

Desert Breeze

Volume 4, Issue 1

JANUARY 1999

Welcome to 1999

From Your New President, Maury Clapp

1999 Officers and Board Members

Please make a
note of board
meeting dates

- see p. 2 -

and
general
membership
meeting dates
on p. 3

Here we are starting 1999. I hope 1998 treated you well and that your holiday season was a great success. As TCSS starts a new year I thought it appropriate, as your President-elect, to tell you a little about myself and my ideas for leading the club through the year.

The club has changed. . . we have added over 50 new members during the past 12 months. Are we meeting the needs of these members? Are we keeping up with the changing expectations of our long time members? Getting your feedback is going to be the first order of business for this administration; so don't be surprised if the officers and board members are asking a lot of questions at the January meeting.

We need to get a lot more of you involved in running your club; so let us know what you would like to do. I believe in delegating so expect a lot more committees in this coming year.

The Board of Directors meetings are open to all members. I intend to publish the agenda for each meeting in the *Desert Breeze* preceding the meeting (see p.9); so if you have an opinion about any items on the agenda come to the meeting and share them or at least let one of your officers or board members know.

You will find a questionnaire inserted in this issue of the *Desert Breeze*. Please fill it out

and put it in the suggestion box at a meeting. If you can't attend the January meeting give the questionnaire to any officer or board member or fold it up, put on a stamp and mail it back. The more response we get the better TCSS will be.

Now a little about me. I received my introduction to cactus and succulents at a very early age. In fact, when I was born my mother was told "You can't raise children and cactus in the same yard." to which she replied "Yes you can, the children only bother the cactus once." My mother was right, and I still remember that first extraction of thorns. My father used a BIG

(Continued on page 11)

**"You can't raise
children and cactus
in the same yard . . .**



At 39 months I had learned all I ever needed to know about cacti



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Tucson Cactus & Succulent Society
Founded 1960

OFFICERS AND BOARD 1999

PRESIDENT: Maury Clapp 908-9001
VICE-PRESIDENT: Al Coritz 682-8333
SECRETARY: Joe Costante 825-2357
TREASURER: Arnold White 577-1348

BOARD OF DIRECTORS:

(terms expire December 31 of year indicated)

Immediate Past-President: Richard Wiedhopf 885-6367

Marty Harow 1999 531-9430
George Nadler 1999 299-1348
Mary Odette 1999 749-2285
Sara Perper 1999 743-3162
Dan Birt 2000 325-4967
Lois Ladwig 2000 298-7358
Jack Ramsey 2000 888-6137
Ron Fridlind 2001 325-8447
Linda Ryan 2001 299-2338
Vonn Watkins 2001 322-5029

AFFILIATE REPRESENTATIVE TO CSSA:

Carol Clapp (520) 908-9001
e-mail: kitfox@azstarnet.com



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Tucson, AZ 85752-1560

The **Desert Breeze** is the Newsletter
of the Tucson Cactus & Succulent Society.

Please send your copy by the 20th of the
month preceding the following month's issue

TCSS Web Page

<http://www.desertcactus.com/tcss/>

TCSS WEBMASTER: Lois Ladwig
e-mail: lois@desertcactus.com

Items for possible inclusion on our web page should
be sent to <kitfox@azstarnet.com> for consideration.

Board Meeting Dates for 1999

Place:

College of Pharmacy, Mabel and Warren,
Tucson (Check front door for room no:)

Time: 7 p.m.

Third Thursday of following months on:

January 21
March 18
May 20
June 17
July 15
September 16
October 21
November 18



February date was not available
April is missed because of CSSA Convention
August because of vacations
December because of holiday season

You probably all know where the College of Pharmacy is, but in
case you don't, here are some directions:

From Speedway, turn north on Campbell, (by Boston Market)
In first left turn pocket, turn left (west) on to Mabel.
The entrance to the College of Pharmacy is on the southwest
corner of the building on right at far end of block.
You will see a large parking lot on the south side of Mabel, op-
posite the College of Pharmacy.
Park in north west quadrant of parking lot and cross the street to
steps to entrance.

COMPETITION FOR SONORAN 3 LOGO

Sonoran 3 is being planned for the Spring of 2000.
We need a good logo.
Preferably an easy shape to use for many things.
Please submit your designs and/or ideas to Maury
Clapp by March 4 (the date of our March meeting) so
that the entries may be reviewed at the March board
meeting and presented to the membership on April 1.

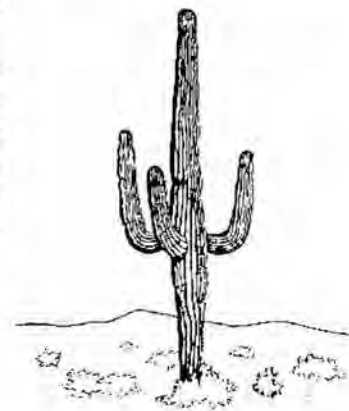
(Welcome to 1999 — Continued from page 1)

pair of gas pliers to pull them out. From that time on, the plants and I co-existed in complete harmony through my teen years. I learned the art of avoiding the thorns while helping in the garden, even moving large specimens, and I always enjoyed the weird flowering plants. Then it came time to go off to college, get an education, start a career, get married, and raise a family, none of which involved plants. During this time my mother moved to Las Vegas and started the Las Vegas Cactus and Succulent Society. I admired her plants when ever I visited.

Advance to 1993 and with the death of my first wife I started dating and met Carol. Now she never mentioned cactus figuring that admitting to such a hobby would be a complete put-off to any normal man. But then one day in a local drug store she spotted this Madagascan Palm — I think it was a *Pachypodium geayi* — and asked "Can we have one of these?" Well that opened up the dialogue and it came out that Carol had been an avid collector in England for years, had been active in both the local and national levels of British cactus and succulent societies, was a licensed judge, and had been flying over to the States since the 1970's to attend CSSA conventions and see cactus in their habitat. Next we joined the Cactus and Succulent Society of California, Carol as the active member and I as the supportive spouse. From that point on the collection started to grow, mostly from surplus plants donated by members and raffled off by the club. Before long the atrium was covered making an indoor greenhouse, a small greenhouse was installed in the back yard and the planting beds of our Bay Area home were all full of plants, over 1000 by the time we moved to Tucson in 1996. Everything grew well in the Bay Area and before long we too were overloaded with surplus plants and selling at the club sponsored shows and sales.

Upon moving to Tucson Carol and I became involved with TCSS as Secretaries and in various capacities on the SONORAN 2 committee. I don't profess to know much about succulent plants and don't know their scientific names with few exceptions. But that's not essential to enjoying them and propagating them which is my thing. I hope to get my seed germinating beds perfected and have ideas for improving the misting beds for rooting cuttings. Just can't seem to find time to get everything done, but then it's a hobby and there should not be any time constraint. If all works out I don't know what I'll do with the surplus plants. Any ideas?

Maury Clapp
President 1999



NEXT MEETING - Thursday, January 7 at 7 P.M.

Porter Room

Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, AZ 85712

Jared Shortman

on

Jatrophas of Arizona and Sonora

See page 3 for more details.

SHOW AND TELL - Any of your cacti or succulents and, particularly, we would like to have some of your Jatrophas at this meeting.

Light refreshments by those with family names beginning with E to R, please.

Visitors always welcome.

Desert Breeze

Volume 4, Issue 2

FEBRUARY 1999

Important Dates

This Month

Feb 4
Our monthly
meeting

Feb 20-21

TCSS Display

and

Dan Birt's

Saguaro Exhibit

at

Flower Show

Class 3 One cactus

Class 4 for

One succulent

See p.11 for details

Enter your plants



President's Message

First I want to thank all of you who returned the 1999 member survey, seventeen of them so far.

I hope that many more of you will return them so that we can get a better sample, but from those returned so far I see we need to make some changes. See p.10 for survey results to date. Most of you want TCSS sponsored public sales, plant sales or exchange at meetings and organized trips or outings. So, unless a lot more of you return the survey form and the trend changes we'll replace the free plant give away with a plant exchange or sales starting with the March meeting. Watch the March *Desert Breeze* for details.

Likewise, I have asked the Program Committee to look into the possibilities of including some trips and outings in our programs. Let your officers or board members know if there is a special place you would like to visit.

Other committees have been set up to handle specific tasks - more news on this later.

Maury Clapp
TCSS President



WE NEED YOUR RENEWAL NOW

Mailing the *Desert Breeze* first class would require limiting it to 10 pages and cost 33 cents in postage, but by

using bulk mail (min 200 pieces) we can send 30 pages for about 16 cents. Postal regulations, however, require that our mail list be validated once each year to be sure your address has not changed. Your renewal provides this validation. So please check your address label and if it shows 1998 in the line above your name, please fill out the membership form on the inside back page or a photo copy if you don't want to cut up your *Desert Breeze* and send it off before you forget. Note: the address list was updated with dues received through Jan 21, 1999.



TCSS Officers and Board of Directors for '99

Back row: Jack Ramsey; Al Coritz, VP; Ron Fridlind

Middle row: George Nadler; Maury Clapp, Pres; Arnold White, Treasurer;

Vonn Watkins; Sara Perper; Joe Costante, Secretary

Front: Carol Clapp, Affiliate Rep; Linda Ryan

Directors not in photo above are: Dan Birt, Marty Harow, Lois Ladwig, Mary Odette; and Dick Wiedhopf who took the photo.

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AFFILIATE REPRESENTATIVE TO CSSA:

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to the Editor.

TCSS Web Page

<http://www.desertcactus.com/tcss/>

TCSS WEBMASTER: Lois Ladwig

e-mail: lois@desertcactus.com

Check our web site for TCSS activities and read the
archive section of summaries of talks we've had.

TCSS Treasurer's Report

Account Balances Report as of 1/19/99

ASSETS

Cash and Bank Accounts

Checking - AZ Central CU..... 1,013.27

Savings - AZ Central CU 1,846.52

Total Cash and Bank Accounts 2,859.79

Total Assets..... 2,859.79

Liabilities..... 0.00

Overall Total 2,859.79

Arnold White, TCSS Treasurer

Board Meeting Reminder

Please make a note in your calendars of the following Board
Meeting dates for 1999:

March 18

May 20

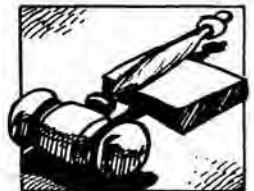
June 17

July 15

September 16

October 21

November 18



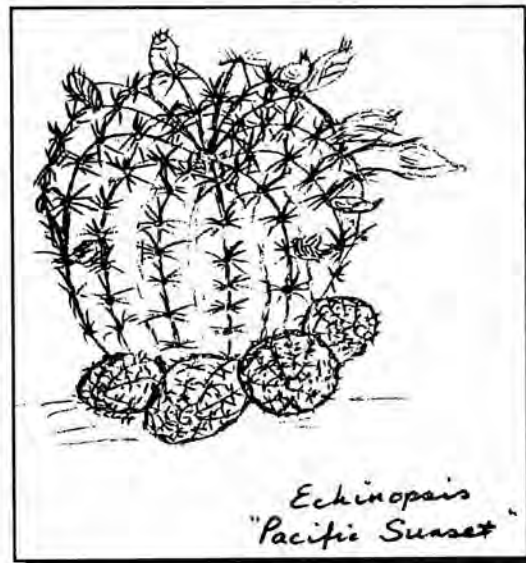
All are third Thursdays in the month.

Place: College of Pharmacy, Mabel and Warren, at 7 p.m.

If you are an officer or director and are unable to attend any of
the above meetings, please let Joe Costante or Maury Clapp
know beforehand. Contact numbers in the left panel on this
page.

Correction

Apologies to Bruce Hilpert for misspelling his name last month
as a new member.



An original
line drawing
of an
Echinopsis
"Pacific
Sunset" at
the Tucson
Botanical
Gardens
by
Cactus Carol

TCSS Calendar of Events

Meetings are usually held on the first Thursday of the month at the Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, at 7 pm. We have a break for light refreshments half way through the meeting and, maybe even coffee, as Dick Wiedhopf gave us a coffee pot at Christmas!

Thursday February 4 **Diane Barker**
The Behavior of the Genus Agave in Cultivation, followed by a brief report of the Mexico City Symposium on Agaves.

Diane will be discussing work she has done at the Desert Botanical Gardens with Agaves. She will be reporting on 83 species of Agaves in cultivation and how long they live. In October 1998 she attended a symposium on Agaves in Mexico city. While there she had an opportunity to go into the field to observe and photograph Agaves in habitat. Diane will briefly report on the symposium and show slides of the Agaves she encountered.

Diane started as a volunteer at the Desert Botanical Gardens in 1985 as a propagation aid and became employed at DBG in 1993 as an Agave Horticulturist. She graduated from Mesa Community College with an AAS degree in Landscape Horticulture. She presented talks on Agaves at the 105th Huntington Symposium in September 1997 and at the 2nd Symposium of the Family Agavaceae in Mexico City in October 1998.

Mark Sitter of the Arizona-Sonora Desert Museum and a TCSS member will be at this meeting too to tell us about the work being done at the Museum's Cactus & Succulent Garden and the plans for its future.

Sat/Sun Feb 20/21 **Flower Show**
Co-sponsored by Tucson Garden Club and Southern Arizona Orchid Society
Foothills Mall, Ina and La Cholla, Tucson.

TCSS is putting on a display at this event. If you want to help out please contact Maury Clapp. Dan Birt has offered to display his Saguaro Exhibit and other members will also be taking plants along. We'll have an information table too with the TCSS display. **Enter your plants in the show classes, see p. 11.**

March 4 **Blainey Korff** on Designing and Planting Xeriscape and Butterfly gardens.

Other TCSS dates for your 1999 calendar are:

April 1, May 6, June 3, August 5, September 2, October 7, November 4, and our Christmas Party on Sunday December 12.

Spring 2000 Sonoran 3, Tucson

Other Societies' Events

We strongly recommend everyone check dates, times and venues before travelling a long way to any of the events listed below. Changes sometimes occur at the last minute.

Feb 13-14 **Boyce Thompson Arboretum** *The Language of Flowers & Chocolate*. Display of plants and blossoms designed to interpret the language of flowers. And . . . sample gourmet chocolates - \$5 for 5 tastes. (602) 689-9762

Feb 13 **Guy Wrinkle** on "Exploring Ecuador" 1 pm
Room 101, Casa del Prado, Balboa Park,
San Diego C&SS (619) 477-4779

Feb 20-21 Central AZ C&SS Annual Show at the Desert Botanical Garden, Phoenix. (602) 921-9396

March 13 **Gibraltar and Beyond, Myron Kinnach**
1 pm Room 101, Casa del Prado, Balboa Park,
San Diego C&S Society (619) 477-4779

28th Biennial Convention of the CSSA Las Vegas - April 11-17, 1999

Program details and how to book your hotel accommodations were in the December 1998 issue of *Desert Breeze*. Registration forms will be available at TCSS meetings in February and March. CSSA members may register for \$165.00 before March 15, and non-CSSA members for \$225.00.

Registration after March 15 is an extra \$50 - so register NOW

To join the CSSA (Cactus & Succulent Society of America), please ask your Affiliate Rep to the CSSA, Carol Clapp for application form and details. At the CSSA dues of only \$35.00 per annum, you can easily see how much you will save on registration fees alone. And you will then receive the excellent bimonthly C&S Journal and its newsletter. **A**

Mar 19 - Apr 4 Spring Plant Sale, Boyce Thomp: Arboretum
Mar 28 History of Landscaping by Jim Wheat,
Landscape Architect. 2 p.m. Desert Botanical
Garden, Phoenix. Central AZ C&SS

Apr 8-18 Pima County Fair, Tucson
Apr 18 Landscaping with Cacti, Jon Weeks of the
Landscape Cacti Nursery, Tucson. 2 p.m.
Desert Botanical Garden, Phoenix

Apr 22-24 **San Antonio Cactus & Xerophyte Society**
Show and Sale, Central Park Mall,
San Antonio, TX. 10 a.m. to 9 p.m.
Info from Claude Townsend 210-655-8959 or
e-mail chtownsend@aol.com

June 5-6 **San Diego C&SS Show and Sale**
Balboa Park - Room 101.
Call (619) 477-4779 for more information.

July 10-11 **CSSA Show and Sale**
Sept 4 **Huntington Symposium, San Marino**

Notes From the Editor's Desk

CSSA Speakers' List

TCSS member, Lee J. Miller of Washington DC is the Lecture Coordinator for the Cactus and Succulent Society of America (CSSA) and is generating a listing of people who are willing to speak to CSSA Affiliate groups. Enclosed in this issue of *Desert Breeze* is a questionnaire for prospective speakers to fill out, and return to him, so that pertinent information may be included in a data base. This information will then be made available to CSSA Affiliates, which includes the TCSS, to aid them in obtaining guest speakers with more and varied programs. Lee's address and points of contact are on the enclosed form. We have lots of speakers in our membership, so let's get Tucson well represented!

"It is possible to botanize legally!"

We have been sending the *Desert Breeze* to Fitz and Betty for several months and received the following response from them via our web page.

From: fitz@www.orb.org.mx (W. A. & Betty Fitz Maurice)

Date: Sun, Jan 10, 1999, 6:14 AM

"Greetings from Central Mexico! We have received a number of complementary copies of *Desert Breeze* and we wish to thank you. While we are not able to maintain an active participation in the many fine organizations around the world, we wish you all well in your good work. We are back in Mexico after a fine fall trip in Africa including the IOS Congress in Capetown and a very enjoyable week spent in Kenya with Len Newton. Our latest findings here in Mexico include a new species of *Stylotela*, *Mammillaria machuca*, to be described shortly. It is most closely linked to *M. marcosii*. Our ten year study of *Mammillaria*, Series *Stylotela* continues with permission from the Mexican government. **It is possible to botanize legally!** Again, thanks. Fitz & Betty

Dictionary on Botanical Terms

We all come across words from time to time that we don't understand and would like to find out what they mean. This matter was discussed on cacti_etc recently and Jerry Barad recommended the following specialized dictionary covering botanical terms:

Lincoln, R.J., Boxhall, G.A., and Clark, P.F. 1982 *A Dictionary of Ecology, Evolution and Systematics*. Cambridge University Press, New York. (Reprinted several times.)

ISBN 0 521 26902 4 (paperback) 0 521 23957 5 (hardcover)

Cambridge University Press

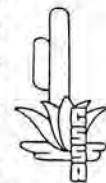
The Pitt Building, 40 West 20th St

New York NY 10011 (Confirm for recent data!)

You might be able to find out more about this book on <<http://www.amazon.com>> or if you want to ask Jerry Barad himself his e-mail address is <gbarad@eclipse.net> Jerry resides in New Jersey and has a wonderful collection of Echeverias (among other plants), and he writes many articles for the CSSA Journal.

CSSA Convention, Las Vegas, April 11-16 1999

Many of you have asked about the four mid-week tours to be held during the convention week. How can you decide which to sign up for? At last we have some information which I have summarized below. Plants which may be seen on these tours were listed in December's *Desert Breeze*.



1. **Red Rock Canyon:** 16 miles west of the Strip, Red Rocks Drive is a 13 mile road around a desert basin rimmed by towering cliffs. Great views, short trails. In spring you may find pools of water supporting the 45 indigenous mammalian species.

2. **Valley of Fire, Lake Mead:** Here you will see the dominant Aztec Sandstone formations, bright yellow, orange and red. Many petroglyphs. Hopefully the cacti and other desert plants will be in blossom. Surrounded by mountains, desert basins full of cacti and creosote bush. Over 1000 bighorns live there. They are active in daytime so you may see them. Water fowl and shore birds are there too.

3. **Ash Meadows, Devil's Hole:** Ash Meadows, 90 miles NW of Las Vegas, covers 22,000 acres of spring fed wetlands and alkaline desert uplands. The National Wildlife Refuge there is still in the habitat restoration stage as it was formed only 15 years ago. Devil's Hole is the only known natural habitat of the Devil's Hole pupfish. Only a few hundred of these tiny 1" fish remain.

4. **Castle Mountain Mine, East Mojave National Preserve:** the mine is a working gold mine at 4400 foot elevation where you can see the entire open pit mining operation as well as the concurrent reclamation efforts. This is the only mine with a 6000 sq ft greenhouse for propagating native plant species for revegetation as well as two holding nurseries where salvaged species such as Joshua trees and *Ferocactus cylindraceus* v. *lecontei* await a reclaimed home. The thickest stand of Joshua trees in the entire Mojave desert will be seen at Cima Dome. Cacti likely to be seen will be *Echinocereus engelmannii*, *E. triglochidiatus* v. *mojavensis*, *Escobaria vivipara* v. *desertii*, *Ferocactus cylindraceus* v. *lecontei*, and *Opuntia chlorotica*, etc. **Each of the above trips is US\$35 per person which includes a box lunch.**

CSSA Affiliated Clubs now amount to 93 clubs around the world.

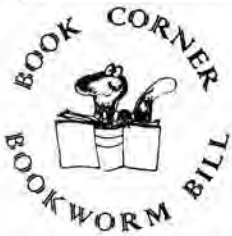
Note CHANGE OF VENUE for CSSA Convention in 2001 Originally planned for Albuquerque, this Convention will now take place in **Los Angeles**.

A Missed Vocation?

Owing to the volume of shit I'm shifting these days, I should have been a gossip columnist.

Cactus Carol





New Book -

Review of the Distribution of the Native Cacti of Canada

The Ottawa Area Cactus and Succulent Group has now published its *Review of the Distribution of the Native Cacti of Canada*. As far as they know this is the first time that a complete review of Canada's cacti, their locations and whether they are flourishing or declining, has been published.

This soft cover, "perfect bound" book has 115 pages, identifies 253 cactus locations, has 9 color photos, 4 line drawings and 17 maps. Available now, it is perhaps a book that anyone interested in Canadian cacti in their habitat should consider having on their shelf. As well as the habitat information, it details contributors' notes that give you an idea of the fun, and sometimes the difficulties, of finding and photographing our native cacti.

To help cover the cost of printing, color printing, binding, shipping and handling they are selling the book as follows:

U.S. orders - \$20.00 U.S. or \$27.00 Cdn. per copy
(includes shipping & handling)

International orders - \$25.00 U.S. or \$35.00 Cdn. per copy
(includes shipping & handling)

To order this book, please send your payment with your name, address and e-mail address to:

Ken Hancock
c/o Lapp-Hancock Associates Limited
280 Albert St., Suite 900
Ottawa, Ontario K1P 5G8
Canada
Tel: 613-238-2483

Lithops by Steven A A Hammer

This forthcoming book is being published by the BCSS. It is expected to be ca. 90 pages, 160 fine color photos, easy to read text. Probably an all-paperback edition at approximately \$15.00, but there may be 100 or so hardbounds.

If you want to know more about this book, contact Suzanne and Tony Mace on <msg@mace.demon.co.uk> in England. Alternatively wait until Rainbow Gardens tel: 760-945-8934 has it in stock in the U.S.

Welcome New Members

Thomas A. Gatz of Phoenix	602-640-2730
tom_gatz@fws.gov	
Mark Muradian of Laton, CA	559-584-9118
Valarie Miller of Tucson	520-747-1613
Rainbow Gardens, Vista, CA (Chuck Everson and Jerry Williams)	760-945-8934
RBGdns@aol.com	
Dave Shearer of Tuckasegee, NC	828-293-5799
shear@wcu.campuscwix.net	
Pat Trossman of Tucson	520-749-5825
ptrossman@netmail.hscbklyn.edu	
Patty Herman, Chris Grubb and Jim Williams, all of B & B Cactus Farm, Tucson	520-721-4678 (wk)
Philip B. Nesty, Clayton, CA (Brooks Books)	925-672-4566
brooksbk@netvista.net	

Welcome One and All

Notice from cacti_etc on the Internet

66 Date: Wed, 13 Jan 1999 06:27:10 -0500

From: Roger Labbett <Cirio@compuserve.com>

To: cacti_etc <cacti_etc@opus.hpl.hp.com>

Subject: New Handbooks for 1999 from The Cactus File

Recipients to this list may be interested to know that we plan to publish 3 new Handbooks in 1999:

Pachypodium & *Adenium* by Gordon Rowley - due April

Mammillaria by John Pilbeam - due August

Ferocactus by John Pilbeam & Derek Bowdery - due November

Members of the BCSS [British Cactus & Succulent Society] will automatically receive information on these new titles approximately 2 months prior to publication via advertisements and inserts in the BCSS Journal. These will include opportunities to purchase at special pre-publication discounts.

If other members of this list [cacti_etc] would like to receive information on these new titles along with details of our money-saving pre-publication offers, please email me privately on: cirio@compuserve.com and I will add you to our e-mail distribution list to receive *The Cactus File Electronic Newsletter*. The first edition will be e-mailed out at the end of January.

Roger Labbett

The Cactus File/Cirio Publishing Services Ltd
<http://www.cactus-mall.com/tcf>



To join the British Cactus & Succulent Society

Full overseas membership is US\$28.00 without *Bradleya*. To receive *Bradleya* (BCSS Yearbook edited by Gordon Rowley) as well as the quarterly journals, the subscription to countries outside UK is US\$48.00. Send remittances to: D.V. Slade, BCSS Membership Secretary, 15 Brentwood Crescent, Hull Road, York YO10 5HU, England.

Minutes of the TCSS General Meeting on 7 January 1999

A regular meeting of the TCSS was called to order at 7:12 p.m., on Thursday, January 7, 1999, at the Tucson Botanical Gardens, by outgoing President Dick Wiedhopf, who introduced incoming President Maury Clapp and presented him with the society's gavel. President Clapp, in turn, presented Dick with his own gavel for a job well done and the words "he is equipped if we want him back".

President Clapp then proceeded to introduce the Society's new team of Officers and Board members, most of whom were in attendance. Officers: Maury Clapp, President; Al Coritz, Vice President; Joe Costante, Secretary; and Arnold White, Treasurer. Board of Directors: Richard Wiedhopf, Marty Harow, George Nadler, Mary Odette, Sara Perper, Dan Birt, Lois Ladwig, Jack Ramsey, Ron Fridlind, Linda Ryan, Vonn Watkins, and affiliate representative to CSSA, Carol Clapp.

Three guests were recognized: David and Margie Spring, former members 39 years ago, and Carol Brown, and one recently joined member, Valarie Miller.

Thirty-six members and guests were present.

President Clapp paid tribute to former Program Chair, Margaret Pope. Mrs. Pope introduced the evening speaker, Jared Shortman, President of the Arizona Native Plant Society in Tucson and TCSS member. Mr. Shortman's topic: *Jatropha*s of Arizona and Sonora.

Prior to taking a 15 minute break President Clapp urged members to fill out the survey that came with the last issue of the *Desert Breeze* (copies on hand) and to please share any comments you have with Officers and Board members so they could be reviewed at Board Meetings. He also urged members to contribute articles and comments that could be included in issues of the *Desert Breeze*.

President Clapp reconvened the business portion of the meeting at 8:45 p.m.

President Clapp, former co-secretary, gave the current membership report for 1998: total membership 182 of which 5 are children, 8 are life members, 19 are out of state members, 158 are here in Arizona, of which 144 are in Tucson in 103 homes. Of these 144, 67 are single memberships and 72 are adult family memberships plus the 5 children. Dues status: 66 memberships are paid for 1999 so far.

Treasure Arnold White gave a net worth report balance, as of 12/31/98, of \$2,451.74 of which \$605.22 was in the checking account and \$1,846.52 in savings. There are no current liabilities on record.

CSSA representative Carol Clapp gave a short report on the upcoming CSSA convention to take place in Las Vegas on April 11-16, 1999, and mentioned the pre- and post-convention tours.

Show and Tell: Mary Church had brought along an Aloe with yellow flowers which she hoped could be positively identified. Suggestions were made that it might be *A. sinkatana*. Norma Beckman showed off her *Dioscorea elephantipes* and *Bowiea gariensis*.

Other Business: President Clapp noted that he was contacted by Pima County Fair officials regarding possible participation by TCSS at this year's Fair but then it was noted the dates clashed with the CSSA Convention in April. The matter was tabled at this point in time. Wendy Beall, a member of the Nature Conservancy group, made a monetary appeal for people to support the Conservancy's pending purchase of the Bellota Ranch property as an effort to eventually keep it out of the hands of developers. She recommended even a \$5.00 personal donation, and to note on your check that the money is for the Bellota Ranch project, and that you could find the Conservancy's address in the Tucson phone directory. The Conservancy is in need of \$400,000 more for this project.

The raffle prize of *Jatropha cuneata* was won by Margaret Pope. Door prizes were won by Margaret Pope, Norma Beckman and Maury Clapp who each won a *Jatropha cinerea*. All prizes were provided by Jared Shortman of Tucson Growers.

The free plants for those present were an Aloe hybrid or a *Gastrolea* "Helen Headeyi".

The meeting was adjourned at 9:05 p.m.

Joe Costante
Secretary



COMPETITION FOR SONORAN 3 LOGO

There is still time for you to think up a logo for Sonoran 3 by the closing date of March 4 - the date of our regular monthly meeting in March.

The overall shape is important so that it may be used with ease on all of our promotional material.

Please submit your designs or ideas to Maury Clapp by March 4 meeting so that entries may be reviewed at the subsequent board meeting.

Jatrophas of the Sonoran Desert - a summary of the talk by Jared Shortman presented to the TCSS on January 7

Jared Shortman started his talk by telling us about his cats and how he started with plants at the tender age of 5 years old (*they introduced me as starting at nine but I was misunderstood, I started around age 5*).

Currently, Jared is president of Arizona Native Plant Society in southern Arizona. He told how he and a friend of his encourage their moth caterpillars to feed on their *Jatrophas*, and how much he really enjoys growing *Jatrophas*. On a blackboard, he showed the areas where these plants grow in Chihuahua, and the Sonoran desert in Arizona and Mexico, the Sierra Madre, New Mexico, Sinaloa and Baja.

First slide showed Jared's nursery. He has a small crammed nursery, with seed house and two covered greenhouses. Many of the young plants he had produced had gone to a wetlands project in Naco. His seedhouse consists of electric conduit forming the main posts in the middle of the hemispherical house. PVC water pipe formed the half circles, fastened in the center to a timber supported by the conduit, and placed over rebar driven into the ground. Another greenhouse was made this way and yet another was made from all metal electric conduit. The houses are covered by greenhouse plastic. It proved to be a very economical way of making a plant house. At the far end of the seed house grow a few bushes of *Euphorbia cotinifolia*.

Jared grows almost everything from seed, likes variability, and enjoys finding freakish things which appear unexpectedly. *Jatropha gossypifolia*, grows in summer, dies back in cold if not protected then grows again from its seed. *J. curcas*, big sycamore like leaves, grows 10-15 ft tall in many parts of the world, and produces a diesel type fluid in India, Argentina and other third world countries. It is a very important ethnobotanical plant. The red flowered *J. podagrica* and *J. multifida* are the most common *Jatrophas* in the trade, can be obtained all over the world as seed or plant. Jared bought his *J. interrigima* from Home Depot in Tucson. He spoke about the Manihots, another Euphorbiaceae plant closely related to *Jatropha*.

Generally, *Jatrophas* don't like frost. Being odd looking they are not often mentioned in gardening books. *J. dioica* from Texas is the plant which Jared fell in love with and got him collecting *Jatrophas*.

Most *Jatrophas* have mechanisms to deal with drought. Many cacti in this area too. *J. malacophylla*, *J. cordata*, even bamboo, and burseras, grow in a very dry area, but slides showed it looking green and lush after rain in the vicinity of Alamos. *J. cardiophylla* grows well, big rhizomes, in Arizona. Heart shaped leaves, reddish stems. They grow to 3 ft tall in Arizona. This species flowers in June and July and closes down as cold weather comes. It starts leafing out again in about June. If you give this species more water and fertilizer you can push its growing period quite a bit. *J. cardiophylla* will survive down to the teens although suffering some damage it will come back again. It is one of the hardiest species. A good place to grow *Jatrophas* is against the south and east walls of your house. They like the

hottest and sunniest locations in your yard. They don't need a lot of care. They transplant well and when dug up they smell like ginger. Tip cuttings or division of roots are best ways of propagating. When genetic variation is needed then grow them from seed though seed production is rare. Jared uses a seed potting mix of sphagnum moss peat and perlite and vermiculite. He does not care for using pumice. Good drainage is necessary. Jared has managed to rot only one *Jatropha* (*Jatropha macrorhiza*). And he pushes them and gives them lots of water as he likes plants to get very big fast. *Jatrophas* are never going to become common in the way that plants such as cassias which many people grow in Arizona, as they are not really suitable for formal landscaping with their odd growth forms not found in temperate climates where our landscape designs often originate from.

The common names used for *Jatropha* are frequently not accurate as *Jatrophas* are in such a mixed up group of plants so Jared is reluctant to use common names which often cover several species. For example, several species, including *J. cinerea*, are commonly referred to by the name of "sangrengado".

J. cardiophylla grows over much of Arizona down into Southern Sonora, but not too far west and likes summer rain, whereas some *Jatrophas* enjoy winter rain and they have not yet been found on the east side of the Sierra Madre or in Sinaloa.

Jared showed slides of his many seed pans. Research into the ages reached by these plants was done by Raymond Turner who compared photos taken over a time lapse of many years. He concluded that one plant of *J. cuneata* must have been at least 55 years old. Jared showed his picture of the stem of *J. cinerea* growing at Senita Basin (Organ Pipe National Monument). *J. cinerea* often grows with *J. cuneata* and they occur in lowland areas in Western Sonora and Baja California. This species has small but pretty pink to red flowers and is often referred to as the "ashy limberbush". It grows to about 3 ft tall in Arizona (to 21 feet tall in Sonora and Baja California where there is no frost and more water). Jared uses *J. cinerea* to feed his insects on. Cut stems for feeding insects were stored in water jugs, and even with its roots in water at air temperatures down to teens, the stems didn't rot or freeze. When these cuttings were dormant, discarded in the yard and completely exposed, they came to life again in the spring.

When the larger plants don't get watered, the stem just flops over. *J. cordata* grows in Mexico on the foothills of the Sierra Madre at edge of the tropical deciduous forest and in road cuts. In cultivation at Jared's nursery this species has suckered out as seen in the slide. It has a long dormancy period. *J. cuneata* grows near Ajo and as you get further south they get bigger and more lush. They are also monoecious. Often found growing with *J. cinerea*, but takes a bit more drought, and probably harder than *Jatropha cinerea* as it gets farther north in Arizona.

The next big medicine is expected to be *J. macrorhiza* for

(Continued on page 8)

(Continued from page 7)

controlling tumor growth. Also known to be a super laxative. Much money is being spent in Japan particularly on medical research on this plant. Don't try growing it in sticky clay. It disappears in the colder months, so mark the spot where this plant is and you will see it come up again in the spring.

J. malacophylla, with big sycamore like leaves, sends up only a few leaders but they grow to 15 ft. Often only a few leaves can be seen at the tips of the leaders and the stems are bare in the off season when no rain has fallen. Jared has yet to see *Jatropha purpurea*. It was reported in Southern Sonora a long time ago and has not been relocated. It occurs also in Sinaloa. Jared wanted to get into the weird sex of the genus of *Jatropha*! *J. vernicosa* has been reported to be dioecious having separate sexes on separate plants. Jared has compared different accessions taken from different places in Baja and noted variations in cultivation (monoecious plants-with both sexes on one plant). When more water is available, they seem to harbor the trait of having both sexes on one plant! Does this happen in nature, outside of cultivation, Jared asked? Hard to tell without extensive field study but the experience in cultivation would suggest that in rainy years they act advantageously and with the extra water throw out both sexes.

J. vernicosa has a knobby knurled trunk, different from *J. cordata* which has been said by others possibly to be the same species. Jared has his doubts that they are the same. Jared has tried crossing species within related groups of *Jatrophas* but they are reluctant to cross as reported elsewhere. One exception has been the cross he made with *J. malacophylla* and *J. vernicosa*, and because others have not crossed there may be a relationship with the two species not apparent otherwise. Jared warned that this was just a guess and that further controlled studies would need to be made into this matter. If your bougainvilleas don't freeze you could probably grow *Jatrophas* successfully outside in many parts of Tucson. There are many plants in both Tucson and Phoenix that have not frozen of *J. cinerea*, *J. cuneata*, *J. malacophylla*, *J. cordata* and maybe others. *J. cardiophylla*, *J. dioica*, and *J. macrorrhiza* are hardy enough for most areas of Tucson and Phoenix.

Some sources of *Jatrophas*: Plants for the Southwest, Arid-lands, Rare Plant Research in Oregon.

Jared R. Shortman
jared@tucsongrowers.com
ICQ: 21359066
Tucson Growers

<http://www.tucsongrowers.com>
Arid-Climate Plants

http://www.suite101.com/welcome.cfm/arid_climate_plants
Plants of Sonora Listserver

http://www.onelist.com/subscribe.cgi/plants_of_sonora
2509 N. Campbell #338
Tucson, AZ 85719

Thanks Jared for checking my notes of your talk, Cactus Carol

CSSA Board of Directors' Meeting January 15, 1999, Las Vegas, Nevada

by Dick Wiedhopf, TCSS Immediate Past President

Although my 4 year term on the CSSA Board of Directors didn't start till the conclusion of the meeting, CSSA President Larry Mitich invited Pat and me to attend, meet the other officers and Directors and get acquainted with activities and issues.

I hadn't been to Las Vegas in 25 years. The place has changed! It's a lot more than Casinos and Hotels. There are over 1.25 million residents, living, working and enjoying the desert climate. It is truly a great place for a convention. We stayed at the Tropicana, which will be the CSSA convention hotel. The facilities are great for our activities. All the venues are close together and will make for a great time. The rooms are fine and the Hotel's staff is very accommodating. Make your reservations now.

Pat and I spent some time with Denni and Steve Plath (Local host Chairpersons). They and their local clubs' members will be providing the same kind of warm and friendly atmosphere as we did in Tucson. There will be great mid-week trips, good food and entertainment, things to buy and an interesting list of speakers and topics.

The business meeting was impressive. A lot of activities are going on that are essential and important that don't necessarily get publicity and especially at the affiliate club level. The Board has an eye to the future and is actively investigating many areas where technology can be used to facilitate CSSA activities. For example: journals on CD's and maybe all previous issues (like National Geographic has done). A lot more information will be on the CSSA web site. One of the highlights for me was several references by Board Members to our outstanding newsletter, *Desert Breeze*, Editor Carol Clapp and it's support of the CSSA and Convention activities.

CSSA is financially sound. Although membership is down slightly, about 3,400 world wide, other societies are also experiencing dips in numbers. Membership will also be an issue. Even with fewer members, more donations are being received each year for research, color photos in the journal and other activities. Donations are tax deductible!!!

The day ended for us with a trip to Mindy (CSSA treasurer) and Pat Fusaro's new home in Pahrump, which is about an hour from Las Vegas. It was a very scenic ride - wonderful mountains and desert flora. On the convention page of the CSSA web site the cacti and succulent vegetation in the area are listed. [See also December's *Desert Breeze*.] Local club members, officers, directors and significant others had a chance to relax, engage in

(Continued on page 10)

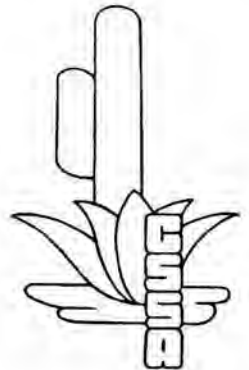
News from the Cactus and Succulent Society of America from Bob Barth, CSSA Director

Right now, I want to focus on the next major CSSA event which is, of course, the upcoming 28th Biennial Convention in Las Vegas. It's certainly not too late to sign up for this fun-filled event and to enjoy a week in America's foremost fantasy-land. The dates are April 11-16, 1999 and the venue is The Tropicana Hotel. I must admit that at first I wasn't greatly enamored with the idea of Las Vegas as a convention site and I'm still not wildly enthusiastic about the April time slot, as it clearly makes attendance difficult for those of us involved in education. However, my visit there for the April 1998 board meeting largely changed my mind. Las Vegas was really fun - lots to do and see, even for a non-gambler like myself. The Tropicana, a somewhat older hotel located just off the strip across from the MGM Grand may well be the best CSSA Convention venue, at least in my experience (which goes back to the late '70s). Although it is enormous like many Las Vegas hotels, the arrangements for our convention are a model of convenience. Delegates will be housed in one tower at the base of which, located very close together, are the lecture hall, banquet hall, plant sales and book sales rooms, and various wonderful restaurants. The rooms are spacious and comfortable and are moderately priced (for the location) at \$79 weekdays and \$109 Friday and Saturday - for up to three persons in a room. As for the April dates for the Convention, they were chosen to take advantage of cooler weather and the potential flowering of cacti and desert wildflowers.

The convention format will be familiar to attendees at previous conventions with 4 days of speaker programs, a Monday evening banquet, the Tuesday evening rare plant auction, which raises funds for the CSSA research fund, a series of Wednesday day trips, and the Friday evening farewell party. A stellar series of speakers has been lined up this year featuring perennial favorites such as Susan Carter-Holmes, and a number of new speakers and new topics. For example Tim Metcalf will talk on *Dorstenias* and Eva and Voytek Foik will show their extraordinarily life-like 3D slides.

