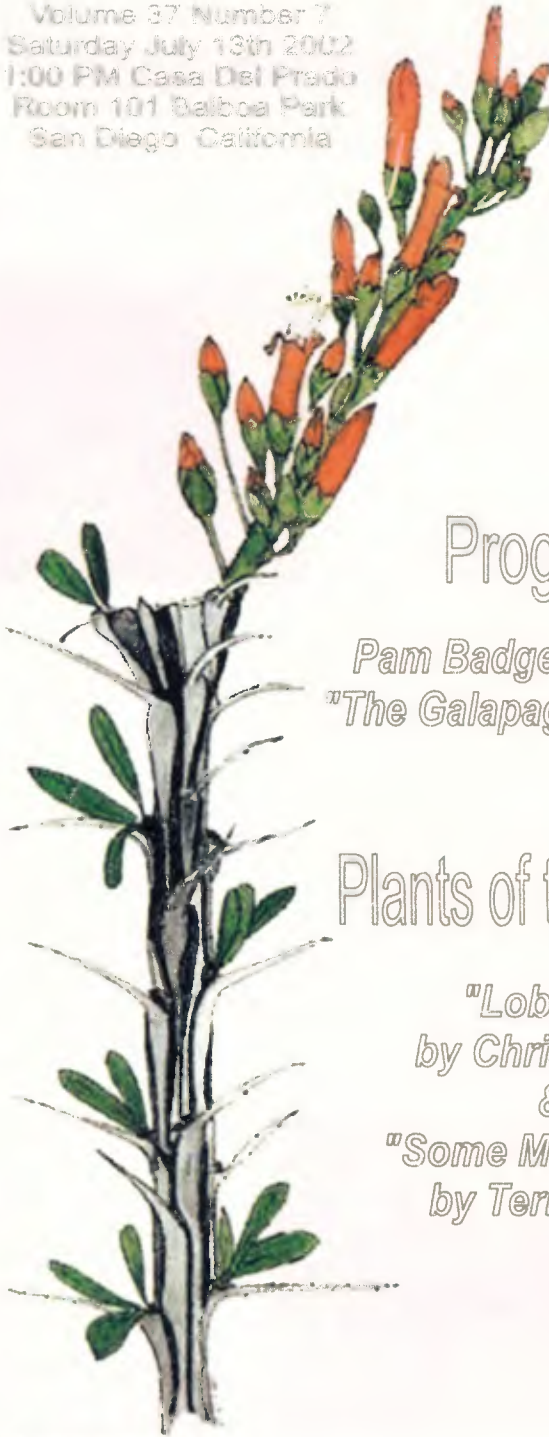


Volume 37 Number 7
Saturday July 13th 2002
1:00 PM Casa Del Prado
Room 101 Balboa Park
San Diego California



Program

*Pam Badger Presents
"The Galapagos Islands"*

Plants of the Month

*"Lobivia"
by Chris Miller
&
"Some Mesembs"
by Terry Parr*



Presidents Message

Before I comment on the June Show and Sale (which was AWESOME), I would like to say a couple of words about the May meeting. For those of you who were not there - we announced the new editor of the Newsletter—Paul Steward. Paul has served as President of the Palomar Cactus and Succulent Society and has edited their Newsletter for over five years. As you have already noticed we have also decided to go with a new format and are excited to be able to have some color photos to enhance the articles. We hope you enjoy these improvements. Welcome Paul!



The speaker, Rob Skillin, gave a wonderful presentation on the Succulent Plants of the Karoo. His well organized presentation took us on a whirlwind tour, making clear the relationship between the plants and their environments. Thanks also to Michael and Joyce Buckner for their article and talk on the succulent Lamiaceae, and Kelly Griffin for talking about those incredible Astrophytums.

I would also like to offer special thanks to people who donated items to the 'Benefit Drawing Table.' I particularly appreciated the postage stamp plaque, donated by Joe Kraatz and the bromiliad donated by Carol Jean Wolcott. As I mentioned earlier the June Show and Sale was awesome! All I can say is THANKS, THANKS, THANKS! So many people put in so much effort - and it really paid off. All three days went very smoothly because so many members showed up to help. Tom Knapik and Joey Betzler did a great job of organizing and the number and



quality of plants brought in was impressive. The sales went smoothly thanks to Tom Birt and his heroic team of cashiers and packers. The Judge's lunch was quite a hit - big thanks to Paul Steward (the editor can COOK!) for his "pulled pork" barbecue, as well as all the members who brought in treats to share. Thanks also to all the vendors who brought so many fine plants - we certainly would not have a sale without you!

Once again we offered to repot plants for people and potted about 50 plants in the two days.

This was a fun time a very educational for the people as we talked to them about the proper

care of their new plants. One woman was planning on taking her *Opuntia microdasys* on the plane to Paris, France! I am very impressed by the sheer number of you that show up and pitch in wherever needed for as long as you are needed... **YOU ARE THE BEST!** I look forward to seeing you all at the meeting July 13. As usual, I welcome your questions and comments



Program

The Galapagos Islands

CACTUS PLUS

by Pam Badger

The Galapagos Islands stretch over 174 miles about 600 miles off the coast of the mother country of Ecuador on the South American mainland. The volcanic archipelago which emerged from the ocean floor 4.5 million years ago, is made up of 19 islands and 42 islets. These are purely oceanic islands - meaning they have never been connected to the mainland by any sort of land bridge - thus all species of flora and fauna

which arrived before man had to make it to the islands on their own – mostly by drifting from the mainland. This resulted in the islands evolving some very specialized and unique species of animal, birds, and plants. When an organism lives and evolves in such a way that it is found no-

where else it is called 'endemic'. Due to their isolation and harsh environment, the Galapagos evolved and still posses a large number of endemic genera and species of animal and plants, including several cacti. The islands were visited in 1835 by a young naturalist by the name of Charles Darwin, who became fascinated observing the differences of fauna, particularly the finches, from island to island.

