format making it more user-friendly than ever. Under the able editorship of Myron Kimnach and with two new co-editors, the journal has increased its breadth of coverage and now has articles appealing to every level of interest within the cactus



and succulent hobby. Increased use of color photography together with the new format has greatly enhanced the attractiveness of the journal, as well. The accompanying newsletter *To the Point* has a new editor, "Cactus" Carol Clapp, who has added a number of new features. It's packed with news items from CSSA and the various affiliates together with various tidbits of information of interest to succulentophiles, a calendar of upcoming events in the U.S. and around the world. If you haven't perused these publications in recent years, take a look. You'll be impressed with the improvements that have been made.

A subscription to the journal and the newsletter is far from the only benefit of CSSA membership. Many of our members patronize the CSSA Seed Depot, which offers seeds of many rare succulents at very reasonable prices. This facility, efficiently managed by Sue Haffner is open to CSSA members only.

The CSSA holds national conventions every other year open to members only. As a result, we generally experience a boost in membership in convention years and a decline in intervening years. Consequently we have initiated non-convention year field trips, which hopefully will help to alleviate this problem (see below). The 2001 Convention held at the Warner Center Marriott in Woodland Hills California, July 1-6 and hosted by the Los Angeles Cactus and Succulent Society was a highly successful affair. It featured excellent speakers from around the world, fantastic plant and book sales, an auction which raised over \$10,000 for our research fund, which supports scientific studies of our favorite plants, and highly enjoyable day trips to Lotus Land, the fabulous succulent garden in Santa Barbara, and elsewhere. For a more complete summary of the various activities and events, see the excellent article in the *To the Point* issue for July – August 2001 by fellow board member, Leo Martin. The next convention in 2003 in St. Louis, home of the famous Missouri Botanical Garden promises according to the local organizers to be bigger and better than ever. Keep it in mind, all you mid-westerners who decided Los Angeles was a bit too far to travel.

In my final paragraph, I'd like to elaborate on the CSSA Field Trip Program, another benefit open to members only. Suffice it to say that experiencing succulent plants in habitat is

extremely important in helping to understand how to grow them in cultivation. Moreover, trips into habitat are always exciting as I can readily attest from my frequent trips to Southern Africa and elsewhere. CSSA has been offering pre- and post-convention trips for several years. This year, unfortunately, only the pre-convention trip attracted a sufficient number of participants. The trip, organized by yours truly and ably implemented by AAA 5-Star Adventures of Palm Springs, was a great success. We visited Anza-Borrego Desert State Park, the Palm Springs area and Joshua Tree National Park. Jim Dice, an authority on the California deserts was our special guide for Anza-Borrego and was absolutely superb. We saw and were able to photograph virtually all the succulents possible in those areas visited. Food and accommodations were excellent and a good time was had by all. In 2000 we initiated our interim year field trips for reasons alluded to above. We began modestly by offering a trip to the Big Bend region of Texas in April 2000 (peak blooming season for cacti). The trip was fully subscribed and very successful. (See recent articles by Dan Mahr, our Field Trip Committee Chairman, in *To the Point.*) For the future, we plan more adventurous trips to the various corners of the globe where succulents abound. Our May-June 2002 trip to Madagascar with the incomparable John Lavranos as tour leader is already fully subscribed, though there may be a waiting list developed. If so, it will be advertised. Future destinations include Chile, probably in 2004 (see those wonderful Copiapos in habitat) and on down the line Socotra and elsewhere. All the more reason to become CSSA members.

Hoping this generates some new members. Good growing!

Bob Barth, Publicity Chair
CSSA Board of Directors

Continued from the Dec. issue.

Consequences of the planned electron beam irradiation of USPS mail for the mailing of museum and archival collection items

Preliminary information suggests that at this time only irradiation of mail, not of packages, is planned, and this may reduce the concerns to a small fraction of all specimen exchange. Should this situation change, and should USPS start to irradiate packages too, it may be more effective to switch from electron to gamma irradiation, presumably applying a similar size dose. For the purposes of the concerns addressed here, the effects would be largely the same, both qualitative and quantitative.

Summarizing the information as it pertains to typical collection specimens exchanged by museums and research laboratories and transported by mail, the following concerns emerge.