Of the several day trips to be offered Wednesday of convention week, we visited Valley of Fire and Lake Mead, as well as Red Rock Canyon, during last April's board meeting. The scenery was fantastic and owing to good winter rains, the desert was ablaze with blooming flowers and shrubs. Some of the plants that may be seen and photographed in habitat on these trips include *Coryphantha vivipara*, *Echinocactus polycephalus* (large clusters), *Echinocereus engelmannii*, *Ferocactus cylindraceus* v. *lecontei* (big yellow-and-red-spined barrels), *Neolloydia johnsonii*, *Agave utahensis* v. *nevadensis* (spectacularly large clumps), *Opuntia basilaris* (beautiful in flower) and many other opuntias. Pre- and post-convention tours will include a visit to Death Valley, the Mojave Desert, the Grand Canyon and Sedona, Arizona. Tours and day trips are described in this and

recent issues of *Desert Breeze* and in more detail in the Nov. - Dec. 1998 issue of *To the Point*, the CSSA Newsletter (Vol. 70, No. 6). Finally, the convention is an excellent opportunity to visit with old friends and meet new ones. For additional information on the convention, visit the CSSA website at <http://www.cactus-mall.com/CSSA/> or contact Convention Chair, Duke Benadom by phone (805) 526-8620, or e-mail him at: dukebenadom@earthlink.net.



A registration form was included in a recent issue of the CSSA Journal. Registration forms may also be downloaded from the CSSA web page or obtained from Carol Clapp, TCSS Affiliate Rep, at TCSS meetings. The registration fee is \$165 for CSSA members and \$225 for non-members. Join CSSA (brochures from Carol) for \$35 with your registration form and save. Save even more by registering your spouse or significant other as a CSSA associate member (\$10). For room reservations, contact The Tropicana directly at 1-800-468-9494. America West Airlines is offering discount fares to Las Vegas for the Convention, specify CAMS CODE 6479. Come join the fun!

In addition to cheaper rates for the convention, there are a number of other advantages to CSSA membership. First of all you get your very own copy of the CSSA Journal and don't have to rely on sharing your club's copy. Recent issues of the journal have been filled with stimulating articles. Starting with the January-February 1999 issue, the journal will have an exciting new format. The Seed Depot, ably managed by Sue Haffner, provides seeds of rare and unusual cacti and succulents at very reasonable prices, as a service to CSSA members only. Finally, looking ahead to April 2000, CSSA is planning a field trip to the Big Bend region of Texas, home to more than 60 varieties of cacti and other succulent plants. The pre- and post-convention tours associated with the last two CSSA Conventions have been so successful that the CSSA Board has decided to sponsor tours in non-convention years. The Big Bend trip will be the initial offering. In addition to the richness of the succulent flora, the area features a considerable diversity of birds, mammals and reptiles, and spectacularly rugged mountains and canyons. The week-long trip will visit both Big Bend National Park and the much less well-known Big Bend Ranch, a pristine area to the west of the park recently acquired by the state of Texas. Tour logistics will be coordinated by Borderland Tours of Tucson, Arizona, a well-known company specializing in natural history tours. The two tour leaders are excellent botanists with considerable experience in the area. The trip will be limited to approximately 20 participants with priority (as well as a slightly lower price) being given to CSSA members. All the more reason to join CSSA. So, join today, you'll be glad you did!

Bob Barth, Publicity Chair and CSSA Board of Directors ▲

TUCSON CACTUS AND SUCCULENT SOCIETY MEMBER SURVEY 1999

Should TCSS sponsor:	Yes	No	Undecided
1. A judged show	8	4	5
if yes should there be separate divisions for amateur and professional growers	7	2	1
2. Sales where member, non-professional growers could sell excess plants to the public	16	1	
3. Plant exchange or sales at meetings	14	1	2
4. Trips to special events such as:			
Huntington	15	1	1
Intercity Show and Sale	13	2	2
CSSA Convention	11	2	4
Out of area nurseries	17		
5. Field trips	15	1	1
6. Trips to local nurseries	10	6	1

(Continued from page 8)

interesting conversation and tour Mindy and Pat's greenhouse. They brought all their plants from their Iowa home and it is a wonderful well-grown collection.

I need your input. What do you want CSSA to do for YOU, for TCSS, for CACTUS and SUCCULENTS? You have a direct voice through me. You have made this opportunity possible for me and I sincerely appreciate it.

Thank you.

Dick Wiedhopf
TCSS Immediate Past President



See next page to find out about me Zzz

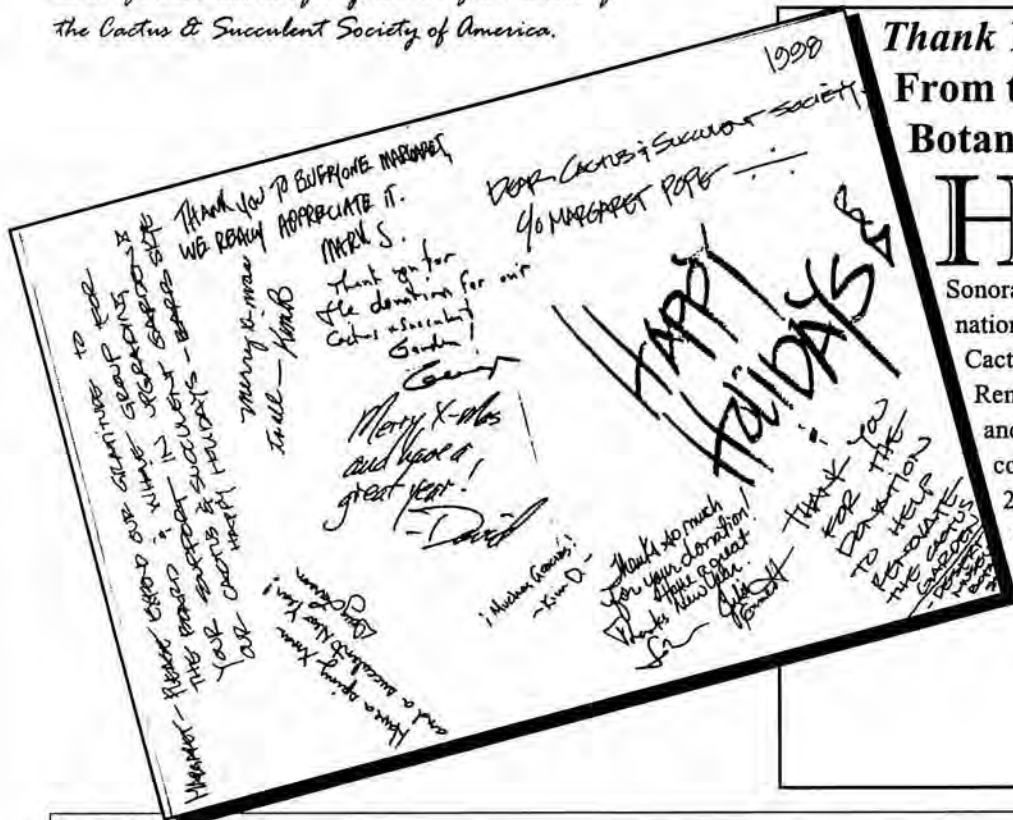
See next month's Editorial for reasons why YOU as a beginner can benefit by becoming a member of the Cactus & Succulent Society of America.

Thank You From the Desert Museum Botany Staff

Here is the inside of a Thank You card signed by members of the Arizona-Sonora Desert Museum Botany Staff for the donation made by the TCSS to help renovate the Cactus and Succulent Garden.

Renovation will be ongoing for some months and individuals can still contribute by sending contributions to ASDM Development Office, 2021 N. Kinney Rd, Tucson, AZ 85743-8919 and specify the donation is to be used only for the Cactus and Succulent Garden.

Margaret Pope



Please use this form, or copy it, to renew your membership or start a new membership.

Tucson Cactus and Succulent Society 1999 Membership Form

Name(S) (F, Mi, Last) _____

Address _____

City _____ State _____ ZIP _____ - -

Home telephone (____) _____ - _____ Work telephone (____) _____ - _____

Fax (____) _____ - _____ e-mail _____

Life \$500 _____ Family \$20 _____ General \$15 _____ Student (18 and under) \$10 _____

New Membership _____ Renewal Membership _____

Please check here if you are a CSSA member _____

Dues run from January 1 through December 31 each year.

Please make checks payable to TCSS, and mail with completed form to:

TCSS Membership Secretary, Maury Clapp, PO Box 91560, Tucson, AZ 85752-1560

Cochineal in Perú

A message from Liberato Portillo
<lportill@cucba.udg.mx>
on cacti_etc on January 20

Dear Friends,

In Ayacucho, Perú will be held the III Festival on prickly pear and cochineal. It is an expo, there will be sales of some products made with prickly pear (alcoholic beverages, food, jams, etc.). Ayacucho is the biggest producer of cochineal (the carmine insect), there will be present the enterprises and the bigger companies on this natural color. For more info, you can visit the home page: <<http://www.geocities.com/collegepark/library/6485/tuna99.html>>

Hope to see some of you in Perú!

Liberato Portillo

La Fiesta de las Flores

Tucson Garden Club in cooperation with the Orchid Society of Southern Arizona is sponsoring this Show.

Exhibits will include Dan Birt's Saguaro Exhibit; plants of other members of the TCSS; and displays and exhibits by many other local plant related clubs.

CLASS 3A. One cactus (named)

CLASS 3B. Collection of cacti

CLASS 4. One succulent (named)



**Advanced registration for all container plants - call Baila 825-6507
For set-up times etc. call Maury on 908-9001**

FOOTHILLS MALL

7401 N. La Cholla Blvd.
Tucson, Arizona 85741

February 20, 1999
2:00 p.m. - 9:00 p.m.

February 21, 1999
12:00 p.m. - 4:00 p.m.

Tucson Cactus & Succulent Society
c/o Carol and Maury Clapp
PO Box 91560 Tucson AZ
85752-1560



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Desert Breeze

Newsletter of the TCSS for February 1999

ABZ
265-8006

NEXT MEETING - Thursday, February 4 at 7 P.M.

Porter Room

Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, AZ 85712

See page 3 for more details.

The Behavior of the Genus Agave in Cultivation

Diane Barker

and

Mark Sitter on the ASDM's Cactus & Succulent Garden



SHOW AND TELL - You are welcome to bring a cactus or other succulent and tell members about it, or to bring one along which has a problem. Someone may be able to give the needed advice.



REFRESHMENTS by those with family names beginning with S-Z and A-D
Coffee will be provided by the TCSS.

Visitors always welcome.

Desert Breeze

Volume 4, Issue 3

MARCH 1999

Lots of exciting
new things
are happening
in the TCSS.
Please read
this issue
thoroughly
and find out
what is going on.

You
might
like
it!



Maury's Ramblings

PLANT EXCHANGE at the next meeting. You asked for it; so next meeting is your chance to make it work. Bring your surplus plants, cuttings or potted, and we'll have a swap meet. This should be a great chance to add to your collection as you make room for your new acquisitions.

As I write this, your club is participating in the flower show sponsored by the Tucson Garden Club and the Orchid Club of Southern Arizona being held at the Foothills Mall. We have an information table at which we distribute brochures telling about TCSS and CSSA. Thanks to Dan Birt for putting on his exhibit of the life cycle of the saguaro. As of Sunday night forty-four people had signed up for information about TCSS; maybe a few will become members. Thanks to Vonn Watkins and the membership committee for arranging this event. Special thanks to those members who spent time at the booth telling about TCSS: Norma Beckman, Al Coritz, Joe and Carol Costante, Jack and Helen Ramsey, Jean Lewis and Jerry Daharsh.

Dick Wiedhopf suggested that those of us that were interested in micro-propagation might get together to purchase supplies, share experience, etc. This leads me to speculate how many other members might have special interests. Maybe some special interest



groups (SIG's) could be created within TCSS? These groups could be geared to a group of plants, seed propagation, or any other subject. The groups could meet monthly, perhaps at a group member's house, or informally as desired. The only prerequisite to start a SIG would be a leader and three or more members interested in the subject. Let your officers or board members know if any of this is of interest and what subjects you would like to see covered.

The Program Committee has lined up terrific programs for April and May meetings and a tour for April. See the Future Events column for details. Both the Library and Membership committees have been busy and submitted extensive recommendations which are reported on elsewhere in this *Desert Breeze*. The library committee has proposed a resolution for action by your Board of Directors changing the lending procedure of the library. The full text of this resolution is contained in the agenda for the next board meeting on page 7. Because of the loss of several valuable books, I have authorized the emergency implementation of this procedure pending ratification by the board.

Finally, let me re-iterate we cannot make TCSS meet your expectations if we don't know what they are. Please make your suggestions known to your officers and board members. See you at the next meeting.

Maury Clapp

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Tucson Cactus & Succulent Society
Founded 1960

OFFICERS AND BOARD 1999

PRESIDENT: Maury Clapp 908-9001
VICE-PRESIDENT: Al Coritz 682-8333
SECRETARY: Joe Costante 825-2357
TREASURER: Arnold White 577-1348

BOARD OF DIRECTORS:

(terms expire December 31 of year indicated)

Immediate Past-President: Richard Wiedhopf 885-6367

Marty Harow 1999

George Nadler 1999

Mary Odette 1999

Sara Perper 1999

Dan Birt 2000

Lois Ladwig 2000

Jack Ramsey 2000

Ron Fridlind 2001

Linda Ryan 2001

Vonn Watkins 2001

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The **Desert Breeze** is the Newsletter
of the Tucson Cactus & Succulent Society.

Please send your copy by the 20th of the
month preceding the following month's issue
to the Editor.

TCSS Web Page

<http://www.desertcactus.com/tcss/>

TCSS WEBMASTER: Lois Ladwig

e-mail: lois@desertcactus.com

Check our web site for TCSS activities and read the
archive section of summaries of talks we've had.

Board Meeting Reminder

Board Members:

Please make a note in your calendars of the following Board
Meeting dates for 1999:

March 18

May 20

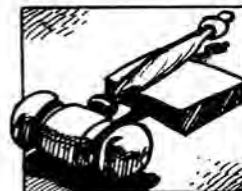
June 17

July 15

September 16

October 21

November 18



All are third Thursdays in the month.

Place: College of Pharmacy, Mabel and Warren, at 7 p.m.

Officers and Directors: Please call Joe Costante or Maury
Clapp if you are unable to attend any of the above meetings.

TCSS members: Any of you are welcome to sit in on board
meetings. The agendas are published in the preceding issue of
Desert Breeze, so if you have something to say about any of the
items due for discussion, please get in touch with Maury Clapp
or Joe Costante.

Tour of B & B Cactus Farm Gardens

April 17, 9:00 a.m.

B&B Cactus Farm has extensive gardens planted with
many large cacti, agave, and other succulent plants.
The trichocereus, including Epic, a B&B-developed
hybrid, offer a marvelous bloom display at this time
of year. Since these are nightbloomers, we have ar-
ranged to meet at the gardens for a tour starting at
9:00 a.m. Karen Mott will give TCSS members the
tour and has volunteered to be at B&B at 8:30 a.m.
for those who wish to spend a little extra time looking
at the plants B&B offers for sale.

B&B Cactus Farm is owned by Bob and Bev White,
long-time TCSS members and generous contributors
to TCSS activities.

B&B is located at 11550 E. Speedway Blvd., Tucson.
When heading east on Speedway, drive 1.5 miles past
Houghton Rd and look for the B&B sign on the right
after you pass Tanque Verde Loop Road.

B&B's phone number is 721-4687.

Call Lois Ladwig on 298-7358 for more info.

TCSS Calendar of Events

Meetings are usually held on the first Thursday of the month at the Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, at 7 pm. We have a break for light refreshments half way through the meeting and, maybe even coffee, as Dick Wiedhopf gave us a coffee pot at Christmas!

March 4 **Xeriscape Butterfly Gardening**
Blainey Korff, Landscape Architect

This talk will focus on growing five butterflies that are the easiest to grow in our area and how to use the plants they are associated with. Blainey became interested in butterfly gardening when she heard a talk by Jim Brock, co-author of *Butterflies of Southeastern Arizona*, and Steve Perchal of the Sonoran Arthropod Studies Institute. It has now become another aspect which she incorporates into her work as a Landscape Architect. In 1991 Blainey received her Masters in Landscape Architecture at the University of Arizona. Her masters' research focus was on the ecological self-sustaining landscaped neighborhood in Tucson, Colonia Solana, designed by the Landscape Architect, Stephen Child. She continues to be interested in this concept developed by Child and is presently doing an article on him and his work. In 1988 while in the process of doing her masters she received two awards in xeriscape gardening. Currently she is the Landscape Committee Chairperson for her Harold Bell Wright Neighborhood Association.

April 1 Matt Johnson on Thelocactus

April 17, Sat. **Tour of B&B Cactus Farm at 9 a.m.**
Details on p.2. Call Lois on 298-7358

May 6 Mark Sitter: Basic Cultivation

Other TCSS dates for your 1999 calendar are:

June 3, August 5, September 2, October 7, November 4, and our Christmas Party on Sunday December 12.

28th Biennial Convention of the CSSA Las Vegas - April 11-17, 1999

Program details and how to book your hotel accommodations were in the December 1998 issue of *Desert Breeze*. Registration forms will be available at TCSS meeting in March. CSSA members may register for \$165.00 before March 15, and non-CSSA members for \$225.00.

Registration after March 15 is an extra \$50 - so register NOW Call Tropicana Hotel 800-468-9494 and make your own room reservations now. Special rates for this convention are \$79.00 weekdays, \$109.00, per room Fri/Sat (for up to three persons).

Other Societies' Events

We strongly recommend everyone check dates, times and venues before travelling a long way to any of the events listed below. Changes sometimes occur at the last minute. The dates below are the latest we have at publication date.

March 13 **Gibraltar and Beyond, Myron Kimnach**

1 p.m. Rm 101, Casa del Prado, Balboa Park,
San Diego C&S Society (619) 477-4779

Mar 19 - Apr 4 **Annual Spring Plant Sale, Boyce Thompson Arboretum.** Thousands of drought-tolerant plants will be on sale, ranging from shrubs, vines, trees, cacti and succulents. Horticulturists will be on hand to answer questions and lead tours of the Demonstration Garden.

Mar 28 **History of Landscaping** by Jim Wheat, Landscape Architect. 2 p.m. Desert Botanical Garden, Phoenix. Central AZ C&SS

April 10 & 11 **South Coast C&SS Show and Sale**
South Coast Botanic Garden,
26300 Crenshaw Blvd., Palos Verdes Peninsula, CA 90274. This is an open show so anyone may enter their plants. Contact Dick Hulett 310-832-2262

April 11-16 **CSSA Convention, Las Vegas, NV**
The Tropicana Hotel (800) 468-9494

Apr 18 **Landscaping with Cacti, Jon Weeks** of the Landscape Cacti Nursery, Tucson. 2 p.m. Desert Botanical Garden, Phoenix

Apr 22-24 **San Antonio Cactus & Xerophyte Society Show and Sale, Central Park Mall, San Antonio, TX.** 10 a.m. to 9 p.m. Info from Claude Townsend 210-655-8959 or e-mail chtownsend@aol.com

May 8 & 9 **Cactus & Succulent Society of Southern Nevada Sale and Show in Las Vegas, NV.** Contact Clem Goewert <cgoewert@worldnet.att.net>

May 15 & 16 **Annual Plant Sale at Huntington Botanical Gardens, San Marino.** 15th for members, 16th for massing crowds!

June 5 & 6 **San Diego C&SS Show and Sale**
Balboa Park - Room 101.
Call (619) 477-4779 for more information.

July 3 & 4 **CSSA Show and Sale**
Huntington Botanical Gardens,
1151 Oxford Rd., San Marino, CA 91108
626-405-2160 or 2277

Aug 14 & 15 **Inter-City Show and Sale, Los Angeles**
Info: Dick <airobatic@aol.com>

Sept 4 **Huntington Symposium, San Marino**
Oct 16 & 17 **San Gabriel Valley C&SS Winter Show**
Los Angeles State & County Arboretum, Arcadia, CA

2000 April 8 **CSSA Field Trip to Big Bend in Texas**
2001 ??? **CSSA Convention in LOS ANGELES**

Notes From the Editor's Desk

We keep being told of the advantages of joining the CSSA, but what ARE the advantages to the club member who may not have been growing cacti for very long? Well, I'll tell ya!

You are already keen enough to want to learn more about these fascinating prickly plants or you wouldn't even be reading this newsletter. The first thing you will get in return for your dollars as a new member of the CSSA is a membership card, followed by one *Cactus & Succulent Journal* or more, depending upon time of year when you join. Memberships run for the calendar year. Part of the bi-monthly Journal content is undoubtedly technical, maybe too technical for some of you but, remember, the CSSA is so highly respected in the plant world that its Journal has the privilege of being the first instrument to publish some new species of cactus or succulent. It is fun to feel a part of such an organization, is it not? With the Journal comes a newsletter *To The Point*, where the more chatty items are published. It also lists many forthcoming events in which you are welcome to participate. Maybe your club will be arranging a group trip to some of them? Buses are excellent in their carrying capacity for bringing home all the plants you can buy on some trips. *To The Point* usually has some hints on cultivation and articles on people and their collections. It is a fine way to gain knowledge in the succulent world. When you first attend your local society meetings you may feel in awe of some of the long-established members and growers but, not to worry, within a very few years the latest newcomers may well be in awe of YOU.

Some of the dollars received by the CSSA go towards its research fund. You may think that this can't possibly benefit you. But it does. Students and researchers of our prickly pals can apply to the CSSA for a grant to help them in their work. Sometimes these grants provide, in part, the financial means to help researchers locate new species in the wild and to bring the species into cultivation, be propagated and hence into your collection. No, this doesn't happen overnight, but due to the grants of many years ago, many of the plants you now expect to have in your yard or greenhouse, are there because of the funds given out by the CSSA in the past. The CSSA Journal has been produced since 1929 when there were very few cacti and other succulents available to the average collector. Think how many species and varieties we have for enjoyment these days.

As a member of the CSSA you can receive discounts on costs of attending conventions, especially the biennial convention in the odd years, i.e. 1999, the savings being more than the annual dues. Then there is the for-sale-to-members-only Seed List available every year. Choose your seed and watch the little plants develop. It is a fine way to learn about plants.

And, lastly, but by no means the least important, is the happiness in the friendships which grow in the succulent plant world. There are many 'takers' in this world, but if you give, you will be surprised at just how much you receive.

(From the Editor with her Affiliate Rep's hat on!)

Yuccas on CD-ROM

Following my comments in last month's editorial on the growing popularity of Yuccas, some of you may be interested to know that a CD-ROM was expected to be available last month. It has about 1500 photos, and includes a monograph part 1-4, fh (Fritz Hochstätter) fieldnumber list and references. It is available for DM95.00 (including Yucca seeds DM10.00) plus shipping costs. Find out more on website <<http://www.cactus-mall.com/navajo>>; tel (Germany) +49 621 79 46 75 or fax +49 40 360 3079 530

Free advertisement for commercial growers

In return for the donation of plants for door prizes or TCCS Silent Auctions by a commercial grower, we will offer a free advertisement in the subsequent *Desert Breeze*. Up to 1/4 page free if copy or a current business card is provided by grower.

Are you a Philatelist with a Theme Collection?

The USPS will be issuing a pane of 10 stamps in March depicting 25 animals and plants common to the Sonoran Desert. Designed by John Dawson, the illustrations are based on photo references and on research provided by Prof. David E. Brown, a specialist in the classification of biotic communities. If there is a stamp collector out there, how about a regular feature of (succulent) plants on stamps? Just send your copy to me.

2003 CSSA Convention

There is great competition among CSSA Affiliated clubs for the privilege of holding the 2003 convention in their city. Watch this space for the results of the fight (friendly).

Restoring Madagascar is the title of an article in February 1999's *National Geographic Magazine*. Many of the succulents we like to grow in our collections emanate from Madagascar so this issue is of interest to those of us concerned about the conservation of the plants and animals who live on Red Island. This special issue of *National Geographic* is devoted to The Fragile Web of Biodiversity.

"From space, astronauts could see Madagascar's red earth bleeding into the sea."

Did you know that the Saguaro National Monument, now known as Saguaro National Park, was established on 31 January, 1914?

Quote of the Meeting

"I can sell ice to the eskimos!"

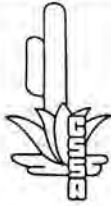
After that remark, Wendy was roped in as our club cheer leader!

Cactus Carol



!Auction Action!

“It is time once again to consider giving a green donation to the CSSA Research Fund auction on April 13 at the Las Vegas Convention,” says Steve Hammer.



“While there have been several offers of inanimate objects - for example, Dorothy Byer has already completed a beautiful watercolor of *Haworthia emelyae* - we need living plants, large and small, which show the great beauty of which our beloved succulents are capable. They needn't be "rare" or "difficult," but they should be plants you'd like to bid for yourself. I donate only plants I'll miss.”

If you have any questions, please contact Steven Hammer at: 760- 598-2541 (evenings only)
or via e-mail: sphaeroid@juno.com
or 3-D mail: 2077 Monte Vista Drive, Vista, CA 92084
Editor's note: At the CSSA Convention in 1997 at San Diego, Dorothy Byer generously gave some of her paintings for auction and they raised a LOT of money for the CSSA Research Fund..

Plants For Adoption

Phillip Allen, newsletter editor for the Connecticut C&S Society, is offering members of the Tucson Cactus & Succulent Society some of his young plants. He had hoped to relocate to southern Arizona but his plans had to be postponed. Phillip grows lots of plants from seed and doesn't have the room to grow on all the young plants. He is keen to share his plants FREE with folks who will appreciate them. “I've always felt that I'm not really gardening unless I'm sharing what I am doing, whether that is plants, skills, expertise, whatever . . .” He would be happy to have the postage reimbursed and he welcomes trades. Phillip usually ships parcels via Priority Mail at the usual cost of \$3.20 with delivery in 2-3 days. You may request he sends his list of available plants (approx. 200 other succulents, plus a few cacti) by e-mail, or see his list at TCSS meetings. Phillip Allen's address is: 103 Lordship Rd., Stratford, CT 06615-7822 e-mail: PAllen9254@email.msn.com



11550 EAST SPEEDWAY
TUCSON, ARIZONA 85748
(520) 721-4687

Welcome New Members

(In order of dues received)

Welcome back David and Margie Spring of Tucson who were members 39 years ago. 520-575-8808
Constance Bachman who has joined this year with her husband Charles who joined in 1997. 520-297-9866
Douglas T. Mehaffey, Tucson 520-388-9407
Herman A. Schwartz MD, Strawberry Press, California 415-388-5017



News from Herman Schwartz MD

Herman Schwartz of Strawberry Press has joined our ranks - the third bookseller/publisher to join this year.

Herman tells us that Vol 1 and Vol 2 of Rauh's *Succulent and Xerophytic Plants of Madagascar* are going like wildfire, as is Gordon Rowley's *A History of Succulent Plants*. His telephone number is above in the Welcome New Members section so call him if you don't want to miss out on any of the above books (in the range of \$110-\$120). They are all beautiful books.

Bolinas Succulent Botanical Garden and Museum

Another interesting item of news from Herman is that he is changing his 6 greenhouses and 14 acres + pond into the Bolinas Succulent Botanical Garden and Museum.

Ed's note: Herman's acres are already beautiful - masses of Aloes, mostly in beds in the open, on a lovely spot in the hills not far from the Pacific Ocean north of San Francisco, and many, many Euphorbias under glass. Maybe the TCSS Program Committee might think about planning a tour there in a year or two?

Plant List - Cactus Specialties

Jim Boehmke of Cactus Specialties, 2668 Crater Rd, Livermore, CA 95440 has sent us his list of young cacti for sale. Jim specializes in growing rare, cold hardy (10 deg. F to 20 deg F) plants from seeds that have been legally collected in habitat. His lists will be available for you at our meetings or you may contact him yourself and request one sent to you.

His other contact points are e-mail: jbcactus@c-zone.net and his web page www.cactus-mall.com/cactus_specialties
Jim's plants are good and clean and, when seen at cactus sales at shows, are beautifully presented.



Periodical Perusal

This month we discuss the British Cactus & Succulent Society's *Bradleya*, its annual publication supplementing the quarterly journal. Dr Tony Mace wrote about *Bradleya* on cacti_etc recently. Some of his words included below are relevant for inclusion in our newsletter as they explain the reasons why very technical content is sometimes better placed in an alternative publication to the regular journal. *What do you think?*

Date: Tue, 26 Jan 1999 17:13:31 GMT
From: bcss@mace.demon.co.uk (BCSS)

"Bradleya came into existence as a by-product of the merger between the two British Cactus Societies approximately 16 years ago. Before that date there were two quarterly Journals, *The National Cactus and Succulent Journal* and *The Cactus and Succulent Journal of Great Britain*. The newly-formed society having somewhat greater resources wanted to use these resources to improve its publications. Rather than perhaps increasing its number of issues per year which might have been one way to go, it decided to continue with four journals per year and produce one larger (around 100 page) publication annually. It was conceived that this would be more suitable for lengthy and technical articles which would not be popular with newer growers if they appeared in the journal. To this end the year book was made an optional extra to the BCSS membership. It can be obtained at a pre-publication price along with membership or copies can be bought later like a book. Right from its start, under the editorship of Nigel Taylor and David Hunt and later under Gordon Rowley, *Bradleya* has enjoyed a high reputation in academic circles, but has had a more mixed reception from BCSS members. Early editions struggled somewhat to achieve sufficient circulation, but with more recent editions the take-up has improved to the point where the publication is more than self financing. This year's edition (No 16) printed 1500 copies and I think nearly 900 were taken on a pre-subscription basis.

Bradleya is usually published around September/October each year. The name derives from a famous Kew botanist. It is evident that the concept has been successful because there are now two similar publications *Haseltonia* from the CSSA, 5 editions so far published - detailed contents on the CSSA website (<http://www.cactus-mall.com/cssa>) and *Schumanniana* from the DKG, 2 editions so far published.

Fairly detailed information on the contents of *Bradleyas* still in print (No 1,2,4,5 and 6 are out of print) are available on the BCSS website: <http://www.cactus-mall.com/bcss/publist.html>

Dr Tony Mace
The Cactus and Succulent Plant Mall
Try our new cactus and succulent search engine on:
<http://www.cactus-mall.com/search.html>

Contents of March-April Issue of the Cactus & Succulent Journal

Bottle-trees and heat on Socotra: a Big-foot story —
a temperature study of *Adenium socotranum* and
Dendrosicyos socotrana, by Bruno Mies.
A new *Stephanocereus*-like pilosocereus from western Bahia,
Brazil, by Pierre Braun.
Crassula ausensis subsp. *titanopsis*, a new discovery from
southern Namibia, by Petr Pavelka.
Rhytidocaulon tortum refound after 100 years,
by Miroslav Ríčanek & Pavel Hanáček.
The Huntington Botanical Gardens presents the 1999 offering of
International Succulent Introductions,
by John Trager & Bob Schick.
Another view on conservation, by Gary Lyons.
Superb Succulents, by Duke Benadom (note that this is the new
title for the long-running column, *Cacti & Succulents*
for the Amateur).
Spotlight on Round Robins arrived too late for inclusion.
Haseltonia 6 is still scheduled for publication in April.
The contents will soon be listed here.

Myron Kimnach

Editor of *The Journal*, Managing Editor of *Haseltonia*

Mesemb Study Group Bulletin Vol 14. No.1

The first issue of 1999 - a bumper 28 page issue - arrived early
February from England. Some of the contents are:

1999 ISI Plant Offerings -by Harry Mays. This will include at
least one mesemb, but please await full list in next
CSSA Journal to find out details how to get the plants.
Harry has been besieged by over-impatient succulent-
ophiles trying to beat everyone else to the list.

Calendar of Mesemb Talks 1999

Treasures of the Sperrgebiet -Namibia's No.1 Diamond Area
by Tom Jenkins

Growing Mesembs in Adelaide by Bob Chinnock

Eberlanzia Moves On by David Lambie

A Lithops Trip to Namibia by Gerhard Marx

Seed Distribution 1999 by Terry Smale

Some Interesting Conophytum Populations by Terry Smale

Comment by Steve Hammer

Tints and Timing of Mitrophyllinae by Steve Hammer

Another Notelette on Gibbaeum Johnstonii by Steve Hammer

A Beginner's Guide to Seed Growing by Mark Border

MSG Research Fund

Mid-Cheshire Mesemb Show Goes from Strength to Strength
by Peter Cupial-Jones

Mesembs and Other Weeds by Jim Porter

Above are just some of the articles in this issue.

Contact Suzanne Mace, Mesemb Study Group, for more details
of membership in this enthusiastic group.

<<http://www.cactus-mall.com/msg>>

Agenda for the TCSS Board Meeting to be held on Thursday March 18, 1999 at the College of Pharmacy, Mabel and Warren, at 7 p.m.

1. Call to order.
2. Apologies for absence.
3. Review of minutes of last meeting.
4. Report on progress on obtaining Tax Exempt Status from IRS. - **Dick Wiedhopf**
5. *Desert Breeze* editor's report.
 - a. Proposed budget for 1999.
 - b. Advertising in the *Desert Breeze*.
Proposed: That advertising be sought for *Desert Breeze* and a Space Seller be appointed.
6. Program Committee report - **Al Coritz**
 - a. Programs arranged to date.
 - b. Proposed budget for 1999.
7. Finance Committee report - **Arnold White**
8. Library Committee report - **Carol Clapp**
 - a. Cabinet has been procured and books secured. Several books have been removed from circulation pending repair. Book list has been updated and will be revised on web site.
Proposed: That TCSS Library books be loaned out only to members in good standing and borrowing should be for one month. If not returned in one month, a postcard to be sent as a reminder to borrower requesting return of book(s) at next meeting.
Proposed: That cost of covering 53 dust jackets be allowed forthwith.
Proposed: That some volumes not be lent out, but be taken to meetings for reference purposes, such as those which are likely to be irreplaceable and/or of great cash value.
 Request discussion on whether or not some books should be sold and monies used to purchase books of wider interest to members, and to facilitate rebinding of those to be retained.
 - b. Proposed budget for 1999. (In the past the budget was \$300 p.a. Nothing was spent in 1998.)
 - c. *Desert Plant* subscription has expired.
Proposed: The Treasurer is hereby authorized to issue check in the amount of \$20.00 for subscription to *Desert Plants*, Volume 15.
9. Membership Committee report - **Vonn Watkins**
 - a. It is important to get the word out to the public - use media to best advantage.
Proposed: The president is directed to send a letter of introduction to all print and broadcast media in the Tucson area introducing TCSS and requesting the name of the person to whom News Releases should be sent, and further that the Membership Committee shall issue a news release to all media responding to the introductory letter before each TCSS event.
 - b. Arrange with member nurseries to provide discounts to members, perhaps in return for advertising space in the *Desert Breeze*.
 - c. Get brochures in other locations. May need four-color brochures in the future to compete with commercial displays.
 - d. Recognize member who signs up the most new members in a given period.
 - e. Finding out the special interests of members, i.e. Agaves, Sonoran Desert Cacti, grafting, etc. Then getting volunteers willing to answer questions on these subjects. (SIG leaders perhaps?)
10. Sonoran 3 facilities update - **Al Coritz and Dick Wiedhopf**
11. When are TCSS dues delinquent? How long do we advertise businesses on our web page and in the *Desert Breeze* owned/managed by TCSS members with outstanding dues?
12. Any Other Business.

Report on Membership

by Vonn Watkins, Chairman, TCSS Membership Committee

At our first membership meeting of 1999 on February 10th we discussed and planned some important ideas that we hope to implement and work on throughout the year. Attending this meeting were Maury Clapp, Joe Costante and myself.

We discussed the need to get the word out to the public and to use all the resources that are available and at little or no cost to the TCSS. We must provide the public with information that will let anyone who may be visiting Tucson or new and old residents where we can be found. We discussed sending out letters to all the media organizations asking them for support in their publications or air time. We hope this will fall under the public service category. We also talked about contacting the media with follow up information and continue to let them know about any upcoming events or meetings of special interest. There are no guarantees that this will work, but if we begin trying new ways of informing people it may improve membership and public interest.

Another idea is to provide new and old members with another benefit for membership. We would talk with local growers about giving a 10% discount on purchases of all plant related goods. For one to get a discount they would have to present their membership card. As a courtesy to the businesses who support this plan we would give them a small space for advertising in the *Desert Breeze*. We plan to discuss other ideas for giving support to these businesses very soon and show our appreciation for their support. The businesses would also display our brochures in a place convenient to the public.

We are also considering trying to get our brochures in other businesses where visitors may be looking for plant related information. The airport information location, hotels and motels etc. We also discussed getting support of the local Tucson Visitors Bureau. The need for a nice four color brochure with photos was also discussed and may be something we will need for the future.

Existing members are often active in signing up new members. We think it would be a good idea to recognize the member who is active in signing up the most new members during the year. Many other things were talked about including getting all existing and new members to provide the TCSS with what particular interest in cactus and succulents they may have. Such as: I am interested in Agaves, Euphorbias and Lithops. Or: I am interested in Sonoran Desert Cacti, Ferocactus, Yuccas and Grafting Techniques. This information would be very helpful to all by providing members with another aid in seeking advice or help with a particular species or interest. It would also increase communication and let everyone know why we are here.

This is only a start at trying to introduce a few new proposals we hope will help our membership effort. We all need everyone's support and help to ensure we are providing the best to all. Please let us know your thoughts. ▲

TCSS Library Report

by Carol Clapp, Chairman, Library Committee

On February 3 I took inventory of our library contents and compared it with the list produced by Mary Odette and the late Myrtle Ethington one year ago. I found that over 5% of the volumes they had listed are no longer there. This rate of loss cannot be tolerated. The missing volumes include:

Backeberg's *Die Cactaceae* Vols I, II, IV, V

Bruce Bayer's *Haworthia Handbook*

Von Kraenz's *Sukkulanten*

Robert's *Rules of Order*

Gordon Rowley's *Native Arizona Plants*

Pilbeam's *Tephrocactus*

Two plates out of Bally's *Monadenium Handbook*

Please check your bookshelves for any of the above books. If, by any chance, you found that you did borrow them and overlooked noting it on the borrowing sheet, please return the books to our next meeting. If you prefer to remain anonymous, please return them to the library and leave them on the table by the bookcases. **The important thing is that we get our books back.**

To minimize further losses, we purchased a used steel cabinet as authorized by the TCSS Board last year and transferred the books and journals to this cabinet which is now locked. Being enclosed will also help to protect the books from Arizona road dust and other environmental problems.

My new list has notes of dates, editions, condition and work needing to be done on every volume. A more comprehensive list is expected to be ready for members to pick up at monthly meetings as from the March meeting. From this list, members in good standing may select books they wish to borrow and give me a call (48 hrs notice please) on 908-9001 and I will bring them to the following meeting.

Please understand that all books will not be available at all times. Those with broken spines have been withdrawn from circulation, and others which are desperately in need of having their covers protected will also be kept out of circulation until repaired.

Ron Fridlind, member of the Board and the Library Committee, has a wonderful idea - "Have the latest books, catalogued in a secure, convenient location, maintained with the latest conservation methods, in an attractive setting, with knowledgeable supervision and assistance. (Dream on)". If we had full time library personnel and our own accommodation, this would be a fantastic arrangement. Right now, we are doing the best we can and are trying to make more volumes from the library available to more members, and to have those volumes be in good order and a pleasure to handle.

A motion is being made to the TCSS Board on the future of the library and how its business should be conducted.

If you have any ideas, or strong feelings about our library, "The Myrtle Ethington Memorial Library", please let President Maury Clapp know before the next board meeting on March 18. ▲

TCSS Roster as at February 20, 1999

Key: F = Family membership (\$20), others are single memberships (\$15).