The Galapagos became world famous and the center of controversy in 1859 when Darwin published *The Origin of Species*. I had the distinct pleasure of visiting the Galapagos Islands as part of an Elderhostel Natural History Tour in March of 2001. We visited 12 different locations on 9 different islands in 8 days, hiking the rugged coast lines in the mornings and snorkeling the crystal clear waters in the afternoons. I will present slides of the two endemic genera and one endemic species of cacti which grow on the islands as well as some of the other fascinating plants and animals I encountered.



CACTUS OF THE MONTH

LOBIVIA

by Chris Miller

Lobivia are a group of cactus that has been in contention pretty much since they were found in the mid 1800s. Originally called *Echinopsis* they have been sorted in and out of categories for over the last 150 years. Britton and Rose, in their book in 1922, presented all the *Echinopsis* with short flower trunks as a new genus, *Lobivia*. Once that was done the battle for what to call them was on. In his 1975 book, *Lobivia*, Walter Rausch attempted to reorganize the *Lobivia* species from about 300 plants down to around 50. His book was considered

pretty radical and in *Lobivia* '85 he readdressed the topic and that book's findings were more accepted. Today in the index of The Cactus Family, by Edward Anderson, under *Lobivia* it says "see *Echinopsis*." Anderson considers the differences to be "fuzzy at best". My theory based on emotion versus science and knowledge is...

...if it is called *Lobivia* on the tag or it looks like my idea of a *Lobivia*, then I will call it a *Lobivia*. There are two primary reasons for this. One, I can say *Lobivia* and two, I like the way the word sounds!

Lobivia are small globular or cylindrical cacti, which grow either as a single stem or in clumps. The flowers have shorter tubes than *Echinopsis* and are bell shaped. The flower colors range from yellow, orange, red to purple, with lots of hybrid colors between. They



Lobivia arachnacantha



Lobivia species

are native to Peru, Argentina and Bolivia (where the name came from.) They need a cool winter to support great blooms in the spring and summer. They like good light, but not direct harsh summer sun. Remember they are small so other plants and grasses offer them some shade. An average porous cactus mix will work well as a potting medium.



Water, when dry during the warm months and hold off on water during cold winter months. Watch the short tight spines for mealy bug and scale. *Lobivia* can be propagated from seeds, cutting and pups. Since they are so closely related to *Echinopsis* they are easily hybrid.

For a great web site on these hybrids try the website:

<http://www.fortunecity.com/greenfield/vine/312>

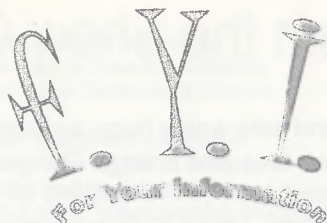
This site has information on hybridizing, the people who do it and some great pictures.

Other sources for *Lobivia* information are:

<http://www.med-phys.hull.ac.uk/~martin/Lobivia/Orig/index.shtml> Called the *Lobivia* Tour which has lots *Lobivia* specific information & pictures

<http://www.desert-tropicals.com/Plants/Cactaceae/Lobivia.html> Has Great pictures and growing information

Please bring your *Lobivia* to share at the meeting!



- ξ New Library Acquisitions: I am happy to announce some exciting additions to our library. Thanks to a special donation by Judy Hannula we procured, and will have bound, two volumes of the Quarterly Journal of the Cactus and Co. International Society. This is a beautiful, large format journal from Italy, with articles in Italian and English. Additionally we purchased a spectacular reference book on Cycads -- Thanks Judy for your generous donation.Pam
- ξ Chris Miller who undertook the monumental task of inputting the Plant Show Winners into a spreadsheet form typed an amazing 18,147 characters and had this information in the newsletter editors mailbox on Tuesday following the show.....
- ξ Member Rudy Lime returned just prior to the Show as an invited speaker at the Midwestern Cactus & Succulent Conference held in Kansas City MO June 7, 8, & 9
- ξ The Editor wishes to thank all those who submitted photos of the Show. Many of these may be used in future issues.
- ξ Mark your calendars for the upcoming Huntington Symposium, August 31st. Info: 626-405-2160

A Tribute to Ted Anderson

The new research laboratories at the Desert Botanical Garden in Phoenix, Arizona, have been named in honor of Ted Anderson, who passed away suddenly in March 2001 just before his book, *The Cactus Family*, was published. A generous gift to the garden, in support of this tribute, was made by donor Hazel Hare. The dedication ceremony took place in April at the biannual conference of the International Organization for Succulent Plant Study at the Desert Botanical Garden. Dr. Anderson had been a key person in that organization, having served several terms as president.