- Living specimens (seeds, cuttings, etc.) will be killed by this irradiation.
- Materials of cellulose composition, especially plant fibers and paper, will be quite seriously affected. They will lose significant tensile strength and will become more brittle, while the induced chemical changes, chain scission and oxidation will accelerate their aging processes. Discoloration is also to be expected. Oxidation also will result from interaction with ozone formed in air during the irradiation; while one may expect efficient ventilation at the radiation equipment, ozone also will be formed within the enclosures of the mailed materials, where the concentration could range in the tens of ppm.
- Materials of proteinaceous composition, while less vulnerable than the cellulose ones, still can be expected to be affected at the proposed dose levels in terms of physical changes (embrittlement of skin products, loss of fiber strength in wool and hair samples), and in terms of accelerated aging. Again, discoloration is to be expected. Again, ozone production is an additional factor.
- Samples of interest because of their genetic information can be compromised, to an extent depending on the type of questions being addressed by the research in which

they are to be used, because of large-scale destruction of DNA molecules, accompanied by recombination.

- Dyestuffs will fade, resulting in fading and color shifts in textiles, stained specimens, and color photographs. The same effect may result in shifts and fading of the natural colors of specimens.
- Glass can undergo blue/purple discoloration; this may affect the research value of microscopic slide specimens. While this discoloration of the glass can be removed through annealing, this would not likely be a viable option for mounted specimens because of the effects of the heating on mounting medium and the specimens themselves.
- Mineral specimens may develop colors and/or change colors; generally these effects are reversible through annealing, though of course the effects of that heating on the specimen depend on its nature.
- In the case of specimens under alcohol, there is the potential for some radiolysis of the preservation solution, leading to the formation of various ions and free radicals in the solution. These reactions are very complex and can lead to a wide range of reaction products, but the concentrations of the latter should be in the ppm range and do not form a major concern. Additionally, the temperature raise resulting from thermalization of the electron beam energy would raise the pressure in the container somewhat, but this effect is not likely to be of sufficient magnitude to cause failures of the containers unless the integrity of the latter were already seriously compromised.
- Rubber and plastic stoppers of bottles and vials may become somewhat embrittled, but not to an extent of losing the closure of the containers.
- Magnetic media (floppy disks, zip disks, audio and video tape) will probably lose significant information content. Undeveloped photographic film will be exposed.
- Radiocarbon dates of irradiated samples will not be affected in a significant way, although there is a theoretical possibility for contamination as a result of chemical reactions that involve reactive groups from carbon containing packaging material.
- Samples intended for thermoluminescence dating will become useless, since this irradiation will deposit a dose that exceeds the "natural" one by orders of magnitude.
- Since no nuclear reactions are induced under the proposed conditions, generation of radioactivity in the irradiated samples is not a concern.
- It is not practical to try to mitigate the radiation effects through shielding of the samples, e.g. with lead metal. The weight of the shielding required to stop these high energy electrons would be quite high and make the mailing expensive; moreover, the bremsstrahlung generated by interaction of the electrons with the high Z elements of the shielding could still result in appreciable doses to be administered to the material inside. USPS also might have objections, not only since it presents an attempt to circumvent their preventive actions, but also since this bremsstrahlung could conceivably create other problems at the irradiation facility.

In view of the above it is strongly suggested that mailing through USPS of vulnerable specimens and collection items, as well as important research information on magnetic media or undeveloped film, be avoided unless it can be arranged for these mailings to be exempted from irradiation.

This information has been prepared by the Smithsonian Center for Materials Research and Education (SCMRE) for your information and as a service to the professional community.

November 5, 2001 For information, contact: Ann N'Gadi Technical Information Officer
SCMREtel. (301) 238-3700 ext 134 fax (301) 238-3709
e-mail NGadiA@scmre.si.edu

WHAT'S THE STATUS?

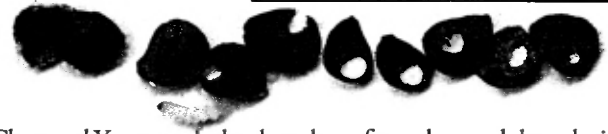
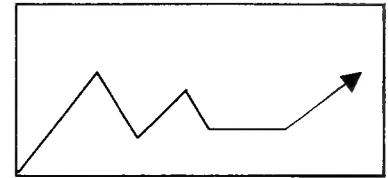
by Joey Betzler

Topic# 20: ... you can decide for yourself, but here is some background on the status of the Chaparral Yucca, a plant that we have all seen in the wild lands of southern California ...