Members in the Tucson postal areas of 856 and 857 (Area code 520)

		Phone	Fax	e-mail
Charles and Constance Bachman (F)		297-9866	297-9857	bachmanc@theriver.com
Wendy Beall		299-1178	529-8003	wendy@stardotstar.com
		wk: 529-5000		
Norma Beckman (Life Member)	CSSA	885-0669		-
Phil and Linda Benziger (F)	CSSA	749-4839		
Tanque Verde Gardens				
Dan Birt (Life Member)		325-4967		
Dan's Desert Plants at Mesquite Valley Growers				
J.E. Blackwell (Jerry)		887-5020	887-6430	Jebblaal@worldnet.att.net
Doug Browder		320-0745		dbrowd@statefund.com
Skip and Cindy Brown (F)		749-6098	749-6096	skipb@cycla.com
		wk: 749-6095		
Kenneth and Jackie Byrd, and Aaron (F)		747-2965		
		wk: 721-8163		
Mary Church (Life Member), Master Gardener		624-7976		
Carol and Maury Clapp (F)	CSSA	908-9001	908-0396	kitfox@azstarnet.com
				mclapp@azstarnet.com
Al and Bobbie Coritz, Sari and Alli (F)		682-8333		phobos11@aol.com
				phobos22@aol.com
Joe and Carolyn Costante (F)		825-2357	825-9312	costante@goodnet.com
Fonda DeLoache		326-5495		
Bob and Donna Ellis, Tana M and Lindsey P (F)		647-3668		xellis@azstarnet.com
	CSSA	wk: 733-6356		
Mike Ellis		742-0603		
Tom Fern	CSSA	296-1197		
Tony Fontes	CSSA	742-5206	297-5035	mfontes42@aol.com
Desert Trees Nursery		wk: 297-5664		
Ron and Kathryn Fridlind (F)		325-8447	325-8449	103213.1665@compuserve.com
Chris Grubb		wk: 721-4678		
B&B Cactus Farm				
Marty and Barbara Harow (F)	CSSA	531-9430	531-9445	
Patty Herman		wk: 721-4678		
B&B Cactus Farm				
Bruce Hilpert		888-1280		gdead@theriver.com
Peggy Hitner		327-1179		
Helen Housman (Life Member)		325-7920		
Clint Jarvis, Founder member TC&BS		624-6746		
Gene Joseph and Jane Evans (F)		792-1592		boscoe@lithops.net
Plants for the Southwest		wk: 628-8773		www.lithops.net
Living Stones Nursery				
Lois Ladwig	CSSA	298-7358		lois@desertcactus.com
Angelo LaScala and Joyce Abbot-Park (F)	CSSA	648-2913		
Edward Leach, Master Gardener		297-8872		

(Continued on page 10)

(Continued from page 9)

Bobette Adler Levy and Dr Sidney J. Levy (F)	CSSA	577-7381		bobetteL@aol.com
Jean Lewis and Jerry Daharsh (F)		743-9963		jlewis@azstarnet.com
Eugene Loring and Hal Myers (F)		625-8109		
Paul Magoon		825-5658		
E. Ann Martinez		327-3287		amartine2@TUSD.K12.AZ.US
		wk: 617-6041		
Douglas T. Mehaffey		388-9407		
Valarie D. Miller	CSSA	747-1613		
		wk: 324-5555		
Karen Mott		721-8139		
B&B Cactus Farm		wk: 721-4687		
June Mueller		326-9174		
George and Essie Nadler (F)		299-1348	751-1103	EGNADLER@aol.com
		wk: 886-4086		
Mary and Bill Odette (F)	CSSA	749-2285		odette@azstarnet.com
Mary Odette Books				
Carol Otteson		512-0868		
Tanque Verde Greenhouses		wk: 749-4414		
John and Dorothy Pasek (F)		682-8883		
Plantas del Sol				
Sara and Lloyd Perper (F)	CSSA	743-3162	743-3162	lydprp@azstarnet.com
William Pluemer		299-9015		
Margaret Pope		795-1285		nempe@aol.com
Quent Quiner		790-2411		quenana@juno.com
Rick and Debra Raeber (F)		577-3029		
Jack and Helen Ramsey (F)		888-6137		
Lucille and Alex Rosenstock (F)	CSSA	529-1005		lucille@azstarnet.com
Linda Ryan		299-2338		F100PLT@aol.com
Carol K. Scannell		749-4414		
Tanque Verde Greenhouses, Inc.				
Bob and Dolores Schlegel (F)	CSSA	749-3568		
Jack Segurson	CSSA	749-3430		
Dan Sims		299-9706		dastuc@juno.com
Kevin Sims		818-1686		
Mark Sitter	CSSA	578-9180		
Gecko Cactus Landscaping				
Susan Skirvin		299-3090		smkirvin@aol.com
David and Margie Spring (F)				
Arlene Sweedler		742-0473		
Jeffrey and JR Trevas (F)		577-2251		PANAXQ@aol.com
Pat Trossman, Tucson		749-5825	749-5982	ptrossman@netmail.hscbklyn.edu
George and Gail Virtes (F)		818-0312		GVGV@msn.com
Vonn Watkins		322-5029		cactusdudel@yahoo.com
John and Meg Watt (F)		791-0912		mwatt@geo.arizona.edu
Jon R. Weeks		883-0020		
Landscape Cacti				

(Continued on page 11)

(Continued from page 10)

Arnold White	CSSA	577-1348		aawhite@aztec.asu.edu
Bev and Bob White (F)		749-3939		
B&B Cactus Farm		wk: 721-4687		
Richard Wiedhopf (Life Member)	CSSA	885-6367	626-4063	wiedhopf@pharmacy.arizona.edu
and Pat Wiedhopf		wk: 626-4429		

Jim Williams		wk: 721-4678
B&B Cactus Farm		
Harrison Yocum, Founded TBG 1964		298-0930

Members in Arizona, outside Tucson postal area (some 602 area codes due to change on March 1)

Nancy Clarke (Life Member), Showlow		520-537-0402		
Kenny Dugas, Chandler		602-821-2653		
Thomas A. Gatz, Phoenix		602-863-2553	602-640-2730	tom_gatz@fws.gov
		wk: 602-640-2720		
J.M. "Pete" Petrie (F)		520-689-9762	520-689-5858	jpetrie@ag.arizona.edu
Boyce Thompson Arboretum				
Regina Reed Rodgers, Peoria	CSSA	602-974-1105		rodgersr@saifr00.ateng.az.honeywell.com
		wk: 602-436-2550		
Joan and Stan Skirvin (F), Scottsdale	CSSA	602-948-2515		jasskirv@goodnet.com

Members beyond Arizona

Betty Blackburn (Life Member), Cherry Valley, CA				
Harriett Brinson, San Carlos, CA	CSSA	650-591-3124		
Robert J. Carlson, Costa Mesa, CA		949-548-2912		rcarlson@ducksfan.com
		wk: 714-708-0610 ext. 138		
Sue Haffner, Clovis, CA	CSSA	209-292-5624		sue_haffner@csufresno.edu
CSSA Seed Bank		wk: 559-278-2786		
Stan Korabell, Las Vegas, NV		702-255-1744		
Lee Miller, Washington, D.C.	CSSA	202-232-0629	202-265-8128	leemiller@erols.com
		Wk: 202-232-0629		
Mark Muradian, Laton, CA	CSSA	559-584-9118		
Philip B. Nesty, Clayton, CA		925-672-4566	925-672-3338	brooksbk@netvista.net
Brooks Books				
Rainbow Gardens, Vista, CA (F)	CSSA	760-758-4290	760-945-8934	RBGdns@aol.com
Chuck Everson and Jerry Williams				
Camille Rutkowski	CSSA	626-289-2621		crutkows@lausd.K12.ca.us
Herman A. Schwartz MD, Mill Valley, CA		415-388-5017	415-380-9628	
Strawberry Press		wk: 415-388-5017		
Paul Shaw (Life Member), Goleta, CA		805-692-8823		
Dave Shearer, Tuckasegee, NC		828-293-5799		shear@wcu.campuswix.net
Mark Wejrandt, Shelby Township, MI		810-739-2426		
Joe and Carol Wujcik (F), Fountain Valley, CA		714-963-3146		cawujcik@aol.com
	CSSA			Joewujcik@aol.com

-00-

If your name does not appear on pages 9, 10 or 11, your dues for this year have not been received up to February 20. A reminder, with return envelope, was mailed on February 17 to you.

Notes on February's TCSS Meeting at the TBG

by Joe Costante, TCSS Secretary

President Maury Clapp started the meeting by asking new members to introduce themselves. We now have 189 members on our membership role, mostly around Tucson, but some from all over the States. There were members in 51 households who had still not renewed their dues this year. He announced that library books had been brought to meeting for members to check out if they wished.

Margaret Pope introduced the speaker for the evening, Diane Barker, who is the Agave Horticulturist at the Desert Botanical Garden in Phoenix.

The CSSA affiliate representative Carol Clapp spoke on the benefits of membership of the CSSA and to look in the next issue of *Desert Breeze* for reasons why beginners are already benefiting from the work done by the CSSA.

As Chairman of the Library Committee of TCSS, Carol reported she had inventoried the library the previous day. About 40 members and friends were present including Doug Mehaffey who became a member before departing the meeting, and Mark Hermann who attended with his wife Pat, a new member.

A short break for refreshments enabled members to socialize.

President Clapp made a plea to form a refreshment committee and asked for volunteers. He noted how well the S-Z and A-D members came through with food for this meeting but in January, there was poor representation. He mentioned only Jeff and JR Trevas had volunteered to serve on the committee but three families were needed. An open discussion ensued with recommendations rang-

ing from scrubbing the food and going just with coffee/soft drinks to having groups of members sign up for a period of service and be called by someone on the committee to provide food for a particular meeting. No official action was resolved. President Clapp ended this segment by noting that "this is your club and we need to spread around responsibility".

Margaret Pope (former program chair), who arranged programs for the first three regular meetings in '99, introduced the second speaker of the evening, Mark Sitter of the Arizona-Sonoran Desert Museum and a TCSS member. Mark thanked TCSS, especial the past Board, for its support to the Museum's Cactus and Succulent Garden. Mark presented a short slide report on the renovation of the C&S garden. In June of '98, he was given funding, one-third of an acre to develop a new C&S garden, and more management control. Mark walked us through the development of a new garden location, "just after Cat Canyon with a surprise entrance", showing how rocks and plants (moved once to minimize damage) were carefully removed and replaced by grouping species into habitats. The configuration of the walking path is in a figure eight. The presentation was interesting and informative. Mark stated the TCSS members will be invited to an open House that marks the opening of the new garden. A question and answer period followed with the impression expressed to Mark that, TCSS members have a stake and extreme interest in the development and management of the C&S garden. Contributions made to the Museum should be earmarked for this garden.

VP Al Coritz auctioned the raffle plants as the raffle tickets had not been brought to the meeting. Wendy Beall bought the *Aloe glauca*; *Dudleya attenuata* went home with Gail Virtes; the *Aloe clavata* with Mary Church, and the *Mammillaria rubragrandis* with Maury Clapp, totaling \$86. The door prize was won by Quent Quiner (*Haworthia* sp.).

President Clapp announced the appointments to the following committees:

Hospitality: Carol Costante and Jack Ramsey;

Refreshments: Jeff Trevas, JR Trevas;

Shows/Displays: Norma Beckman, Jerry Daharsh, and Jack Ramsey

Fund Raisers: Wendy Beall, Norma Beckman, Mary Church, Jerry Daharsh, Jack Ramsey, Dan Sims

Door Prizes: Norma Beckman

SONORAN 3: Al Coritz and Dick Wiedhopf, Co-Chairs; Norma Beckman; Carol Clapp; Maury Clapp; Lois Ladwig; Jack Ramsey; Vonn Watkins.

Standing Committees (in accordance with our bylaws):

Program: Al Coritz, Dan Birt, Lois Ladwig, Linda Ryan, (and since George and Gail Virtes had expressed a desire to help with programs it was suggested the committee make them ex-officio

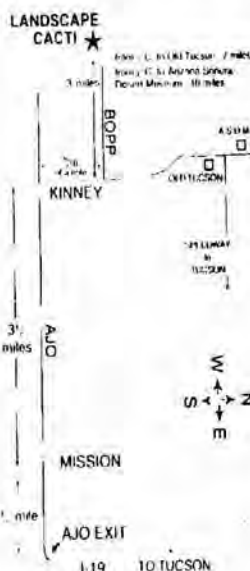
(Continued on page 14)



LANDSCAPE CACTI

JON R. WEEKS, Ph.D.

7711 W. BOPP RD.
TUCSON, ARIZONA 85735
(520) 883-0020



Jon Weeks provided the free plants for members at the February meeting: *Agave neomexicana* and *Agave victoriae-reginae*.

Notes on Diane Barker's talk to TCSS on Feb 4 1999 by Ron Fridlind, TCSS Board

The Length of Life of Agaves in Cultivation

as given in Oct '98 at the Mexico City Symposium

The Society received an enthusiastic and knowledgeable talk at the February fourth meeting from Diane Barker, an Agave Horticulturist from the Desert Botanical Garden (DBG). To we Agavaceae admirers, Diane has the dream job of watching over the plant legacy of Howard Scott Gentry at the DBG as well as having had the opportunity to present a paper at the Seventh Congress of Botany/Fourteenth Congress of Conservation of Plant Material of Latin America on Agavaceae October 18-24, 1998 in Mexico City.

In her opening remarks, Diane outlined her preparations for the trip to the Mexican capital. In the spirit of the times since she was going alone to the conference, she began by stating her three goals for her trip which were: to find an associate for safety in Mexico City, to give her presentation, and to find a person to accompany her into the field to observe agaves in their native habitat. Her safety friend turned out to be Steven McLaughlin, encountered by luck as her seat companion on his way to deliver a paper on the cultivation and use of *Hesperaloe funifera* for fine paper production at the same convention. This was the subject he discussed as a speaker at the TCSS last year. The preponderance of her slides of Mexican wildflowers resulted from her finding botanists to accompany for two days of field observation whose focus was begonias and other woody herbaceous plants instead of Agaves. She did see *A. inaequidens*, her favorite, even growing beside running water, and *A. attenuata*, in habitat.

She then gave her talk prepared for the conference entitled *The Behavior of Genus Agave in Cultivation*, a topic elicited by numerous inquiries from the public confused by the common usage of the name century plant connoting a plant living one hundred years before blooming and dying.

The DBG has eighty-one percent of the *Littaea* and ninety-four percent of the *Agave* species represented in the collection. Using planting records, she determined from a study of 433 plants that the overall average age at time of death was thirty-nine years. Graphically from her bar charts, one could see two groupings; the larger around thirty-one to thirty-six years and another smaller grouping at around fifty-one to fifty-five years. The Subgenus *Littaea* she found to have a five percent longer life on average than the Subgenus *Agave*. She then reported on more popular garden species individually giving their average death rates: *A. victoriae-reginae* thirty-six years, *A. schottii* fifty-four years, *A. chrysoglossa* thirty-four years, *A. ocahui* thirteen years, *A. lechuguilla* twenty-four years, *A. chiapensis* twelve years, *A. pelona* nineteen years, *A. americana* thirty years, *A. scabra* thirty-three years, *A. murpheyi* twenty-seven years, *A. colorata* thirty years old, *A. shawii* ssp. *goldmaniana* thirty-nine years and *A. weberi* ten years. She noted that within an individual species there could be considerable variation in age at time of blooming. In her discussion of Agave

inflorescence and reproduction, she noted the problems of wind blowing over the up to forty foot high panicle, but in the DBG propped up on sawhorses, they continue to flower and produce seed. Her measurements of an *A. victoriae-reginae* inflorescence showed as much as 4.63" increase a day, with early rapid spurts of growth, and with an acceleration of activity on warmer days. As to the old agave cliché, that cutting the emerging flower stalk staves off dying, she did offer some support noting that when inflorescences had been damaged by adjacent plant material, the plants often did not die at that occasion. She briefly addressed the problem of frost tolerance, mentioning the cold tender *A. desmettiana* which also likes shade in the desert.

Diane indicated that in cultivation in Phoenix with a recent average yearly rainfall of 9.9" per year and a yearly temperature range of 20 to 120 degrees, for the Agaves under her direct care she gives an additional six gallons of water a week in summer and six gallons of water a month in winter. Questions brought out the fact that she applies a slow release fertilizer once a month for three months in the summer together with Ironite. She used the assumption that the original age of the Agaves at DBG to be under three years of age at planting. She also responded that seed production was not studied because of the problems of cross pollination. In response to a question if only the Subgenus *Littaea* produces bulbils, she noted that *A. murpheyi* and *A. karwinskii* of the Subgenus *Agave* do and that they are always genetic clones. She graciously remained after the program to answer individual questions and to talk Agave. We appreciate Diane coming to Tucson and sharing this program and her knowledge with us. ▲

Editor's note: How refreshing it is to have a report on a talk written by someone else. Thank you Ron.

WANTED

by the Boyce Thompson Arboretum at Superior, Arizona
They are seeking a few issues of the CSSA Journals to complete their set, prior to binding.

If you have any of the following issues and are willing to sell, donate or trade them, please contact

TCSS member, "Pete" Petrie at <jpetrie@Ag. Arizona.edu> or call 689-9762

Issues sought:

Jan/Feb 1975

May/June 1976

All issues of 1978

All issues of 1979



CACTUS COWBOY'S CACTOHOLIC RAMBLINGS

Stumble out of the greenhouse, bleary-eyed from staring at cacti for hours. A howling wind roaring off the crest of the Beartooth Plateau blasts through the basin, stinging my face with a fierce cloud of snow and dust. Deep in thought now. . . how would I re-name *Echinofossulocactus zacatecasensis*? What a mess. . . we oughta spank the wise-ass who dreamed up that ridiculous name!

Nervously pulling spines out of my swollen left thumb, I burst through the doors of the Cactus Saloon. Click on 'connect'. The wild scream of the modem stabs angrily into my aching head. Bartender serves up a double shot of tequila. . . and then another. Wolf down a steaming plate full of cactus enchiladas. . . and then another. Ah yes, much better. Back to the computer. . . new messages! Here's one from California, from a friend, a fellow sufferer proclaiming: "Once a cactoholic, always a cactoholic".

And then it dawns on me. . . there really is no hope. I'm in this for life. How could I have missed the warning signs of cactoholism setting in? How could I have been so blind to the dangers when I sowed those first few innocent packets of cacti seed?

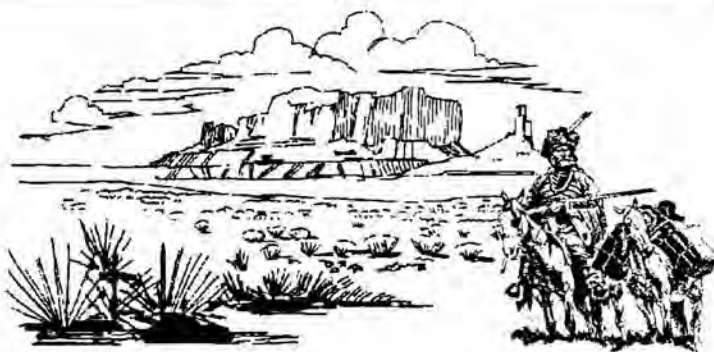
Flashback. . . my mind is playing tricks on me. I'm back in New Jersey? . . . No..Yes? Yes! Jerry's greenhouse. 1,746 Stapeliads, 618 Haworthia, 597 Echeveria, and 4,046 giant cacti. An impenetrable jungle of plants. The rancid stench of a hairy purple stapeliad flower the size of a dinner plate assaults me, gripping and turning my stomach. I groan, regretting having taken that second helping of enchiladas.

Jerry approaches. He's talking about that monster *Cereus* looming dangerously above us, the one that's 19 feet tall with 17 arms, threatening to push off the greenhouse roof once again. "Take a chainsaw to that bad boy every year and he keeps coming back stronger than ever" says Jerry. I stare at Jerry. A strong, proud and handsome man. . . yet he bears the burden of many long years of cactoholism. I look again at Jerry. . . I look at the cactus. The aging cactoholic, slowing down, losing his hair. . . The aging cactus, speeding up, growing a cephalium full of hair. I marvel at the scene before me, the wonderful balance of man and cacti.

The purplish gloom of night yields to the fiery light of dawn. Walk down the rough stone path of petrified wood, agate, and volcanic debris to the greenhouse. Another clear sunny day on the high desert of Wyoming. Gently pouring water onto a group of thirsty *Haageocereus*, I quietly say: "You and me, my spiny little buddies, we're in this together for the next 40 years, the good Lord willing".



Cactus Cowboy alias Dave Rose
1170 Del Rio Rd, Powell WY 82435



(Continued from page 12)

members.

Finance: Arnold White, Marty Harow, Jack Ramsey, Dick Wiedhopf

Library: Carol Clapp, Ron Fridlind, Mary Odette, Sara Perper

Membership: Vonn Watkins, Maury Clapp, George Nadler, Joe Costante

Reappointments announced as follows:

TCSS Web Master: Lois Ladwig

Editor of the *Desert Breeze*: Carol Clapp

Other Business: Al Coritz reported on looking into a location for SONORAN 3 Conference scheduled for 2000. It is expected that the Conference details will be able to be announced by the time of the CSSA conference in April. President Clapp said he would be entertaining suggestions for a SONORAN 3 theme and logo.

President Clapp mentioned the upcoming La Fiesta de las Flores show to be staged at the Foothills Mall on February 20-21 (check the Feb. issue of *Desert Breeze* for full details). Two tables would be available, one for the membership committee and the other for TCSS plant displays.

Also, members could enter the show featuring any single cactus or any single succulent. If interested in taking part in the show, contact Baila 825-6507, and for set-up times etc. call Maury (908-9001). Dan Birt agreed to display his "world class" Saguaro exhibit, and Tim Sos, along with Maury and Carol Clapp will also feature plants for show and/or a TCSS display.

Bobette Levy recommended a monthly piece, featuring a cactus or succulent be provided to the Tucson Visitors Bureau. It was the general feeling that the idea had merit and would fall to the Membership committee to follow up.

Show and Tell: Norma Beckman displayed a *Sinningia* that blooms in mid winter with lots of blossoms, and a second plant, *Agave* sp. a Lau discovery; and Paul Magoon spoke about a cactus which was not growing right and it was suggested he water it more frequently.

President Clapp announced a change in handling plants for the March meeting, based on the recent Membership survey to try some new and different ways of making plant material available. Members are asked to bring in quality excess plants and propagation material to swap or sell. [Plants may be cuttings, offsets - not necessarily potted. Suggest plastic/paper bags/boxes might come in handy.] Meeting adjourned at 9:40 p.m. ▲

Please use this form, or copy it, to renew your membership or start a new membership.

Tucson Cactus and Succulent Society

1999 Membership Form

Name(S) (F, Mi, Last) _____

Address _____

City _____ State _____ ZIP _____

Home telephone (_____) _____ - _____ Work telephone (_____) _____ - _____

Fax (_____) _____ - _____ e-mail _____

Life \$500 _____ Family \$20 _____ General \$15 _____ Student (18 and under) \$10 _____

New Membership _____ Renewal Membership _____

Please check here if you are a CSSA member _____

Dues run from January 1 through December 31 each year.

Please make checks payable to TCSS, and mail with completed form to:

TCSS Membership Secretary, Maury Clapp, PO Box 91560, Tucson, AZ 85752-1560



Harvesting Rainwater for Landscape Use

Patricia H. Waterfall, Extension Agent, University of Arizona Cooperative Extension/ Low 4 Program, is the author of this 40 pp booklet. She tells you how to harvest rainfall by utilizing the existing drainage patterns on your site. A maintenance check list reminds you to keep those gutters and downspouts free of debris, for example. Suggestions are given for a complex water harvesting system using the roof catchment area, storing the water and using it for drip irrigation. It is interesting to note how many gallons of rainfall you may capture per sq ft of catchment area. Other useful facts given are average monthly rainfall and expected yield per 1000 sq ft of roof for both Tucson and Phoenix, and run-off coefficients for different surfaces. There are also guidelines on constructing gutters and downspouts. This document may be ordered from the Arizona Department of Water Resources, Tucson Active Management Area, Water Conservation Specialist, 400 W. Congress, Suite 518, Tucson AZ 85701, 770-3816, fax: 628-6759. Visit their website at: <www.adwr.state.az.us>

fall by utilizing the existing drainage patterns on your site. A maintenance check list reminds you to keep those gutters and downspouts free of debris, for example. Suggestions are given for a complex water harvesting system using the roof catchment area, storing the water and using it for drip irrigation. It is interesting to note how many gallons of rainfall you may capture per sq ft of catchment area. Other useful facts given are average monthly rainfall and expected yield per 1000 sq ft of roof for both Tucson and Phoenix, and run-off coefficients for different surfaces. There are also guidelines on constructing gutters and downspouts. This document may be ordered from the Arizona Department of Water Resources, Tucson Active Management Area, Water Conservation Specialist, 400 W. Congress, Suite 518, Tucson AZ 85701, 770-3816, fax: 628-6759. Visit their website at: <www.adwr.state.az.us>



Just one of the delightful diagrams illustrating the booklet, showing you a practical way of using the rain which falls onto a garden path.

Deadlines

are

Drop Dead Dates

Desert Breeze deadline for copy is the 20th of preceding month for the following month's issue.

Please send to Editor as early as possible to ensure you get the space you want.



See page 2 for mailing addresses, fax numbers and e-mail addresses.

Tucson Cactus & Succulent Society
c/o Carol and Maury Clapp
PO Box 91560 Tucson AZ
85752-1560

Desert Breeze

Newsletter of the TCSS for March 1999

BULK RATE
U.S. POSTAGE
PAID
TUCSON AZ
Permit No: 216

85734X3404



NEXT MEETING - Thursday, March 4 at 7 P.M.

Porter Room

Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, AZ 85712



Blainey Korff
Xeriscape Butterfly Gardening

See page 3 for more details.



SHOW AND TELL: Bring one of your plants in flower.

MEMBERS: Tonight will be your chance to pass along some of your surplus plants. You may sell them or swap them, as you wish. (YOU do the selling and/or swapping.)

LIBRARY: Some of our library books will be available from 6:30 p.m. to 7 p.m.

Members may check them out, and return previous borrowings.

Refreshments by those with family names beginning with E to R.

Club will provide coffee and soft drinks

Visitors always welcome.

Desert Breeze

Volume 4, Issue 4
APRIL 1999

YOUR LAST CHANCE

28th Biennial Convention of the CSSA Las Vegas - April 11-17, 1999

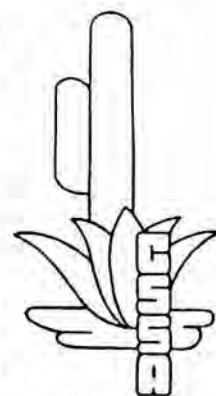
Program details and how to book your hotel accommodations were in the December 1998 issue of *Desert Breeze*. Registration forms will be available at the April TCSS meeting. Since March 15, the registration fees have been CSSA members \$215.00 and non-CSSA members \$275.00.

The mid-week tour to the **Castle Mountain Mine** is filling up fast - there is a limitation on numbers for this tour. At time of going to press there is still space available on the other three mid-week tours. And don't forget the Pre- and Post-Convention trips!

If flying by America West, ask for **CAMS CODE 6479** to get the special rates offered by that airline for this convention.

The convention hotel is the Tropicana at the junction on the Strip with Excalibur, MGM Grand and New York New York. The Luxor is next door to the Excalibur. To make room reservations at the Tropicana call 800-468-9494. Special rates for this convention are \$79.00 weekdays, \$109.00 Fri/Sat per room for up to three persons. When booking, state you are with the CSSA Convention. If you find the Tropicana is full, there is a Motel 6 on Tropicana Avenue next door to the Tropicana.

To join the CSSA (Cactus & Succulent Society of America), please ask your Affiliate Rep to the CSSA, Cactus Carol Clapp for application form and details. At the CSSA dues of only \$35.00 per annum, you can easily see how much you will save on registration fees alone. And you will then receive the excellent bimonthly C&S Journal and its newsletter. **▲**



**Come and have
fun in Las Vegas
but don't lose
your shirt.**

**You don't have
to gamble,
or even visit
the casinos,
but come
and meet other
cactus nuts at
the convention.**

See YOU there *

The Prez's Observations are on page 4 this month

TCSS Officers and Board of Directors; Board Meeting Reminder; Advertising herein	page 2
TCSS Calendar of Events; Other Societies' Events	page 3
Prez's Observations; Thelocactus - a preview; Resolutions by TCSS Board	page 4
Welcome New Members; From the Editor's Desk	page 5
Notes on TCSS March meeting; Periodical Perusal - <i>Haseltonia</i> 6	page 6
Recent publications and new books expected in '99	page 7
Appendix to March's list of 1999 members	page 8
Periodic Perusal - BCSS March Journal; TCSS Membership Application	page 9



Board Meeting Reminder

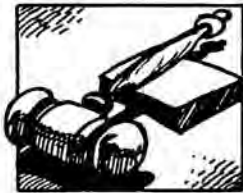
Please make a note in your calendars of the following Board Meeting dates for 1999:

May 20
June 17
July 15
September 16
October 21
November 18

All are third Thursdays in the month.

Place: College of Pharmacy, Mabel and Warren, at 7 p.m.

Officers and Directors: Please call Joe Costante or Maury Clapp if you are unable to attend any of the above meetings.



TCSS members: Any of you are welcome to sit in on board meetings. The agendas are published in the preceding issue of *Desert Breeze*, so if you have something to say about any of the items due for discussion, please get in touch with Maury Clapp or Joe Costante.

Advertising in *Desert Breeze*

It was agreed by the TCSS Board on March 18, 1999, that the *Desert Breeze* should carry advertisements.

Camera-ready advertisements should be sent to:

TCSS President, Maury Clapp,
PO Box 91560, Tucson AZ 85752-1560.

All advertisements must be received no later than the 15th of the month prior to the month of insertion. Upon approval of the content and style of the advertisement, and after verification that the advertisement complies with the Post Office regulations of no ads for Credit Cards, Insurance, or Travel Agencies, the ad will be inserted in the next available *Desert Breeze* that has space.

Current rates:

ONE ISSUE

Whole page \$25.00
1/2 page \$15.00
1/4 page \$9.00
1/8 page (business card) \$5.00

THREE ISSUES

Whole page \$65.00 for three issues
1/2 page \$40.00 for three issues
1/4 page \$25.00 for three issues
1/8 page \$14.00 for three issues

Circulation of *The Desert Breeze*:

To all members of the Tucson Cactus & Succulent Society; the President of the CSSA and Editors of the its publications; some affiliate representatives of CSSA, some newsletter editors of other affiliated clubs, surrounding societies, all Tucson libraries, Visitors Bureaux, various local media, and others at the discretion of the publisher.

Tucson Cactus & Succulent Society

Founded 1960

OFFICERS AND BOARD 1999

PRESIDENT: Maury Clapp 908-9001
VICE-PRESIDENT: Al Coritz 682-8333
SECRETARY: Joe Costante 825-2357
TREASURER: Arnold White 577-1348

BOARD OF DIRECTORS:

(terms expire December 31 of year indicated)

Immediate Past-President: Richard Wiedhopf 885-6367

Marty Harow 1999	George Nadler 1999
Mary Odette 1999	Sara Perper 1999
Dan Birt 2000	Lois Ladwig 2000
Jack Ramsey 2000	Ron Fridlind 2001
Linda Ryan 2001	Vonn Watkins 2001

AFFILIATE REPRESENTATIVE TO CSSA:

Carol Clapp (520) 908-9001

e-mail: kitfox@azstarnet.com



Desert Breeze EDITOR:

Carol Clapp

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PO Box 91560

Tucson, AZ 85752-1560

The *Desert Breeze* is the Newsletter
of the Tucson Cactus & Succulent Society.

Please send your copy by the 20th of the
month preceding the following month's issue
to the Editor.

TCSS Web Page

<http://www.desertcactus.com/tcss/>

TCSS WEBMASTER: Lois Ladwig

e-mail: lois@desertcactus.com

Check our web site for TCSS activities and read the
archive section of summaries of talks we've had.

If you want to know

If any of our readers want to know more about any
of the articles in this issue, or how to join any
society mentioned herein, or where to obtain any
of the books mentioned, please feel free to get in
touch with the Editor, contact points in panel
above.

TCSS Calendar of Events

Meetings are usually held on the first Thursday of the month at the Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, at 7 pm. We have a break for light refreshments half way through the meeting.

Apr 1 at 7 p.m. *Thelocactus* by Matt Johnson

The genus *Thelocactus*, with about a dozen species and several varieties, is found from central Mexico to Texas. This relatively small genus presents a considerable diversity of form, spination, and flower color. These plants are easy to grow and are tolerant of the rigors of Tucson's climate. Many produce showy flowers over a period of six months or more.

Matthew B. Johnson began growing cacti when he was five years old. He obtained his B.S. in Agriculture (major: Horticulture) and M.S. in Horticulture from The University of Arizona. For the past ten years, Matt has been working with legumes. Currently he is Program Manager, Curator, and Botanist for the Desert Legume Program, a joint project of The University of Arizona College of Agriculture and the Boyce Thompson Southwestern Arboretum. This work has enabled him to travel on six continents to observe and photograph plants in dry regions. He is the author of over 50 articles on the horticulture and botany of arid climate plants.

Previously to the legume project Matt was Grounds Curator at Tohono Chul Park from 1983 to 1987. He has been a member of the Arizona Native Plant Society since 1981 and is a past president of the Tucson ANPS Chapter. He is also a long-standing and active member of the TCSS. [For notes on the genus *Thelocactus*, see next page.]

Apr 17 Tour of B & B Cactus Farm. 9 a.m. Meet at the nursery at 11550 E. Speedway Blvd., Tucson. If you arrive early Karen Mott will be happy to get you started on browsing their displays and offerings.

May 6 Basic Cultivation of Cacti by Mark Sitter

June 3 Regina Reed Rodgers on her Baja Travels (tentative)

July 8 Breck Breckenridge on Gasterias (tentative)

Other TCSS dates for your 1999 calendar are:

August 5,
September 2,
October 7,
November 4, and our
Christmas Party on
Sunday December 12.

Spring 2000
Sonoran 3, Tucson



Other Societies' Events

We strongly recommend everyone check dates, times and venues before travelling a long way to any of the events listed below. Changes sometimes occur at the last minute.

**Apr 11-17
Apr 18**

CSSA Convention, Las Vegas

Landscaping with Cacti, Jon Weeks of the Landscape Cacti Nursery, Tucson. 2 p.m. Desert Botanical Garden, Phoenix

Apr 22-24

San Antonio Cactus & Xerophyte Society Show and Sale, Central Park Mall, San Antonio, TX. 10 a.m. to 9 p.m. Info from Claude Townsend 210-655-8959 or e-mail chtownsend@aol.com

May 1-2

Sunset Succulent Society Show and Sale Veterans' Memorial Bldg., 4117 Overland Ave., Culver City, CA. Note that there is usually a concurrent Bromeliad Show in an adjoining area of the building.

May 8 & 9

Cactus & Succulent Society of Southern Nevada Sale and Show. Contact Clem Goewert on <cgoewert@worldnet.att.net>

May 8 & 9

San Jose C&S Society Show and Sale at the Buchser Middle School in Santa Clara - note this is a new venue which is easily accessible from the I-830. Call Bill Kurtz on 408-243-3692 for more details.

May 15 & 16

Annual Plant Sale at Huntington Botanical Gardens, San Marino, CA. 15th for members only, 16th for massing crowds! Call 626-405-2160 or 2277

May 15 & 16

Fresno C&S Show and Sale at the Manchester Center, Fresno. Contact TCSS member, Sue Haffner on 209-292-5624 or at <sue_haffner@csufresno.edu>

June 5 & 6

San Diego C&SS Show and Sale Balboa Park - Room 101.

Call (619) 477-4779 for more information.

July 3 & 4

CSSA Show and Sale at the Huntington Botanical Gardens, San Marino, CA. Entries for show to arrive on prior Thursday and be from members of societies affiliated to CSSA only. (Tucson C&SS is an affiliate of CSSA, so our members may enter.)

July 17-24

Henry Shaw Cactus Society, St. Louis Show and Sale, Missouri Botanical Garden
Huntington Symposium, San Marino
More details in later *Desert Breeze*.

Sept 4

2000

April 8

Spring ?

June 9-11

Aug 25-27

CSSA Field Trip to Big Bend in Texas
South-Eastern Conference in Florida
Mid-West Conference
Eastern Regional Conference

Prez's Observations

Wow! What a busy month ahead. TCSS general meeting April 1, CSSA convention in Las Vegas April 11 through 16 and the B&B Nursery tour on April 17. Either I'd have to miss the convention closing banquet, give up sleep Friday night or charter a jet to get back in time for the B&B tour. At my age giving up sleep is not an option, and chartering a jet is not in the budget. Since the closing banquet is the last chance to visit with friends from around the world, I will not be joining you for the B&B tour but will be looking for several of you at the convention.

Did you have fun trading plants at the last meeting? From my observations there was a lot of interaction among members, but there seemed to be confusion as to which plants belonged to whom. One could not see what was available and watch their own plants at the same time. Next time we have member sales we'll try to get a little more structure into the process. Watch for details in the *Desert Breeze*. I would like to have your comments also; jot them down and put them in the suggestion jar at the next meeting. For this month we will have FREE plants again for members who are present at the meeting. Guests and members may purchase surplus plants at \$1.00 each.

I should be out transplanting last year's seedlings but that will have to wait till I get the water line in for the new house. Sounds like I better close here, get into my work clothes and get [that pipe] laid.

See you April Fool's day for another great meeting.

Maury Clapp
TCSS President

Thelocactus - the subject of April's meeting

To help prepare for the April meeting when Matt Johnson will be speaking about *Thelocactus*, here is a little information about this genus which may familiarize you with some of the names you will be hearing. Firstly, a few words from Backeberg's *Cactus Lexicon*.

"*Thelocactus* (K. Sch.) Br. & R. (199)

Plants spherical to elongated, with distinctly tuberculate ribs, mostly with stouter spination; spines sometimes brightly coloured (white, yellow, red or brown), or roughened and fibrous, sometimes subulate, the centrals in some cases flattened, flexible and longer. The areoles bearing the spines carry an extension, usually called a "long areole", from which the white, yellow or red and very attractive flowers arise; the latter and the fruits are scaly but otherwise glabrous. Some species offset from the base or even from the areoles, and three species show great variability. The seeds are predominantly black; in one case only, so far as known, they are dark brown, but they are probably always matt and never very small. Distribution: USA (Texas) to Mexico (from the N. frontier to Querétaro, but not in Baja California)."

Species listed by Backeberg include the following: *Thelocactus bicolor*, *bueckii*, *conothelos*, *ehrenbergii*, *flavidispinus*, *hastifer*, *heterochromus*, *hexaedrophorus*, *krainzianus*, *leucanthus*, *lloydii*, *lophothele*, *nidulans*, *phymatothelos*, *rinconensis*, *saussieri*, *schwarzii*, *tulensis*, and *wagnerianus*. Some of these species also have varieties. John Pilbeam in his more recent book *Thelocactus*, The Cactus File Handbook No: 1, also lists *Thelocactus macdowellii*.

Early this century, prior to Backeberg's publication, Britton and Rose defined *Thelocactus* as "having an ovary more or less scaly, flower campanulate with short tube, none of spines hooked, tubercles not deeply grooved; fruit scaly." They listed only 12 species, some of which have since been reclassified by Backeberg et al.

Enjoy Matt's talk on April 1.

Cactus Carol

Resolutions passed at TCSS Board Meeting on 18 March 1999

1. "To accept advertising for the *Desert Breeze* by invitation only and that the rates be established annually by the Board of Directors."
2. "That the board accept the budget as proposed as a tentative budget and then have rules for adjusting the budget from meeting to meeting."
3. "That the library committee compile a list of books for sale or auction and submit it at the next board meeting."
4. "That TCSS Library books be loaned out only to members in good standing and borrowing should be for one month. If not returned in one month, a postcard to be sent as a reminder to borrower requesting return of book(s) at next meeting."
5. "That the library committee develop guidelines and procedures for selling and purchasing books, which will be brought before the next board meeting for final approval."
6. "That if unused volumes in the library are liquidated, then the assets should go into the library budget rather than the general operating fund."
7. "That the treasurer be authorized to issue a check in the amount of \$20.00 for a subscription to *Desert Plants*, volume 15."
8. "That the letter prepared by membership committee chair be sent to all appropriate newspaper and magazine editors and television companies."
9. "That the membership committee contact all nurseries for their discount information and offer a listing of such discounts in the *Desert Breeze*, so members may take advantage, and to talk with nurseries about displaying our brochures."
10. "That TCSS should develop an award system for a membership recognition program, and for those who have made significant contributions over time."
11. "That April 15 be the cut off date for renewals for dues to TCSS."

From the Editor's Desk

Some of us are already looking forward to being in Las Vegas again at the 1999 CSSA Convention. There is still time for you to make reservations if you don't want to be left out. See front page of this issue.

The Cactus Club Killings, a novel by Nathan Walpole, president of the Sunset Cactus Society, is due to reach the bookstores on May 11, 1999. Having corresponded with Nathan in some of the CSSA Round Robins, I plan to get a copy. This book will be followed by others featuring Nathan's sleuth, Joe. If you want to contact Nathan, his address is 4154 Commonwealth Ave, Culver City, CA 90232.

E-mail addresses:

You may notice that a large percentage of our members now have e-mail (electronic mail). Often we list e-mail addresses as contact points within the *Desert Breeze*. We realise that not all members have access (nor wish to) to e-mail so we try to list telephone numbers also as a means of contact where possible.