A Message from the Show Chairman

This years show and sale was a huge success because so many great people contributed their time and energy. Our gross sales broke a record and although the show opened late, (we're working on streamlining the judging time) it looked wonderful as well. I want to give a special thanks to the De Merritts, the Badgers, Joey Betzler, Tom Birt, Joe Kraatz, Jeff Harris, Mark Fryer, George Plaisted, Sue Hopkins, Chris Miller, Rainbow Gardens, and Rudy Lime. These members make the show and sale possible, memorable, a truly special event. Thanks for all your efforts!Tom Knapik



2002 Show Winners

CLASS-SIZE-CATEGORY- 1ST / VARIETY- 2ND / VARIETY- 3RD / VARIETY

- 1-A-OPEN-Menzel-F. *afilarensis*---Menzel-B. *subterranea*
- 2-A-COMM-Wujcik-U. *pectinifera*
- 2-A-OPEN-Menzel-U. *crebispina*
- 2-B-COMM---Wujcik-U. *pectinifera*
- 3-B-OPEN----Miller-P. *magnifica*
- 4-A-OPEN---Miller-*Notocactus* sp
- 4-B-OPEN-Cullen-N. *scopa moriellii*-Badger-N. *turecekiannus*-Miller-N. *roseluteus*
- 4-B-OPEN---Frost-N. *claviceps*
- 4-B-OPEN---Badger-N. *scopa*
- 5-A-COMM-Wujcik-G *eurypleurum*
- 5-A-NOV---Martin-*Gymnocalycium* sp
- 5-A-OPEN---Miller-G *eurypleurm*-Miller-G *spgazzeni*
- 5-B-OPEN-Fryer-G *jatieri*---Badger-G *bicolor*
- 5-B-OPEN----DeMerritt-G *denudatum*
- 6-A-NOV-Martin-*Lobivia* sp
- 6-A-OPEN-Cullen-R *hilosia*-Fryer-R *brunescens* L 383
- 6-B-OPEN-DeMerritt-S *albida*-Heckathorn-S *vizcarrae* var *lauii*
- 7-B-OPEN-DeMerritt-L *tiegeliana*-Miller-L *silvestrii*
- 8-A-OPEN-Fryer-D *crystallophylus*-Stiko-M *matanzania*
- 8-B-OPEN----Badger-M *curvispinun*
- 9-A-COMM-Hulett-C *hypopomea*
- 9-B-COMM---Wujcik-C *cinerea*
- 9-B-COMM----Flechsig-C *cinerea*
- 9-B-OPEN-DeMerritt-C *grandiflora*-Williams-C *columna-alba*
- 9-B-OPEN-DeMerritt-C *hypogea*
- 10-A-COMM-Hulett-*Neochilenia* sp-Hulett-*Neoporteria* *napina*
- 10-A-OPEN-Menzel-*Neowerdermannia vorwerkii*-Miller-*Neoporteria* *nidus senilis*-Miller-*Neoporteria* *nigra horrida*
- 10-A-OPEN---Stern-*Neoporteria* *nidus v gerocephala*
- 10-B-COMM-Hulett-*Neochilenia* *occulta*-Hulett-*Horridocactus* sp-Hulett-*Neoporteria* *coima sensis*
- 10-B-COMM-Hulett-*Neoporteria* *multicolor*-Hulett-*Neochilenia* *ulchella*---
- 10-B-COMM-Wujcik-*Neoporteria* *occulta*-Hulett-*Eriosyce* *ceratitus*
- 11-A-COMM----Hulett-*Phyllocactus* *bulbacalgx*