ONE OF THE FASCINATING GROUPS OF SUCCULENT and xerophytic plants that we are familiar with in shows and southern California landscapes are members of the *Agavaceae*. These include the familiar: *Agave*, *Furcraea*, *Manfreda*, *Nolina* and *Yucca*. Others that are more obscure: *Beschorneria*, *Littaea*, *Polianthes*, *Prochnyanthes*. And from this issue you will recognize *Hesperaloe*, and after you read this, you will realize that *Hesperoyucca* has a place among this group.

We all know what a *Yucca* is don't we? Maybe you think of our common landscape *Yucca*, *Y. elephantipes*, the Giant Yucca with light green leaves common to southern Californian front yards, or the Joshua Trees, *Y. brevifolia*, in the high deserts of the southwest. Maybe locally you think of the Spanish Dagger, *Y. schidigera*, a trunk forming plant that has bright green leaves with those curly fibers along their margins. I wonder how many of you thought of *Y. whipplei*, commonly referred to as: Our Lord's Candle, Chaparral Yucca, or the Quixote Yucca? Would you be surprised to learn that there is some doubt as to whether it really belongs in *Yucca*? Well, there are some features of this remarkable plant that leave some question as to its status in *Yucca*.

William Trelease, one time director of the Missouri Botanical Garden, named our Chaparral Yucca, *Hesperoyucca whipplei*, and in fact there are some good reasons for this. This plant has some unusual life histories as compared to other members of the genus. Unlike most other Yuccas, it is monocarpic (fruiting once), meaning that upon flowering the plant dies, like most of the Agaves. Yuccas generally form a trunk, Like *Yucca valida*, the giant tree Yuccas from Mexico or the elegant *Y. elata* from Arizona. Even the unique *Y. endlichiana* with its unusual low growing habit, has an unusual horizontal stem that forms a specialized caudex.



Chaparral Yucca seeds that have been feasted on and the culprit, a Yucca Moth caterpillar, just below the row of seeds.

Hesperoyucca whipplei does not form an elongated stem, but a rosette like most of the Century Plants. Also unique is the pistil; this structure is in the central part of the flower; made up of a stigma and the ovary. If you look at the top of the stigma, you will notice that it is hollow, and you can see the top of the ovary below. Other Yuccas do not share this trait, they all have a solid stigma. All Yuccas form a symbiotic relationship with their pollinators, and most students of botany learn about the *Yucca* and *Yucca* moth mutualistic relationship. Both plant and moth benefit from this relationship. The moth pollinates the flowers and deposits its eggs in the ovary. The larvae feed on some of the seeds in the capsule, the majority of the seeds are unaffected. On the Chaparral Yucca, there is only one moth that specializes in it, the moth's range is mirrored in the range of the plant.