The First Congress of Latin American and the Caribbean Countries and the Second Mexican Congress of Cacti and other Succulent Plants - 26 to 30 Oct '99, Oaxaca, Mexico:

Mexico is one of the top four nations with the largest biodiversity in the world. Its southern state of Oaxaca has the greatest number of plants, mushrooms and animals. By the endemism of its phanerogamic flora (family of plants with reproductive organs) it has about 66 genera and 850 cacti species, 45% of the total in the world. Of the 288 known species in the family Agavaceae, 52 species grow in Oaxaca.

The objectives of this Congress are to learn about the advance in the knowledge of cacti and current studies which are in progress. It is open to anyone involved with scientific research through hobbyists devoted to succulent plants.

If you would like to submit a paper for presentation, the deadline for receiving submissions is May 15th.

Details of how to participate in this exciting Congress may be obtained from:

Gladys Isabel Manzanero Medina (CIIDIR-IPN-OAXACA)

e-mail: gmanzanero@vmredipn.ipn.mx

Tel/Fax: 951+706 10 & 704 00

A.postal 3-346 CP 68101

Oaxaca, Mexico.

CSSA memberships

The TCSS has at least 42 members who are also members of the CSSA, plus a number of associate members. This is based on those members who checked the CSSA box on the renewal forms. I am sure there are many more. I doubt if we could ever

Welcome New Members

(In order of joining)

Shoshana Green, Tucson	571-1843 shoshana@u.arizona.edu
Rudy Smith, Green Valley	625-6006
David Richter, Tucson	299-5750 dric@azstarnet.com
Dick and Sue Hildreth (F)	801-943-4845 wrhild@inconnect.com
Sandy, Utah	
Allen David and Lorna Stowe Wells (F), Tucson	322-0277
Kent and Annette Knight (F) Tucson	722-0449 Tenknife@aol.com



reach 100% membership of the CSSA among our membership, but we could aim for nearly 100%. All societies get some new members who are members for only one year, and those would be unlikely to subscribe to the CSSA.

New TCSS Memberships

It is pleasing to note that we have welcomed 25 new members in the first 75 days of 1999 to our Society. We now have 155 members paid for 1999. If everyone turned up to the same meeting, it would be a little bit crowded, but we'll deal with that if and when it happens. It really is good to see new faces with all their fresh ideas. Societies evolve over the years and we sure are going through some changes now with our increased numbers.

And now with Library hat on...

Please call me if you wish to borrow books from our library. A few lists were available at the last meeting, but if you have a request even if you haven't seen the list, please ask - you never know, we may have a copy or two in the library.

It was agreed by the board at the March board meeting "That TCSS library books be loaned out only to members in good standing and borrowing should be for one month. If not returned in one month, a postcard to be sent as a reminder to borrower requesting return of book(s) at next meeting."

Some of the books have been withdrawn from circulation pending repairs. These include those with broken spines (3), and those awaiting their dust jackets covered (53) to prevent further deterioration. The library committee members of Ron Fridlind, Mary Odette and Sara Perper and me are working on getting this work done as quickly as possible. Some books, chosen randomly, will be brought to each meeting for you to peruse or borrow.

Cactus Carol



Notes on TCSS Meeting on March 4

Our numbers are increasing. We had 45 members and friends at the March meeting. And what a success our first plant table was! Plants were sold, some were swapped and some were given to other members. The trading was brisk. There were big potted specimens of agaves and penstemons, cuttings of portulacae, and lots of other plants, so most attendees went home with at least one new plant. The Library was there with a selection of our library books - some were returned from previous borrowings, and some were taken home by new borrowers. We hope that members will get used to having some library books at each meeting and take advantage of this valuable part of being a TCSS member.

It was lovely to welcome some new members to this meeting, some joined at the meeting, and some came as a result of our display at the Tucson Garden Club's Flower Show at the Foothills Mall recently.

Margaret Pope introduced the speaker Blainey Korff who gave her presentation on butterflies. Blainey showed slides of butterflies in all their stages of life, from egg to butterfly. One interesting point was that the caterpillars of a species will need to feed on a different plant from the butterfly of the same species. Her slides showed butterflies which we are likely to see in this area. Talks on related topics involving our cacti are proving popular with members, just as the talk on bats did last fall.

Show and Tell: It was great to have a newly joined member at his first meeting talk about the plant he had brought along to share with everyone. Alan Wells told us about his scilla, adding that his wife Loren, who also joined with Alan, is really the plantsman in the family.

The raffle plants were won by Norma Beckman (*Mammillaria montensis* and *Mammillaria klissingiana*), Lois Ladwig (*Aloe glauca*), and Jack Ramsey won the boojum (*Fouquieria columnaris*). The door prize was won by Linda Ryan (*Monadenium nova*).

Mark Sitter spoke about the Agave weevil and how important it is to get rid of it before it has decimated your agaves. Members were most interested in seeing the sample of the beetle which Mark brought in a sealed glass jar.

A new Butterfly Club

TCSS Member Gene Loring is in a group forming a new club for people interested in butterflies. This club will also include talks on butterfly gardening.

If you'd like to know more, call Gene on 625-8109.



Periodical Perusal

Haseltonia Number 6

Haseltonia is the botanical annual of the Cactus and Succulent Society of America. No. 6 is due to be published late in April. The contents are as follows:

Notes on the genus Blossfeldia in Argentina, by B. Leuenberger & U. Eggli.

A new cholla from Baja California, by Jon Rebman.

A new Plectranthus species from north-eastern Queensland, Australia, by Paul Forster.

Stem-surface sculpture: a potentially valuable character in some cacti as shown by a survey of stem microstructure, by Hugh Glen & David Hardy.

A new stem-succulent euphorbia from Mexico, by Victor Steinmann & Angelica Ramirez-Roa.

Notes on Archer's (1992) Kenya Ceropegia Scrapbook, by Patrick Masinde.

Third generation experimental hybrids in the Echinocereus x lloydii complex, by A. Powell.

The effectiveness of two bat species as pollinators of two species of columnar cacti on Curaçao, by Sophie Petit.

Propagation of Mammillaria candida by tissue culture techniques, by Miguel Angel Elias-Rocha, Maria del Socorro Santos-Dias & Alberto Arredondo-Gomez.

Chromosome numbers in some cacti of western North America --VII, by Donald Pinkava, Jon Rebman & Marc Baker.

Chromosomes and hybrids of Echeveria VI. Series Angulatae and Pruinosae, by Charles Uhl.

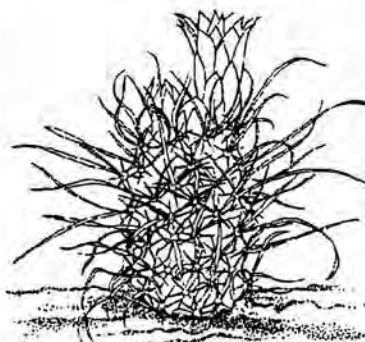
Ethnobotany of Stetsonia coryne, the "Cardon" of the Gran Chaco, by Pastor Arenas & Gustavo Scarpa.

Some of the above titles have been modified to avoid printing unpublished names.

Haseltonia 6 will be about 115 pages long. Copies are \$30 postpaid in the USA; for foreign orders, add \$2 for postage or \$8 for air-mail. Orders should be sent to:

CSSA Treasurer, Mindy Fusaro,
PO Box 2615, Pahrump NV 89041-2615, USA.

Myron Kinnach, Managing Editor of *Haseltonia*



Toumeyia papyracantha

Recent Publications And New Books Expected To Be Available In 1999

Notes on Haworthias

Compiled by Stephen Holloway from articles with black/white pictures published by J.R. Brown from 1934-1974 in the C&SJ and Desert Plant Life. 219pp + card cover. 500 copies only being published worldwide. \$27 inc. p&p. Available Jan '99.

New Pachypodium & Adenium Handbook by Gordon Rowley. The Cactus File Handbook No: 5. 80pp 109 full color photos, 39 distribution maps. 25% larger format than earlier Cactus File Handbooks. Special price to April 30, £23.00 inc. shipping; from May 1, + £2.00. Fax: +44 1703-893348 \$49.95 after May 1. Available April '99.

Mammillarias by John Pilbeam. Cactus File Handbook No: 6. Updated and totally expanded version of Pilbeam's earlier work long out of print. All species in full color. Distribution maps and collection numbers. 350 pp. 7" x 10 1/2", hardbound. Probably about £45.00. Sept '99.

Ferocactus by John Pilbeam and Derek Bowdery - another Cactus File Handbook. Expected late 1999.

Mesembs of the World by Gideon Smith et al (inc. Steven Hammer and B.E. van Wyk) Similar type production to van Wyk's Aloes which is proving to be a popular book. A Briza publication also from the National Botanical Institute of South Africa. 701 color photos. \$59.95. Scientific key, identification key, cultivation and distribution of mesembs. Available now.

Haworthia Revisited - a Revision of the Genus by Bruce Bayer. This third book on Haworthias by Bruce Bayer will fill a large gap in available literature. This is a major revision of the genus. Has one section "cultivation, propagation and plant health" written by Steven Hammer. ~450 color illustrations, 20 habitat photos, distribution maps. £41.00 inc. shipping. Or \$59.95US. Was due March, but put back to May.

From Haworth to Haworthia. Produced in English by the Haworthia Society, this is the brochure of the Zurich City Botanical Gardens six-monthly display. Contributors were Bruce Bayer, Urs Eggli, Ernst van Jaarsveld, G. Smith and D. Supthut. Starting in the 17th century, the development of the genus Haworthia and related genera is outlined and discussed. It considers the part played by Holland in the collection and study of plants from South Africa followed by that of England after they took over control of South Africa from the Dutch. A summary of Haworth's life is included. Color photos and line drawings. 24pp. £6.50 inc. shipping or £7.00 by air. Or \$12.95US. English edition ready now.

Lithops - by Steven Hammer. Guide to cultivation. Includes new cultivars, habitat photos. Historical data, chronology of species, descriptions of all taxa and descendants. Nearly 200 color photos, b/w drawings and a map. 120pp softbound. ~\$29.95. Late April '99.

Echinocereus - edited by Lino Di Martino. A supplementary volume to the quarterly journal of the Cactus & Co. International Society. 114pp with masses of color photos. A 'must-have' for Echinocerei enthusiasts. \$23.95. English/Italian. Was first available in 1998 but listed here by popular request.

Cactus & Succulents - A Care Manual by T. & S. Mace \$19.95. Ideal for those just starting in the hobby, really spells everything out. Many pictures. Available now.

Cacti by Terry Hewitt. Good book for beginners who need basic information. 64pp 160 color photos \$9.95. Available now.

Succulents by Terry Hewitt. Another good book for beginners with basic information. 64pp 146 color photos. \$9.95. Available now.

The Ultimate Book of Cacti & Succulents by Miles Anderson. Similar in form to Terry Hewitt's book, but with more caudiciforms and hardiness information in Fahrenheit applicable to Tucson area, and elsewhere in US. 254 pp. Over 1000 color photos. Should appeal to all levels of expertise. All you need to know about identifying, buying and cultivation of cacti and succulents. Normally \$34.95 but special price to TCSS members. Available now from Miles Anderson.

We surveyed members at our last meeting as to which books might be of the most interest to them. Books on Mammillarias always top the list with those on general cacti and succulents such as Miles Anderson's new book, followed by those on caudiciform plants and monographs. And no one was interested in *The Cactus Club Killings*! If you need help locating a supplier of any of the above books, please call Cactus Carol on 908-9001 or e-mail her on kitfox@azstarnet.com, or contact your usual bookseller. Note that we now have four booksellers among our memberships - Brooks Books 925-672-4566, Mary Odette Books 520-749-2285, Rainbow Gardens 760-758-4290, and Strawberry Press 415-388-5017.

Appendix to TCSS Roster in March's *Desert Breeze*

Key: F = Family membership (\$20), others are single memberships (\$15).

Members in the Tucson postal areas of 856 and 857 (Area code 520)

Miles and Janice Anderson (F)	CSSA	682-7272		miles2C@aol.com
Miles' To Go				
William H. Aymard and Barbara Eiswerth-Aymard(F)		327-9833		
Dan and Diane Bach (F)	CSSA	744-3333		
Bach's Cactus Nursery, Inc.				
Robbin and Donna Baza (F)	CSSA	293-5968	293-4379	kingbaza@azstarnet.com
Linda Burback	CSSA	647-3200	751-1389	LBURBACK@aol.com
		wk: 751-1481		
Mark Dimmitt		743-7326		markdim@azstarnet.com
		wk: 883-3008		
Richard Dulaney		743-3984		
		wk: 883-2702		
Dave and Susan Gallaher (F)		299-9430		dgallaher1@compuserve.com
Shoshana Green		571-1843	571-1843	shoshana@u.arizona.edu
William and Betty Hurt (F), Green Valley	CSSA	625-5104		BBB666AZ@juno.com
Matthew B. Johnson		749-2547		delep@juno.com
Desert Legume Program		wk: 318-7047		
Barbara Ann Kile		744-9370		bkile@sprintmail.com
Kent and Annette Knight (F)		722-0449	318-2910	Tenknite@aol.com
Chris Marshall	CSSA	743-0746	575-4943	
		wk: 575-4910		
Glenn and Mary Miller (F)		797-3370		GHMILLER@msn.com
Chris Monrad		?		hpytls@azstarnet.com
Laurinda Oswald, Amado	CSSA	398-2883		
Art Pacheco III		744-6240		plantdr@email.msn.com
David A. Palzkill		792-4246	792-4246	palzkill@azstarnet.com
James and Beverly Pickering (F)		888-5870		JAMESICUS@aol.com
Meg Quinn	CSSA	624-7331	324-0166	megquinn@juno.com
Tucson Botanical Gardens		wk: 326-9686		
David S. Richter		299-5750	529-0447	dric@azstarnet.com
		wk: 529-8565		
Rudy Smith, Green Valley		625-6006		
Bob Webb and Toni Yocum (F)		743-9009		rhwebb@azstarnet.com
		wk: 670-6821		
Allen David and Lorna Stowe Wells (F)		322-0277		
		wk: 795-4130 (Lorna's)		
Members in Arizona, outside Tucson postal area				
Jim and Electra Elliott (F), Chandler	CSSA	602-732-0307	602-732-9315	fuggarwe@aol.com
Arizona Cactus Sales		wk: 602-963-1061		www.arizonacactussales.com
Curt Hamann, Paradise Valley		602-957-4045		hamann@smarthealth.com
		wk: 602-225-0595 Ext.202		
Members beyond Arizona				
Dick and Sue Hildreth (F)		801-943-4845	801-943-4845	wrhild@inconnect.com
Sandy, UT		wk: 801-265-4926		
Ellen S. Low, Simi Valley, CA		805-527-3025		



Happy Easter, Folks



Please use this form, or copy it, to renew your membership or start a new membership.

Tucson Cactus and Succulent Society — 1999 Membership Form

Name(S) (F, Mi, Last) _____

Address _____

City _____ State _____ ZIP _____ - _____

Home telephone (_____) _____ - _____ Work telephone (_____) _____ - _____

Fax (_____) _____ - _____ e-mail _____

Life \$500 _____ Family \$20 _____ General \$15 _____ Student (18 and under) \$10 _____

New Membership _____ Renewal Membership _____

Please check here if you are a CSSA member _____; and tell us of your special interests in growing cacti _____

Dues run from January 1 through December 31 each year.

Please make checks payable to TCSS, and mail with completed form to:

TCSS Membership Secretary, Maury Clapp, PO Box 91560, Tucson, AZ 85752-1560

And how can you help in our club? _____

Periodic Perusal Continued . . .

British Cactus & Succulent Journal

The March '99 issue of the *British Cactus & Succulent Journal* contains:

My way with haworthias by Tom Jenkins - discussing the best way to grow these plants in full sun to achieve the best colouration.

The 1999 ISI plant offering by Harry Mays - details of some of the interesting plants offered on the new ISI list.

Mammillarias in abundance by John Pilbeam - a discussion of the myriad of names published by Werner Reppenhagen.

Pierrebraunia - A new genus for an interesting Brazilian cactus by Rene Zahra - lots of information on this new and interesting plant which is becoming more widely available in cultivation.

Echinocereus knippelianus in habitat by Peter Berresford and Paul Hoxey - a visit to the habitats of two subspecies of *E. knippelianus*.

A new subspecies of Pilosocereus chrysostele by Pierre Braun - the description and formal publication of a new subspecies of this Brazilian species.

Trade in the seed of protected and endangered succulent plants by Bill Maddams - a report on the latest developments in the trade of CITES 1 listed species.

The search for hardy succulents, Part 5 by Gordon Rowley - this instalment covers hardy opuntias.

Miscellaneous observations on a visit to Baja California by Harry Mays - unusual observations on a trip to Baja after a devastating tropical storm had passed through.

Re-establishing Aloe suzannae in Madagascar by Gideon Smith and Priscilla Swartz - an update on the conservation project to save the endangered *Aloe suzannae*.

Selenicereus flowers by Tony Mace - the mass flowering of *Selenicereus* following severe pruning.

Also included are the usual features of book reviews, abstracts from other succulent journals, and readers' letters. This issue also includes an extensive listing of secondhand books. The BCSS is offering to its members by postal auction an extensive listing of duplicate books from its library. The list contains many rare and hard-to-find titles. These books are available only to members of the BCSS, and the list will not be published elsewhere.

For further details of the BCSS, including an on-line ordering/subscription facility, visit our web site on the cactus mall <<http://www.cactus-mall.com/bcss>>

David Neville BCSS Editor



Tucson Cactus & Succulent Society
c/o Carol and Maury Clapp
PO Box 91560 Tucson AZ
85752-1560

Desert Breeze

Newsletter of the TCSS for April 1999

BULK RATE
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NEXT MEETING - Thursday, April 1 at 7 p.m.
(TCSS Library opens at 6.30 p.m.)

Porter Room

Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, AZ 85712

See page 3 for more details.

Thelocactus by Matt Johnson

SHOW AND TELL - If you can bring along a Thelocactus that would be a fine complement to Matt's program. Otherwise, bring any cactus or succulent you would like to show off.

PLANT TABLE - Free plants for attendees at this meeting.

Refreshments by those with family names beginning with S to Z and A to C.
Cookies, chips, finger food, etc. — Club provides coffee and soft drinks.
Visitors always welcome.

Desert Breeze

MAY 1999

Volume 4, Issue 5

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2000 AD

May 5, 6 and 7

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NOW



Your President's Message

Hope you all had a good Easter weekend, whether or not you celebrate the event. Carol and I awoke to a rainy dismal day; but then the rain turned to snow and the excitement started. Out came the cameras to get pictures of snow on the cactus for use on our next Christmas card. Dreaming of a white Christmas is not a Tucson preoccupation and snow on Easter Sunday, well . . .

Carol and I just returned from a super CSSA convention where we visited with friends from around the world, saw some of the most fantastic 3D photographs of cacti you could imagine and listened to many interesting talks relating to our hobby. Also found time to walk through a few of the new hotels that have been built since our last visit to the Glitter Capital of the World, but didn't put as much as a single quarter in a slot machine. TCSS was represented by seven members. Since we were driving back from Las Vegas Saturday we didn't get to join with the twelve members who went on the B&B Nursery tour but understand that a great time was had by all.

At the last Board meeting we refined the process by which we decide whether to have free plants or member sales at

Congratulations Mark Dimmitt

At the CSSA Convention in Las Vegas, the CSSA President Larry Mitich presented Mark Dimmitt, with the CSSA Friend Award for his work at the Arizona-Sonora Desert Museum and with succulent plants. We are proud to have Mark as a member of the Tucson Cactus & Succulent Society and greatly admire his skills in producing such beautiful Adenium hybrids and hybrid cacti too.

meetings. When we have a talk on a specific genus we will try to have free plants of that genus. When we have a talk on a general subject we'll have some form of member plant sales. Since our May meeting is on basic cultivation we will have member plant sales as part of the meeting. See the instructions for preparing your plants for the sale on page 3.

Maury Clapp

Is this the last issue of your trial subscription?

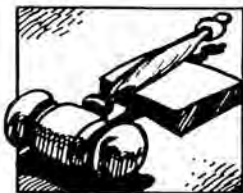
If you signed up for the free 3 months of *Desert Breeze* at the Foothills Mall Flower Show in February, this is your final issue unless you are one of those who have since joined the TCSS. If you would like to become a member of the Tucson Cactus & Succulent Society, Inc. and continue to receive this publication, there is an application form on page 11. You will be welcome!

Business Page: Advertising in <i>Desert Breeze</i> ; Board Meeting dates; Copy Deadlines	page 2
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Board Meeting Reminder

Please make a note in your calendars of the following Board Meeting dates for 1999:

May 20
June 17
July 15
September 16
October 21
November 18



All are third Thursdays in the month.

Place: College of Pharmacy, Mabel and Warren, at 7 p.m.

Officers and Directors: Please call Joe Costante or Maury Clapp if you are unable to attend any of the above meetings.

TCSS members: Any of you are welcome to sit in on board meetings. The agendas are published in the preceding issue of *Desert Breeze*, so if you have something to say about any of the items due for discussion, please get in touch with Maury Clapp or Joe Costante.

Advertising in *Desert Breeze*

Camera-ready advertisements should be sent to:
TCSS President, Maury Clapp,
PO Box 91560, Tucson AZ 85752-1560.

All advertisements must be received with check payable to TCSS no later than the 15th of the month prior to the month of insertion. Upon approval of the content and style of the advertisement, and after verification that the advertisement complies with the Post Office bulk mail regulations of no ads for Credit Cards, Insurance, or Travel Agencies, the ad will be inserted in the next available *Desert Breeze* that has space.

Current rates:

ONE ISSUE

Whole page \$25.00
1/2 page \$15.00
1/4 page \$9.00
1/8 page (business card) \$5.00

THREE ISSUES

Whole page \$65.00 for three issues
1/2 page \$40.00 for three issues
1/4 page \$25.00 for three issues
1/8 page \$14.00 for three issues

Circulation of *The Desert Breeze*:

April's mailed circulation was 249 copies. Mailed to all members of the Tucson Cactus & Succulent Society; the President of the CSSA and Editors of its publications; some affiliate representatives of CSSA, some newsletter editors of other affiliated clubs, surrounding societies, all Tucson libraries, Visitors Bureaux, various local media, and others at the discretion of the publisher.

Tucson Cactus & Succulent Society

Founded 1960

OFFICERS AND BOARD 1999

PRESIDENT: Maury Clapp 908-9001
VICE-PRESIDENT: Al Coritz 682-8333
SECRETARY: Joe Costante 825-2357
TREASURER: Arnold White 577-1348

BOARD OF DIRECTORS:

(terms expire December 31 of year indicated)

Immediate Past-President: Richard Wiedhopf 885-6367

Marty Harow 1999	George Nadler 1999
Mary Odette 1999	Sara Perper 1999
Dan Birt 2000	Lois Ladwig 2000
Jack Ramsey 2000	Ron Fridlind 2001
Linda Ryan 2001	Vonn Watkins 2001

AFFILIATE REPRESENTATIVE TO CSSA:

Carol Clapp (520) 908-9001
e-mail: kitfox@azstarnet.com



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PO Box 91560
Tucson, AZ 85752-1560

The *Desert Breeze* is the Newsletter of the Tucson Cactus & Succulent Society.

Please send your copy by the 20th of the month preceding the following month's issue to the Editor.

TCSS Web Page

<http://www.desertcactus.com/tcss/>

TCSS WEBMASTER: Lois Ladwig
e-mail: lois@desertcactus.com

Check our web site for TCSS activities and read the archive section of summaries of talks we've had.

Deadlines for Copy to Editor

Advertisements — 15th of month preceding month of issue
Articles — 20th of month preceding month of issue

TCSS Treasurer's Report

As at April 1, 1999:

Checking account:\$1052.00
Savings account:\$1855.00
Total:.....\$2907.00

Arnold White, TCSS Treasurer

TCSS Calendar of Events

Meetings are usually held on the first Thursday of the month at the Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, at 7 pm.
Note: Library opens at 6.30 p.m.

May 6 at 7 p.m. Practical Demonstration of Cultivation

by Mark Sitter. When you take a new plant home, do you sometimes wonder what to do with it? Should it be repotted? What soil mix should I use? Should it be put in the full sun? Mark hopes to alleviate your concerns and make you feel comfortable with your new acquisition. His talk will focus mainly on the summer-growing cacti and succulents in pots, and guide you on their basic requirements of feeding, watering, light and pests, and transplanting from pot to pot. Mark takes care of the plants at the Ironwood Gallery, the Mojave Desert Exhibit and the Cactus Garden at the Arizona-Sonora Desert Museum. He has been growing desert plants for over 15 years and particularly enjoys *Ferocactus*. Come! Enjoy and Learn.

Marty and Barbara Harow will be bringing the soft drinks. The club will provide the coffee. Refreshments by those with family names beginning with E through R. (Cookies and other finger food.)

Members' Plant Exchange: Following our trial run of members' plant sales/swap we will try to add a little structure to this month's sale. Bring each plant with TWO labels in the pot. One label to have the plant name and the other to have your name or nursery name and the price. Place the plants on the designated table upon your arrival. When the sale starts, the club will provide a cashier who will pull the price label and collect for the plants. Following the meeting, sales will be tallied by cashier and the proceeds, less 25%, distributed to the seller. If you don't feel like hanging around after the meeting you can collect your cash at the next meeting. The club will pay the sales tax from its 25% and the remainder will be used to augment our sagging treasury. So bring along those surplus progeny of your favorite plants and pass them along to other members.

June 3 The Baja Travels of Regina Reed Rodgers AND a mystery author and book signing. Bobette and Sidney Levy will be bringing the soft drinks. Refreshments by S-Z and A-D. Members' Plant Sales on this occasion.

July 8 Gasterias by Breck Breckenridge.

Free plants for members who attend meeting in exchange for the return of their name badge as they depart the meeting. Refreshments by E-R

Other TCSS dates for your 1999 calendar are:

August 5, September 2, October 7, November 4, and our Christmas Party on Sunday December 12.

2000 AD May 5, 6 & 7 Sonoran 3, Tucson

Welcome New Member

Greg Corman, Tucson 325-8842 wk 326-9686
gregcorman@sprintmail.com

Greg is the new manager of the nursery at the Tucson Botanical Gardens. He is our 26th new member this year.



2nd Addendum to the March listing of members

In order of dues received:

Julie Girden, Tucson	299-0502	
Mickey Reed, Tucson	883-2147	
Quinto Sol Nursery	fivesun@ix.netcom.com	
Marilyn Ann Bernzott, Tucson	883-0948	
Arid Lands Nursery		
Barbara J. Kyper, Tucson	682-8143	
Greg Corman, Tucson	325-8842	326-9686
TBG Nursery	gregcorman@springmail.com	
Total paid membership for 1999 is 160.		

Notes on April TCSS Meeting

(See page 9 for summary of Matt's talk)

Member Edward Leach brought his *Mammillaria clon-gata* and a small *Opuntia* for Show and Tell. Other members helped to identify them. Ed had placed one of them in what his wife calls "The plant hospice", then he watered it and it got a reprieve and returned to live with his other cacti.

Raffle prizes came from Arid Lands Nursery and the winners were Chris Monrad (*Euphorbia baidensis*); Barbara Eiswerth (*Euphorbia rhombifolia*); and Lorna Wells (*Euphorbia resinifera*).

The door prize was won by Jon Weeks - *Mammillaria hahniana superba* donated by Miles Anderson - thank you Miles! The give away plants for members present were *Thelocactus bicolor* var. *schottii* also provided by Miles.

MILES' TO GO

Miles Anderson
P.O. Box 6
Cortaro, AZ 85652
(520) 682-7272
Fax (520) 682-0480

Mail Order - Cacti
- Succulents
- Rareties
- Custom Grafting
EMAIL MILE82G@AOL.COM

Other Societies' Events to pique your Interest

We strongly recommend you check dates, times and venues before travelling a long way to any of the events listed below. Changes sometimes occur at the last minute. Some of our members travel all over this country and like to know if there are any cactus activities locally to help them feel at home.

- May 8 & 9** **San Jose C&S Society Show and Sale** at the Buchser Middle School in Santa Clara - note this is a new venue which is easily accessible from the I-880. Call Bill Kurtz on 408-243-3692 for more details.
- May 9** **San Diego Epiphyllum Society Show & Sale** Casa del Prado, Rm 101, Balboa Park, San Diego, CA
Info on web site <<http://surfnfax.com/epi/>>
- May 15 & 16** **Annual Plant Sale** at Huntington Botanical Gardens, San Marino, CA. 15th for members only, 16th for massing crowds! Call 626-405-2160 or 2277
- May 15 & 16** **Fresno C&S Show and Sale** at the Manchester Center, Fresno. Contact TCSS member, Sue Haffner on 209-292-5624 or at <sue_haffner@csufresno.edu>
- June 5 & 6** **San Diego C&SS Show and Sale** Balboa Park - Room 101, Casa del Prado. Call (619) 462-1805 for more information.
- June 12 & 13** **San Francisco C&SS Show & Sale** Golden Gate Park, County Fair Building
- June 28** **Weird Plant Sale TBG** (check date)
- July 3** **CSSA Annual Meeting, HBG**
- July 3 & 4** **CSSA Show and Sale** at the Huntington Botanical Gardens, San Marino, CA. Entries for show to arrive on prior Thursday and be from members of societies affiliated to CSSA only. (Tucson C&SS is an affiliate of CSSA, so our members may enter.) For info call 626-405-2160 or 909-624-2282
- July 17-24** **Henry Shaw Cactus Society, St. Louis Show and Sale**, Missouri Botanical Garden
Info: Mike Hellerman 618-656-1803 or e-mail: cactus1803@yahoo.com
- Aug 14 & 15** **Inter City Show and Sale**. Info from Dick Hulet 310-832-2262 <airobatic@aol.com> or Woody Minnich 805-944-2784
- Sept 4** **Huntington Symposium, HBG**
Call 626-405-2160 or 2277 for more details or await later *Desert Breezes*.
- Sept 10-12** **Kansas City C&SS Show and Sale**
- Oct 16 & 17** **Orange County C&SS Show and Sale** at the Fullerton Arboretum
- Oct 23 & 24** **San Gabriel Valley C&SS Winter Show**, Arcadia, CA. Info: Woody Minnich on 805-944-2784

And for your long-term planning 2000 and beyond

- 2000 AD**
- Feb 18-21** **C&SS of New Zealand 52nd Annual General Meeting and Convention**.
Plymouth Hotel, New Plymouth. Info from Sandra Spence <spence@aranaki.ac.nz>
- Feb 25 & 26** **South-Eastern Conference, Miami, FL**
Info from SFCSS Inc., PO Box 161407, Miami, FL 33116 or <sflacactus@aol.com>
- April 8 (8 days)** **CSSA Field Trip to Big Bend in Texas**
- June 9-11** **Mid-America C&S Conference, St. Louis MO**
Info Kathy Malon <katmalon@worldnet.att.net>
- July 1 & 2** **CSSA Show and Sale**
Huntington Botanical Garden, San Marino, CA
- Aug 25-27** **Eastern Regional Conference**
Connecticut C&SS. Info: Phillip Allen at <PALlen9254@email.msn.com>
- Aug/Sep** **Succulenta 2000**, Cape Town
<gasteria@mweb.co.za>
Fax: +27-12-993-3588
- Sept 2** **Huntington Symposium, HBG**
- 2001 AD**
- Mar 13-16** **Succulenticon 2001**
C&SS of the ACT, Canberra, Australia
In case you are planning a trip down-under, get info from Annette & Mike Smith, PO Box 484, Mawson, ACT 2607, Australia, or e-mail them <mmsmith@dynamite.com.au>
- June 24-29** **CSSA Convention in LOS ANGELES** in Northridge
- July 7 & 8** **CSSA Show and Sale, HBG**
- Sept 1** **Huntington Symposium, HBG**
- 2002 AD**
- July 6 & 7** **CSSA Show and Sale, HBG**
- Aug 31** **Huntington Symposium, HBG**
- 2003 AD**
- ???** **CSSA Biennial Convention, St. Louis, MO**
- July 5 & 6** **CSSA Show and Sale, HBG**
- Aug 30** **Huntington Symposium, HBG**

HBG

is the

Huntington Botanical Gardens

1151 Oxford Road, San Marino, CA 91108-1299

For information on any of the events listed at this location,
call 626-405-2160 or 2277

Motels in Pasadena are nearby.

Did you know . . . that in 1903, H. E. Huntington purchased
San Marino Ranch, where he began to create his estate,
complete with museum collections and botanical gardens?

From the Editor's Desk

Judging Cacti at Shows

Having clerked at a number of shows put on by various organizations, I've encountered all sorts of judging - and heard comments ranging from good and valid to worse than any exhibitor would ever want to hear. I heard one judge say "I want to give the haworthia a prize as I like haworthias." Merely liking a genus is not a valid reason for giving any plant a prize. Condition is a far more proper parameter to consider. Another time, the three 'expert' judges kept asking for my opinion when they were judging the cacti, to which I responded, "I have no comment. I am just a clerk." After judging was completed and cards awarded, they asked my opinion . . . and got it —

"You've just given first prize to a load of mealy bugs."

Two of the judges promptly vanished, never to be seen again. I would like to see the CSSA have judges' training courses, similar to those I've attended in England, and to develop a standardized procedure which is widely used. And if a CSSA affiliated club wishes to apply for a CSSA trophy, diploma or certificate, to be awarded at its local show, then they should employ judges who have successfully attended a recognized training course. The approved judges could also be used to check a club's show schedule for clarity - so often schedules are wide-open to misinterpretation. One of the present difficulties would be the assessment of the judging knowledge of those who could do the teaching. Maybe classes in judging could become a regular part of the regional conventions? In 1998 Joe Clements of the CSSA produced their booklet of Shows & Judging which gives recommendations for judging. How many judges actually have a copy of this booklet? See p. 8 to find out how one cactus society trains its judges.

Regional Conventions are Popular

Is the increasing popularity of regional conventions impacting the numbers attending the CSSA biennial conventions in recent years? In 1995, the CSSA convention was in Tucson and 700 attended. In 1997, it was in San Diego - they expected 800 to attend, but total numbers scarcely reached 400. This year in Las Vegas again, the number reached just over 300 including the vendors. What can be done about increasing attendance of US members at these national events which are held in such high esteem that they draw cactophiles from all over the world? (The Las Vegas convention drew 46 attendees from outside the US.) Hold them during the spring or summer breaks? Maybe run competitions, or give awards to affiliated societies which would entice more members to attend as they would feel more personally involved and not be willing to miss out on the exciting promotions. Many of us who have been to lots of the CSSA conventions KNOW HOW EXCITING they are and the delight we feel at meeting our buddies from around the world yet again and to being updated on the latest research and the newest plants discovered. What we now need to do is to interest those who have yet to attend their first convention; to make it pleasing to them, so that they in turn become the regular attendees of the future.

Fund Raisers are a necessity in life. Are they just for making money? No, I don't think so. They help to get members together with a united focus. We need funds in order to function as a club. The more money we raise, the more we can support any other chosen projects (such as the Cactus Garden at the ASDM). We are planning several fund raisers and will keep you informed

Have you noticed that our meetings now get started promptly at 7 p.m.? Several members have said they thought the start time was changed to 7.30 p.m. (which it wasn't) so hope this clarifies the situation. After the President calls the meeting to order at 7 p.m. sharp and introduces new members and guests, the speaker usually gets underway without wasting any time. And this is AFTER the library has been open for 30 minutes between 6.30 p.m. and 7. In this land of sun and sand, many folks are early risers so we really cannot move the starting time to a later hour. In future we hope to have the raffle plants on display in time for you to know what you might win to tempt you all the more!

Apologies to Nathan Walpow for misspelling his name in the April issue of *Desert Breeze*. Nathan is the author of a new mystery book, *The Cactus Club Killings*, due for publication in May.

The TCSS Road Library opens at 6.30 p.m. prior to the formal start of our meetings at 7 p.m. Members are welcome to browse the selection of books brought to the meetings and to borrow the volumes they choose. The normal length of borrowing time is one month, from meeting to next meeting. Some books are very popular, but some never get borrowed. And last year, too many were borrowed permanently. We hope the new system will create more borrowings with fewer losses. Some books are currently out of circulation while they are being repaired or covered. If you want a book on a particular subject but don't know its title or author, please call me and I'll try and help you and, if available, will bring it along to the next meeting.

And even more new books are being published this year . . . the TCSS Library cannot afford to get them all for you, but they are listed just for your information —

Namaqualand: A Succulent Desert

Authors: Richard Cowling and Shirley Price.

In this forthcoming book, the authors explore the ecology of the harsh wonderland of Namaqualand, an area often overshadowed in many respects by the Cape Floral Kingdom, its neighbor to the south. Namaqualand has some 4000 plant species, of which 60% occur nowhere else. Lots of mesembs! The contents include: What is Namaqualand? An Ancient Desert; The Explorers; Plants and Patterns; Coping; Reproduction and Survival; plus a glossary, and over 330 color photographs taken by Colin Paterson-Jones. 156 pp. 300x270 mm. Publication date: August 1999. \$43.00 (\$31 + \$12 for shipping to USA by insured surface mail). Publishers: Fernwood Press (Pty) Ltd., PO Box 15344, Vlacberg 8018, South Africa. Fax: (+27 21) 61-8574.

(Continued on page 11)

Periodical Perusal

The Cactus & Succulent Journal

Here are the contents of the May-June issue of the *Cactus & Succulent Journal* (U.S.) (to be mailed out around June 1):

A new section of the genus *Conophytum*,

by Opel & Hammer.

Botanists in Paradise. 1 —

Adventures on the Chilean coast,

by E. Anderson & F. Kattermann.

White adeniums, by G.P. Shirley.

A new aloe species from Somalia, by John Lavranos.

A new *ceropegia* species from Kenya,

by Patrick Siro Masinde.

Ecology of the threatened cactus, *Sclerocactus glaucus*,

by Rechel, Ballard & Novotny.

A new, spiny euphorbia and an amplified description of a perennial woody species, both from the Hadhramaut, Yemen,

by John Lavranos.

Superb Succulents, by Duke Benadom.

Spotlight on Round Robins, by Engelke & Fleischmann.

Myron Kinnach, Editor.

Cactus & Co. Journal

The April issue of *Cactus & Co. Journal* - 3(2)1999 - will feature the following main articles:

The Brazilian Blue Beauty by Marlon Machado

(A recognition in the habitat of *Pilosocereus pentaedrophorus*)

Moroccan Euphorbias by Daphne Pritchard

(A trip to Morocco reveals many interesting Euphorbias and other succulents)

Variegated Sansevierias (part 2) by Juan Chahinian

The man, the species, and the succulent plant (part 3)

by Laura Guglielmone and Massimo Meregalli)

(The authors go on telling the fascinating story of taxonomy and classification: Linnaeus as object of criticism, and the first germ of evolutionism)

Trichocaulon: the smooth-stemmed species by Desmond Cole

(A reprint of a classic article by Des Cole written before the new classification of this group of plants: this article is illustrated with beautiful new photographs)

Trichocaulon: a hotbed of controversy! by Colin C. Walker

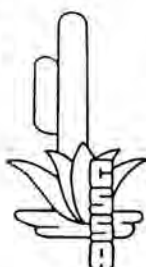
(The author explains the two different points of view of Darrel Plowes, and Peter Bruyns, who moved the smooth-stemmed trichocaulons in the new genera *Larripleachia* and *Lavrania* respectively)

Postscripta by Lino Di Martino (ed.)

(Updates and corrections to the *Echinocereus Special Issue*)

The journal will be mailed out to subscribers and institutions around April 30.

Lucio Russo Cactus & Co. Editor



B&B Cactus Farm Tour

Reported by Lois Ladwig

Bob and Bev White, owners of B&B Cactus, welcomed a group of TCCS members to their nursery and gardens on the far eastside of Tucson on Saturday, April 17. These gardens are an eclectic blend of native trees, many large cacti and agaves and other succulents from around the world, citrus fruit trees and a recent addition, various types of bamboo. One section is used to test succulents for hardiness in the Tucson landscape.

Karen Mott of B&B gave the group a very interesting and informative tour of B&B's extensive gardens. Gathering at 9 a.m., we saw many trichocereus and aloes with beautiful blooms along with echinocereus, opuntia, ferocactus, and a host of other cacti and succulents. Epic, a hybrid trichocereus developed at B&B, was covered with brilliant blooms that were very popular with visiting bees. Bob White, who develops most of B&B's tricho hybrids, has attempted to maintain the columnar tricho form while creating spectacular flowers.

Seeing several large agaves and asking their names, Arnold White learned that the little agaves he had planted would someday dominate his yard. We saw several unusual opuntias including the basilaris-violacea hybrid with its striking pink flowers. Karen discussed the fungus that we are seeing here in the Tucson area and some of the treatments being tested as a control for it.

Karen also pointed out the importance of microclimates with a beautiful myrtillocactus growing well up into a palo verde tree. This plant grows in an area of Tucson that can have temperatures fall below 20 degrees F, but with the protection of the tree it has grown to about 6 feet and was just coming into bloom. Even a frost tender cardon planted in the ground on the southeast corner of the retail store, has grown to a height almost equal to the store roofline.