11-B-COMM-Hulett-M pujupattii-Hulett-M cerreoides
 11-B-COMM-Wujcik-M haynei-Cactus Data-M paucicosta
 11-B-OPEN-Williams-D rhodacantha-DeMerritt-M crinifera
 12-A-NOV---Delgado-E nana
 12-A-OPEN-Fryer-O pencillata---Williams-E melanstele
 12-B-COMM-Wujcik-H chrysocanthies-Wujcik-H albispinus
 12-B-COMM---Wujcik-O hendricksonii densilanatus
 12-B-OPEN-Cardenas-O trollii-Fryer-E melanosteles-DeMerritt-O trollii
 12-B-OPEN---DeMerritt-T senilis
 13-A-OPEN---Menzel-Peniocereus lazaro-cardenasii-Badger-Pilosocereus tillianus
 13-A-OPEN---Menzel-Pygmaeocereus akersii
 13-A-OPEN---Menzel-Pygmaeocereus rowleyanus
 13-B-COMM---Avery-Cereus forbesii
 13-B-NOV-Delgado-Cephalocereus senilis
 13-B-OPEN---Fryer-Arthrocareus Rhondonsanus-Harris-S bereckii
 13-B-OPEN---Cullen-Trichocereus hybrid--
 14-A-OPEN---Menzel-E Palmeri-Clark-E pectnatus v rabrospinatus
 14-B-OPEN---Knapik-E pectinatus
 15-A-OPEN-Miller-Theolocactus bicolor-Badger-Theolocactus bicolor v tricolor-Menzel-turbinicarpus pulcherrimus
 15-A-OPEN-Menzel-S wrightiae-Menzel-S pubispinus
 15-A-OPEN-Menzel-Turbinicarpus Alonsoi-Menzel-G mandragora-Harris-Turbinocarpus krainsiana
 15-A-OPEN---Harris-Turbinocarpus macrothele
 15-B-COMM---Wujcik-Theolocactus bicolor pottsii
 15-B-OPEN---Badger-Theolocactus hexaedraphorus
 16-A-COMM---Hulett-Corypantha sp
 16-A-OPEN-Menzel-C poselegeriana v valida-Menzel-C werdermannii-Menzel-C compacta
 16-A-OPEN-Menzel-C alversonii-Menzel-C tripugnionacantha
 16-A-OPEN---Menzel-C garresii
 16-B-OPEN---DeMerritt-C recurvata
 17-A-COMM---Wujcik-M mazatlarensis v menocentra
 17-A-NOV---Delgado-Mammillaria sp
 17-A-OPEN-Menzel-M herrerae v albiflora-Miller-Mammillaria sp
 17-A-OPEN-Menzel-M herrerae
 17-B-COMM-Wujcik-M pilcayensis-Hulett-M candida-Wujcik-M vagaspina (magnimamma)
 17-B-NOV-Martin-M bombycina-Martin-M enlongata "Copper King"
 17-B-NOV-Wilson-M hahniana supeba
 17-B-OPEN-Schell-M bombycina-Osgrove-M plumosa-Harris-M yummmifora
 17-B-OPEN-Fryer-M magnifica-Heckathorn-M geminispina-DeMerritt-M pilcayensis
 17-B-OPEN---DeMerritt-M knippeliana-Badger-M ritteriana
 17-B-OPEN---DeMerritt-M magnifica
 18-A-OPEN-Menzel-A hintonii-Harris-A fissoratus v fissoratos-Menzel-A scapharostus
 18-A-OPEN-Menzel-E chihuahuensis-Miller-O denegrii-Harris-S discitormis
 18-A-OPEN---Menzel-N agavoides
 18-B-COMM-Cactus Data-A retusus-Cactus Data-A fissuratus
 18-B-COMM-Wujcik-E micromeris cf greggii
 18-B-OPEN-Harris-O denegrii-Harris-A retusus-Harris-A fissuratus
 18-B-OPEN-Menzel-A confusus
 19-A-COMM-Wujcik-A capricone v senile
 19-A-OPEN-Fryer-A myrio X cap
 19-B-NOV---Orth-A myriostigma
 19-B-OPEN---Knapik-A ornatum
 20-A-COMM---Wujcik-F macrodiscus
 20-B-OPEN-Williams-F pottsii v alamosanus-Badger-F santa maria-Badger-Ferocactus sp
 21-A-OPEN---Miller-Echinofossulocactus coptogonus-Miller-Echinofossulocactus albatus
 21-B-OPEN---Menzel-Echinocactus horizonthalonius-DeMerritt-Echinofossulocactus albatus
 21-B-OPEN---Miller-Echinocactus grusonii
 22-B-COMM-Wujcik-R pilocarpa

22-B-OPEN-Henderson-H salicomioides-Miller-H salicornioides-Williams-R horrida
 23-A-COMM-DeLollis-Pereskia aculeata-Wujcik-Puna bonniea
 23-A-OPEN-Menzel-Maihuema poeppigii-Menzel-Pterococcus fischeri-Menzel-Micropuntia tuberculosiropalica
 23-A-OPEN-Menzel-Puna bonnieae
 23-B-COMM---Wujcik-O pachypus-Wujcik-O picardoii
 23-B-NOV---Wilson-Austrocyllindropuntia vestita
 23-B-OPEN-Harris-O pynacantha-Badger-O pygmantha
 24-A-COMM-----Hulett-T papyrantha
 24-A-OPEN-Menzel-Coloradoa mesae-verdae-Menzel-Glandulicactus crassihamatus-Menzel-Cintia knizeii
 24-A-OPEN---Menzel-Toumeyia papyracantha
 24-A-OPEN---Menzel-Pediocactus/ uthahia sileri
 24-A-OPEN---Menzel-Rimacactus laui
 24-B-OPEN---DeMerritt-Mila nealeana
 25-A-OPEN-Menzel-Mam sanchez-mejoradae-Osgrove-Mam elongata crest
 25-B-COMM-Plant-Mytillocactus geometrizans crest
 25-B-OPEN-Henderson-Mam gemnispina crest-Heckathorn-Mam elongata crest-Miller-Cereus pervuvianus monstros
 25-B-OPEN---Harris-Trichocereus pachanoi crest
 26-B-COMM-Plant-Mytillocactus geometrizans-variegated
 26-B-OPEN-Menzel-Navajoa maia
 30-A-OPEN-----Harris-A ascendens
 30-B-OPEN-Williams-A ascendens-Menzel-A marnierana
 31-A-COMM-Hammer-L salicola v malachite-Hammer-A ovalis-Hammer-C herreanthaus
 31-A-NOV-Clark-P nelii
 31-A-OPEN-Bunch-C peculiaris-Heckathorn-Sceletium spp. "nova"
 31-B-COMM-Hammer-Aloinopsis sp-Hammer-G linguiforme
 32-A-NOV-Willett-Oscularia deltoides
 32-A-OPEN-Bunch-Titanopsis schlechteri
 32-B-COMM-Lime-Trichodiadema fulflosom
 32-B-NOV---Willett-Mestoklema tuberosis
 32-B-OPEN-Bunch-Delosperma echinatum-Bunch-Phyllobolus resurgens-Harris-Trichodiadema bulbosum
 32-B-OPEN-Bunch-Osaularia deltoides
 33-A-NOV-Willett-Avonionia ustulata-Willett-anacampseros Baeseckeii
 33-A-OPEN-Menzel-Anacampseros alstonii-Badger-Ceraria namaquensis
 33-B-OPEN-Cardenas-Portulacaria afra-DeMerritt-Ceraria namaquensis-Osgrove-Anacampseros rufida
 34-A-OPEN-Buckner-K tomentosa
 34-A-NOV-Delgado-Kalanchoe hybrid
 34-A-OPEN-Harris-K orgyortis
 34-B-OPEN-Harris-K bracteata v bracteata-Harris-K beharensis variety-Harris-K marmorata v marmorata
 35-A-COMM-Avery-A marianiae "herrei" (komaggas)---Avery -A triflorus
 35-A-NOV-Willett-A bicolor
 35-A-OPEN-Cardenas-T reticulata-Badger-A cristata-Miller-A trigynus
 35-B-NOV---Wilson-T leucothrix
 35-B-OPEN---G. Graham-C pappillaris
 36-A-COMM---Flechsigsig-C clavata
 36-A-NOV---Willett-C pruinosa
 36-A-OPEN-Schell-Crassula sp-Marshall-C pubescens rattayi
 36-B-NOV-----Wilson-C sarcocaulis
 37-A-COMM---Buckner-A lindleyi
 37-A-NOV-Willett-A sedifolium---Deigado-Aeonium sp
 37-A-OPEN-Henderson-Rosularia sp-Marshall-Sedum var-Marshall-Sedum lineare variegatum
 37-B-COMM-----Flechsigsig-A sedifolium
 37-B-NOV---Wilson-Sedum frutescens
 37-B-OPEN-DeMerritt-Sedum furfuraceus-Henderson-Sedum aurora borealis-Henderson-