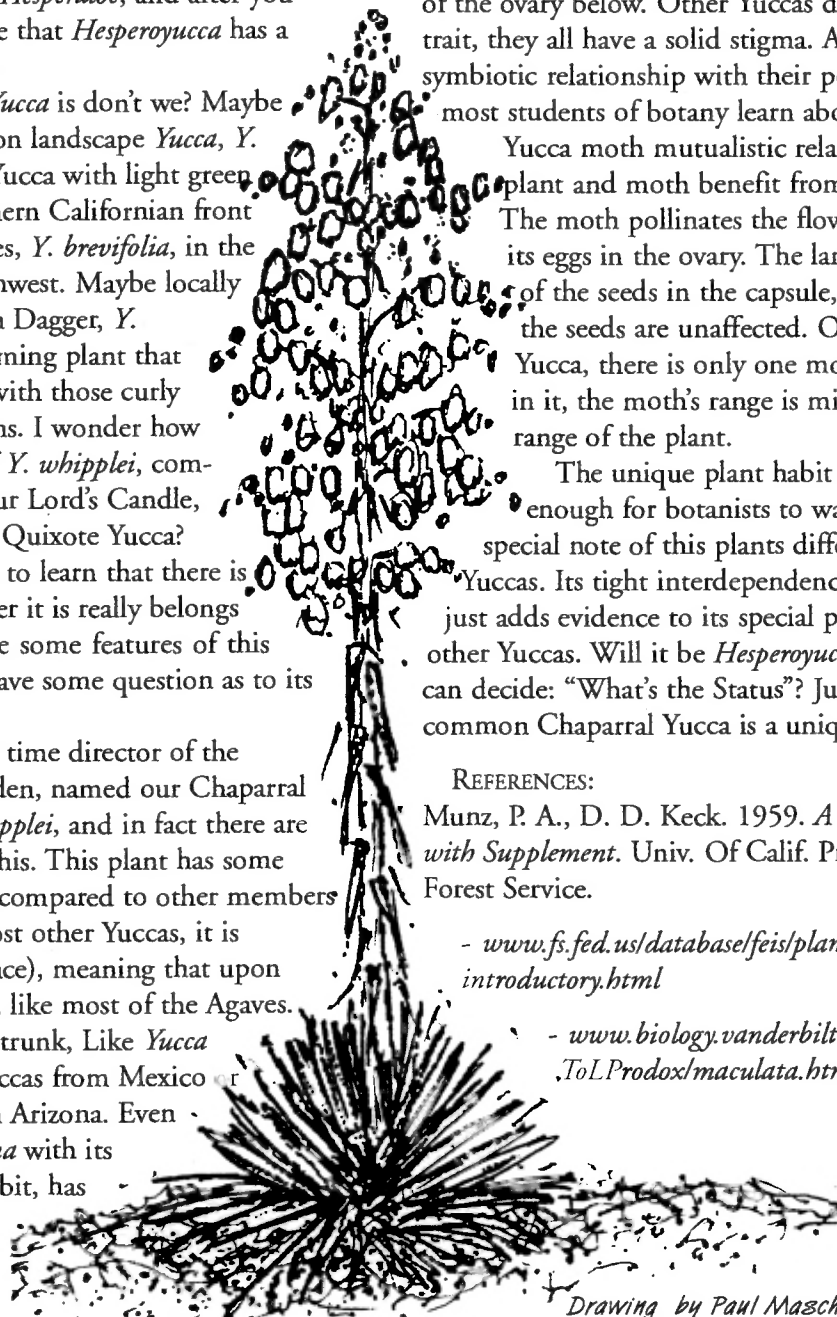
The unique plant habit alone would be enough for botanists to want to make special note of this plant's difference from other Yuccas. Its tight interdependence on one moth just adds evidence to its special place, apart from other Yuccas. Will it be *Hesperoyucca* or *Yucca*? You can decide: "What's the Status"? Just take note: our common Chaparral Yucca is a unique plant.

REFERENCES:

Munz, P. A., D. D. Keck. 1959. *A California Flora with Supplement*. Univ. Of Calif. Press USDA US Forest Service.

- www.fs.fed.us/database/feis/plants/shrub/yucwhil/introductory.html

- www.biology.vanderbilt.edu/BIO/ToL.Prodox/maculata.html



Friends of Soqotra

The Soqotra archipelago, part of the Republic of Yemen, lies about 250 km off the Horn of Africa. Geological, climatic and biological factors have interacted to create unique habitats and species that make this group of islands of exceptional importance for biodiversity. They are also a rare example of important tropical islands that have so far avoided significant environmental destruction.

The islanders have a traditional respect for their environment and a way of life that ensures that they have remained in relative harmony with it. However, their quality of life is extremely poor: they lack access to adequate food supplies, clean water, health care and basic education. The archipelago's former isolation is rapidly diminishing and modern development has begun in earnest. The next few years will determine whether this will be to the benefit or detriment of both environment and people.

In August 2001 a group of people met in Edinburgh to discuss the formation of a charity to work towards sustainable development of the islands of the Soqotra archipelago. United by a concern for the people and the exceptional natural environment of these islands, people from Europe, the US and the UK decided to form an organization called '**Friends of Soqotra**'.

The aims of the organization are to promote the sustainable use and conservation of the natural environment of the islands and to raise awareness of the archipelago's biodiversity and the unique culture and language of the islanders. The guiding principle will be to combine scientific research, conservation of the natural environment and small, practical projects in order to bring about an improved quality of life for the people of the archipelago.

Friends of Soqotra would like to invite all interested people to join in the effort to bring about improvements in the quality of life of the Soqotran people while promoting a sustainable approach to the development and conservation of the archipelago's unique natural resources.

For further information please contact The Secretary :
Dr. Sue Christie, 49 Carnbane Road, Lisburn, BT27 5NG, Northern Ireland.
Phone: +44 2890 314 944 or +44 2892 682770.
email: drsuechristie@cs.com Individual membership is GB£20 / \$30 per year, \$2 for Yemen nationals.