After we toured the gardens and enjoyed iced tea and cookies, most of us headed for the greenhouses and the many beds of larger landscape plants. It's hard to pass up an opportunity to take some of the beauty home with you.

If you were unable to attend this tour and would like to visit the gardens on your own, B&B is located at 11550 E. Speedway Blvd., Tucson. When heading east on Speedway, drive 1.5 miles past Houghton Rd and look for the B&B sign on the right after you pass Tanque Verde Loop Road. ▲

Our ride in the desert on deadline day

My mule is good at locating cacti and today she found another Ferocactus. We also noticed that Easter's snow melt prompted the buds on the saguaros to swell. The beautiful flowers should be revealed in early May. "When will the saguaros bloom?" is a question we are often asked.

Cactus Carol

Prickly Pears and Biological Controls

O*puntia inermis* was introduced into Australia in 1839. It took some time to become established, but once it did there seemed to be no stopping its spread. At one time, it was said to be spreading at a rate of over 120 sq meters per second. One 6.5 km wide *Opuntia* patch was advancing at an average rate of over one meter per day.



Quoting from the December 1977 *New South Wales Cactus and Succulent Journal*:

"An English migrant who worked in a prickly pear gang near Moree in 1913 wrote that it was the cruelest time of his life. "The dense cactus was all around us like the sea, as far as the horizon," he said. "The spikes penetrated my leather boots and the bristles were worse. Their barbs were so tiny I could not pull them out. The poison on the slashed plants burned my cotton clothing and I had to wear wool even in the blistering heat. The barbs festered in my sunburned flesh and the poisonous fumes made me so ill that in my agony I cursed whoever brought this evil into the country."

Eventually, the problem of the spreading *Opuntias* was controlled when the moth, *Cactoblastis cactorum*, was introduced from Argentina.

From Réunion Island, Thierry Alberto of Le Jardin Naturel - Ile de la Réunion, writes on cacti_etc . . .

"*Cactoblastis cactorum* is a small nightly butterfly. Its eggs are piled perpendicularly to the surface of the plant like a single white hair about 5 cm long. After hatching on the faces of the *Opuntia* pad, the caterpillars get into the flesh of the pad and eat all the plant. At the beginning, they are almost invisible, but after some days like a very nice orange little finger! The *Cactoblastis* makes a lot of damage over a population of *Opuntias*, especially if they stay near your succulent garden in the wild."

More comments on cacti_etc from Richard Barton in England who wrote:

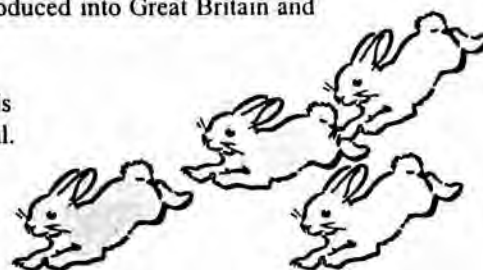
"I believe that the moth *Cactoblastis cactorum* was introduced for the control of *Opuntia* in northeastern Australia more than 25 years ago, and that it is fairly species-specific. I recall seeing photos of acres of 100% mortality *Opuntia* carcasses. Like many interactions in nature, there is often a balance, and in the long-term many such systems adjust into some accommodation, sometimes being cyclic in each population, but out of phase (somewhat similar to the case of rabbit control via *calicivirus* introduction in Australia, which experiment is now being re-run in New Zealand too). *Opuntia* still grows in Australia, the moth comes and goes, but private collectors to my knowledge have not had problems."

Editor's note:

I wonder if the **myxomatosis* which was introduced to England to control wild rabbits, is the same as the *calicivirus* used in Australia. *Myxi* caused terrible deformities of wild rabbits in England which looked to be very painful for them. Thankfully, after many years, the rabbits became immune to the virus. **Myxomatosis* is described in my dictionary as "a highly infectious viral disease of rabbits, artificially introduced into Great Britain and Australia to reduce the rabbit population."



To explore the Natural Botanic Garden of Réunion Island their web site is <<http://www.guetali.fr/natural>> Réunion Island is an island of 970 sq. ml. in the Indian Ocean, east of Madagascar. Remember: Information on the Internet should be read with caution. It is not guaranteed to be 100% correct.



Interesting web sites

Cactus and Succulent Plant Mall — <<http://www.cactus-mall.com/>> In a choice of 8 languages, this site is an invaluable Internet resource for all growers of cacti and other succulent plants. You can download seed lists and order books etc.

Botany Books - The list on books about botany and flora — <<http://www.onelist.com/isregistered.cgi?listname=BotanyBooks>>

Cactus & Co. Journal — <<http://www.cactus-co.org>>

Cactus & Succulent Society of America — <<http://www.cactus-mall.com/cssa/>>

International Code of Botanical Nomenclature — <<http://www.bgbm.fu-berlin.de/iapt/nomenclature/code/tokyo-e/Contents.htm>>

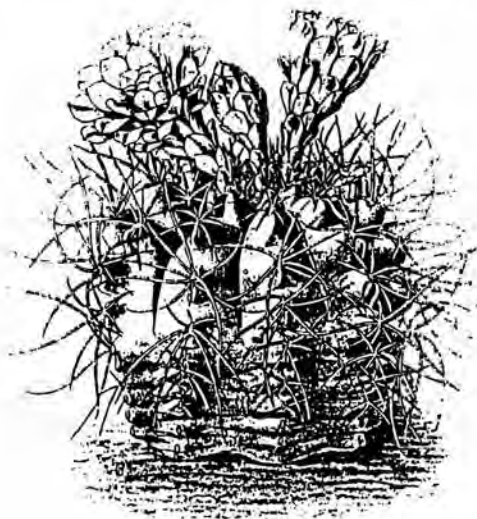
And Non-biological Control of Agave beetle

You may recall seeing Mark Sitter's agave beetle in a jar at the March meeting. Our February speaker, Diane Barker, the Agave Horticulturist at the Desert Botanical Garden in Phoenix, sent out the following message last July about this destructive creature on cacti etc, the circle on the Internet for cactophiles. As it contains so much information about a problem many of us are likely to encounter, you may benefit from her comments.



“Agave snout weevil (*Scyphophorus acupunctatus*) can be extremely damaging to a collection. The weevil will attack many species of Agaves and Yuccas. The plants containing the infestation will probably die depending on the stage of infestation, but you can save the surrounding agaves by treating ALL agaves in your collection. I recommend a pesticide drench using either Diazinon or Malathion. Mix the selected chemical according to the label instructions for ornamentals (keeping to all the safety guidelines on the label). Starting at the top of the heart of the plant pour the solution, the amount needed will depend on the size of each plant until the solution trickles down to the base of the plant. Do this once a month for three applications at the first sign of weevil or grub. You can also do this as a preventative starting in March for three months. The grub does the damage by chewing the leaves, thus allowing bacteria and rot to set in. But the adult weevil must also be killed before she lays eggs, which will change into the destructive grub.”

Note: The beetle drawing above is just a beetle - it is not specifically the Agave beetle.



CACTUS & SUCCULENT SHOW

Show / Sale - July 3 & 4 10:30am-4:30pm

Presale - July 2 10:30am-4:30pm

Huntington Botanical Gardens

1151 Oxford Rd San Marino
For Information Call - (626)405-2160

How One Cactus Society Trains Its Judges



Before taking part in the weekend judges' course in the UK, it is assumed that participants have been growing cacti and/or other succulents for a number of years sufficient to have acquired a fair bit of knowledge about these plants.

Once your application has been accepted by the Secretary of the British Cactus & Succulent Society's Shows Committee, you will join other aspiring judges at some comfortable student hostel accommodation (don't expect four star service here!).



Although the basic knowledge of plants and their cultivation is not covered on this course, experienced judges endeavor to teach prospective judges how to apply the knowledge they already have. A series of six talks, which change each year, covers the judging aspects of various genera or groups. Beginners get two special sessions, before joining the old-hands for the third and subsequent talks.

Sunday morning the students are introduced to the "torture of twenty classes", test judging in two one-hour sessions. They are advised to eat a hearty breakfast! After those sessions, it will be explained what the "experts" thought. The test papers (yes! it's back to school!) are not marked there and then, but the students have the thrill of waiting for the mail man to call with the news.



Is it too serious? There must be a serious side, but this is submerged in banter and comment of the most light-hearted vein. Informal slide shows late at night and car-trunk plant sales in the parking lot at every opportunity are part of the atmosphere.

To learn ALL about the task (whoever claims they know it all?), you would need to attend many courses, but you can learn a great deal at just one course, always returning for a refresher in later years. These courses are usually held every September and are advertised in the journals of the BCSS. They are always fully booked and to be sure of a place early reservation is essential.

This article based on notes, 1998, by Rodney Sims, BCSS Shows Secretary.

Matt Johnson on *Thelocactus*

On the beautifully wet and rainy night of the April TCSS meeting, 47 members and friends were present to listen to Matt Johnson speak on *The genus Thelocactus*.

Dan Birt introduced Matt Johnson as a person who knows all about the plants by the roadside. "If you drive along with him he can tell you all their names."

Matt considers there are about 12 species of *Thelocactus* at the present time. He recommended Pilbeam's book *Thelocactus* as a particularly good reference book for this genus. Their flowers range from white to pink, yellow, orange through purplish red flowers, and some are pleasantly fragrant. On a nice warm afternoon their perfumes permeate the air.

Distribution is from central Mexico to Big Bend in Texas, from near sea level to thousands of feet asl. Most of them grow in limestone type soils, but one grows in gypsum. They receive between 6 and 34" rain in a season depending upon locality.

Nearest relatives are *Hamatocactus setispinus* var. *setispinus*, and *H. setispinus* var. *setaceus*. They are also a close relative of *Leuchtenbergia principis*. Fruits have similar characteristics. Some taxonomists think *Thelocactus* are closely related to *Coryphanthanae* and/or *Echinomastus*. The DNA analysis when it is done may clarify relationships in more detail.

Most *Thelocactus* remain as reasonably sized plants which may be moved around without difficulty. They are great bloomers. *T. rinconensis* produces flowers from February to November, as does *T. bicolor*. Many will bloom for 4 - 5 months. Some continuously, some occasionally throughout the summer. Seeds germinate around mother plants of some species. They be grown from cuttings. Some offsets may be rooted. In Matt's yard, some *Thelocactus* are hardy plants to 16 deg F. His yard gets 50 - 60 nights below freezing most winters - Mt Lemmon and other mountains dump their cold air down to the Tanque Verde wash. Some of the *Thelocactus* which come from higher elevations take temperatures well below freezing. Buds even develop in December after several freezing nights. You can grow a lot of them in a small space. Glass and Foster's writings on the Chihuahuan Desert, Edward Anderson's study on the genus and the Chihuahuan Desert Flora, due out soon, are good references to this genus.

T. bicolor is a common one in cultivation and the most widespread in habitat. It has at least five varieties: vars. *bicolor*, *bolaensis*, *flavidispinus*, *pottsii*, and *schwarzii*. *T. bicolor* is one of the two most westerly growing species in habitat. 6-12" tall in habitat. It blooms in response to rain, so most of the plants will flower on the same day. Tough and hardy. Wonderful plants! Of Matt's *T. bicolor*, one has pure yellow spines. A variety

which Edward Anderson did not recognize, *T. bicolor* var. *bolaensis*, has pure white spines on a little narrower body. It frequently branches. The flowers range from pale pink through bright rose. *T. bicolor* var. *flavidispinus* is the other US variety of *Thelocactus*. It grows in Marathon Basin in Brewster County in Novaculite limestone - in one place growing at more than one plant per sq ft. Purple flowers. *Coryphanthus* grow nearby. Bloom repeatedly through the summer. When repotting his specimen Matt pulled out 150 seedlings which were self sown. *T. bicolor* is greatest offender for seedling in pots. *T. bicolor* var. *schwarzii* from to 4-5" across is easy to grow. It has two tone flowers, and short upright central spine.

T. heterochromus gets to 7" across becoming dome shaped with age - it grows in high grassland. Most fragrant flowers are produced from April through July.

T. hexaedrophorus var. *hexaedrophorus* is the typical type, blue grey body to 6" with long spines. White to light pink flowers from March through August. Quite hardy. They don't outgrow their pots too quickly. *T. hexaedrophorus* var. *lloydii* occurs in grassland habitats and has a greener stem with more regular tubercles.

T. rinconensis group is another wonderful group of cacti. The varieties are weakly differentiated. *T. rinconensis* var. *nidulans* is the more widespread variety in southern Coahuila. Flower colors are highly variable from pale yellow through pink and white striped flowers. *T. rinconensis* var. *phymatothelos* grows above Saltillo in more humid Mexican hill country, in only one mountain canyon. There is less spination in this location. *T. rinconensis* var. *phymatothelos* is the highest elevation variety of *T. rinconensis*. *T. rinconensis* var. *freudenbergii* is from one small area in Nuevo Leon. Hardy and tough with purple flowers.

T. matudae grows further to the south. Both Anderson and Pilbeam list *T. matudae* as a variety of *T. tulensis*. Also listed in Anderson's *Endangered Cacti of Mexico*. In habitat it grows on gypsum, but in cultivation it doesn't really care. *T. buckii* further south still, is sometimes listed as variety of *T. tulensis*. It has a dark purplish/brownish somewhat flat body to 7-8" in diameter. In Tucson, it blooms here in April and has purple flowers. *T. leucanthus* the most southern species in habitat may not take full sun in the Tucson area.

T. tulensis occurs in southern Nuevo Leon, San Luis Potosi, and Tamaulipas and produces flowers from March through the fall. Makes big mounds, throw sheet over them for protection from extreme cold. It is shy to set seed here in summer, even with hand pollination. A form originally described as *T. longispinus* has yellow flowers which appear in late winter and spring, but Anderson and Pilbeam said it is a form of *T. tulensis*.

(Continued on page 10)

Wonderful plants
Tough and hardy
Fragrant flowers

(Continued from page 9)

T. conothelos var. *conothelos* is a highly variable species. Matt showed two specimens of this species which looked quite different. Its habitat is creosote bush desert. Also with pinion pines in Tamaulipas state. Blooms February to May, a straight flush of flowers in one spurt. Reported as up to 1 ½ ft in height, it is a wide ranging, highly variable species. *T. conothelos* var. *argenteus* grows at 7500 ft on a limestone cliff. *T. conothelos* var. *argenteus* comes from near Ascension in very hilly country. White spines, hence its name *argenteus* = silver. *T. conothelos* var. *aurantiacus* grows in the mountains. It has yellow flowers and grows to 7-8" in height. These two varieties are geographically isolated from other populations of *T. conothelos*.

T. macdowellii is sometimes listed as an *Echinomastus*, but is definitely a *Thelocactus*. It is a very hardy plant, but seems more moisture sensitive than the other *Thelocactus* species. "*T. macdowellii* blooms in one flush in springtime," said Jon Weeks. Matt said "Mine bloom from February to April."

Two *Thelocactus* isolated south of the Chihuahuan desert, *T. leucanthus* var. *leucanthus* and var. *schmollii*, are summer bloomers with yellow flowers. *T. leucanthus* var. *leucanthus* profusely offsets and can form clumps to 2 ft or more across. When it is cold in his yard, Matt throws sheet over them. Near in relationship to *T. bicolor* which grows not too far to the north. *T. leucanthus* var. *schmollii* is the more columnar and has purple flowers. *T. hastifer* is the most southern species now and has become very rare in habitat. *T. lausseri* from mountain range near Cuatrociénegas, Coahuila takes full sun - Matt grew these on the roof of a shed in the cool months; when moved inside they didn't all survive. With full sun out of doors they are happy in winter time. Cold hardy, easy to grow. The odd ball among the genus. Susceptible to *Phyllosticta* fungus, which is common on opuntia. The other species of *Thelocactus* are mostly highly resistant to *Phyllosticta*. Most local nurseries have some *Thelocactus* species, Mesa Garden probably has seed of them all. Matt uses Miracle-Gro once a month throughout the growing seasons. He likes to grow them hard and not repot every year. Waters once a week. Germination not a problem in pots but seems less prolific in habitat.

References

- Anderson E.F. 1987. A revision of the genus *Thelocactus* B. & R. (Cactaceae). *Bradleya* 5:49-76.
 Glass C. and R. Foster. 1977. The genus *Thelocactus* in the Chihuahuan Desert. *Cactus and Succulent Journal* 49:213-220, 244-251.
 Pilbeam J. 1996. The Cactus File Handbook 1: *Thelocactus*. Cirio Publishing Services Ltd., Holbury, Southampton, UK. 56pp.

Talk closed at 8.15 pm. followed by hearty applause. ▲

Above Summary by Cactus Carol

Agenda for TCSS Board Meeting 7 pm May 20, 1999 College of Pharmacy

Apologies for absence, if any.

Approval of minutes of March 18, 1999 meeting

Treasurer's report

Fund raising activities

Silent auction in connection with TBG Weird Plant Sale — June 28, 1999 (date ?)

Combined Show and Sale — where, when, how?

Plant auction at Christmas party — venue, day, catered or pot luck

Member assessment

Other suggestions

Report of Sonoran 3 committee

Approval of contract with Inn-Suites hotel

Review of logo

Other committee reports

Membership recognition program

Any other business

(Full sized agendas will be available at board meeting - this early notice is to give everyone plenty of time to think about agenda items.)

ARIZONA'S LARGEST CACTI GROWER
FIRST IN QUALITY

TANQUE VERDE GREENHOUSES

10810 EAST TANQUE VERDE RD.
TUCSON, ARIZONA 85749
(520) 749-4414

CAROL SCANNELL



Thank you, Carol Scannell,
of Tanque Verde Greenhouses
for donating the *Monadenium* sp. nova
as the door prize
at the March TCSS meeting.

Please use this form, or copy it, to renew your membership or start a new membership.

Tucson Cactus and Succulent Society

1999 Membership Form

Name(S) (F, Mi, Last) _____

Address _____

City _____ State _____ ZIP _____

Home telephone (_____) _____ - _____ Work telephone (_____) _____ - _____

Fax (_____) _____ - _____ e-mail _____

Life \$500 _____ Family \$20 _____ General \$15 _____ Student (18 and under) \$10 _____

New Membership _____ Renewal Membership _____

Are you a CSSA member? YES _____ NO _____ And what can you offer to the Society as a member? _____

Dues run from January 1 through December 31 each year.

Please make checks payable to TCSS, and mail with completed form to:

TCSS Membership Secretary, Maury Clapp, PO Box 91560, Tucson, AZ 85752-1560

(Continued from page 5)

The Plantfinder's Guide to Cacti & Other Succulents

Authors: Keith Grantham & Paul Klassen

Why do we grow cacti and other succulents? Is it for their superbly textural glaucous skins, flamboyant flowers, the immaculate symmetry of their leaf crowns or their spine patterns? This new guide includes information on propagation, cultivation and care, a comprehensive plant directory, innovative planting ideas and many photographs. Keith Grantham has been growing succulents for 40 years in UK and has traveled extensively in habitat locations. *Having seen many of Keith's plants on show benches, I can vouch for the quality of his cultivation techniques.* Paul Klassen has written extensively for specialist journals, and is also a member of the CSSA. You may have noticed Paul's messages on cacti_etc. Due for publication in April '99, the cost is (English pounds) £18.00 + £6.00 from the publishers, David & Charles Direct, PO Box 6, Newton Abbot, Devon, TQ12 2DW, England. Visa and MC accepted.

Las Vegas was fun!

Thanks to some enthusiastic hard workers, Steve and Denni Plath of the Cactus and Succulent Society of Southern Nevada and their team, which also included some members of the C&SS of Las Vegas, another excellent convention has been enjoyed by cactophiles from four continents around the world. The program included 27 sessions of talks, a productive rare plant auction, meetings for Round Robin participants, Affiliate Representatives, Newsletter Editors and contributors to cacti_etc, a large plant sales room and another large room for the book sales, a

wine and cheese reception, plus two banquets, and live Las Vegas entertainment. The facilities were ideal for our purposes and very conveniently located. I particularly liked the lecture room with its high screen and superb platform for the barrage of projection equipment, in spite of the wide hysteresis of the thermostat on the AC system which blew really cold for a while, then really hot. Everyone had a good view of the screen. Maury and I enjoyed meeting so many old friends again - many of whom are also regular attendees at the CSSA conventions and we meet only every two years, even though we correspond more regularly. The field trips are always fun too and get the cobwebs off us which accumulate through sitting all day at the lectures. I hasten to add that all activities are voluntary and you do have unspoken permission to visit the casinos, even during the lecture periods. It was a great thrill to us to see Mark Dimmitt receive the CSSA Friend Award at the opening banquet. Altogether there were seven TCSS members present - that is seven whose primary club is Tucson. There were nine others who are more distant members of TCSS whose main ties are to the club in their local area. We are looking forward to the next CSSA convention in Los Angeles in 2001, and the next after that in St. Louis in 2003. Maybe some more of you will come along then too.

Cactus Carol



The Desert Breeze
is produced courtesy of Succulent Productions
c/o Carol Clapp, Editor
<kitfox@azstarnet.com>

Tucson Cactus & Succulent Society
c/o Carol and Maury Clapp
PO Box 91560 Tucson AZ
85752-1560

Desert Breeze

Newsletter of the TCSS for May 1999

Sonoran 3
2000 AD
May 5 - 7, 2000

BULK RATE
U.S. POSTAGE
PAID
TUCSON AZ
Permit No: 216

||||

NEXT MEETING - Thursday, May 6 at 7 P.M.

TCSS Library opens at 6:30 p.m.

Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, AZ 85712

**Mark Sitter will be giving a
Practical Demonstration of Cultivation of Cacti in Pots**

Come early and get a good seat! — See page 3 for more details.

Members' Plant Sales and Exchange (see page 3)

Show And Tell - Please bring along your cactus or other succulent and tell us about them or get answers to your questions about them. Or any other cactus or succulent in flower.

**Refreshments by those with family names beginning with E to R.
Marty and Barbara Harow will be bringing the soft drinks.**

Visitors always welcome.

Desert Breeze

Volume 4, Issue 6
JUNE / JULY 1999

Sonoran 3

2000 AD

May 5, 6 and 7

in

Tucson



Watch for August
Desert Breeze
and
subsequent
issues for news,
but see p. 8 for
introduction



Tucson Cactus & Succulent Society
presents

A Botanical Mystery Evening

June 3 - 6.30 for 7 p.m.

Tucson Botanical Gardens
2150 N. Alvernon Way, Tucson

featuring



Nathan Walpow of Los Angeles, just returned from a highly successful book tour of New York and D.C., will tell how he grows his succulents plants, particularly pachypodiums, and how his hobby led him to write his first mystery novel *The Cactus Club Killings*. Nathan will read an excerpt from his book, which introduces sleuth Joe Portugal and includes the Joe Portugal Guide to Botanical Nomenclature.

Clues Unlimited of Broadway Village will talk on the current series of botanical mystery books, including *The Orchid Thief* and *The Garden Tour Affair*. Copies of *The Cactus Club Killings*, paper back \$5.99 (\$6.41 with tax), will be available for you to purchase at the meeting.

NON-MEMBERS ALL AGES WELCOME -

BRING YOUR FAMILY AND FRIENDS TO ANY OF OUR MEETINGS

Silent Auction Saturday June 26 - Tucson Botanical Gardens

This fundraising event is being held in conjunction with the WEIRD PLANT SALE of the Tucson Botanical Gardens. It is hoped that holding these two events simultaneously will be of benefit to both our organizations - each bringing in more people than either would on its own. **WE MUST RAISE FUNDS FOR ALL THE ACTIVITIES YOU ARE REQUESTING.** Jack Ramsey is chairman for our Silent Auction and Greg Corman is working for the TBG on the Weird Plant Sale. Please call Jack on 888-6137 with offers of help for this event - we need your donated plants and your assistance, please see page 6 and the back page of this issue.

Business Page: Advertising in <i>Desert Breeze</i> ; Board Meeting dates; Copy Deadlines	page 2
Calendar of Events; Welcome New Members; Sunshine; Agenda for June 17 Board Meeting.....	page 3
Other Societies' Events; How to find the Huntington	page 4
Watering Wands; Field Inventory of the Amphitheater School District	page 5
Meet Your Community by the President; From the Editor's Desk; TCSS May meeting.....	page 6
Copy of Handout by Mark Sitter on Cultivation Techniques; More useful URL's.....	page 7
Library Report; TBG Summer Program; SONORAN 3 Introduction	page 8
What's Your Choice? We Need <i>Your</i> Ideas	page 9
Silent Auction June 26 at TBG.....	page 10

Board Meeting Reminder

Please make a note in your calendars of the following Board Meeting dates for 1999:

June 17

July 15, September 16

October 21, November 18

All are third Thursdays in the month.

Place: College of Pharmacy, Mabel and Warren, at 7 p.m.

Officers and Directors: Please call Joe Costante or Maury Clapp if you are unable to attend any of the above meetings.

TCSS members: Any of you are welcome to sit in on board meetings. The agendas are published in the preceding issue of *Desert Breeze*, so if you have something to say about any of the items due for discussion, please get in touch with Maury Clapp or Joe Costante.



New TCSS Treasurer:

Kathryn Fridlind

Owing to Arnold White's return to Missouri in May, the president appointed Kathryn Fridlind as treasurer. This new appointment was ratified by the Board and is in effect now.

Advertising in *Desert Breeze*

Camera-ready advertisements should be sent to:

TCSS President, Maury Clapp,

PO Box 91560, Tucson AZ 85752-1560.

All advertisements must be received with check payable to TCSS no later than the 15th of the month prior to the month of insertion. Upon approval of the content and style of the advertisement, and after verification that the advertisement complies with the Post Office bulk mail regulations of no ads for Credit Cards, Insurance, or Travel Agencies, the ad will be inserted in the next available *Desert Breeze* that has space.

Current rates:

ONE ISSUE

Whole page \$25.00

1/2 page \$15.00

1/4 page \$9.00

1/8 page (business card) \$5.00

THREE ISSUES

Whole page \$65.00 for three issues

1/2 page \$40.00 for three issues

1/4 page \$25.00 for three issues

1/8 page \$14.00 for three issues

Circulation of *The Desert Breeze*:

May's circulation was 235 copies. Mailed to all members of the Tucson Cactus & Succulent Society; the President of the CSSA and Editors of its publications; some affiliate representatives of CSSA, some newsletter editors of other affiliated clubs, surrounding societies, all Tucson libraries, Visitors Bureaux, various local media, and others at the discretion of the publisher.

Tucson Cactus & Succulent Society

Founded 1960

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The **Desert Breeze** is the Newsletter
of the Tucson Cactus & Succulent Society.

TCSS Web Page

<http://www.desertcactus.com/tcss/>

TCSS WEBMASTER: Lois Ladwig

e-mail: lois@desertcactus.com

Check our web site for TCSS activities and read the
archive section of summaries of talks we've had.

Deadlines for Copy to Editor

Advertisements — 15th of month preceding month of issue

Articles — 20th of month preceding month of issue

NOTE:

NO DESERT BREEZE IN JULY

THE DEADLINE FOR COPY

FOR THE AUGUST ISSUE IS

JULY 20

DON'T BE LATE AND BE IN THE



TCSS Calendar of Events

Meetings are usually held on the first Thursday of the month at the Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, at 7 pm.
Note: Library opens at 6.30 p.m.

June 3 A Botanical Mystery Evening

The Cactus Club Killings

Book Signing by Nathan Walpow. This is Nathan's first novel set in the Culver City Cactus Club - the president is murdered! Our speaker is a past president of Sunset Succulent Society in Los Angeles. Nathan started collecting cacti in the mid '70's, until about 1990 when he added some of the other succulents. He now has over 400 plants in his collection. His favorite genera - Pachypodium, Tylecodon, and Anacampseros/Avonia. He also has quite a few euphorbias, which are prominent in his book. Nathan will tell us how he grows his plants and how this hobby led him to write his first mystery novel. His second book, *Death of an Orchid Lover*, is due out next year. His other claim to fame is that he is a five-times-undefeated *Jeopardy!* champion.

Christine Acevedo of Clues Unlimited of Broadway Village will tell about other books in the series of botanical mysteries now available.

Refreshments by S-Z and A-D. Carol and Maury will be bringing the soft drinks. Members' Plant Sales on this occasion. And **Show and Tell** - complete the mystery theme for the evening by bringing along a plant you don't know the name of, or one which has a problem unknown to you. We'll try and solve it!

The TCSS Library will be open at 6:30 p.m. before the meeting starts and Ron Fridlind will be happy to receive returns and sign out the ones you wish to borrow.

Saturday SILENT AUCTION

June 26 See back page of this *Desert Breeze*

July 8 Gasterias by Breck Breckenridge.

Breck, a native of Texas, moved to Tucson a year or so ago with his family from Utah. He has the plants of The American Gasteria Project, which serve as a reference collection of gasterias. He is also the director of gasteria and haworthia e-mail round robins.

Free plants for members who attend meeting in exchange for the return of their name badge as they depart the meeting.

Bobette and Sidney Levy will be bringing the soft drinks this time. Light refreshments by those with names starting from E-R

Other TCSS dates for your 1999 calendar are:

August 5, September 2, October 7, November 4, and our Christmas Party on Sunday December 12.

For Board meetings, see top left of page 2.



Welcome New Members

Roger Grimes, Tucson 299-1577 795-0610
docRGrimes@aol.com

Harley E. West and Nancy L. West 290-5655
Tucson

Calvin Fricke, Tucson 887-7126

Calvin is our 30th new member since January 1, 1999

Paid membership for this year now stands at 164

Sunshine

Sometimes it comes to our notice that a few of our members are under the weather. To Gene Loring, we send our best wishes for a speedy recovery following his recent surgery.

To James Pickering in the hopes that his family is finally getting over their spell of illness.



More details back page and page 6

Board Meeting June 17, 1999

Main Items for Agenda

Arrangements for Silent Auction on June 26
Review of Sonoran 3 facilities and program

Tucson Cactus & Succulent Society reserves the right to make changes to their programs should it become necessary.

Other Societies' Events to pique your Interest

We strongly recommend you check dates, times and venues before travelling a long way to any of the events listed below. Changes sometimes occur at the last minute. Some of our members travel all over this country and like to know if there are any cactus activities locally to help them feel at home.

- June 5 & 6** **San Diego C&SS Show and Sale**
Balboa Park - Room 101, Casa del Prado.
Call (619) 462-1805 for more information.
- June 12 & 13** **San Francisco C&SS Show & Sale**
Golden Gate Park, County Fair Building
- June 26** **Weird Plant Sale TBG**
- July 3** **CSSA Annual Meeting, HBG**
- July 3 & 4** **CSSA Show and Sale at the Huntington Botanical Gardens, San Marino, CA.** Entries for show to arrive on prior Thursday and be from members of societies affiliated to CSSA only. (Tucson C&SS is an affiliate of CSSA, so our members may enter.) For info call 626-405-2160 or 909-624-2282
- July 17-24** **Henry Shaw Cactus Society, St. Louis Show and Sale, Missouri Botanical Garden**
Info: Mike Hellerman 618-656-1803 or e-mail: cactus1803@yahoo.com
- Aug 14 & 15** **Inter City Show and Sale.** Info from Dick Hulett 310-832-2262 <airobatic@aol.com> or Woody Minnich 805-944-2784
- Sept 4** **Huntington Symposium, HBG**
Call 626-405-2160 or 2277 for more details or await later *Desert Breezes*. Speakers, rare plant auction, tour of plant houses, etc.
- Sept 10-12** **Kansas City C&SS Show and Sale**
- Oct 16 & 17** **Orange County C&SS Show and Sale at the Fullerton Arboretum**
- Oct 23 & 24** **San Gabriel Valley C&SS Winter Show, Arcadia, CA.** Info: Woody Minnich on 805-944-2784

And for your long-term planning

2000 and beyond

- 2000 AD**
- Feb 18-21** **C&SS of New Zealand 52nd Annual General Meeting and Convention.**
Plymouth Hotel, New Plymouth. Info from Sandra Spence <spence@taranaki.ac.nz>
- Feb 25 & 26** **South-Eastern Conference, Miami, FL**
Info from SFCSS Inc., PO Box 161407, Miami, FL 33116 or <sflacactus@aol.com>
- April 8 (8 days)** **CSSA Field Trip to Big Bend in Texas**
- June 9-11** **Mid-America C&S Conference, St. Louis MO**
Info Kathy Malon <katmalon@worldnet.att.net>

July 1 & 2

Aug 25-27

Aug/Sep

Sept 2

2001 AD

Mar 13-16

June 24-29

July 7 & 8

Sept 1

2002 AD

July 6 & 7

Aug 31

CSSA Show and Sale

Huntington Botanical Garden, San Marino, CA

Eastern Regional Conference

Connecticut C&SS. Info: Phillip Allen at

<PAllen9254@email.msn.com>

Succulenta 2000, Cape Town

<gasteria@rweb.co.za>

Fax: +27-12-993-3588

Huntington Symposium, HBG

Succulenticon 2001

C&SS of the ACT, Canberra, Australia

In case you are planning a trip down-under, get

info from Annette & Mike Smith, PO Box 484,

Mawson, ACT 2607, Australia, or e-mail them

<mmsmith@dynamite.com.au>

CSSA Convention in Northridge, LA

CSSA Show and Sale, HBG

Huntington Symposium, HBG

CSSA Show and Sale, HBG

Huntington Symposium, HBG



Clues Unlimited

(Broadway and Country Club)

123 S. Eastbourne

Tucson AZ 85716

Voice (520) 326-8533

FAX (520) 326-9001

e-mail <clues@azstarnet.com>

www.cluesunlimited.com

*Come to TCSS on June 3
and enjoy the mysteries!*

-
- HBG**
- is the
- Huntington Botanical Gardens**
- 1151 Oxford Road, San Marino, CA 91108-1299
- For information on any of the events listed at this location,
call 626-405-2160 or 2277
-
- If you are driving west on I-210, get off on the Allen exit
going south.
- This leads you right to the front gates of the HBG.
- Motels in Pasadena, and Arcadia (slightly cheaper),
are fairly close.
-

Field Inventory of the Amphitheater School District

TCSS member, Chris Monrad, has advised us that approximately 9.48 acres are being cleared for the Woodburne Avenue School at Section 36, Township 11 South, Range 13 East, in Oro Valley, Pima County.

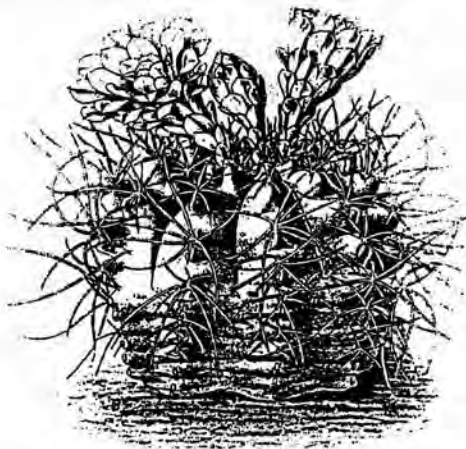
Some of the plants, such as the saguaros, are being "professionally salvaged". TCSS has been invited to assist in the removal of the other plants.

The list of species needing to be relocated is extensive, running into several pages of small print. Coordinates of each plant are given with state of health, diameter and height. They include *Ferocactus cylindraceus*, *F. wislizenii*, *Opuntia fulgida* var. *fulgida*, *O. phaeacantha* var. *discata*, also some legumes, *Acacia greggii*, *Prosopis velutina*, *Cercidium microphyllum*, *C. floridum*, and one *Ziphus obtusifolia* var. *canescens*.

There are lots of most of the above species, ranging from a few inches in height to sixteen feet, with diameters from 3" to 36".

We will talk about this project at the June 3 TCSS meeting and see how we can save many of these plants. This information came in just as this issue was going to press, but maybe by then we will have an idea of scheduling time involved.

Further information may be obtained from the Construction Director, Michael M. Orr, at 520-696-5148, or e-mail <morrm@sun1.wetmore.amphi.com>



CACTUS & SUCCULENT SHOW

Show / Sale - July 3 & 4 10:30am-4:30pm
Presale - July 2 10:30am-4:30pm

Huntington Botanical Gardens

1151 Oxford Rd San Marino
For Information Call - (626)405-2160

Watering Wands

Wendy Beale sent the following information to the editor about the Gardena watering wands recommended by Mark Sitter in his talk last month.

If you have e-mail try <<http://www.valueamerica.com/product.asp?p=2022.1956.6631.115377.144872.607.0.0.0l=1.17&r=0.1.21.22.0>> Or you could call Value America at 888-510-8258.

ACE and True Value Hardware could carry them (their main warehouses have the product), and I'm trying to get an ACE Hardware in my neighborhood to say they'll stock them. The ACE near me has three stores under the same ownership: Sunrise and Swan, Pima, and North Oracle, so if I can get them to carry the product, it would save people the shipping and handling fee. The wands cost about \$22-24, I think.

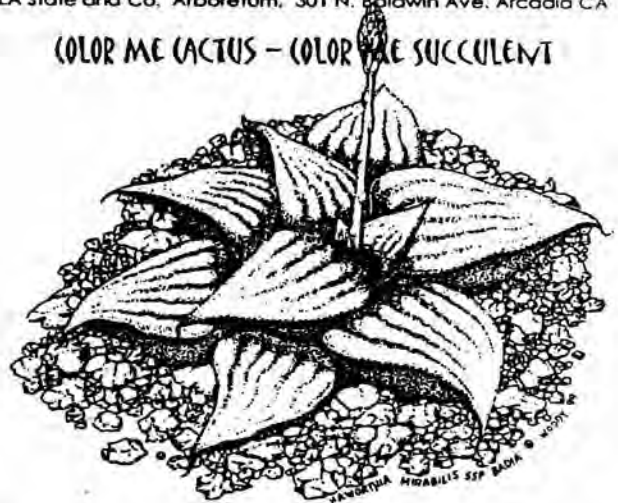
The ACE guy I spoke with this morning will call me back and let me know if they can get some in.

I have four of these and think they're the best. The newest model has an end that adjusts for sprinkling, misting, or jetting water. I use the "quick connect" ends that Gardena also makes that attach to your hose and hose accessories so you can just snap different accessories on and off without unscrewing them. There is a quick connect that comes with a "stop" that prevents the water from gushing forth if you're changing accessories while leaving the hose turned on.

14th Annual Inter-City Cactus & Succulent Show

Sat. & Sun. August 14th & 15th, 1999 from 9 to 5 each day. At The LA State and Co. Arboretum, 301 N. Baldwin Ave. Arcadia CA

COLOR ME CACTUS - COLOR ME SUCCULENT



Featuring daily WALKS AND TALKS by well known experts presenting various topics from culture to showing. Walks and Talks info. on back of flyer.

Sponsored by the Long Beach, Los Angeles & San Gabriel Valley Cactus and Succulent Societies

For info. please call: Larry Grammer 562-599-1146, Woody Minnich 805-944-2784 or Chris Rogers 818-891-9986

Meet Your Community

A Message from your President, Maury Clapp

Saturday morning, June 26th the Tucson Botanical Garden and Tucson Cactus and Succulent Society are each hosting complementary special events. The Garden will be holding a *Weird Plant Sale* while your Club will have a *Silent Auction* of cacti and succulents. These are being coordinated to encourage customer flow between events. We should be able to meet and talk to many potential new members as the TBG's customers visit our auction. Your membership committee should be very active.

Jack Ramsey is coordinating this event and his committee will provide a complete report at the June 3 meeting. We need some nice summer hardy plants donated for this event. Since many plants may find new homes with people new to cacti we don't want to supply plants that are unlikely to survive; so please bring only well-established plants. Also, please provide any special care instructions. If you will not be able to attend the auction, please bring your plants to the (June 3) meeting, but we would much prefer you plan to attend and bring your plants early Saturday morning before 7.45 a.m. It's only from 8 a.m. to 1 p.m. and we do need some help. *See You There.*

From the Editor's Desk

Grafting of Stapeliads

It was recommended on cacti_etc that stapeliads do well when grafted on *Caralluma speciosa* and *Ceropegia woodii*.

Plant catalogs received:

Rare Plant Research, 132 SE Harold, Portland, OR 97236

FAX (503) 762-0289 e-mail: rareplant@aol.com

All the plants offered have been propagated from seed or cuttings. Many are rare in cultivation or new. Some plants listed are hardy to varying degrees which are stated. If you are into burseras, commiphoras, lewisias, adenias, grass aloes and plants native to the tropical deciduous forest, and rare plants and oddities, then you should find plenty of interest here. This catalog is an interesting booklet, giving a description and habitat details of each entry, but . . . I do not recommend it as a reference tool when you want to find out how to spell plant names owing to number of misspellings. That point overlooked, it is a pleasing read. Their motto: "Plant protection through propagation and dissemination."