Sedum oxypetalum

- 38-A-OPEN-Henderson-E nodulosa---Henderson-E rain drops
- 38-B-OPEN-DeMerritt-Pachyphytum compactum-Hamis-Pachyveria hybrid-Hamis-Graptapetalum pentadrum
- 39-B-COMM-Buckner-E agavoides
- 39-B-NOV---Trimble-Echeveria sp-Trimble-E Pulv-olivier
- 39-B-OPEN-Henderson-E Dick Wright-Henderson-E Moming Light-Hamis-E agavoides
- 39-B-OPEN-Henderson-E gypsy-Henderson-E mauna loa-Williams-E agavoides
- 39-B-OPEN-Henderson-E gibbyflora hybrid
- 40-A-COMM-Flechsigt-D hybrid "Blush"---Buckner-D caespitosa
- 40-B-OPEN-Marshall-D candida-Marshall-D candida-Harris-D candida
- 41-A-COMM-Buckner-E gottlebei
- 41-A-NOV-Wead-E milii-Clark-E milii var flavuem (miniature)
- 41-A-OPEN-Henderson-E milii-Marshall-E milii -Williams-E croizatii
- 41-B-COMM-Plant-E milii X didieroides---Buckner-E x milii
- 41-B-OPEN-Williams-E didieroidides hyb-Marshall-E milii
- 42-A-COMM-Hammer-E gymnocalyciodia
- 42-A-OPEN-O'Daniel-E platyclada-Cardenas-E abdelkuri
- 42-A-OPEN---Henderson-E fasciculata
- 42-B-COMM-Lime-E pachypodioid
- 42-B-NOV-Willett-E platyclada
- 42-B-OPEN----DeMerritt-E abdelkuri
- 43-A-NOV---Willett-E francoisii
- 43-A-OPEN-O'Daniel-E capsaintemariensis
- 43-B-COMM-Hunt-E garganis-Hunt-E tubiglans
- 43-B-OPEN----Heckathom-E cap-saintmariensis
- 44-A-NOV---Wead-E enopla--
- 44-A-OPEN-Menzel-E unispina---Miller-E richardsiae
- 44-B-COMM---Lime-E fainsii-DeLollis-E polygona
- 44-B-OPEN-Miller-E aeruginosa-DeMerritt-E horembense-DeMerritt-E didierzoides
- 45-A-OPEN-Menzel-E gymnocalcioides-Badger-E obesa
- 45-A-OPEN---Menzel-E sepulta--
- 45-B-COMM-Plant-E horrida-striata-Dykema-E flanniganni
- 45-B-NOV---Delgado-E maliformis
- 45-B-OPEN-Henderson-E bupleurifolia-DeMerritt-E obesum-Badger-E horrida
- 46-A-OPEN-Knapik-E tricadenia
- 46-B-COMM---Lime-E balsamifera-Flechsigt-E stellata
- 46-B-OPEN-Henderson-E stellata-Cardenas-E squerrosa-DeMerritt-E francoisii
- 47-B-COMM-Minnich-J padicria
- 47-B-OPEN-Miller-M ritchiei-Henderson-J podagrica
- 49-A-COMM---Avery-S peniculinum
- 49-B-COMM-Lime-P antidysenterycum-Lime-S vanderietiae
- 49-B-OPEN----G Graham-Pelargonium sp
- 50-A-OPEN-Menzel-P migiurtinus-Menzel-P caput-viperae-Menzel-Whitsloaner hbd
- 50-A-OPEN---Menzel-P dodsonianus-Knapik-P migiurthinus x dodsonianus
- 50-B-OPEN---Haris -Orbeopsis ciliata
- 51-B-COMM-Flechsigt-C fusca
- 51-B-OPEN---Williams-C fusca-Heckathom-C dichotoma variegata
- 52-A-COMM---Flechsigt-F tugelensis
- 52-A-OPEN---Stem-F edulis
- 52-B-OPEN-Williams-F cylindrica-Williams-F edulis
- 52-B-OPEN-Henderson-F edulis-Cardenas-F edulis
- 53-A-COMM----DeLollis-P lameri
- 53-A-OPEN---Harris-P succulentum
- 53-B-COMM-DeLollis-P lealii v sandersonii-Dykema-P lealii v sandersonii
- 53-B-NOV-Orth-P rosulatum---Wilson-P namaquanum x succulentum
- 53-B-OPEN-Fryer-P namaquanum-Marshall-P densiflorum-Badger-P rosulatum v gracilus
- 53-B-OPEN----Miller-P lealii v sanderseii
- 53-B-OPEN----DeMerritt-P horembense