In the United States please contact:

Dylan Hannon, PO Box 485, La Habra CA 90633, USA. Phone 562) 694 4221. email: dylan.hannon@cgu.edu

Officers and Executive Committee

Chairman: Dr Miranda Morris, Scotland **Vice Chairman:** Dr Wolfgang Wranik, Germany
Secretary: Dr Sue Christie, Northern Ireland
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Executive Committee: Peter De Geest, Belgium • John Dickson, England • Dylan Hannon, USA • Rebecca Klaus, Wales • Tony Miller, Scotland • Tony Milroy, England • Dr Wolfgang Schneider, Germany • Dr. Alexander Smith, Scotland.

The Horticultural Event of the Year

Third Annual San Diego Horticultural Society GALA

Preview to the Spring Home/Garden Show

Thursday, Feb. 28, 6:00 p.m.

Members: \$75, Non-members: \$85
(\$10 higher after Feb. 15th)

- ☆ Be first to see the gardens of the Garden Masters
- ☆ Enjoy a sumptuous buffet dinner and live music
- ☆ Celebrate Horticulturist of the Year: *Walter Andersen*
- ☆ Learn the winners of the Garden Master Awards
- ☆ Mingle with garden masters, judges, & great gardeners
- ☆ Bid on an array of wonderful items in our Silent Auction
- ☆ Wander at your leisure without the crowds

Enjoy the fun at this year's Expanded Show!

Mar. 1-3: Spring Home/Garden Show

Del Mar Fairgrounds

Including Display Gardens, Huge Plant Sale, Standard Flower Show, much more!

Ticket Information:

(760) 630-7307 or
sdhortsoc@home.com

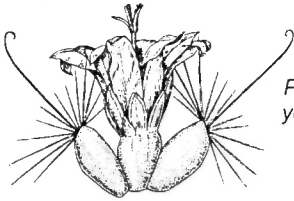


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The San Diego Cactus & Succulent Society, Inc.
 P.O. Box 33181, San Diego, CA 92163-3181



Please check the top line of your label for, year/month your membership expires. If the date is getting close – PLEASE RENEW. THANKS for your help.



<i>ESPINAS Y FLORES</i>		SDCSS Volunteers on Standing Committees and Sub-Committees	
Editors: Tom Knapik - 619-462-1805 Joey Betzler - 858-569-8510 Mail to: 4669 71 St., La Mesa, CA 91941 call for fax or e-mail eyf2000@aol.com		Conservation: Joey Betzler and Kelly Griffin Education and Exhibits: Brag Table – Shirley Berry and Kay Quijada Plants of the Month – Jeff Harris and Lee Badger Summer Show – Tom Knapik, J. Betzler and Kay Quijada Winter Show – Ed DeLollis History: Terry Parr Liaison: Balboa Park Desert Garden– Susan Hopkins CSSA Affiliate Rep. – Kelly Griffin Quail Botanic Gardens – Phylis Flechsig San Diego Botanic Garden Foundation – George Plaisted San Diego Floral Association – Elizabeth Glover S. D. Wild Animal Park's Baja and Succulent Collections – Chris Miller Library: Tom Birt and Cynthia Santorini	Membership: Joey Betzler (858-569-8510) , Tom De Merritt Mailing: Pam Badger and Jeff Harris Plant and Seed Exchange: Plants – Michele Heckathorn and Sara Schell Seeds – Kelly Griffin Plant Sales and Supplies: Annual Sales – Tom Birt Auction and Holiday Plants – L. Badger, and Tom De Merritt Benefit Table – Lee Badger Monthly Plant Sales – Jeff Harris and Joe Kraatz Monthly Supply Sales – George and Jerry Plaisted Publicity: Tom De Merritt and Stan Yalof Programs: Kelly Griffin (760-942-4866) Reception: Ethel Standish Regalement: Monthly – Rudy Lime and Stefy Mangold Picnic – Laura and Tom De Merritt
San Diego Cactus and Succulent Society, Inc.			
2002 Executive Board Members			
OFFICERS	DIRECTORS		
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The SAN DIEGO CACTUS AND SUCCULENT SOCIETY, INC. is open to all persons interested in growing cacti and other succulent plants. Meetings are held the second Saturday of each month (except June, Sept. and Dec.) at 1:00 PM in room 101, Casa del Prado, Balboa Park. Executive Board meetings are open to all members; call any officer or director for the time and location. Annual dues are \$15.00 per single member per year, \$5.00 for each additional (associate) member within the same household. Single copies of *Espinas y Flores* are \$2.00 per copy sent within the USA; foreign subscriptions are \$30.00. Affiliated with the CACTUS AND SUCCULENT SOCIETY OF AMERICA, INC. The **new** SDCSS Web Page is: SDCSS.COM - please take a look and give feedback to the webmaster.