Miles' To Go 1999 Spring Plant List 520-682-7272

TCSS member, Miles Anderson's latest list was put out with the help of Janice and their corgis, Penny and Chance, who will greet you upon arrival at their nursery. Miles offers most of the rare plants you are seeking, many grafted, many crests. All excellent quality. I see that now we have a *Mammillaria* 'Drop Dead Fred' to intrigue collectors. Another interesting read, with good plant descriptions. Miles will be a vendor at the TBG on

Report on May Meeting of TCSS

Mark Sitter gave an excellent demonstration of how to grow cacti in pots at the May meeting when 41 members attended. Mark's hand-out is reproduced in this *Desert Breeze*, so that all of you who couldn't get to the meeting may benefit from his advice.

Show and Tell: One plant was brought in by Clint Jarvis. Mark thought it was stressed due to the hot weather and advised Clint how to help his plant. Norma Beckman spoke on her *Bowiea* and a *Scilla*; and Helen Housman on her *Agave colorata*. Helen also showed us some cut off heads of flowers of this beautiful plant.

Door prize was won by Norman Beckman (*Notocactus warasei*) and the raffle prizes went home with Greg Corman, (*Pachypodium rosulatum*); Maury Clapp, (*Notocactus herteri*); and Lorna Wells, (*Fockea edulis*).



Thanks to Gene Joseph of Plants for the Southwest for donating the *Notocactus warasei* as the door prize at our last meeting.

Plants for the Southwest
50 East Blacklidge
Tucson, AZ 85705
(520) 628-8773

NORTHERN CALIFORNIA CACTUS & SUCCULENT ASSN.

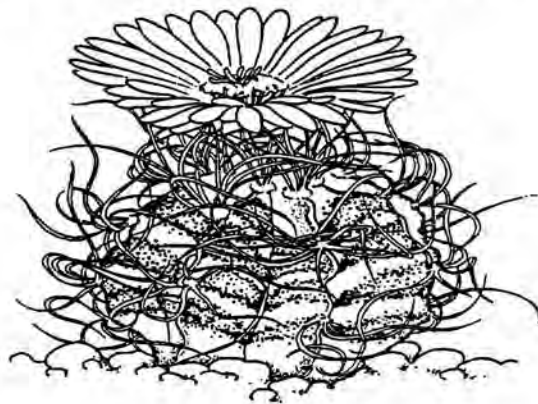
SHOW & SALE

Saturday & Sunday

July 24-25, 1999 9am to 5pm

SF County Fair Building

9th Ave. at Lincoln Way, Golden Gate Park
San Francisco, California



FREE ADMISSION

FOR FURTHER INFO CONTACT: MARILYN POKORSKY, 510/238-8000

A Practical Demonstration of Cultivation Techniques of Cacti in Pots

as presented by Mark P. Sitter, Landscape Horticulturist at the Arizona-Sonora Desert Museum, at the May TCSS meeting

TOOLS: Gloves, tongs, forceps, scoop, tamper, moisture meter, watering can, fine spray nozzle, and shade cloth or weed barrier.

POTS: Ceramic, cement or plastic. All pots must have drainage holes. Consider using a sealant inside ceramic and cement pots. Aids in the accumulation of mineral deposits. Reduces the amount of water evaporation from the pot. Rub on boiled linseed oil, to rejuvenate older and unsightly ceramic and cement pots. Plastic pots will hold water longer and won't accumulate mineral deposits. Avoid use of white plastic pots, because of moss and algae growth on the inside of the pot. Use heavier gauge plastics and UV resistant materials. i.e. black plastic.

SOILS: Find a good mix that works well for you, there is no one magic recipe. Avoid the use of pure native soils, too heavy and hard to grow plants well in. Consider pumice, mulches, sand, peat moss, coconut coir, and native soil. Avoid heavy clay soils. Considerations: water, oxygen and good drainage. Your recipe when complete should allow water to drain away with no standing or puddling water.

TRANSPLANTING: Orientation considerations - greenhouse grown or outdoor acclimated? Too much shade, may cause etiolation (elongation), poor spine formation and development, and no flower buds. Too much sun, without proper acclimation, may result in 3rd degree burns.

TOP DRESSING: Aids in reducing weeds. Discourages pumice and perlite from floating to the top of the pot. Keeps a mulch layer over the soil, slowing evaporation. Wide variety of colors and textures available, makes plants look all dressed up. Good diffuser of water or rain water. Gives support to plant.

WATERING: How much and how often? When you water, water to saturation. Best rule of thumb: water thoroughly, but infrequently. There is no golden rule. Look at your plants, feel (ouch) your plants, know your potting mix by weight, when wet and when dry. The bigger the pot, the longer it will stay damp. Small pots need watering more often than bigger pots. Try a moisture meter when you first start out. Remember we have five seasons: winter, spring, hot/dry summer, wet/humid summer, and fall. Rainwater is always best. Plants need a winter resting period, with much reduced water requirements and no fertilizer.

FERTILIZERS: Yes! Very important consideration for growing potted plants, as regular watering leaches out all nutrients. Gives good growth and excellent flower bud production. Apply once a month. March - October. Water soluble - dissolves instantly in water and is immediately available to the plant. Examples: Peters Professional ® 20-20-20, Miracle-Gro ® 15-30-15, and Super Bloom ® 12-55-6. For all water-soluble fertilizers, the recommended dosage should be cut in half. Time released - Osmocote ® 18-6-12, 280-day formulation.

PESTS/DISEASES: Scale insects, cochineal scale, agave weevils, cactus weevils, cactus beetles, cactus moths, sucking bugs, and Phyllosticta fungal rot. Treatments include hand picking, contact sprays, and systemics. Be watchful and keep an eye out for these dreaded beasts, before you have a ruined collection or a huge mess to deal with. Try using soap.



More useful URL's

The beautiful El Pinacate Park in Sonora, Mexico (in Spanish):

<<http://www.conabio.gob.mx/textos/pinacate.htm>>

Brazilian Cacti in Cultivation - a new web page put out by one of our members, James Pickering:

<<http://members.aol.com/jamesicus/brh.htm>>



Library Report

The following books are missing from the TCSS Library:

The Haworthia Handbook, by M. B. Bayer

Die Cactaceae, Vols. I, II, IV, V (in German), by Backeberg

The Cultivation of Succulents, by Jacobsen

Sukkulenten, by Krainz (in German)

Cactus and Succulents and How to Grow Them, by Haselton

Robert's Rules of Order Revised, by Robert III

Kakteen und andere sukkulenten (in German) by Rother

Succulent Euphorbia, by White

Carmichael C&SS listed all their missing books in their newsletter - half of them subsequently were returned. We hope we will do even better - so please check your bookshelves, just in case you happened to have forgotten to write down your borrowing of any volume(s) at the time and then forgot to return it.

We plan to make the library self-supporting this year, by selling some of the books which have not been borrowed in the past five years. This was agreed at a TCSS Board Meeting and that any monies received would be used towards the purchase of books of greater use to the current membership.

Cactus Carol

Chairman, Library Committee

The Desert at Night

is the theme for Sonoran 3
May 5, 6, and 7, 2000 AD.

Speakers are planned
and workshops too

Make a note of these dates
for activities new.

Pollinators, bats, spiders and more
Saguaros in bloom,
White flowers at night
and at first light.

Don't miss it!

Tucson Botanical Gardens Program

If you want more information on these programs, please call the TBG on 520-326-9686.

CONSERVATION LECTURE SERIES

Co-sponsored with the Arizona Native Plant Society

All lectures FREE

WATER IN THE DESERT

Wednesday, July 14, 7-8:30 pm

Nancy Laney, Associate Director at the Arizona-Sonora Desert Museum, will speak about water resources in the Sonora Desert. When water scarcity is a defining feature of desert, how are we able to support our booming urban populations? Can this seemingly unlimited supply of water continue? What actions can each of us take to live more appropriately in our desert environment?

RARE PLANTS OF ARIZONA

Wednesday, July 28, 7-8:30 pm

Forest ecologist Mima Falk will present case studies on two of Arizona's rare plant species - the Huachuca water umbel and the Pima pineapple cactus. She will enumerate the threats to the survival of these plants, explain conservation measures currently underway to protect them, and discuss the long-term outlook for their survival.

HABITAT DESTRUCTION AND THE GUARIJIO

PEOPLE OF SONORA Wednesday, August 25, 7-8:30 pm

The Guarijio people live in the tropical deciduous forest of Sonora raising crops and making much of what they use. Dave Yetman, UA Southwest Center, will describe their culture and discuss pressures to eliminate the forest, and why they feel it's important to maintain it.

SAN FRANCISCO SUCCULENT & CACTUS SOCIETY

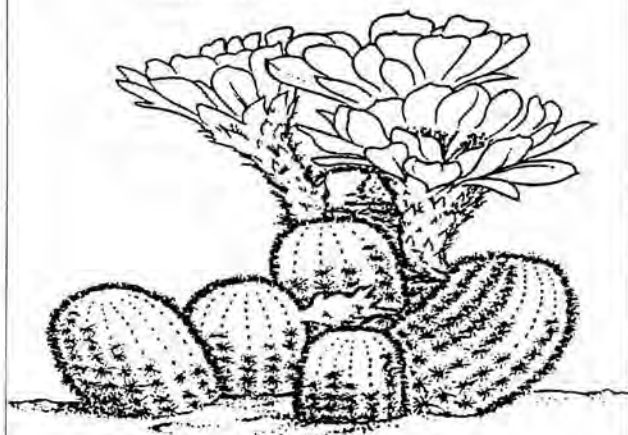
SHOW & SALE

SATURDAY & SUNDAY

JUNE 12-13, 1999 9AM TO 5PM

SF COUNTY FAIR BUILDING

9TH AVE. AT LINCOLN WAY, GOLDEN GATE PARK
SAN FRANCISCO, CALIFORNIA



FREE ADMISSION

FOR FURTHER INFO CONTACT: MARILYN PERAZKY, 510/238-8080

Please use this form, or copy it, to renew your membership or start a new membership.

Tucson Cactus and Succulent Society 1999 Membership Form

Name(S) (F, Mi, Last) _____

Address _____

City _____ State _____ ZIP _____ - _____

Home telephone (_____) _____ - _____ Work telephone (_____) _____ - _____

Fax (_____) _____ - _____ e-mail _____

Life \$500 _____ Family \$20 _____ General \$15 _____ Student (18 and under) \$10 _____

New Membership _____ Renewal Membership _____

Are you a CSSA member? YES _____ NO _____ And what can you offer to the Society as a member? _____

Dues run from January 1 through December 31 each year.

Please make checks payable to TCSS, and mail with completed form to:

TCSS Membership Secretary, Maury Clapp, PO Box 91560, Tucson, AZ 85752-1560

“WHAT’S YOUR CHOICE?” asks Maury

Which would YOU rather do, pony up \$10.00 or contribute some time and maybe a few surplus plants to your club?

For your club to continue providing the level of service you and the community have come to expect, we need periodically to have fund raising activities. Your dues do not cover all the costs of producing the renowned *DESERT BREEZE*, free plants and door prizes at meetings, speakers fees, and miscellaneous expenses.



At the last meeting of the TCSS Board we were discussing fund raising and it was proposed that we just assess each member \$10.00 rather than go to the effort of planning, organizing and staging a fund raising activity. Before I can support such an idea I need to know how you, our members, feel about it.



We're doing our best to give you exciting events, things to do, encouragement in your cactus/succulent hobby, but we still need ideas from YOU. This is your club. We are working on some fundraising events, but we could do with more ideas.

Anonymous ideas are fine, but we prefer that you have the courage of your convictions and 'fess up to your ideas and help put the activities into effect.

E-mail to mclapp@azstarnet.com, postcard to PO Box 91560, Tucson AZ 85752, phone (520) 908-9001, or vote at the next meeting.



The Desert Breeze
is produced courtesy of Succulent Productions
c/o Carol Clapp, Editor
<kitfox@azstarnet.com>

Tucson Cactus & Succulent Society
c/o Carol and Maury Clapp
PO Box 91560 Tucson AZ
85752-1560

Desert Breeze

Newsletter of the TCSS for June/July 1999

Sonoran 3

2000 AD

May 5 - 7, 2000

The Desert at Night

BULK RATE
U.S. POSTAGE
PAID
TUCSON AZ
Permit No: 216

|||



TCSS SILENT AUCTION

with

TBG's WEIRD PLANT SALE

Saturday June 26

Tucson Botanical Gardens

2150 N. Alvernon Way, Tucson

AUCTION TIMES: 8 a.m. to Noon
in the cool of the Porter Room

Weird Plant Sale: 8 a.m. to 1 p.m.
on the patio

Vendors to include Miles' to Go
and Plants for the Southwest

TBG Gift Shop expanded into foyer

Desert Breeze

Volume 4, Issue 7
AUGUST 1999

Lois Ladwig and Dick Wiedhopf
report on the TCSS salvage operation

Saving our Native Cactus

Chris Monrad, TCSS member, brought our society the opportunity of salvaging native cacti growing on a 15-acre soon-to-be cleared elementary school site in the Amphi school district. While a portion of the site is being preserved in its natural state, the school district is salvaging some of the plants in the area to be cleared for later use in the school landscaping. Many more plants were growing happily in the area soon to be bulldozed.

With the permission of the school district, Dick Wiedhopf, Vonn Watkins, and Lois Ladwig met Chris's parents and one of their neighbors on the site and counted and marked many ferocactus, echinocereus, and mammillaria as potential salvage plants along with one *Peniocereus greggii*. With this information and salvage permission from Mike Orr of the Amphi construction office, Dick went to the AZ Department of Agriculture's Native Plant Office and obtained tags and seals to allow salvage of 94 plants. Marty Harow and his son collected approximately 35 cacti and brought them to be included in the successful Silent Auction held June 26th at TBG.

Following this initial collection, more plants were collected and stored at TBG until they

could be placed in new homes in the community. Plants were donated to TBG for use in the gardens and to the Desert Museum to add to the desert setting there. At the July 8 TCSS meeting the *Peniocereus greggii* was a raffle plant and many of the other plants were sold to members of the society. Dick went back to get more tags and seals and another collection effort saved more plants. The salvaged plants will continue to be available to TBG and ASDM and available for purchase.

This is a new direction for TCSS and one that has already provided great satisfaction to participating members whose efforts have saved beautiful cacti scheduled to be destroyed. When walking the site for the survey, it was amazing how many cacti were hiding under the bursage and desert trees. Every step revealed another plant soon to be bladed by a bulldozer. A portion of the site had already been bladed with mammillaria and echinocereus uprooted and cholla broken up and dying. While we were not able to save all the plants on this site, we feel this first effort was very successful and a good learning experience.

We hope to identify a group of members who

(Continued on page 9)

**2 TCSS
meetings
in
August
see p. 3**

**Sonoran 3
2000 AD
May 5, 6 and 7
Inn Suites
1-10 / St. Mary's
Tucson**

**Speakers on
The Desert
at Night
Many Workshops
to choose from**

**Details
coming
soon**



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Board Meeting Reminder

Please make a note in your calendars of the following Board Meeting dates for 1999:

Sept 16 ** Oct 21 ** Nov 18



All are third Thursdays in the month.

Place: College of Pharmacy, Mabel and Warren, at 7 p.m.

Officers and Directors: Please call Joe Costante or Maury Clapp if you are unable to attend any of the above meetings.

Sonoran 3 Committee

will meet on Thursday 12 August at 6.30 p.m.
at the College of Pharmacy

Co-Chairs: Al Coritz and Dick Wiedhopf
Facilities: Al Coritz
Program: Dick Wiedhopf
Registration: Maury and Carol Clapp
Vendors/Vendor Displays: Wendy Beall
Consignment Sales:
Silent Auction, Raffle: Al Coritz
Plant Show: Linda Ryan and Lois Ladwig
Publicity - local: Vonn Watkins
Publicity - non-local: Carol Clapp

T.C.S.S. Committees

The following committees consist of TCSS board members and enable some aspects of running our Society to be dealt with in small groups to save spending so much time at board meetings on every point. Recommendations are made by each committee, as necessary, to the board of directors.

Finance Committee:

Chair: Kathryn Fridlind
Marty Harow
Jack Ramsey
Dick Wiedhopf

Library Committee:

Chair: Carol Clapp
Ron Fridlind
Mary Odette
Sara Perper

Membership Committee:

Chair: Vonn Watkins
Maury Clapp
Joe Costante
George Nadler

Program Committee:

Chair: Al Coritz
Dan Birt
Lois Ladwig
Linda Ryan

Circulation of *The Desert Breeze*:

June/July's mailed circulation was 203 copies, with 204 *Desert Breeze EXTRA's* being mailed late June. Other copies were distributed at TBG and elsewhere. Mailed to all members of the Tucson Cactus & Succulent Society; the President of the CSSA and Editors of its publications; some affiliate representatives of CSSA, some newsletter editors of other affiliated clubs, surrounding societies, all Tucson libraries, Visitors Bureaux, various local media, and others at the discretion of the publisher.

Tucson Cactus & Succulent Society

Founded 1960

OFFICERS AND BOARD 1999

PRESIDENT: Maury Clapp 908-9001

VICE-PRESIDENT: Al Coritz 682-8333

SECRETARY: Joe Costante 825-2357

TREASURER: Kathryn Fridlind 325-8447

BOARD OF DIRECTORS:

(terms expire December 31 of year indicated)

Immediate Past-President: Richard Wiedhopf 885-6367

Marty Harow 1999 George Nadler 1999

Mary Odette 1999 Sara Perper 1999

Dan Birt 2000 Lois Ladwig 2000

Jack Ramsey 2000 Ron Fridlind 2001

Linda Ryan 2001 Vonn Watkins 2001

AFFILIATE REPRESENTATIVE TO CSSA:

Carol Clapp (520) 908-9001

e-mail: kitfox@azstarnet.com



Desert Breeze EDITOR:

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PO Box 91560

Tucson, AZ 85752-1560

The **Desert Breeze** is the Newsletter
of the Tucson Cactus & Succulent Society.

Please send your copy by the 20th of the
month preceding the following month's issue
to the Editor.

TCSS Web Page

<http://www.desertcactus.com/tcss/>

TCSS WEBMASTER: Lois Ladwig

e-mail: lois@desertcactus.com

Check our web site for TCSS activities and check the
archive section for summaries of talks we've had.

Deadlines for Copy to Editor

Articles — 20th of month preceding month of issue

Advertisements — 15th of month
preceding month of issue

Details of advertising rates may be obtained
on application to the editor of *Desert Breeze*

Other Societies' Events to tempt you - check info before traveling far

We strongly recommend you check dates, times and venues before travelling a long way to any of the events listed below. Changes sometimes occur at the last minute. Some of our members travel all over this country and like to know if there are any cactus activities locally to help them feel at home.

- Aug 14 & 15** **Inter City Show and Sale.**
LA Arboretum, 301 N. Baldwin Ave, Arcadia
Info from Dick Hulett 310-832-2262
<airobatic@aol.com> or Woody Minnich
805-944-2784
- Sept 4** **16th Huntington Symposium, HBG**
See page 10 for details of this event
- Sept 10-12** **Kansas City C&SS Show and Sale**
- Oct 16 & 17** **Orange County C&SS Show and Sale**
at the Fullerton Arboretum
- Oct 23 & 24** **San Gabriel Valley C&SS Winter Show,**
301 N. Baldwin Ave, Arcadia, CA. Info:
Woody Minnich on 805-944-2784
- Oct 26-30** **1st Congress of Latin America and the**
Caribbean and 2nd Mexican Congress for
C&S Plants, Oaxaca, Mexico.
<<http://www.cactus-mall.com/congress.html>>
e-mail: <gmanzanero@vmredipn.ipn.mx>

And for your long-term planning

2000 and beyond

2000 AD

- Feb 18-21** **C&SS of New Zealand 52nd Annual General Meeting and Convention.**
Plymouth Hotel, New Plymouth. Info from Sandra Spence <spence@taranaki.ac.nz>
- Feb 25 & 26** **South-Eastern Conference, Miami, FL**
Info from SFCSS Inc., PO Box 161407, Miami, FL 33116 or <sflacactus@aol.com>
- April 8-16** **CSSA Field Trip to Big Bend in Texas**
Details: Borderland Tours, 2550 W. Calle Padillo, Tucson AZ 85745 1-800-526-7753
- (May 5, 6-7** **Sonoran 3 in Tucson, Arizona)**
- June 9-11** **Mid-America C&S Conference, St. Louis MO** Info Kathy Malon
<katmalon@worldnet.att.net> or call Pat Thomann on 314-773-2931
- July 1 & 2** **CSSA Show and Sale**
Huntington Botanical Garden, San Marino, CA
- Aug 21-25** **Succulenta 2000, Cape Town**
See details on p. 9
- Aug 25-27** **Eastern Regional Conference**
Connecticut C&SS. Info: Phillip Allen at <PAllen9254@email.msn.com>
- Sept 2** **Huntington Symposium, HBG**

2001 AD

- Mar 13-16** **Succulenticon 2001**
C&SS of the ACT, Canberra, Australia
In case you are planning a trip down-under, get info from Annette & Mike Smith, PO Box 484, Mawson, ACT 2607, Australia, or e-mail them <mmsmith@dynamite.com.au>
- Jun 30 - 1 Jul** **CSSA Show and Sale, Huntington BG**
- July 1-6** **CSSA Convention in LOS ANGELES**
- Sept 1** **Huntington Symposium, HBG**

2002 AD

- July 6 & 7** **CSSA Show and Sale, HBG**
- Aug 31** **Huntington Symposium, HBG**

2003 AD

- ???** **CSSA Biennial Convention, St. Louis, MO**
- July 5 & 6** **CSSA Show and Sale, HBG**
- Aug 30** **Huntington Symposium, HBG**

Orange County Cactus and Succulent Society

23rd Annual Plant Show & Sale



Fullerton Arboretum

Yorba Linda Blvd. and Associated Road, Fullerton

In conjunction with the Arboretum's Annual Arborfest Show and sale are free with Arborfest admission

Saturday Sunday

October 16, 1999 October 17, 1999

9:00 a.m. - 4:00 p.m.

10:00 a.m. - 4:00 p.m.

For More Information Call (714) 539-8773 or 637-8192
or email: LESchroeder@compuserve.com

From the Editor's Desk

Apologies for there being no special report on our last meeting when Breck Breckenridge spoke on Gasterias. I was tied up with the auction plants awaiting collection by the top bidders who were not around at the closing time on the auction day to take away their plants. And no one else sent any notes in.

LITHOPS — Treasures of Loveliness by Steven Hammer

Steve's new book is due to be published on September 1 and will be available in softcover and a limited (250), numbered, hardcover edition. If demand is heavy for the hardcover edition purchasers may be limited to one copy each. This publication will be the same size as the BCSS's *Bradleya* and have 148 pp + cover. There will be 53 pp of color, with 225 color photos, 10 line drawings, 3 black and white halftones and 2 maps. Fantastic value at UK£16.00 for the softcover edition, and UK£28.00 for the hardcover edition. Pre-publication prices, valid only until August 31, 1999, are UK£14.00 and UK£25.00 for soft and hardcover editions respectively. Send pre-publication orders to UK fax +44 1444 454061 (BCSS) with credit card number MC/VISA only, plus shipping address. Otherwise order through your usual bookseller.

Butterflies

Several of our members are interested in butterflies. You may like to know about a meeting of the Southeast Arizona Butterfly Association on Tuesday, Aug 17 at 7 p.m. at the Tucson Public Library, 530 N. Wilmot. Barbara Terkanian of the Arizona-Sonora Desert Museum will present "*The World from the Point of View of the Butterfly*." She will talk about the fascinating sensory world of the lepidoptera and how they relate to odor, color, gravity, host plants, thermo-regulation and more. This information was sent to me by TCSS member, Pat Trossman, the publicity chair for SEABA, 749-5825.

Calling all botanists of Arizona flora

Diane Rhodes, Natural Sciences Librarian, Arizona State University's Noble Science Library, with Jane Cole, botanical research librarian, ret'd, are trying to locate all the botanists, botanical records, and plant collections of Arizona flora that are scattered around the country and abroad. After about a year searching for botanical collections located in Arizona, they have a 41-page list of known collections (AZ plant habitat location) and collectors (people). If you think you can help with information on their project e-mail <diane.rhodes@asu.edu> or <JaneCole@aol.com> Jane Cole was the head librarian at the Desert Botanical Garden in Phoenix. *Thanks to Chuck Everson of Rainbow Gardens for this information.*

TCSS Board Meeting July 15

This meeting was postponed due to heavy rain and floods in Tucson. Many members had left the summer heat in Tucson and others were stranded up Mt. Lemmon as flash floods washed out the mountain road after 6.5" of rain fell within a few hours. At

PLANTAS DEL SOL

*Uncommon Plants for
the Discriminating Collector
Cacti, Succulents, Baja Natives,
Caudiciforms
Seed, Rocks, and Pots*



*John and Dorothy Pasek
6175 N. Noel Lane, Tucson AZ 85743
(520) 682-8883*

the same time, it was sunny and blue skies and not a drop of rain where the president and editor live on the far side of the pretty volcanic range of mountains which fell off Mt Lemmon and the Catalinas millions of years ago.

Haworthia, Revisited by Bruce Bayer

The publication of Bruce Bayer's latest book has seen some delays. The latest news I have is that it was to be printed early in July, then bound by end of July. Copies are expected to be available in the US the first week in August - price still \$59.95. ~300 pp, 470 color photos, and will include new varieties of haworthia.

Saguaro Fruit End-of-Harvest Party

Maury and I were invited to join the Tohono O'odhams at their end-of-harvest party mid-July. We enjoyed sharing their potluck of indigenous foods, including cholla buds. Afterwards we joined in singing their rain song, dancing in the dark desert and praying that the rains would be good this monsoon.

Nancy Clarke wants her plants to go

Some of the TCSS members of long-standing will remember Nancy Clarke, a life member of the Society. She called and told us her interest in cacti and succulents is waning and she would like to rehome some of her plants. Some of them are tall such as an 8 ft Pachypodium and would need to be transported in a truck bed. If you are interested in relieving Nancy of some plants, please call her on 520-537-0402. She used to live on Treat Circle in Tucson, many years ago, but now her address is 4901 S. 30th St., Showlow AZ 85901. A trip up to Showlow should be pleasant at this time of year.

And some of Clint's plants have already gone

Last week, the vandals destroyed many of Clint Jarvis's plants - cacti and succulents, trees and even his vegetables. Fortunately the vandals are believed to have been stuck by some chollas. Many cacti were kicked — they must have had work boots on — or they got badly stuck. Clint, a founder member of TCSS, is appealing for help to sort out the mess in his E. 5th St. yard. Call him on 624-6746 and tell him how you can help. Even his

(Continued on page 11)

The Saguaro, *Carnegiea gigantea*, the state flower of Arizona

An article written by Cactus Carol for another publication recently but it may be of interest to our subscribing members who live far away and are not so familiar with this splendid cactus

A splendid plant, the saguaro grows only in southern Arizona and northern Mexico, plus a small area in California west of the Colorado River.

In life, and in death, the saguaro serves to balance the environment of its habitat. It starts from a seed, probably dropped by a bird, underneath a palo verde or mesquite growing on a *bajada* — the lower rocky slope of a mountain. These trees, or other desert shrubs, become 'nurse' plants to growing seedlings. A 'nurse' plant provides protection from the sun and creates an area of shade permitting any rain to nourish the young plant for longer than it would if in full sun.

Every year is not conducive to the survival of young saguaros — maybe only one year in eight will be good. Take a look at any stand of these magnificent personable cacti. Each colony will consist of tall ones the same height, medium sized ones of about equal height, and maybe all the small ones will be about one foot tall, for example. A seed needs constant moisture to germinate — if it dries out during this process, the seed will fail and no plant will arise. Any fruits remaining when the monsoon starts will be washed off by the heavy rains. If the rains are good, young saguaros will be born, only to continue their growth in the first year if the following winter rains are also productive. Subsequent monsoons and winter rains need to be good for the next few years in order to maintain the young plant's growth until it has grown enough to be able to store an adequate amount of water in its succulent tissues to keep it alive during a drought.

Young saguaros are globular and grow slowly at first — at 5 years of age they may be only 1 inch tall — bearing little resemblance to a mature specimen. Their rate of growth increases each year, assuming there has been rain in the winter and in the monsoon, up to the maximum of about 8 inches in height each year.

When they attain the age of 65 to 75 years, they are likely to produce their first 'arm'. An extreme frost can cause these 'arms' to become twisted or droop, making the whole plant look like a human being waving or dancing. Their first flowers usually appear when the main stem reaches about 8 feet in height, although an occasional smaller specimen is sometimes seen in flower.

Once a cactus has flowered it is considered to be mature at about that time, although the plant does not produce fruits in its first year of flowering. Then the saguaro turns into an hotel for the birds of the Sonoran desert. A woodpecker pecks a nest for itself; the hole made then forms a callous. When the woodpecker has finished with the hole, the pygmy owls and elf owls, take their turn at using the ready made nest. Sometimes even a snake can be seen slithering up to the hole — usually hoping for breakfast.

Normally saguaros flower in May and June, although some particular specimens are known to flower also in October each year, as well as in May. Each white flower lasts for only one day. During the night, bats and birds pollinate the blossoms. When the fruits are ripened, they split open exposing hundreds of black seeds in the bright red flesh inside. The Indians harvest the fruits by dislodging them with long poles made from the saguaro ribs.

Saguaro fruits are used by the Tohono O'odham Indians for making syrup, jams, jellies and drinks. They use the seeds as chicken feed. This is a protected plant so no part of the plant may be taken from state or privately owned lands by anyone unless they have permission to do so.

Lightning can kill saguaros. When struck, the flesh is burnt and the rain causes it to drop off the ribs, leaving the ribs exposed. The ribs can be used as building materials by those who have an appropriate licence. Strong winds following heavy rains can topple large specimens when the ground is so wet it cannot hold the roots in place.

Rodents burrow around these fallen giants, making their nesting holes, which may later be used by snakes. Insects enjoy the decomposing flesh enabling their families to thrive, thereby providing ample food for the birds. The calloused ex-birds' nests within the stems are still intact as the once-proud sentinels of the desert lie on the ground in death. These 'boots' are harvested and are much desired by designers for their works of art. The remaining flesh returns to the earth to nourish future generations of saguaros.

It is important always to treat saguaros with respect. The Tohono O'odhams regard them as their brothers, for the deceased saguaros, when fallen, continue to nourish future plants, just as the ashes of their family members may have nourished some saguaros.

Up to 1997, the champion saguaro stood by Vulture Mine near Wickenburg, Arizona, until it was struck by lightning. It was 54 feet tall with about 20 arms and was believed to be over 200

(Continued on page 8)



June 3 TCSS Meeting

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members and guests attended the June meeting at the TBG. Was this a record number at one of our regular monthly meetings? We've recently had lots of meetings in the 40+ range.

Nathan Walpole, author of *The Cactus Club Killings*, the first mystery novel in the Joe Portugal series, told us how he has been growing cacti for the past 15 years. More recently he has gravitated over to growing the other succulents. While he was an actor, he worked on a writing course, and was taught to write about what he knows. His greenhouse full of succulent plants gave him his original idea. His second novel, *Death of an Orchid Lover*, due out early 2000, took him much longer to write as it was necessary to do more research on orchids. And guess what? Nathan now grows orchids too.

Christine Acevedo, Clues Unlimited, spoke on the current botanical mystery books available. John Sherwin of the UK started the genre of botanical mysteries. He puts a lot of emphasis on characters in his books. There are now about four series of these mysteries - if you want to know more, call in at Clues Unlimited, Broadway/Country Club, SW corner, and Christine or her partners will be happy to help you select a good book. When you walk along the small tree-lined sidewalk to get to Clues Unlimited, you feel as though you are walking into an Agatha Christie story - a perfect setting for a good mystery.

Jack Ramsey, organizing chairman for the Silent Auction, spoke on arrangements, complete with flip chart and all the documentation we might need to run the event efficiently.

Al Coritz, facilities chair for Sonoran 3, gave his report and showed the logo chosen for the conference. The logo, see page 12, was designed by member Vonn Watkins.

Show and Tell: Lorna Wells produced her *Cissus quadrangularis* and another very similar plant hoping to get a positive identification on it, but no one was positive.

The plant exchange was its usual success - members like the opportunity of finding new homes for their offsets and pups, without having to get them potted. A paper bag, or even a plastic bag (for brief storage), is a useful thing to bring to TCSS meetings these days to help carry home your new plants. Of course, potted plants are welcome, but offsets and cuttings are welcome too. Part of the fun of acquiring new bits and pieces of plants is to pot them up when you get home. You certainly learn about your plants that way, instead of having them all in a pot when you get them.

We had raffle plants and a door prize - apologies for not having a note of the raffle winners - guess I fell asleep at the wrong time - but Maury came home with the door prize, a *Euphorbia lactea* crest donated by Plantas Del Sol. Thank you John and Dorothy Pasek. ▲



Periodical Perusal

The Cactus & Succulent Journal

Here are the contents of the July-August issue of the *Cactus & Succulent Journal* (U.S.) due to be mailed out around August 1. This issue is our special issue for 1999 and is mostly devoted to *Ariocarpus*.

Ariocarpus: some reminiscences, by Edward F. Anderson.

Ariocarpus cultivars: an overview of cristates, hybrids, monstrose forms and other oddities, by Miles Anderson.

Ariocarpus: easy to grow, by David Tufenkian.

Ariocarpus in Japan, by K. Suguri & A. Kobayashi.

Growing Ariocarpus from seed, by Andreas Laras.

A putative treatment for euphorbia sap-burn in humans, by P.I. Forster.

Superb Succulents, by Duke Benadom.

Spotlight on Round Robins, by Engelke & Fleischmann.

Ted Anderson's piece is not technical but is an interesting story about his involvement with *Ariocarpus* for many years. The articles from Miles Anderson and Japan are mostly about all the variants and weird sports and hybrids that are so common in this genus.

Lots of color photos in this issue!

Our new printing process caused the print to be too pale in the first three issues of this year. As a temporary improvement the type will be one point larger in the July-August issue.

Haseltonia, No. 6 was mailed out early June.

Myron Kinnach

Editor of the Journal, Managing Editor of *Haseltonia*.



Your President Says WOW!

A lot has happened since my column in the last *Desert Breeze*. In addition to our two regular meetings we had the opportunity to rescue many native plants from the bulldozer at the site of a new Amphi grade school. We also held a very successful silent auction in connection with a plant sale at the Tucson Botanical Garden. The Silent Auction was planned first for June 26 but before it was held the Amphi School District made their school site available for salvage and your Board decided to proceed. Thanks to Dick Wiedhopf, Lois Ladwig, and Vonn Watkins for organizing this event and to all those who got out to the field and dug plants. The first plants were offered at the silent auction which was organized by Jack Ramsey and implemented by Marty Harrow with the help of Linda Ryan, Mark Sitter, Mary Church, Wendy Beall, and on and on. Also thanks to all members for the donation of plants for the auction which raised about \$2000.

Maury Clapp, President TCSS

Surviving Prickly Pear Jam by Maury Clapp

We have one of those *Opuntia* plants with the great big pads that have fruits the size of apples weighing an average of six ounces each. When the birds started to eat them I knew it was time to harvest some of this fruit for our own consumption. But how to accomplish this without becoming a casualty full of thorns and glochids? It is possible. After preparing a gallon of fruit ready for making jam I had only one thorn in a leg and two glochids, one in each hand. For what it's worth, here's my process.

Harvesting equipment: two cardboard boxes, large tongs, pruning shears and propane torch with flame spreader. Using tongs and pruning shears cut fruit from the plant and lay in one layer of one box making sure they do not touch each other. This is important because thorns from one fruit that get stuck into other fruits will not be removed in the following step and will get you later. When you have one layer in the first box it is time to fire up the propane torch. Holding the picked fruit with the tongs pass the flame over the fruit to burn off the thorns and sear the ends of the glochids. Set the fruit down, rotate ninety degrees, pick up with the tongs and continue the burning operation. The fruit will turn a bright shiny red as the protective wax melts and flows. Now place the fruit in the second box. Repeat the above steps until you have collected the desired amount of fruit in the second box. You are now ready for the cleaning operation.

Now it is time for some body armor. If you are right handed, place a latex rubber surgical glove on your left hand. Rubber is quite tough and does a great job protecting against any remaining glochids. Pick a fruit from the box with the tongs in your right hand and scrub from the flower end downward with a Scotchbright pad removing the charred areoles. Don't forget to rotate the fruit to get under the tongs. Next slice the fruit in half and scrape out the seed mass into a strainer, then peel the remainder and place in blender. When the blender is about full it's time to mash the seed mass and force as much of the pulp through the strainer as possible. Keep scraping off the bottom of the strainer and mashing some more until the pulp quits coming through. Discard the seed unless you want an *Opuntia* forest. Since I'm making jam I don't want the solid portion of the fruit chopped too fine so just pulse the blender on low until the fruit is chopped to the consistency you like. Combine the results with the pulp above and continue until you have sufficient fruit for your recipe.

Now I haven't found any recipes for prickly pear jam so I had to experiment. Here's one that works for me.

8 cups fruit
6 ½ cups sugar
Juice from two lemons
2 packages reduced sugar pectin
1 teaspoon margarine



In a small bowl mix ½ cup of the sugar and the pectin together. Stir pectin mixture into fruit. Add the margarine to minimize foaming. Bring to full rolling boil stirring constantly. Stir in remaining sugar and return to full rolling boil and boil for one minute stirring constantly. Bottle and seal as for any other jam. ▲

(The Saguaro - continued from page 6)

years old. Its trunk was almost 7 feet around. The current championship is shared by six saguaros in Arizona who come within five points of each other on the scales of size used by *AMERICAN FORESTS* in their National Register of Big Trees program.

To view saguaros in their habitat, visit the Saguaro National Park in Tucson. The Park is in two sections, one east of Tucson in the Rincon Mountains, the other west of Tucson in the Tucson Mountains. The climax to their video film is superb. Think about combining a visit to the western section with a tour of the adjacent Arizona-Sonora Desert Museum, where interpretive exhibits of saguaros may be viewed.

Further reading on saguaros

All About Saguaros, by Carle Hodge. Published by *Arizona Highways* about \$9.

The Giant Cactus and its World, by Paul Griswold Howes. 1954 Out-of-print, but sometimes found in used book stores.

The Great Saguaro Book by Susan Hazen-Hammond. 1997 \$16.95

The Ecology of the Saguaro, Part II of the National Park Service Scientific Monograph Series, Number Eight, 1977, by Warren F. Steenbergh & Charles H. Lowe

Relevant addresses

Arizona-Sonora Desert Museum

(Tel: 520-883-2702)

2021 N Kinney Rd, Tucson AZ 85743

<<http://www.desertmuseum.org>>

Saguaro National Park Headquarters

(Tel: 520-733-5100)

3693 S Old Spanish Trl, Tucson AZ 85730-5601

<<http://www.nps.gov/sagu/>>

East District Visitor Center Tel: 520-733-5153

West District Visitor Center Tel: 520-733-5158

Friends of Saguaro National Park

PO Box 18998, Tucson AZ 85731-9998

<<http://www.azstarnet.com/~fosnp>>

This is an entirely volunteer group which raises money for this Park's projects with the aim of ensuring the survival of saguaros and their environment. Members also do much of the physical work involved in some of the maintenance projects. ▲

NOTE CHANGES OF DATES

CSSA Show and Sale

30 Jun & 1 July, 2001

CSSA Convention 2001

1 - 6 July, 2001

(As we go to press 24 July '99)

(Continued from page 1)

want to act as a TCCS salvage team and are looking for more salvage opportunities. There are two more sites posted as potential salvage sites and Dick and Vonn are contacting the owners/developers to see if we may continue our plant rescue.

Thanks to the Amphi school district for allowing us to salvage some of these smaller plants that are not normally saved and to Chris who was instrumental in giving us this opportunity.

The Oro Valley residents care about native vegetation and called the local police to check out what we were doing on the school site. We had the appropriate permit and tags which were verified by the police so there was no problem.

Everyone needs to be aware of the native plant laws and to adhere to them. There is a web site: <<http://agriculture.state.az.us/PSD/nativeplants.htm>> (*nativeplants* is one word) which has files of the laws and permits required for clearing land and salvaging protected native plants. It also includes a 12-page list of the protected plants of Arizona.

For those who purchased plants and used the plastic flats to carry them home, please bring the flats to the next meeting so we can reuse them in further salvage efforts. If you have extra flats that you want to donate to this effort please bring those to the next meeting on August 5. Thank you.

Lois Ladwig Tel: 298-7358

<lois@desertcactus.com>

Dick Wiedhopf

<wiedhopf@pharmacy.arizona.edu>



Succulenta 2000

International Succulent Congress

Dates: 21 to 25 August 2000

Venue: Kirstenbosch Botanical Gardens,
Cape Town, South Africa

World renowned speakers will present papers on Southern African and (other) Succulent Plants. The high standard achieved in the past will be maintained. This will be an occasion not to be missed by anyone seriously interested in the flora and, specifically, the succulent flora of this region.

Provisional prices:

Congress fee (including lunches, teas and all congress material):

\$300 plus \$40 Banquet.