54-A-COMM---Minnich-Cy currorii
 54-A-OPEN-Cardenas-Cy betaformis---Williams-C juttae
 54-B-COMM-Buckner-Cissus ecirrhosa
 54-B-OPEN-Menzel-Cy uter-Menzel-Cy seitziana-Menzel-Cy hardy
 55-A-NOV---Wead-F petiolaris
 55-A-OPEN-Weiss-D elenbeckiana
 56-B-OPEN-DeMerritt-F diguetii-DeMerritt-F mcdouglii
 57-A-NOV----Wead-G macrorrhizus
 57-A-OPEN---DeMerritt-A fruticoso
 57-B-COMM---Minnich-Z tripartituts
 57-B-NOV---Wolcott-K afrocanus
 58-A-OPEN---Marshall-O decaryi-Harris-B fagaroides
 58-B-COMM-Lime-O decaryi---Dykema-O decaryi
 58-B-NOV-Willett-B ordorata
 58-B-OPEN-DeMerritt-B fagaroides-Badger-B microphylla-K Graham-B fagaroides
 58-B-OPEN----Fryer-B hindiana
 59-A-NOV---Willett-Albuca spiralis
 59-A-OPEN----Harris-Ornithogallum sp
 59-B-COMM-Cactus Data-Ipomoca holubii
 60-A-COMM-Avery-Aloe divaricata
 60-A-OPEN-Heckathorn-Aloe tyson-Badger-Aloe descoingsii
 60-B-COMM-Flechsig-Aloe erinaceo---Dykema-Aloe buhri
 60-B-NOV-Orth-Aloe bowiea-Orth-Aloe jucunda-Maze-Aloe suprafoliata
 60-B-NOV----Martin-Aloe Ferox
 60-B-OPEN-Harris-Aloe conifera-Henderson-Aloe erinacea-Harris-Aloe peglerae
 61-A-COMM-Avery-G nitida v armstrongii---Plant-Gasteria sp
 61-A-OPEN-Stern-G nitida v armstrongii-Badger-Gasteria sp
 61-B-COMM-Hammer-G bastesiana-Hammer-G batesiana
 61-B-COMM---Hammer-G batesiana
 61-B-NOV---Willett-G marmorata varigate
 61-B-OPEN-DeMerritt-G armstrongii-Henderson-G brachyphyllum-Miller-G nitida v batesonii
 62-A-COMM-Williams-H retusa v atrafusca-Williams-H magnifica v splendens
 62-A-NOV-Delgado-H renwaldii
 62-A-NOV-Clark-H comptoniano
 62-A-OPEN-Schell-H turgida v pallidifolia-Schell-H truncata "Lime Green"-Badger-Haworthia sp
 62-A-OPEN---Marshall-Haworthia sp-Birt-H "korizato"
 62-B-COMM-Williams-H truncata v truncata-Plant-H coarctata
 62-B-NOV-Willett-H cuspidata varigate-Willett-H truncata
 62-B-OPEN-Miller-H attenuata-Hams-H truncata
 63-A-OPEN-O'Daniel-S patens-O'Daniel-Sansevieria sp 'nova'
 63-B-COMM-Avery-S patens
 63-B-NOV-Maze-S mason congo
 63-B-OPEN-O'Daniel-Sansevieria sp Rauch-888-O'Daniel-S cv 'Frosty Spears'-O'Daniel-S
 cylindrica v patula
 64-A-OPEN-Henderson-A filifera fma compacta-Badger-A pumila-Schell-A variegated dwarf
 64-B-COMM-Dykema-A striata-Dykema-Y samuelii 'Blue Boy'-Williams-a kichi jocan marginata
 64-B-OPEN-Williams-A patonii-Williams-A potatorum-Henderson-a kichi jocan marginata
 65-B-COMM-DeLollis-D longissimum
 65-B-OPEN-Schell-B guatamalensis-Harris-C hookeri-Frost-C hookeri
 66-B-COMM-Dykema-Tillandsia ionantha-Flavell-Deuterocohni schlechteri-Cactus Data-Dyckia
 mamier lopostullii
 66-B-NOV-Wilson-O lemei
 66-B-OPEN-Birt -Denterocohnia brevifolia subsp chlocantha-Knapik-Deuterocohnia sp-
 Williams-Dyckia blackie
 67-A-OPEN-Hannon-Peperomia equador-Henderson-Peperomia dolabriformis
 67-B-COMM-Buckner-Cussonia hoistii
 67-B-NOV-Wilson-Plectranthus emstii
 67-B-OPEN-Hannon -Bringhamin insignis-Henderson-Peperomia sp-Heckathorn-Bowiea volu-
 bilis

67-B-OPEN----Williams-Eulophia petersii
 68-A-OPEN-Henderson-Ech pulidonis x derenbergii crest-Frost-Euphorbia lactea variegated crest
 68-B-COMM-Plant-Euphorbia ingens crest---Plant-Euphorbia lactea crest
 68-B-OPEN-Henderson-Ech pappy's rose crest-Miller-Euphorbia lactea crest-Harris-Aeonium arboreum variegated crest
 69-B-OPEN-Henderson-Aloe nobilis variegata-Osgrove-Aeonium decorum variegata-Schell-Aloe brevifolia variegata
 75--OPEN-Menzel-Epithelantha Collection-Menzel-"Rivercacti" Collection
 75--OPEN--Menzel-Turbinicarpus Collection
 76--COMM-Hammer-Haworthia Collection
 76--OPEN-Miller-Gasteria Collection
 77--COMM-Hunt-Dish Garden
 77- -OPEN-Marshall-Aoe suprafoliata---Stiko-Matucana madisoniorum
 80- -OPEN-Badger-Dudleya hassii
 81-A-OPEN-Menzel-Mamm carpensis
 81-B-OPEN-Henderson-Dudleya brittonii
 82-B-COMM-Lime-Fouqueria farculata
 83-A-COMM-Buckner-Euphorbia lactea-Plant-Notocactus Leninghausii crest
 83-A-COMM-Plant-Euphorbia obesa c.
 83-A-OPEN-Badger-Copiopoa tenuissima
 83-A-OPEN-Menzel-Euphorbia turbiniformis-Cardenas-Euphorbia turbiniformis
 84-A-COMM-----Avery -Eulychnia acida
 84-A-NOV-Wilson-Cheiridopsis umdaussensis
 84-A-OPEN-Menzel-pelecypora asseliformis
 84-B-OPEN-Menzel-Ariocarpus trigonus-Stern-Gasteria sp
 85- -COMM-Buckner-Aeonium sedifolium-Buckner-Aeonium arboreum crest-Buckner-Plectranthus ernestii
 85- -NOV-Martin-Rebutia heliosa viheliosa-Willett-Delosperma bosseranum
 85- -OPEN-Heckathorn-Exheveria sp-Badger-Dortenia-Cardenas-Echeveria agavoides crest
 85- -OPEN-Fryer-Turbinicarpus schmiedkneanus v klinkeriame-Badger-Gasteria sp-Menzel-Euphorbia piscidermis
 87--COMM-Buckner-Ficus thonning blume-Lime-Operculecario decaryi
 88--COMM-Baja Volunteers-Ferocactus Display
 88--OPEN-Badger-Educational Display
 88--OPEN-Badger-Educational Display
 88--OPEN-Cardenas-Variegated & Monstrose Display

TROPHIES AND PLAQUES

BEST CACTUS-Mark Fryer-Mammillaria magnifica
 BEST NOVICE CACTUS-Andrew Wilson-Mammillaria hahniana 'Subeba'
 BEST EPIPHYTIC CACTUS -Joe & Carol Wujcik-Rhpsalis pilocarpa
 BEST MAMMILLARIA-Mark Fryer-Mammillaria magnifica
 BEST OPUNTIAEAE-Juergen Menzel-Puna bonnieae

OTHER SUCCULENTS

BEST SUCCULENT-Marylyn Henderson-Echeveria gypsy
 BEST NOVICE SUCCULENT-Andrew Wilson-Plectranthus ernestii
 BEST AGAVE-Carl Dykema-Agave striata
 BEST ALOE-Phyllis Flechsig-Aloe erinacea
 BEST ECHEVERIA-Marylyn Henderson-Echeveria gypsy
 BEST EUPHORBIA-Marylyn Henderson-Euphorbia stellata
 BEST MESEMBRYANTHEMUM-Phil Bunch-Titanopsis schlechteri
 BEST PELARGONIUM OR SARCOCAULON-Rudy Lime-Pelargonium antidysentevicum
 BEST SANSEVIERIA-Jean O'Daniel-Sansevieria Rauch 888 - Kenya

TROPHYS & PLACQUES

BEST BAJA PLANT-Marylyn Henderson-Dudleya brittoni
BEST GRAFT-Juergen Menzel-Euphorbia turbiniformis
BEST MEXICAN PLANT IN SHOW-Rudy Lime-fouquieria fasciculata
BEST PLANT GROWN FROM SEED-Juergen Menzel-Pelecypfhora asseliformis
BEST SD COUNTY SUCCULENT-Pam Badger-Dudleya edulis
BEST MINIATURE-Joyce Buckner-Aeonium sedifolium
BEST PACHYCAUL OR CAUDICIFORM-none-
BEST SUCCULENT BONSAI-Michael Buckner-Ficus thonningii Blume
PEOPLE'S CHOICE-Juergen Menzel-Pseudolithos migiurtinus