Hotel accommodation can be arranged for participants.

Approximate cost for five nights:

Holiday Inn Garden Court: \$260 per person sharing, \$490 per person (single)

Bed and breakfast accommodation: \$130 per person sharing, \$210 per person (single)

Pre-congress field trips:

Namaqualand (Trip during height of flower season) — 7 days \$1150

Richtersveld and Southern Namibia — 14 days \$2300

Eastern Cape — 7 days \$1150

Knersvlakte, Ceres, Tanqua and Little Karoo — 7 days \$1150

Post-congress field trips:

Eastern Cape and Little Karoo — 12 days \$2090

Northern Namibia including Kaokoveld and Damaraland — 14 days \$3690

Kenya — 14 days \$3030

Single supplement available.

Registrations and enquiries may be sent to the Organizing Committee, Succulenta 2000, Private Bay X10, Hatfield, 0011 South Africa

Tel: +27-11-884-5588 FAX: +27-11-884-5685

e-mail: <afick@iafrica.com> or <kambroo@cis.co.za>

16th Succulent Plants Symposium — Sat. 4 Sept '99 Huntington Botanical Gardens, San Marino, CA

Program:

- ◆ Myron Kimmach, HBG *Collecting Plants in the Wild - A Survey and Proposal*
- ◆ Vic Landrum, Washburn University, Topeka, Kansas, *South African Contributions to American Succulent Gardening in the 20th Century*
- ◆ Gary Lyons, HBG, *The Huntington and its Cactus Collection and Collectors: is there a Future in Ex Situ Conservation?*
- ◆ Reid Moran**, Santa Rosa, California, *Dudleya in the Scheme of Things*
- ◆ Mark Olson, Missouri Botanical Garden, St. Louis, Missouri, *Herbarium and Living Collections of Moringaceae: What are they good for?*
- ◆ Jon Rebman, San Diego Museum of Natural History, San Diego, California, *Scientific Discoveries on Cacti and Succulents in Baja California, Mexico*

Registration:

Symposium \$65.00
Saturday dinner \$25.00

Mail your name(s), address, and a check (made payable to The Huntington) for the appropriate amount to:

Succulent Symposium
Huntington Botanical Gardens
1151 Oxford Road
San Marino CA 91108
Tel: 626-405-2160
FAX: 626-405-2260

The deadline for registration is August 31.

We cannot guarantee meals for late registrants.

Join us as we examine
accomplishments
in field biology
throughout the century



Location of Symposium:

Friends' Hall, THE HUNTINGTON
Library • Art Collections • Botanical Gardens,
1151 Oxford Road, San Marino CA 91108

Time:

Continental breakfast and registration begin at 8.30 a.m. Program from 9 a.m. until 5 p.m. will include speaker presentations, silent auction, garden and conservatory tours, refreshments, and lunch. The optional evening dinner will begin at 6 p.m. on the Garden Terrace.

Other Events:

- ◆ Succulent plant sales
- ◆ Silent auction of rare and unusual plants
- ◆ Tours of the Desert Garden, Conservatory, and new Botanical Center
- ◆ Dinner - optional. (Registrants who choose not to stay for dinner are welcome to join us for the lecture which follows dinner.)

** After dinner speaker

Name(s)	_____
Affiliation	_____
Address	_____
Phone	_____
e-mail	_____
Program:	_____ X \$65.00 _____
Dinner:	_____ X \$25.00 _____
Donation:	_____
Total enclosed	_____

Please use this form, or copy it, to renew your membership or start a new membership.

Tucson Cactus and Succulent Society

1999 Membership Form

Name(S) (F, Mi, Last) _____

Address _____

City _____ State _____ ZIP _____

Home telephone (____) _____ - _____ Work telephone (____) _____ - _____

Fax (____) _____ - _____ e-mail _____

Life \$500 _____ Family \$20 _____ General \$15 _____ Student (18 and under) \$10 _____

New Membership _____ Renewal Membership _____

Are you a CSSA member? YES _____ NO _____ And what can you offer to the Society as a member? _____

Dues run from January 1 through December 31 each year.

Please make checks payable to TCSS, and mail with completed form to:

TCSS Membership Secretary, Maury Clapp, PO Box 91560, Tucson, AZ 85752-1560

(From the Editor's Desk - Continued from page 5)

modern is gone, so he cannot get on line at the moment.

New Desert Gardening Book just out

Desert Gardening for Beginners: How to Grow Vegetables, Flowers and Herbs in an Arid Climate is now available from Arizona Master Gardener Press. This book covers all the basics for desert gardeners. It includes planting calendars that give the best months to sow hundreds of vegetables, flowers and herbs for maximum success. This may be useful to those who have migrated to southern Arizona from chilly winter climes and still want to have a garden, as they used to. Authors are Cathy Cromell, Linda A. Guy and Lucy K. Bradley. Book is available (\$7.95) at bookstores, but call 602-470-8086, ext. 312, if you have difficulty getting a copy.

Plant Finder's Guide to Cacti and Succulents

And another new book: this one by Englishman, Keith Grantham, who has traveled the world looking at succulent plants in their habitats. We are fortunate to have several booksellers as TCSS members - each serving a different function in the book world. Rainbow Gardens Bookshop was expecting a stock of this new book in July. Call TCSS members Chuck or Jerry on 760-758-4290 or e-mail them <RBGdns@aol.com>

Joining the Cactus & Succulent Society of America

If you would like to subscribe to the CSSA's Journal and Newsletter, please ask me for an application form at our meetings. These forms, and others, are usually available on the

library book table. As a member, you will receive six issues per year of the excellent journal, as well as discounted prices on the CSSA conventions every two years.

The Saguaro, State Flower of Arizona

On page 6 you will see an article I wrote about the saguaro for the *WACONIAH*, the newsletter for the garden clubs of the eight western states of the US, including Alaska and Hawaii. The other letters in the name stand for the other six states in the west. Many of you who live among the saguaros may well not even notice them as you pass them by, but I still find them extremely fascinating. This article is included for our distant subscribers.

Processed Bermuda hay

The projected output per annum of my mule is ten tons of processed hay after she has removed the carbon from it. If anyone would like some of this excellent stuff, mainly nitrogen, please let me know.

WANTED: A Different Point of View

Letters to the editor are always welcome. Even if you disagree with something in *Desert Breeze*, that is fine. At least I'll know you read it.

Cactus Carol



The Desert Breeze
design courtesy of Succulent Productions
c/o Carol Clapp, Editor
<kitfox@azstarnet.com>

Tucson Cactus & Succulent Society
c/o Carol and Maury Clapp
PO Box 91560 Tucson AZ
85752-1560

Desert Breeze

Newsletter of the TCSS for August 1999



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NEXT MEETING - Thursday, Aug 5 at 7 P.M.

TCSS Library opens at 6:30 p.m.

Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, AZ 85712

Wendy Beall presents —

*Everything I Know About Plants I Learned By Killing Them:
Tips, Hints and Tricks From The Experts*

Members' Plant Sales and Exchange (see page 3)

Show And Tell - Please bring along your cactus or other succulent and tell us about them
or ask questions about them. Or any other cactus or succulent in flower.

Refreshments by those with names beginning with S-Z and A-D.

Visitors always welcome.

Valarie Miller has volunteered to bring along the soft drinks and ice.

Desert Breeze

Volume 4, Issue 8
SEPTEMBER 1999

**Sonoran 3 in Tucson
May 5, 6 and 7, 2000 AD**

TCSS
Library

NEW OPENING
HOURS

6.30 p.m. to 7 p.m.

at

regular
monthly
meetings.

Returns also in the
break.

REMEMBER -

If you want
to borrow a book on
a particular subject,
call ahead to
908-9001

What a line-up of local experts we have for you!

Mark Dimmitt, John Gilkey, Laurel Gilkey, Matt Johnson, Jude McNally, and James Pickering so far. Connected to our conference theme "The Desert at Night" they will be telling us about night-time pollinators, night bloomers, night time in the desert, specific genera which bloom at night, specific pollinators of cacti and succulents, et cetera. Laurel will give you the chance to taste the food of the desert and drinks made from cacti and other desert plants. Jude of the Arizona Poison Control Center will tell about the Sonoran desert life which bites and stings. John Gilkey is an expert on graphics and animation on the computer, so . . . as usual with Tucson's conferences there will be a lot of fun and chance to learn. Lots of workshops, lots of space, lots of vendors, silent auction and more. Pre-conference tours are planned for early arrivals and Saturday will be fun night. Special rates at the Inn Suites at St. Mary's and I-10 have been fixed, with a choice of room, 2-roomed suite, or the Clinton suite - you'd better book that one to find out what you get!

To receive the registration package when the program is finalized, please send your snail mail address to Cactus Carol Clapp <kitfox@azstarnet.com>, FAX 520-908-0396 or send to PO Box 91560, Tucson AZ 85752-1560. TCSS members will be sent the registration package when it is available.



Business Page: Board Meeting dates; Copy Deadlines	page 2
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Board Meeting Reminder

Please make a note in your calendars of the following Board Meeting dates for 1999:

September 16

October 21

November 18

(July 15 Board Meeting was cancelled due to weather)



All are third Thursdays in the month.

Place: College of Pharmacy, Mabel and Warren, at 7 p.m.

Officers and Directors: Please call Joe Costante or Maury Clapp if you are unable to attend any of the above meetings.

TCSS members: Any of you are welcome to sit in on board meetings. The agendas are published in the preceding issue of *Desert Breeze*, so if you have something to say about any of the items due for discussion, please get in touch with Maury Clapp or Joe Costante.

Sonoran 3 Committee

Co-Chairs:..... Al Coritz and Dick Wiedhopf

Facilities:..... Al Coritz

Program:..... Dick Wiedhopf

Registration:..... Maury and Carol Clapp

Vendors/Vendor Displays:..... Wendy Beall

Consignment Sales:.....

Silent Auction, Raffle:..... Al Coritz

Plant Show:..... Linda Ryan and Lois Ladwig

Publicity - local:..... Vonn Watkins

Publicity - non-local:..... Carol Clapp

You will see that the Consignment Sales slot is vacant.

Wouldn't you like to take that on? You get more enjoyment out of being active in the society, and particularly when helping promote our super conferences. Dick or Al would love to hear from you. Their telephone numbers are to the right.

Circulation of *The Desert Breeze*:

August's mailed circulation was 254 copies. Other copies were distributed at TBG and elsewhere. Mailed to all members of the Tucson Cactus & Succulent Society; the President of the CSSA and Editors of its publications; some affiliate representatives of CSSA, some newsletter editors of other affiliated clubs, surrounding societies, all Tucson libraries, Visitors Bureaux, various local media, and others at the discretion of the publisher.

CHANGES OF ADDRESS

If you change your address, please let the editor know asap. If the Post Office forwards the *Desert Breeze* to your new address which we don't know about, it costs the TCSS 50¢. If the PO returns the *Desert Breeze* to us, it costs 82¢ in addition to the postage already paid.



Tucson Cactus & Succulent Society

Founded 1960

OFFICERS AND BOARD 1999

PRESIDENT: Maury Clapp 908-9001

VICE-PRESIDENT: Al Coritz 682-8333

SECRETARY: Joe Costante 825-2357

TREASURER: Kathryn Fridlind 325-8447

BOARD OF DIRECTORS:

(terms expire December 31 of year indicated)

Immediate Past-President: Dick Wiedhopf 885-6367

Marty Harow 1999

George Nadler 1999

Mary Odette 1999

Sara Perper 1999

Dan Birt 2000

Lois Ladwig 2000

Jack Ramsey 2000

Ron Fridlind 2001

Linda Ryan 2001

Vonn Watkins 2001

AFFILIATE REPRESENTATIVE TO CSSA:

Carol Clapp (520) 908-9001

e-mail: kitfox@azstarnet.com



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Tucson, AZ 85752-1560

The *Desert Breeze* is the Newsletter of the Tucson Cactus & Succulent Society.

Please send your copy to arrive by the 20th of the month preceding the following month's issue to the Editor.

TCSS Web Page

<http://www.desertcactus.com/tcss/>

TCSS WEBMASTER: Lois Ladwig

e-mail: lois@desertcactus.com

Check our web site for TCSS activities and read the archive section of summaries of talks we've had.

Deadlines for Copy to Editor

Articles — 20th of month preceding month of issue

Advertisements — 15th of month

preceding month of issue

Details of advertising rates may be obtained on application to the editor of *Desert Breeze*

TCSS Calendar of Events

Meetings are usually held on the first Thursday of the month at the Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, at 7 pm.

Note: Library will open at 6.30 p.m. and close at 7 p.m. for members to borrow and return books.

Sept 2 Dan Birt talking on Taxonomy.

Dan was given a TCSS Honorary Life Membership a couple of years ago in recognition of the work he has done within the Society. Roger Lincoln in his *A Dictionary of Ecology, Evolution and Systematics* quotes **taxonomy** as "The theory and practice of describing, naming and classifying organisms; systematics; biosystematics; genonomy." In other words, the naming of plants, etc. You may think you don't need to know the name of a plant and couldn't possibly remember all their names, but it sure helps if you can tell someone else the generic name of a particular plant when you need to know something about it, instead of saying, "I've got one like that and it has pink flowers." when it may be a completely different genus from a different continent. Taxonomy also includes genetic variability, hybridization, local adaptations etc. In a nutshell, Dan will endeavor to give you a better understanding of how your plants got their names.

Members' Plant Exchange: Bring your surplus offsets and swap or sell or give.

Show and Tell: Norma always hauls in some of her interesting plants, so how about more of you bringing in one of yours?

Soft drinks by July Door Prize Winner, MARTY HAROW.

Light refreshments by members with names beginning with E to R. *And please don't stay away because your name begins with one of these letters - you don't know what you might miss!* And if you happen to forget, don't worry — you won't be excluded from having a drink and a snack, unless everyone forgets at the same time.

Oct 7 Travels in Baja California by Regina Rodgers

Nov 4 TBA

Dec 12 (Sunday) Christmas Party



Sonoran 3, the third in our series of workshops and talks will be on May 5, 6 and 7, 2000 at the Inn Suites Hotel at St. Mary's and I-10, Tucson. Don't miss it!

TCSS LIBRARY

This normally opens at 6.30 p.m. before our regular monthly meetings. In future it will close at 7 p.m. so that we can all hear what is going on at the meeting. If you are late arriving and have books to return, please hand them in at break time.



Welcome New Members

George E. Dodds, Why, AZ 85321
James and Virginia Coniglio, Tucson
<jconiglio@aol.com>

(310) 285-3119
546-3684



We now have 193 members.

Arnold White and his wife now have a new home —

3015 Appalachian Dr., Columbia MO 65203

We wish them every happiness there and hope the greenhouse gets up in time before the winter.

Mammillaria by John Pilbeam Pre-publication Offer

Mammillaria by John Pilbeam is about to go to press ready for publication in September. Over the last 20 years John has established himself as arguably the world's most prolific writer on all things succulent, but with this book he returns to his first and true love, the genus *Mammillaria*. This Handbook is number 6 and is the largest yet in the Cactus File Handbook series with 376 pp, 425 color pictures and 340 distribution maps. This new Handbook will eclipse all that has gone before and is expected soon to become THE primary reference with its more extensive coverage and comprehensive color illustrations. This is a completely new publication with much more information on each species—it is not just an update of John's previous book on *Mammillarias*, which has long been out of print.

The contents list includes The Genus *Mammillaria*, distribution and classification, cultivation, cristate *mammillarias*, checklist of accepted names, commentary on species, new combinations published in this book, variations of merit, superfluous names and synonyms, field collection numbers, bibliography and abbreviations of listed herbaria. Sample content of one chapter can be viewed on-line at <<http://www.cirioweb.com/cactus/>>

From November the price for *Mammillaria* will be UK£69.50 for USA delivery. If ordered now from the publishers you can save over \$10.00 on the special pre-publication price of UK £62.50, to include postage and packing with special 14-21 day airmail book service to USA.

The publishers are Cirio Publishing Services Ltd.,
5 Chevron Business Park, Lime Kiln Lane,
Holbury, Southampton SO45 2QL, England
FAX: +44 23 8089 3348
E-mail: booksales@cirioweb.com

You may FAX your credit card number to them (Visa/MC) or order by e-mail. This book will be available after publication from booksellers in this country, if you prefer not to take advantage of this special pre-publication offer.

Other Societies' Events to pique your Interest

We strongly recommend you check dates, times and venues before travelling a long way to any of the events listed below. Changes sometimes occur at the last minute. Some of our members travel all over this country and like to know if there are any cactus activities locally to help them feel at home.

1999

- Sept 4 **Huntington Symposium, HBG**
Call 626-405-2160 or 2277 for more details
Application forms in last *Desert Breeze*
- Sept 10-12 **Kansas City C&SS Show and Sale**
- Oct 16 & 17 **Orange County C&SS Show and Sale**
at the Fullerton Arboretum
For more info call 714-539-8773 or see
advertisement in last month's *Desert Breeze*.
- Oct 23 & 24 **San Gabriel Valley C&SS Winter Show,**
Arcadia, CA. Info: Woody Minnich on
805-944-2784
- Nov 13 & 14 **Gardeners of Tucson Flower Show**
includes classes for cacti and succulents
Foothills Mall, Tucson. Judging on Sat 13.
Call Dean Rucker for details 296-4950
- LOCAL Nov 14 **Pima County Fall Gardening Fair**
Lew Sorensen Center,
11100 E. Tanque Verde Rd, Tucson.
- LOCAL

And for your long-term planning

2000 and beyond

2000 AD

- Feb 18-21 **C&SS of New Zealand 52nd Annual General Meeting and Convention.**
Plymouth Hotel, New Plymouth. Info from
Sandra Spence <spence@taranaki.ac.nz>
- Feb 25 & 28 **South-Eastern Conference, Miami, FL**
Info from SFCSS Inc., PO Box 161407,
Miami, FL 33116 or <sflacactus@aol.com>

Mar 21

April 8 - 15

June 9-11

July 1 & 2

Aug 25-27

Aug/Sep

Sept 2

2001 AD

Mar 13-16

June 24-29

July 7 & 8

Sept 1

2002 AD

July 6 & 7

Aug 31

2003 AD

???

July 5 & 6

Aug 30

Midwest C&SS Show and Sale,

Botanical Garden of Greater Cleveland.

Info from Penny Chaikin 216-381-2525

CSSA Field Trip to Big Bend in Texas**The 20 available spaces are being allocated in order of receipt of deposit, do not delay!**

Info from Borderland Tours,

2550 W. Calle Padilla, Tucson AZ 85745-2520

Tel: 1-800-525-7753 or 520-882-7650

Mid-America C&S Conference, St. Louis MO

Info Kathy Malon <katmalon@worldnet.att.net>

CSSA Show and Sale

Huntington Botanical Garden, San Marino, CA

Eastern Regional Conference

Connecticut C&SS. Info: Phillip Allen at

<PAllen9254@email.msn.com>

Succulenta 2000, Cape Town

<gasteria@mweb.co.za>

Fax: +27-12-993-3588

Huntington Symposium, HBG**Succulenticon 2001**

C&SS of the ACT, Canberra, Australia

In case you are planning a trip down-under, get

info from Annette & Mike Smith, PO Box 484,

Mawson, ACT 2607, Australia, or e-mail them

<mmsmith@dynamite.com.au>

CSSA Biennial Convention

in Woodland Hills, CA

CSSA Show and Sale, HBG**Huntington Symposium, HBG****CSSA Show and Sale, HBG****Huntington Symposium, HBG****CSSA Biennial Convention, St. Louis, MO****CSSA Show and Sale, HBG****Huntington Symposium, HBG****HBG**

is the

Huntington Botanical Gardens

1151 Oxford Road, San Marino, CA 91108-1299

For information on any of the events listed at this location,
call 626-405-2160 or 2277

Motels in Pasadena and Arcadia are nearby.

Did you know . . . that in 1903, H. E. Huntington

purchased San Marino Ranch,

where he began to create his estate,

complete with museum collections and botanical gardens?

*The Desert Breeze*

is produced courtesy of Succulent Productions

c/o Carol Clapp, Editor

<kitfox@azstarnet.com>

Bulletins, Newsletters, Brochures, Booklets

Price Lists, Bulk Mailing, et cetera

From the Editor's Desk

At the August meeting, we had a fascinating presentation by our member Wendy Beall. I endeavored to take notes of her talk, but was regularly interrupted by others asking me questions while she was speaking so, unfortunately, I missed some of her delightful talk, but I've written a summary which starts on the next page. A few years ago in my squadron, we always insisted that the air cadets engaged brain before mouth, especially when about to make an RT (Radio Telephony) transmission when flying. Although not a matter of safety when on the ground if some people talk while others are already talking, it makes it exceedingly difficult trying to listen to the speaker and to make comprehensive notes at the same time. I missed a lot of the program and never even saw the refreshment table.

We now have 193 members. The club is thriving and we are growing fast. Obviously the workload has increased. Every mailing takes longer, more newsletters to fold and mail. Again, we are happy to do this, but it would be a great help if anyone who is going to miss a meeting makes sure that someone in particular will stand in for them. You may be out-of-town on vacation, but we are always out-of-town. It is a seven hour outing for us to attend a TCSS meeting and it makes it hard work when we have to fill in for others' absences.

In future the library will be open from 6.30 p.m. to 7 p.m. and will then close, so that there aren't two or more 'meetings' going on at once. This is common practice in cactus clubs to have their library open for 30 minutes prior to the start of the meeting. It is also planned to make the membership chairman more visible. Vonn—maybe you could sport a RED HAT at the meetings? Lack of space prevents our having everything at every meeting, so to reiterate about the plants we have at meetings: at meetings where there is a specific group of plants as the subject of the talk, free plants will be given to members in return for their name badge at the end of the meeting. When the subject of the meeting is of general nature, we will have members' plant exchange or freebies or sales. If anyone doesn't like to take plants for nothing they are welcome to make a voluntary donation to TCSS funds if they wish, but that is certainly not obligatory. Many thanks to those who have already made donations in this way.

The more one is involved with the running of any club, the more enjoyment one usually gets in return. But there is a limit. I want to continue to be able to enjoy our meetings instead of wearing a dozen hats. What has happened to old-fashioned initiative? Did it go the way of the three R's?

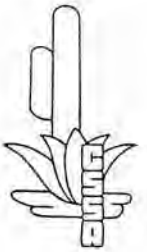
Food for thought. And don't eat all the cholla buds - leave some for me.



Post Script: If you don't know what initiative is, come take a lesson from my mule. And if you aren't sure about the three R's, she can also help you with that - she is pretty good at making a statement.

Contents of CSSA journal for September-October 1999

The Sept-Oct issue of the journal of the Cactus and Succulent Society of America (to be mailed out around Oct. 1) will be:



Botanists in Paradise. Part 2. Adventures in Peru,
by Edward Anderson & Robert Wallace.

Pediocactus --the not-so-plain "cactus of the plains". Part 1,
by Fred Dortort.

Mary Bellerue-Bleck, by John Lavranos.

Avonia, Mammon, and the fleshpots of Vegas,
by Steven Hammer.

Notes on two aloes from Yemen, including the description of a new species,

by P. Favell, M. Barry Miller & Abdul Nasser al-Gifri.

Bruce Bayer, Pierre Braun, James Mauseth and Graham Williamson are named CSSA Fellows,
by Larry Mitich.

New locations for Ariocarpus agavoides,
by W. A. & Betty Fitz Maurice.

Superb Succulents, by Duke Benadom.

Spotlight on Round Robins, by Engelke & Fleischmann.

Highlights of this issue include a detailed account (the first of two parts) on *Pediocactus* in habitat and cultivation (lots of good photos!). John Lavranos contributes a touching tribute to Mary Bleck, the nurserywoman-botanist who was active for some years in South Africa. A presentation by Steven Hammer summarizes some disturbing recent events in the field of conservation and discusses an alternative to collecting or buying illegal plants.

Myron Kimnach

CSSA Journal Editor

(See next page to find out how you can get this journal.)

Your President's Comments

Well, here we are two-thirds of the way through another year and it's time for your Board of Directors to start thinking about the annual meeting. At its next meeting the Board will be electing the Nominating Committee for this year and they will be contacting many of you regarding positions to be filled for the next year. This advanced notice is not intended to give you time to think up your excuse for not becoming an active participant, but rather to give you an opportunity to think about how you can help run your club. Learn to say YES; or even better take the initiative and contact a member of the nominating committee and let them know what you would like to do. The responsibility for the various positions, elected and appointed, are shown in the proposed Standing Rules published elsewhere in this *Desert Breeze*.

(Continued on page 6)

How to Join the Cactus & Succulent Society of America

The CSSA is an international organization dedicated to education, protection and preservation of some of nature's most unique creations.

For your membership you will receive a subscription to the *Cactus and Succulent Journal*, the opportunity to obtain rare seeds at nominal cost, and the chance of meeting many other cactophiles, who share their enthusiasm and interest, at meetings, conventions, conference, and shows.

- ☐ CSSA Membership U.S. \$35.00
☐ CSSA Membership Foreign, inc. Canada and Mexico, \$40.00

Name (please print) _____

Address _____

City, State, ZIP, Country _____

VISA/MasterCard Number _____

VISA/MasterCard expiration date _____

Signature _____

Please send your application to:

Mindy Fusaro, CSSA, 3234

PO Box 2615, Pahrump NV 89041-2615, U.S.A.

Alternatively, pick up a membership application form from the TCSS Library table at our monthly meetings.

Note on July's TCSS Meeting

Marty Harow won the door prize of *Kalanchoe beharensis*; John Ross won the *Euphorbia amarak* in the raffle, and David Richter was the extra lucky winner of the salvaged *Peniocereus greggii*

(Your President's Message continued from page 5)

Coming up in November; an opportunity for members to sell their plant propagations to the public. TCSS has been invited to participate in the Pima County Fall Gardening Fair to be held Sunday, November 14, 1999 at the Lew Sorensen Center, 11100 E. Tanque Verde Road. Details of how the sales will be handled will be worked out and published in the October *Desert Breeze*.

In the meantime start readying your plants for this event. Remember the market for this event is the general public, not cactus enthusiasts; so the things that will sell are those plants potted up ready to put on a window sill. Also, photographs of the plants in flower are a great sales aid. Think about it; what would sway you to buy a petunia?

Maury Clapp

Notes on TCSS August meeting

Arnold White, our treasurer until early this year, returned briefly from his new home in Columbia, MO, and came to the August meeting. We were happy to see him again.

The President welcomed guests and new members who had joined since our last meeting.

The President, Maury Clapp, introduced member Wendy Beall, our speaker for the evening. Her talk "*Everything I know about plants, I learned by killing them: hints, tips, and tricks from the Experts*" was interesting to us all and certainly gave us plenty to laugh about.

"Wendy started growing house plants in the early seventies, when house plants became particularly popular and when she was living in off-university housing while getting her Master's degree. 'I'm going to grow plants,' she said as she stomped her foot. The first plant was a little tree which she kept on a bookshelf. She looked at it and checked out the soil and it grew. 'Now I can't stop buying them!' She reckons she made more mistakes than most of us. An 'expert' in any field has the chance of making more mistakes than we can ever get to do. '[Commercial] Growers make mistakes wholesale whereas we hobbyists make them at a retail level.'"

Wendy told of big mistakes some of the commercial growers made from which they learned a lot. And the commercial growers could name the dates when the mistakes occurred.

Jon Weeks grows his plants hard by watering tough, no water after Halloween . . . ever. In August 1988 he got 8000 small golden barrels in 1 gal. pots. He left them out and on December 27 1988, the coldest night in 40 years it fell to 9°F. That night he lost everything. Just a heap of mucous and spines remained. The lesson learned: don't put plants out that are marginal.

Gene Joseph found out the hard way that one year plastic tanks in winter when it freezes. He went to bed one night — December 9, 1978 — and it got cold. The plastic over his 40ft x 20ft greenhouse tanked in the freeze that night and shattered exposing the entire collection of plants. Gene lost 75% of his rare plants that night. Gene learned that one year plastic doesn't last even one year in Tucson.

Another tragedy— a grower went out one hot summer's day. The sump pump and fan were on the same circuit. The pump blew the fuse. The greenhouse was closed and the temperature reached 107°F in the greenhouse, but rose to 130°F on the benches. Lesson learned— don't put the pump and the fan on the same circuit. The bigger the greenhouse, the higher the loss.

Many growers believe the monsoon is the best time to start seedlings, but this also favors rampant fungus from the same dampness. 100% germination may take place. Then, in just one cor-

(Continued on page 7)

(Continued from page 6)

ner, some crud starts and spreads through lush green seedlings. By the time you realize damping off is happening, it is too late for any amount of chemicals to save the seedlings.

Then there are lessons learned by newcomers to this [Tucson] area. Pot up your plants and leave them outside unprotected. They look so pretty. Within an hour the birds peck them to death.

Rain shelters have to be built. Plant seeds in shallow pans and the monsoon rains wash out everything from the flats.

Another problem we all have. Shortage of time. We see something which needs attention and put off the repairs to some other time when we've got time. You plant out some succulents such as haworthias, intending to get the wire netting around them soon, but the rabbits graze them. You decide to 'baby' some plants by giving them a bit more light. While you are away, the sun comes out. By the time you get home, the plants are toasted.

Murphy's Law dictates that when you leave instructions for someone else to care for your plants while you are on vacation, the weather changes. It happens to us all. You leave instructions for watering and it rains all the time you're away, or there is a drying wind and blazing sun which you hadn't expected. Growers have bigger problems than hobby growers. Remember — we're never too old to kill a plant.

Miles Anderson recommends you pot a new plant in your compost immediately you get it home. Put it in the same dirt as you are used to. That way, the watering will be easy and standardized. If you decide to change your potting mix, change one component part at a time. Don't change all facets at once in your diligence to make a good compost.

Then there is the problem of new plants which may or may not have a double dormancy. Mick Reed says "Consider how plants grow in habitat." There are the 'happy accidents', such as when Wendy had an *Adenia perrieri*. It grew into a long stick, so she cut it off to one foot, stuck the cut piece in the pot beside the stump. And it grew. Lesson learned—this *Adenia*, thought not to be able to be propagated from cuttings, will grow from cuttings if you start it off as it breaks dormancy."

Saving our Native Cacti

Dick Wiedhopf spoke on other possible salvage sites where the TCSS might be able to save more cacti from being bladed by bulldozers. If you are interested in this and would like to be kept informed so you can help with salvaging, please contact Dick Wiedhopf, Vonn Watkins, Lois Ladwig, or Chris Monrad.

Show and Tell

Norman Beckman showed us her *Cissus rotundifolium* and *Kalanchoe* hybrid "Coral Bells". Norma would like to see Show and Tell plants from more members.

Water Gardening

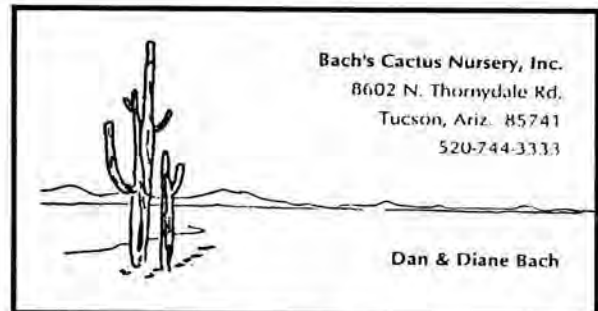
Jean Lewis announced a new club for Water Gardening. If you want to know more about this call Jean on 743-9963.

Door Prize and Raffle

Our newest member, Virginia Coniglio, won the door prize, *Amorphophallus konjac*. This means that she, as door prize winner, is due to bring along some soft drinks and ice to the October meeting. (To be reimbursed by TCSS Treasurer, Kathryn Fridlind) The raffle prizes went to Carol Otteson, *Agave americana medio-picta*; John Ross, *Opuntia engelmannii* v. *alta*; and to Valarie Miller, the *Amorphophallus konjac*. All these plants came from Bach's Cactus Nursery, and we thank Dan and Diane Bach for donating the *Opuntia*.

Notes on how to keep *Amorphophallus*

Keep moist, not wet. Likes cool, not cold, dormant in winter. Grows from bulb, large purple flower. 20,000 people visited it in Huntington Botanical Garden. It is pictured in *The Secret Life of Plants*.



British C&S Society Journals

The TCSS subscribed to the BCSS and received their journals. Not one of these is listed in the library list, nor is there a single issue in the actual library. They are the property of the TCSS.

Who has these journals?

Please let Carol know on 908-9001 asap if you know where they are.

PS None of the books previously reported as missing from the TCSS Library has turned up.

Report on Library Activities

Borrowings from the TCSS Library are increasing and by more members than before. We still need to get over fifty books covered before their dust jackets completely disintegrate. The most popular books are still the more general ones with lots of photographs and drawings which are of greater help to those trying to gain experience with different genera and learn a lot fast. Second most popular are those books covering xerophytic gardening. Least popular are the foreign language ones and the serious monographs.

Editor, with Library Committee Chair hat on

TCSS Board Meeting Agenda for September 16, 1999

(Note that July meeting was cancelled due to weather)

Apologies for absence.

Approval of minutes of last meeting.

Finance Committee Report - Kathryn

Silent Auction results

Non-profit status

Membership Committee - Vonn

Resolved that the membership chairman be authorized to spend up to \$25 for purchase of literature holders to be distributed to nurseries displaying TCSS membership applications.

Program Committee -

Program for: Oct.
Nov.
Dec. and so on.

All with current bios of speakers to editor of DB.

Consideration to Nov 14 Pima County Parks & Recreation Fall Gardening Fair to "sell plants, sell books, recruit members, let people know about your group."
Venue: Lew Sorensen Center, 11100 E. Tanque Verde Rd, Tucson

Monthly Meetings— Carol

Resolved that door prize tickets be given out only to those who sign in before the talk starts.

Library Committee - Carol

Borrowing is increasing. More books on loan to more members than previously.
Still need to get 50+ of the books covered, plus repairs to spines etc. and to select those for sale to create an income to help repair the books we retain.

Sonoran 3 Committee - Dick

Standing Rules revision - Maury. See current rules, including suggested adjustments on this page and the next page.

Cruise as fund raiser - Marty Harrow

Inactive Board members - Maury

Election of Nominating Committee

Member Initiatives:

Move refreshments to end of meetings — Helen Housman

Donate \$200.00 to TBG from Silent Auction proceeds — Mary Church

Photographic Contest— Barbara Eiswerth-Aymard

Reimbursement for travel expenses for members—Mary Church

Other Business

Next Board meeting - Oct 21, 1999, followed by Nov. 18.

Adjourn



TUCSON CACTUS AND SUCCULENT SOCIETY (The Society)

SPECIAL RULES OF ORDER

Revised August 17, 1999

MEMBERSHIP CATEGORIES & DUES:

Life members are individuals (or husband & wife) who at any time make gifts of \$500 or more to the Tucson Cactus & Succulent Society Inc.; they would not be expected to pay any additional dues.

Honorary Life member are members recognized by the Board of Directors for distinguished service. They would not be required to pay additional dues. They would be given a Certificate of Merit and a special membership badge (see duties of Membership Committee).

General members are individuals who pay regular membership dues.

Associate members are individuals residing at the same residence as a General member and who pay Associate membership fees. Associate members enjoy all the privileges of General members except they share the publications and mailings of the General member.

Student members are individuals who are pursuing a course of study in a recognized school or university.

Dues Amounts:	General	\$15.00
	Associate	\$ 5.00
	Student	\$10.00

OFFICE AND LIBRARY:

The President will establish an official address and, if possible, make arrangements for a permanent place for Board of Directors meetings, a place to keep records and Library materials, and telephone number and answering service.

SPEAKERS & PAYMENTS:

Members of the Society will not receive an honoraria for speaking at regular meetings of the Society. They may receive reimbursement for special costs as approved by the Board. This does not apply to special events such as Sonoran Conferences.

Honoraria for non-members of the TCSS who give a program at our meetings shall be \$50 for those who live in the Tucson vicinity and shall be \$100 for those who must travel 100 miles or more.

Honoraria and costs associated with special events will be determined by event committee and approved by the Board of Directors.

SPECIAL DUTIES:

BOARD OF DIRECTORS: In addition to the responsibilities assigned in the by-laws, each Board member will be appointed to serve on one or more of the Standing committees and is expected to take an active part in the functioning of the committee. Board members that fail to be active as evidenced by failure to attend three consecutive board meetings or committee meetings without excuse in advance shall be deemed to have vacated the position.

PRESIDENT: (see by-laws)

VICE-PRESIDENT: In addition to duties assigned in the by-laws, the vice-president shall be the Program Committee chairman.

SECRETARY: In addition to duties assigned in the by-laws, the secretary shall be the membership committee chairman. Will prepare and distribute announcements of all Board meetings, keep the Special Rules of Order current by appending action decisions by the Board of Directors, and keep the President informed of necessary action decisions reached by the Board during the current year or at any time in previous years.

The Secretary's annual report shall consist of a file including a record of all membership committee and Board of Directors meetings, a fully updated Special Rules of Order statement, a current membership list, a copy of the current Certificate of Incorporation, copies of the announcements sent to the Board concerning meetings, copies of official correspondence and committee reports, and inventory with location of all TCSS property.

TREASURER: In addition to the duties set forth in the by-laws, the treasurer will serve as chairman of the Finance Committee. At each membership meeting report the financial status of the Corporation, and submit to the Secretary and Editor a copy of the financial status statement for file as an addendum to the Secretary's regular report and publication in the *Desert Breeze*. The Treasurer's annual report shall contain a financial statement for the year, a copy of the Auditor's report, a copy of current liability insurance policies, a copy of the year's Federal and State Income Tax reports, and other documents or correspondence having to do with the financial affairs of the Corporation. It is also his/her responsibility to be familiar with sales tax laws.

AFFILIATE REPRESENTATIVE: In addition to the duties set forth in the by-laws, the Affiliate Representative will prepare an Annual Report, including copies of all official correspondence.

STANDING COMMITTEES:

MEMBERSHIP: The membership committee, which shall consist of the Secretary who shall serve as chairman and three additional Board members, shall collect dues and give receipts; contact or send reminder notice to delinquent members; promote activities aimed at obtaining new members; maintain a computer based membership system; design and present in draft form to the Board of Directors for approval attractive application sheets, name cards, information brochures and circulars regarded as useful and desirable in connection with membership and promotional development, and when approval is given, to be responsible for its printing and distribution; and design and present to the Board of Directors for approval the Certificate of Merit and special name badge needed in connection with Honorary Life Memberships.

PROGRAM: the membership committee, which shall consist of the vice-president as chairman and three or more board members, shall arrange programs for general membership meetings; arrange for special meetings, field trips, tours, auctions, etc. as deemed appropriate; and plan the holiday party and annual meeting in December. Three months in advance of meetings, to send program details and biographical information on the speaker in writing to the Secretary and Editor (for the announcements), to the Publicity Officer, and to the President (for information). At membership meetings, to introduce speakers and chair discussion periods. To arrange for plant door prizes and manage drawings; to arrange for and distribute free plants at membership meetings in accord with Board of Directors decisions.

LIBRARY: The Library committee shall consist of three Board members and shall select its own chairman. The library committee shall appoint a librarian and one or more assistants and shall oversee the operation of the library. Additionally, the committee shall make recommendations to the Board regarding the acquisition and disposal of volumes from the library.

FINANCE: The treasurer shall serve as chairman of the Finance Committee which shall consist of the Treasurer and three additional Board members. The Finance committee shall be responsible for planning activities to ensure a stable funding source for the society's activities.

SPECIAL COMMITTEES:

The President shall appoint the following special committees; or some of them; plus others at his/her discretion:

CONVENTION: To plan and promote a program in non CSSA convention years, designed to tell the Desert Story - especially in relation to plant species, history, adaptation, influence, beauty and sustaining power.

HOSPITALITY: Hospitality Chairman is responsible for arriving early at the meeting room and setting up the chairs and tables, with assistance of two others on Hospitality committee. He/She should greet everyone as they arrive at the door and hand them their name badge and a ticket for the door prize as they sign in. They should also collect badges as they leave.

REFRESHMENT: This Committee shall consist of two persons who will make sure that volunteers are found to bring some light refreshments for the next meeting, and to remind them nearer the time. They will also be responsible for making the coffee and providing some alternative drink(s) - this to include purchasing the coffee etc.

PUBLICITY: Publicity Chairman shall issue press releases as appropriate and keep our name and our activities in the public's eye. His/Her committee shall include one member who will handle local advertising in all media. The Affiliate Representative will cover the advertising of special events to other cactus societies and in their publications.

SUNSHINE CHAIR: This person shall be aware of members who are sick and send them cards from the Society and check on their progress from time to time, as appropriate, and convey such information promptly to *Desert Breeze* editor.

EDITOR: The Editor will be responsible for the publication of the *Desert Breeze*, publishing a minimum of four (4) issues a year.

WEBMASTER shall update the TCSS web page regularly.

DRAFT August 17, 1999

Tucson Cactus & Succulent Society
c/o Carol and Maury Clapp
PO Box 91560 Tucson AZ
85752-1560

Desert Breeze

Newsletter of the TCSS for September 1999

Sonoran 3

2000 AD

May 5 - 7, 2000

See page one.

BULK RATE
U.S.
POSTAGE
PAID
TUCSON AZ

ADDRESS SERVICE REQUESTED

NEXT MEETING - Thursday, Sept 2 at 7 P.M.

TCSS Library will be open between 6:30 p.m. and 7 p.m.

Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, AZ 85712

Dan Birt, Honorary Life Member of TCSS

**Speaking on Taxonomy, or the Naming of Your Plants
and how to tell the difference between them.**

Members' Plant Sales and Exchange. Door Prize etc.

Show And Tell - Please bring along your cactus or other succulent and tell us about them or get answers to your questions about them. Or any other cactus or succulent in flower.

Refreshments by those with family names beginning with E to R.

Door Prize winner at July meeting MARTY HAROW will be bringing soft drinks and ice. (for reimbursement)

Visitors always welcome

ADMISSION FREE

Desert Breeze

Volume 4, Issue 9
OCTOBER 1999

Sonoran 3

2000 AD

May 5, 6 and 7

in

Tucson



LATEST NEWS



A

MARK SITTER

SPECIAL



See page 7



Free Plants are Back

Free plants are back. This was one of the many decisions reached at the September Board meeting. One plant per attendee. It was decided that free plants encourage members to try new species in their collection and were more appreciated than the members' plant exchange. Space limitation precludes holding both at each meeting; therefore, members' plant exchanges will be limited to two times a year.

The revised Special Rules of Order printed in the last *Desert Breeze* were adopted with minor revisions. The adopted version is printed elsewhere in this *Desert Breeze*. Please look it over. The responsibilities of Officers and Board members are spelled out and several Special Committees are identified. Think about which position you could fill. It takes a little effort from many members to make TCSS work; if only a few do all the work they soon tire and the club declines.

The nominating committee charged with the responsibility of coming up with a slate of Officers and Board members for the year 2000 is Jack Ramsey, Chairman; Carolyn Costante; and Charles Bachman. Please think twice before saying NO should you be contacted

regarding accepting nomination for one of the positions open. [*Preferably, don't say NO - just offer to join in and help run the club. Ed.*]

Use of your library has increased considerably since the Library Committee has been bringing books to the meetings. If you want a particular book, or one on a particular subject, call Carol on 520-908-9001 a few days before a meeting and if it is in the library it will be made available.



Sonoran 3, May 5, 6 & 7, 2000.

The conference committee reports that the framework for the event is in place. The facilities are under contract and most of the Speakers and Workshop Leaders are signed up. Now it is time for additional members to get involved. We need help with the plant show, club sales, silent auction, banquet decorations, etc, etc, etc. Let me know which part you would like to help with.

Maury Clapp, President

Business Page: Advertising in <i>Desert Breeze</i> ; Board Meeting dates; Copy Deadlines	page 2
Calendar of TCSS Events; Other Events	page 3
Report on TCSS September Meeting	page 4
TCSS Special Rules of Order as approved by the Board of Directors September 16, 1999	page 5
Plants of Baja — a list compiled to ease your note taking	page 6
TCSS 1999/2000 Membership Application Form; Sonoran 3	page 7

Board Meeting Reminder

Please make a note in your calendars of the following Board Meeting dates for 1999:

October 21 *** November 18

Both are third Thursdays in the month.

Place: College of Pharmacy, Mabel and Warren, at 7 p.m.



Officers and Directors: Please call Joe Costante or Maury Clapp before lunch time on the day of the meeting if you are unable to attend any of the above meetings.

TCSS members: Any of you are welcome to sit in on board meetings. The agendas are published in the preceding issue of *Desert Breeze*, so if you have something to say about any of the items due for discussion, please get in touch with Maury Clapp or Joe Costante.

T.C.S.S. Committees

The following committees consist of TCSS board members and enable some aspects of running our Society to be dealt with in small groups to save spending so much time at board meetings on every point. Recommendations are made by each committee, as necessary, to the board of directors.

Finance Committee:

Chair: Kathryn Fridlind
Marty Harow
Jack Ramsey
Dick Wiedhopf

Membership Committee:

Chair: Vonn Watkins
Maury Clapp
Joe Costante
George Nadler

Program Committee:

Chair: Al Coritz
Dan Birt
Lois Ladwig
Linda Ryan

Library Committee:

Chair: Carol Clapp
Ron Fridlind
Mary Odette
Sara Perper

Advertising in *Desert Breeze*

Camera-ready advertisements should be sent to:
TCSS President, Maury Clapp,
PO Box 91560, Tucson AZ 85752-1560.

All advertisements must be received with check payable to TCSS no later than the 15th of the month prior to the month of insertion. Upon approval of the content and style of the advertisement, and after verification that the advertisement complies with the Post Office bulk mail regulations of no ads for Credit Cards, Insurance, or Travel Agencies, the ad will be inserted in the next available *Desert Breeze* that has space.

Current rates:

ONE ISSUE

Whole page \$25.00
1/2 page \$15.00
1/4 page \$9.00
1/8 page (business card) \$5.00

THREE ISSUES

Whole page \$65.00 for three issues
1/2 page \$40.00 for three issues
1/4 page \$25.00 for three issues
1/8 page \$14.00 for three issues

Tucson Cactus & Succulent Society

Founded 1960

OFFICERS AND BOARD 1999

PRESIDENT: Maury Clapp 908-9001

VICE-PRESIDENT: Al Coritz 682-8333

SECRETARY: Joe Costante 825-2357

TREASURER: Kathryn Fridlind 325-8447

BOARD OF DIRECTORS:

(terms expire December 31 of year indicated)

Immediate Past-President: Richard Wiedhopf 885-6367

Marty Harow 1999

George Nadler 1999

Mary Odette 1999

Sara Perper 1999

Dan Birt 2000

Lois Ladwig 2000

Jack Ramsey 2000

Ron Fridlind 2001

Linda Ryan 2001

Vonn Watkins 2001

AFFILIATE REPRESENTATIVE TO CSSA:

Carol Clapp (520) 908-9001

e-mail: kitfox@azstarnet.com



Desert Breeze EDITOR:

Carol Clapp

e-mail: kitfox@azstarnet.com

Tel: (520) 908-9001

FAX: (520) 908-0396

Snail mail:

PO Box 91560

Tucson, AZ 85752-1560

The **Desert Breeze** is the Newsletter
of the Tucson Cactus & Succulent Society.

Please send your copy to arrive by the 20th of the
month preceding the following month's issue
to the Editor.

TCSS Web Page

<http://www.desertcactus.com/tcss/>

TCSS WEBMASTER: Lois Ladwig

e-mail: lois@desertcactus.com

Check our web site for TCSS activities and read the
archive section of summaries of talks we've had.

Deadlines for Copy to Editor

Advertisements — 15th of month preceding month of issue

Articles — 20th of month preceding month of issue

Circulation of *The Desert Breeze*:

September's mailed circulation was 372 copies. Mailed to all members of the Tucson Cactus & Succulent Society; the President of the CSSA and Editors of its publications; some affiliate representatives of CSSA, some newsletter editors of other affiliated clubs, surrounding societies, all Tucson libraries, Visitors Bureaux, various local media, and others at the discretion of the publisher.

TCSS Calendar of Events

Meetings are usually held on the first Thursday of the month at the Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, at 7 pm.

Note: Library opens at 6.30 p.m. and closes at 7 p.m.

October 7 Regina Rodgers will take us on a tour. Baja California: Tip to Top

Embark upon a Baja journey with Regina Rodgers. We will cavort amongst the cardóns of the Cape region, loiter in the land of the *Lophocereus*, stare at the *Stenocereus eruca* of the Magdalena plains, peer at the *Pachycormus* of the lava flows, bask with the boojums of the Cataviña boulder fields, and dally amidst the dudleyas.

Regina Rodgers is a software engineer at Honeywell in Phoenix. She has an avid interest in desert ecology and environmentalism. She is treasurer of the Central Arizona Cactus and Succulent Society, a volunteer at the Nature Conservancy's Has-sayampa River Preserve, an avid birder, and an enthusiastic collector of arid plants.

See names of some of the plants which grow in Baja on page 6 of this issue.

October 21 TCSS Board Meeting, College of Pharmacy Main topics: Fall Gardening Fair; Report of Nominating Committee; Report on Sonoran 3

November 4 Linda Burback—TCSS Member who travels a lot to exciting places such as the Galapagos Islands.

Nov 14 (Sun) Pima County Gardening Fair Lew Sorensen Center 11100 E. Tanque Verde Rd., Tucson Jack Ramsey is Chair of our display at this event. TCSS will be having a display with photos of some of our activities and a membership enquiry table. Find out more about this event in next issue.

December 12 Christmas Party (Sunday)

FREE LECTURES

Sponsored by TBG and Arizona Native Plant Society
Plant Sale Sunday, October 3, 9:30 a.m.—1:30 p.m.

- 9:30 Agaves and Yuccas in the Landscape by Mary Irish
- 10:30 Sorting out the Daleas and Leucophyllums, Greg Starr
- 11:30 Designing with Native Plants, Judy Mielke
- 12:30 Planting to Attract Birds and Butterflies, Lynn Kaufman

Other Events

We strongly recommend you check dates, times and venues before travelling a long way to any of the events listed below. Changes sometimes occur at the last minute. Some of our members travel all over this country and like to know if there are any cactus activities locally to help them feel at home.

Oct 16 & 17 Orange County C&SS Show and Sale
at the Fullerton Arboretum 714-539-8773
Oct 23 & 24 San Gabriel Valley C&SS Winter Show,
Arcadia, CA. Info: Woody Minnich on
805-944-2784

Nov 13 & 14 Gardeners of Tucson Flower Show
Classes for cacti & succulents
Foothills Mall, Ina/La Cholla, Tucson
Call Dean Rucker for info—296-4950

And for your long-term planning 2000 and beyond

2000 AD

**Feb 18-21 C&SS of New Zealand 52nd Annual General
Meeting and Convention.**

Plymouth Hotel, New Plymouth. Info from
Sandra Spence <spence@taranaki.ac.nz>

Feb 25 & 26 South-Eastern Conference, Miami, FL
Info from SFCSS Inc., PO Box 161407,
Miami, FL 33116 or <slacactus@aol.com>

April 8 (8 days) CSSA Field Trip to Big Bend in Texas
June 9-11 Mid-America C&S Conference,
St. Louis MO

Info Kathy Malon
<katmalon@worldnet.att.net>

July 1 & 2 CSSA Show and Sale
Huntington Botanical Garden, San Marino, CA
Aug 25-27 Eastern Regional Conference
Connecticut C&SS. Info: Phillip Allen at
<PAllen9254@email.msn.com>

Aug 21-25 Succulenta 2000,
International Succulent Congress
Kirstenbosch Botanical Gardens, Cape Town
<gasteria@mweb.co.za>
Fax: +27-12-993-3588

Sept 2 Huntington Symposium, HBG

2001 AD

Mar 13-16

Succulenticon 2001

C&SS of the ACT, Canberra, Australia
In case you are planning a trip down-under, get
info from Annette & Mike Smith, PO Box 484,
Mawson, ACT 2607, Australia, or e-mail them
<mmsmith@dynamite.com.au>

July 1—6 CSSA 29th Biennial Convention
Warner Center Marriott, Woodland Hills
July 7 & 8 CSSA Show and Sale, HBG

September's meeting

Member Dan Birt gave an interesting look at Taxonomy. He guided us through the maze of technicalities involved in identifying a plant.

The 19-page collection of notes he handed out to the audience listed some books which are particularly useful when trying to name plants. Most of the books are available from the TCSS library (you can always call the editor before a meeting to request a particular book, or one on a particular subject—908-9001).

When Dan was studying biosystemics, he was given the definition of taxonomy—"A system to arrange plants according to their natural relationships."

On page 2 of the hand-out there is a diagram which explains all the abbreviations you can see whenever a plant is listed in a book in which it is described. The example shown was -

Acanthocalycium thionanthum v. *aurantiacum* (Rausch) Don. Ex Rausch

Solitary, to 5 cm high by 9 cm, rsp 5-7, to 5 cm long; csp 1..... All those abbreviations were explained. This was an example from *The Illustrated Dictionary of Cacti* by Rod and Ken Preston-Maham.

Another chart shows which plants are succulent and how the families of plants fit into the whole structure of plant life.

The World of Cacti by Danny Shuster has lots of diagrams of spines, basic shapes of roots, or cacti, and even a cut through flower. Dan recommended getting a sharp knife and cutting through a flower so that you can become familiar with its structure.

Cacti by Clive Innes contains a guide to help you locate your plant, eg. Does it have few or no spines, or prominent spination? Below each type of spination is listed the genera with that type of spine, then you can turn to the pages listed and look for your plant. Or maybe you could decide if it climbs, or the stem segments group, and use that reference chart. Is it columnar, or round, forming clumps, or sprawling and spreading?

Not all cacti and other succulents flower at the same time. Use a flowering chart and see which plants are flowering when yours is. That eliminates a lot of plants and makes it easier to find its name.

Van Wyk's *Guide to the Aloes* divides the aloes into various groups, such as the tree aloes, the single-stemmed ones, the multi-stemmed ones, rambling one and creeping ones. Some are stemless, some speckled and some spotted, some dwarf and some are known as grass aloes. If you really observe your plants and make a note of when they flower, the type of plant or growth form, it narrows down the possible families your plant is in.

Dan said "Club members have too many I don't know plants."

"But you're going to take all the mystery out of

it. It won't be romantic any more." said our cheer leader Wendy.

Dan named some journals which all contain recent discoveries to help you identify plants which have come into cultivation since some of the books were published. The *Chilean* journals from UK, the *British Cactus & Succulent Society Journals*, the *CSSA's Journal*, *Haworthiad* for haworthias and similar plants, all contain descriptions of new species and hybrids. (If you don't know how to obtain these journals ask Dan or the editor.)

Vandalism

was addressed by Clint Jarvis, a founder member of TCSS. Clint's whole yard was vandalized recently. He passed around some photographs of the destruction. It had been concluded that several vandals had done the damage. His house windows were closed at the time because of invading mosquitoes so he had not heard the noise the vandals made while he was working at this computer. The police officers said that you cannot totally prevent these attacks outside in yards. It was thought that the culprits must have been stuck many times from the chollas.

Salvage Activities

Dick Wiedhopf reported on last week's salvaging activities. He hopes to get this type of event better organized in future if more notice can be given so that more members can participate. This recent collecting should have included some pineapple cacti which they had marked with Mylar flags so that they could go back with the tags and dig them up. Unfortunately, the flags were seen by others who stole them, before they could be rescued legally. The pineapple cactus has become rare in the wild, so this was a great loss. In future plants will not be marked like that. Permits have increased in cost within a month from \$3 to \$4 and the authorities also charge 8c each for every little metal tag which has to be put on each plant. Carolyn Costante said how much she had enjoyed taking part in these salvage activities and had learned a lot from other members who were more experienced than she.

Door prize

Thanks to Miles Anderson who donated the door prize of a beautiful *Kalanchoe thyrsifolia* which was won by Mary Church.

Gail Virtes won the *Calibanus hookeri*; Marty Harow, the *Oreocereus trollii* var. *major*; and Alan Wells' guest, Victoria Lee, went home with the *Mestoklema tuberosa*. Norma Beckman gave a brief talk on all these raffle and door prize plants, with advice on their cultivation. All the plants came from Miles2Go. Thank you, Miles.

Show and Tell

After the appeal in last month's *Desert Breeze* for more members to bring plants for Show and Tell, Mary Church brought in a *Portulaca afra* var. *alba*, a variegated plant. She said the non-variegated one was easy to grow, but that the variegated plant was more difficult to keep in good condition. She had kept this one in good condition for four years.

Lorna Wells showed how to renovate used 1-gallon black plastic pots by spray painting them after putting on a raised decoration using a hot glue gun. She had also brought in a frost hardy aloe which grows well in her yard.

Wendy Beall spoke about a tuberous rooted vine like plant which she had had for years. No one ventured to identify it.

Vonn Watkins told of an unusual opuntia they found on the salvage site. Obviously hardy the cactus resembles *O. microdasys*, but is much bigger growing and the pads are larger.

Norma Beckman showed us her *Dorstenia crispata* full of seed pods. Quite a clump of plant! The seeds "just spit out (spit) over there!" Norma also showed her *Euphorbia francoisii* which has green flowers and comes from Madagascar.

Thanks to Mark Sitter

Jean Lewis voiced thanks from everyone who enjoyed Mark Sitter's guided tour in August of the cactus garden under renovation at the Arizona-Sonora Desert Museum. After the tour, some members stayed and enjoyed dinner on the last "Summer Saturday Night" this summer at the Museum. Some of the larger cacti collected on our salvage events have been given to the cactus garden.

Donations are still very welcome towards the continuing renovations of the cactus garden—if you wish to send a donation, please make a note on your check that it is for the cactus garden.

The ASDM has just celebrated its 47th birthday? Have you seen the new coat exhibit?

After the refreshment break, the president conducted an auction of some of the salvaged

(continued on page 7)



TUCSON CACTUS AND SUCCULENT SOCIETY (The Society)
SPECIAL RULES OF ORDER
 Revised September 16, 1999

MEMBERSHIP CATEGORIES & DUES:

Life members are individuals (or husband & wife) who at any time make gifts of \$500 or more to the Tucson Cactus & Succulent Society Inc.; they would not be expected to pay any additional dues.

Honorary Life members are members recognized by the Board of Directors for distinguished service. They would not be required to pay additional dues. They would be given a Certificate of Merit and a special membership badge (see duties of Membership Committee).

General members are individuals who pay regular membership dues.

Associate members are individuals residing at the same residence as a General member and who pay Associate membership fees. Associate members enjoy all the privileges of General members except they share the publications and mailings of the General member.

Student members are individuals who are pursuing a full-time course of study in a recognized school or university.

Dues Amounts: General \$15.00
 Associate \$ 5.00
 Student \$10.00

OFFICE AND LIBRARY:

The Board shall establish an official address and, if possible, make arrangements for a permanent place for Board of Directors meetings, a place to keep records and Library materials, a telephone number and other office equipment and property.

SPEAKERS & PAYMENTS:

Honoraria for speakers who give a full program at our meetings shall be \$50 for those who live in the Tucson vicinity and shall be \$100 for those who must travel 100 miles or more. This does not apply to special events such as Sonoran Conferences.

Honoraria and costs associated with special events will be determined by event committee and approved by the Board of Directors.

SPECIAL DUTIES:

BOARD OF DIRECTORS: In addition to the responsibilities assigned in the by-laws, each Board member will be appointed to serve on one or more of the Standing committees and is expected to take an active part in the functioning of the committee. Board members that fail to be active as evidenced by failure to attend three consecutive board meetings or committee meetings without excuse in advance shall be deemed to have vacated the position.

PRESIDENT: (see by-laws)

VICE-PRESIDENT: In addition to duties assigned in the by-laws, the vice-president shall be the Program Committee chairman.

SECRETARY: In addition to duties assigned in the by-laws, the secretary shall be the membership committee chairman. Will prepare and distribute announcements of all Board meetings, keep the Special Rules of Order current by appending action decisions by the Board of Directors, and keep the President informed of necessary action decisions reached by the Board during the current year or at any time in previous years.

The Secretary's annual report shall consist of a file including a record of all membership committee and Board of Directors' meetings, a fully updated Special Rules of Order statement, a current membership list, a copy of the current Certificate of Incorporation, copies of the announcements sent to the Board concerning meetings, copies of official correspondence and committee reports, and inventory with location of all TCSS property.

TREASURER: In addition to the duties set forth in the by-laws, the treasurer will serve as chairman of the Finance Committee. At each membership meeting report the financial status of the Corporation, and submit to the Secretary and Editor a copy of the financial status statement for file as an addendum to the Secretary's regular report and publication in the *Desert Breeze*. The Treasurer's annual report shall contain a financial statement for the year, a copy of the Audit Committee report, a copy of current liability insurance policies, a copy of the year's Federal and State Income Tax reports (if required), and other documents or correspondence having to do with the financial affairs of the Corporation. It is also his/her responsibility to be familiar with sales tax laws.

AFFILIATE REPRESENTATIVE: In addition to the duties set forth in the by-laws, the Affiliate Representative will prepare an Annual Report, including copies of all official correspondence.

STANDING COMMITTEES:

MEMBERSHIP: The membership committee, which shall consist of the Secretary who shall serve as chairman and three additional members, shall collect dues and give receipts; contact or send reminder notice to delinquent members; promote activities aimed at obtaining new members; maintain a computer based membership system; design and present in draft form to the Board of Directors for approval attractive application sheets, name cards, information brochures and circulars regarded as useful and desirable in connection with membership and promotional development, and when approval is given, to be responsible for design, printing and distribution; and to present to the Board of Directors for approval the Certificate of Merit and special name badge needed in connection with Honorary Life Memberships.

PROGRAM: The program committee, which shall consist of the vice-president as chairman and three or more members, shall arrange programs for general membership meetings; arrange for special meetings, field trips, tours, auctions, etc. as deemed appropriate; and plan the holiday party and annual meeting in December. Three months in advance of meetings, to send program details and biographical information on the speaker in writing to the Secretary and Editor (for the announcements), to the Publicity Officer, and to the President (for information). At membership meetings, to introduce speakers and chair discussion periods. To arrange for plant door prizes and manage drawings; to arrange for and distribute free plants at membership meetings in accordance with Board of Directors decisions.

LIBRARY: The library committee shall consist of three members and shall select its own chairman. The library committee shall appoint a librarian and one or more assistants and shall oversee the operation of the library. Additionally, the committee shall make recommendations to the Board regarding the acquisition and disposal of volumes from the library.

FINANCE: The treasurer shall serve as chairman of the Finance Committee which shall consist of the Treasurer and three additional members. The Finance committee shall be responsible for ensuring a stable funding source for the society's activities.

SPECIAL COMMITTEES:

The President should appoint the following special committees; or some of them; plus others at his/her discretion:

(Continued on page 6)

(Continued from page 5)

CONVENTION: To plan and promote a program in non CSSA convention years, designed to tell the Desert Story - especially in relation to plant species, history, adaptation, influence, beauty and sustaining power.

HOSPITALITY: Hospitality Chairman is responsible for arriving early at the meeting room and setting up the chairs and tables, with assistance of two others on Hospitality committee. He/She should greet everyone as they arrive at the door and hand them their name badge and a ticket for the door prize as they sign in. They should also collect badges as they leave.

REFRESHMENT: This Committee shall consist of two persons who will make sure that volunteers are found to bring some light refreshments for the next meeting, and to remind them nearer the time. They will also be responsible for making the coffee and providing some alternative drink(s) - this to include purchasing the coffee etc.

PUBLICITY: Publicity Chairman shall issue press releases as appropriate and keep our name and our activities in the public's eye. His/Her committee shall include one member who will handle local advertising in all media. The Affiliate Representative will cover the advertising of special events to other cactus societies and in their publications.

SUNSHINE CHAIR: This person shall be aware of members who are sick and send them cards from the Society and check on their progress from time to time, as appropriate, and convey such information promptly to *Desert Breeze* editor.

EDITOR: The Editor will be responsible for the publication of the *Desert Breeze*, publishing a minimum of four (4) issues a year.

WEBMASTER shall update the TCSS web page regularly.

CHANGES TO SPECIAL RULES OF ORDER may be decided by a simple majority of Board Members. ▲

Plants of Baja

You might hear some of the following plant names in Regina's talk on October 7.

Agave americana, aurea, brandegeei, chrysoglossa, dasylium, dentiens, deserti, margaritae, promontorii, shawii, slevinii, sobria, sullivani

Bergerocactus emoryi

Boojum—Fouquieria columnaris

Bursera cerasifolia, epinnata, filicifolia, hindsiana, microphylla, odorata

Ceiba acuminata

Cercidium floridum, microphyllum, praecox

Cochemia halei, maritima, pondii, poselgeri, setispina

Cucurbita sp.

Cylindropuntia

Cynanchum palmeri, peninsulare

Datura discolor, innoxia

Dudleya sp.

Echinocactus polycephalus

Echinocereus barthelowanus, brandegeei, engelmannii, ferreirianus, grandis, maritimus, mojavensis, munzii, sciurus, websterianus

Erythrina flabelliformis

Euphorbia sp.

Fouquieria burragei, diguetii, splendens

Ibervillea insularis, sonora v. peninsularis

Idria columnaris (boojum)

Larrea tridentata

Lemaireocereus thurberi

Lophocereus cochal, gatesii, schottii

Machaerocereus eruca, gummosus

Mammillaria sp.

Mesembryanthemum crystallinum

Moringa oleifera

Myrtillocactus cochal

Nolina bigelovii, palmeri

Opuntia sp.

Pachycereus pringlei

Pachycormus discolor

Pedilanthus macrocarpus

Peniocereus johnstonii

Platyopuntia

Poinsettia

Portulaca sp.

Prosopis sp.

Sarcostemma sp.

Sedum sp.

Senecio sp.

Talinum paniculatum

Tillandsia recurvata

Wilcoxia diguetii, striata

Yucca brevifolia, schidigera, valida, whipplei

Families/Groups of plants —

Aizoaceae

Anacardiaceae

Apocynaceae

Asclepiadaceae

Bombaceae

Chinaberry Family

Milkweeds

Mimosa

Ocotillo — *Fouquieria sp.*

Spurge

All the above grow in various parts of Baja and this may help your note taking.

There are many thousands of plants which are indigenous to Baja, but the ones listed are those of particular appeal to cactophiles and succulentophiles.

Plant names extracted from *Flora of Baja California* by Ira L. Wiggins 1980



Boojum

ink drawing by
Cactus Carol

“What is life? It is the flash of a firefly in the night. It is the breath of a buffalo in the winter time. It is the little shadow that runs across the grass and loses itself in the sunset.”

The last words of Crowfoot, Blackfoot Nation, 1890

(September Meeting continued from page 4)

plants. *Peniocereus greggii* went for \$11 to George Virtes; a saguaro estimated at about 15 y.o. to Carol Clapp for \$21; another *Peniocereus greggii* for \$15 to Lorna Wells; and an *Echinocereus fasciculata* for \$19 to Valarie Miller. One of Norma's plants, a *Euphorbia xantii* from Baja sold for \$7.00.

About forty members and guests attended this meeting. ▲



Sonoran 3

How many times have YOU constructed a cactus garden? And for several years it still looked as though it had just been constructed?

Mark Sitter will be showing you how to construct and plant your cactus garden so that it looks as though it has always been there.

Mark is in charge of the renovations of the cactus garden at the Arizona-Sonora Desert Museum so has many years experience at making a new garden look as though it has been there for ever. Mark's practical demonstrations are always some of our most popular events. **DON'T MISS THIS ONE!**

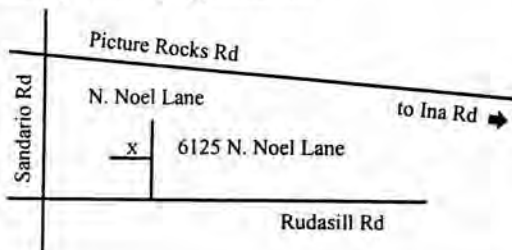
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Nursery visits by appointment



The Desert Breeze
is produced courtesy of Succulent Productions
c/o Carol Clapp, Editor
<kitfox@azstarnet.com>

NEXT MEETING - Thursday, Oct 7th at 7 P.M.

TCCS Library opens at 6:30 p.m. until 7 p.m.

Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, AZ 85712

Regina Rodgers

Baja California: Tip to Top

Come early and get a good seat! — See page 3 for more details.

Show And Tell - Please bring along your cactus or other succulent and tell us about them or get answers to your questions about them.

Of special interest would be any plant which grows in Baja.

Refreshments by those with family names beginning with S to Z and A to B
As door prize winner in August, it will be Virginia Coniglio's turn to bring the soft drinks.

Visitors always welcome.

Desert Breeze

Volume 4, Issue 10
NOVEMBER 1999

Sonoran 3 - Yes or No, it's up to You

Sonoran 3

2000 AD

May 5, 6 and 7

in

Tucson



Earmark

the dates

NOW

At the October 21 meeting the TCSS Board of Directors by a vote of 11 to 1 decided to proceed with Sonoran 3 only if 40 members of TCSS show their support by pre-registering. The one vote cast against the motion was for proceeding with Sonoran 3 as the Board had agreed to on November 19, 1998. This President, being in the chair, did not vote.

Arrangements were made for facilities, dates were set and announced to the cactus fraternity at the Cactus and Succulent Society (CSSA) National Convention last April. As names of speakers and workshop leaders became available, the dates and names were published in the *Desert Breeze* which was sent to newsletter editors and affiliate representatives of other clubs affiliated with the CSSA. As a result, many clubs' newsletters have printed these dates and program information.

To consider canceling at this time sends a very negative image of the TCSS which is currently enjoying an excellent reputation after a very successful National Convention in '95, a great Stuck-on-Tucson in '97, and a fantastically success-

ful Sonoran 2 in '98. While there are a few new members of the board since last November, most were there when the decision was made to proceed with Sonoran 3 and I find it disturbing that they do not have the courage to stand by their conviction of last November.

So much for history. Now it is up to you, the current members of TCSS. Within the next few days you will be receiving a letter from the Sonoran 3 co-chairmen delineating the speakers and workshop leaders along with limited information about their background and subject and requesting you to indicate your support by sending a pre-registration deposit of \$50.00.

I encourage you to show your support for this event, a fantastic service to the cactus community and a lot of fun for those participating. Ask any of our out-of-town guests to Sonoran 2. As registration chairman for Sonoran 3, I look forward eagerly to receiving your advance registration deposit and putting this event over the top . . . long before the November 15th deadline.

Maury Clapp, President



◆◆◆◆◆ This is the final *Desert Breeze* of this millennium and the last issue of this editor.
◆◆◆◆◆ Thanksgiving and Christmas will soon be here, so . . .

Happy Holidays
and Welcome to the next millennium

Next Board Meeting—Nov 18 7 p.m. College of Pharmacy

Forthcoming Elections - The Nominating Committee reports the following nominations:

President: Maury Clapp
Vice-President: Al Coritz
Secretary: vacant
Treasurer: Kathryn Fridlind
Affiliate Representative to the CSSA:
Carol Clapp

Directors for a 3-yr term 2000-2002

(Three required to be elected):

Marty Harow
Mark Sitter
Debbie Boyink
Valarie Miller
George Nadler

The directors in mid-term are listed in the panel to the right, as are the incumbents of other positions. The board expressed their opinions that reprints should not appear, but editor thinks the list of officers and board members is a necessary part of each issue, particularly the issue coming up to the elections. There are always those who may be seeing their first *Desert Breeze* and they may wish to get in touch with a particular officer or director.

Nominations will also be requested from the floor at the November 4 meeting.

Many thanks to the 1999 Nominating Committee:

Jack Ramsey, Chair; Carolyn Costante and Charles Bachman for their activities in this annual job.

Lots of thanks once again to Mark Sitter, for the donation of the *Ferocactus rectispinus*, and to Jon Weeks for the donation of the *Ferocactus chrysacanthus*, both plants for door prizes at the October meeting.



The Desert Breeze, newsletter of the Tucson Cactus & Succulent Society, Inc., c/o Carol Clapp, Editor, PO Box 91560, Tucson AZ 85752-1560, is published a minimum of four times a year. Dues are \$15.00 p.a. for a full member and \$5 per associate member living at the same address. This issue was mailed on Tuesday 26 October 1999 by Presorted Standard Mail at Tucson Cherrybell Station under permit number 216.

Tucson Cactus & Succulent Society

Founded 1960

OFFICERS AND BOARD 1999

PRESIDENT: Maury Clapp 908-9001

VICE-PRESIDENT: Al Coritz 682-8333

SECRETARY: Joe Costante 825-2357

TREASURER: Kathryn Fridlind 325-8447

BOARD OF DIRECTORS:

(terms expire December 31 of year indicated)

Immediate Past-President: Richard Wiedhopf 885-6367

Marty Harow 1999 George Nadler 1999

Mary Odette 1999 Sara Perper 1999

Dan Birt 2000 Lois Ladwig 2000

Jack Ramsey 2000 Ron Fridlind 2001

Linda Ryan 2001 Vonn Watkins 2001

AFFILIATE REPRESENTATIVE TO CSSA:

Carol Clapp (520) 908-9001

e-mail: kitfox@azstarnet.com



Desert Breeze EDITOR:

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Tucson, AZ 85752-1560

The **Desert Breeze** is the Newsletter
of the Tucson Cactus & Succulent Society.

TCSS Web Page

<http://www.desertcactus.com/tcss/>

TCSS WEBMASTER: Lois Ladwig

e-mail: lois@desertcactus.com

Sonoran 3 Sub Committee as appointed by Board:

Co-Chairs:

Al Coritz (Facilities Chair)

Dick Wiedhopf (Program Chair)

Finance:

Kathryn Fridlind

Plant Show:

Linda Ryan

Registration:

Maury and Carol Clapp

Vendors:

Wendy Beall

Silent Auction/Raffle:

Al Coritz

Publicity—local:

Vonn Watkins

Publicity—non-local:

Carol Clapp

Executive Committee (self-appointed) of Sonoran 3:

Al Coritz

Kathryn Fridlind

Dick Wiedhopf

Calendar

Meetings are usually held on the first Thursday of the month at the Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, at 7 pm.

November 4 Linda Burback, TCSS Member, will take us on a tour to the Galapagos Islands.

As a naturalist for a cruise company specializing in small, informal groups setting out on comfortable expeditions, Linda Burback has had the opportunity to visit the Galapagos Islands five times in the last couple of years. While the wildlife of the islands certainly can steal the show, Linda will share slides of the cacti, birds, iguanas, marine mammals, and arthropods of the Galapagos Islands. Come and enjoy!

Nov 14 and 15 Fall Gardening Fair—see details on back page.
Set up Sat p.m. and Sun early a.m.
Open to public 10 a.m. to 4 p.m. Sunday

TCSS Christmas Party Sunday Dec 12, 1998

Porter House
Tucson Botanical Gardens
Program—Holiday Potluck
SET UP starts at noon
Serving at 1 p.m.

TCSS will provide Turkey, Ham, Rolls, Drinks and Cups

Members and guests are requested to bring a
PLATE, UTENSILS, DISH TO SHARE,
and a GIFT exchange.

To help you -

- On the gift . . .
- A Plant, Pot or related item;
- Must be wrapped;
- Value guide about \$5.

And the DISH . . .

In true potluck style—bring what you like!
Bring enough to feed yourself, your guests and 8 more.

To aid planning, we encourage you to RSVP by Dec 10
to Al Coritz, VP., 682-8333

Everyone in your family is WELCOME

Important — Election of Officers and Board Members will be voted on at the Annual Meeting which is held at the Holiday Party. Don't worry, this usually takes only a few minutes, as the nominations will have closed in November. It is just a formality we have to bear!

Sorry—the list of other cactus Societies' events is not being listed this issue due to space constraints. Please see earlier issues.

Notes from Editor

Costs of Desert Breeze

Owing to the regular mention at every meeting in recent months of the costs of *Desert Breeze*, this issue is reduced in size and content. Also, some members of the board request that things are not reprinted, so please refer to previous issues for other societies' events etc. The question of mailing costs has also been complained about. The personal mailing permit of Maury and me has effected considerable savings per piece for the club in the cost of postage. Maury and I keep current with the latest information on presorted mail and attended, by invitation of the Post Office, the 2nd Tucson Nonprofit Seminar recently. In order that clubs such as ours can benefit by paying lower mailing charges, Maury and I spend \$300 per year out of our own pockets for software which updates addresses and certifies them in accordance with Post Office regulations, plus the annual fee paid to the Post Office of \$100 for the use of the permit. It also saves Maury and me many hours of sorting mail pieces and time spent in the business mailing quarters of the Post Office. With CASS certified mail (such as ours) the Post Office accepts it very quickly, as compared to non-CASS certified mailings which can take hours to process at the counter, or be sent away for rework. In the interests of keeping issue size down, the notes I wrote on the last meeting are not being reproduced. The Membership form has also been omitted for the same reason.

Library

The Library will not be open at the next meeting. **Returns of books will be accepted.** Reminders will be sent to members who are overdue in returning books.

Attendance at Meetings

We are having more and more members coming to our monthly meetings—wonderful. The club has tried to offer some of the things which members said earlier this year they would like to see at meetings. The break time socializing is helping us get to know each other and making for more camaraderie. Membership numbers have increased tremendously. As I have often said since joining this club in 1996, "If you see a face you don't know, go up to them and get to know them." There are some interesting people about. You never know what pleasures might lie ahead!

Desert Breeze EDITOR'S RESIGNATION

As announced at last week's TCSS board meeting I have resigned from the board and this is the last *Desert Breeze* from this editor. I am tired of hearing about the costs of this publication with accents on its name at every meeting. Also, split votes at board meetings are not popular, it appears. I consider it healthy and indicates that some people, at least, are thinking through the matter in hand. I was the only one to vote NO and the other 11 voted YES. **I have no problem with that at all.** I consider the facts as known and use my own judgment for what is best for the organization and record my vote accordingly. I accept the decision of the 11 to go ahead with their plan. BUT . . . I do not accept hearing the words in the tone of voice which was used, "You're from another culture." **This harassed me greatly and I find it extremely discriminatory.** I am a first-generation immigrant and am doing the best I can for my new country and, true, I am not as laid back as many Arizonans are alleged to be. I believe in both working and playing hard. I always have and always will. In every volunteer organization, there are some people who take things seriously in order to arrange the fun which other members want but, apparently, this is not acceptable to some members. **Club fun activities don't happen without someone working behind the scenes.** When you go out to have fun, there will always be those who are working to provide the fun events you want.

Thanks to those of you who helped make an editor's life easier by giving me information in a timely manner. I greatly enjoyed my term as editor of *Desert Breeze* and hope you enjoyed reading the varied articles I tried to find for you. I am very sad that it has to end because of those cruel words.

Cactus Carol

NEXT MEETING
Thursday, Nov 4th
at 7 P.M.

Tucson Botanical Gardens,
2150 N. Alvernon Way,
Tucson, AZ 85712

Linda Burback
My trips to the
Galapagos Islands

Refreshments by those with
family names beginning with
S to Z and A to D.

Visitors always welcome.

Pima County Fall Gardening Fair

Lew Sorensen Center
11100 E. Tanque Verde Rd (corner TV Loop Rd.)
Tucson

November 13 and 14

Set up: Noon—4 p.m. Saturday
7.30 to 10 a.m. Sunday

Fair open to the public 10 a.m. to 4 p.m. Sunday
Members are requested to bring healthy plants in pots for sale. Please
make sure they are clean, no yellowing or blemishes or bugs. Think—
would you purchase the plant?

Our sales table is inside one of the buildings.

DOUBLE-TAGGED SALE PLANTS:

2 labels per pot, one with seller's name and price
and the other with plant name.

TCSS cashier will take out the label with seller's name and price
and sort out the proceeds after the event. TCSS commission is 25%

Sales co-coordinator and Chairman:

Jack Ramsey 888-6137

Vonn Watkins is preparing a membership exhibit
with photos of club activities.

If it would be fun for you to help on Sunday at the sales
table, Jack would be delighted to hear from you,
and also at the set up on Saturday and early Sunday.

Tucson Cactus & Succulent Society
c/o Carol and Maury Clapp
PO Box 91560 Tucson AZ
85752-1560

Desert Breeze
Newsletter of the TCSS for November 1999

Sonoran 3
2000 AD
May 5 - 7, 2000

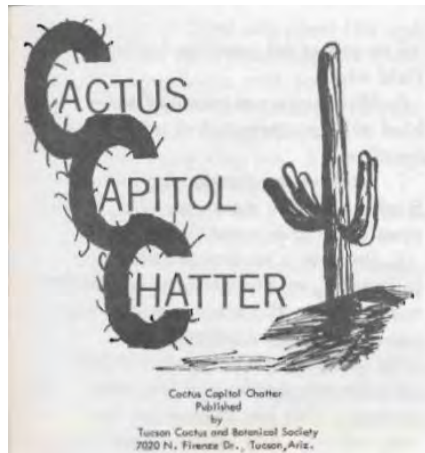
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Note - The following issues are not available and we would ask anyone who may be able to provide us with a copy would be appreciated. They can be emailed to the webmaster at the Tucson Cactus and Succulent Society or to the President.

Year - Months Missing

2000 - Jan missing
1999 - Dec missing
1997 - Jan, Feb, Mar, Apr, Nov missing
1996 - Jan, May missing
1995 - Jun, Jul, Aug missing
1994 - Aug missing
1992 - All months except Jul and Aug missing
1991 - All months missing
1990 - All months missing
1989 - All months except Jan and Feb missing
1988 - May, Sep missing



From 1965 to 1982 the Newsletter was named "Cactus Capitol Chatter"

It was published quarterly (4 issues per year)

We are missing 1982 - 3rd and 4th quarter publications