DISPLAYS, EXHIBITS & HIGH POINTS

BEST EDUCATIONAL DISPLAY-Pam Badger-Succulent Plants of Baja Deserts
BEST EXHIBIT-Rudy Lime-SMOLA
MOST ARTISTIC DISPLAY-Rudy Lime-SMOLA
HIGH POINTS (50 OR FEWER ENTRIES)-Marylyn Henderson
SWEEPSTAKES TROPHY-Juergen Menzel
JUDGE'S CHOICE-Juergen Menzel-Puna bonnieae
JUDGE'S CHOICE-Carl Dykema-Agave striata
JUDGE'S CHOICE-Tom DeMerritt-Bursera
JUDGE'S CHOICE-Rudy Lime-Operculicaria decaryii

HONORABLE MENTION

14-B-OPEN-DeMerritt-Echionocereus triglochidiatus
30-B-OPEN-Menzel-Alluaudiopsis fiherensis
31-A-COMM-Hammer-Lithops localis prince albert
31-A-COMM-Flechsigt-Lithops aucampiae ssp euniceae
32-A-OPEN-Harris-Trichodiadema bulbosum
33-B-OPEN-DeMerritt-Ceraria fruticulosa
36-A-OPEN-G Graham-Crassula 'Hummel Sun Rise'
37-B-OPEN-DeMerritt-Sedum totulosum
39-A-OPEN-Hammer-Echeveria tol.
39-B-OPEN-Henderson-Echeveria ebony
39-B-OPEN-Henderson-Echeveria maria
41-A-OPEN-Badger-Euphorbia cv Lemon Drop
42-A-OPEN-John Williams-Euphorbia confinalis ssp rhodesica
43-A-NOV-Willett-Euphorbia sp
43-A-NOV-Willett-Euphorbia cap-saint mariensis
45-A-OPEN-Henderson-Euphorbia clandestina
46-B-OPEN-DeMerritt-Euphorbia capsaintemariensis
53-B-OPEN-DeMerritt-Pachypodium succulentum
53-B-OPEN-DeMerritt-Pachypodium densiflorum
54-A-OPEN-Menzel-Cyphostemma oleracea
54-B-OPEN-Cardenas-Cyphostemma juttae
56-B-OPEN-DeMerritt-Fouquieria formosa
58-A-OPEN-Harris-Commishora cambestris
61-A-OPEN-Heckathorn-Astroloba spp
61-B-OPEN-Henderson-Gasteria Green Ice
61-B-OPEN-Henderson-Gasteria hybrid
62-A-COMM-J. Williams-Haworthia 'ollisonii'
62-B-COMM-J. Williams-Haworthia 'konzato'
64-A-OPEN-Miller-Agave victoria regina f compacta
64-B-OPEN-Badger-Agave titanota
64-B-COMM-Dykema-Agave 'pumila'
65-A-OPEN-John Williams-Beaucarnea recurvata

Succulent of the Month

THE MESEMBS

*Article by: by Lou Kilbert
Spinal Column - Michigan*

The Mesembryanthemaceae is a large family of plants confined, almost exclusively, to South Africa. These plants range from dwarf shrubs to tiny plants that some would need a magnifying glass to see. They are mostly "leaf" succulents; that is to say that they have special cells adapted to store water inside the leaves. A few have underground, carrot-like, water storage tap roots that may be raised above ground in cultivation for display purposes as caudiciforms.

The larger growing species make excellent landscape plants in California and many highways are lined with displays of their brilliant daisy-like flowers. We find it difficult to flower the larger shrubs, but many of the tiny shrubs make excellent pot plants.

The most popular genus is the Lithops or South African Living Stones. There are approximately 80 species listed in Jacobsen and over 445 varieties listed by Steve Brack of Mesa Gardens in his seed catalog!! Although everyone seems to love them, many find them difficult to grow. Watering can be tricky. They need water in spring and fall but should be kept dry in the winter and, depending on the situation, during the summer as well. They flower during the fall. The flowers are usually



about twice the size of the plant body, which consists of one pair of leaves. The larger the pair of leaves, the larger the flower. They are either yellow or white and never pink, red or blue. The petals are very thin giving an informal appearance to the flower. The flowers open at about the same time of late afternoon. This diurnal rhythm is quite fascinating. I noticed that the flowers opened at the same time even when under lights in the center of an enclosed shopping mall where they were hundreds of feet from the nearest glimpse of daylight! Many mesembs have scented flowers, but I have never detected a fragrance from Lithops flowers. However, Haage states that *L. lericheana* (a variety of *L. karasmontana*) has "sweetly fragrant flowers".



When you press a finger to your Lithop, it should feel like a piece of rubber. It won't feel as hard as a rock; but it definitely should not feel soft and squishy, which would indicate overwatering. If you've lost them to overwatering before, wait until the skin starts shriveling; that may take several months! South Africa is a "land of light". The light is very intense. If you can't supply enough light in winter, use fluorescent lighting with the plants almost in touch with the tubes.

For those experienced in growing plants from seed, mesembs are relatively easy and one year old seedlings can be easy to handle. The seed is very tiny and it's always surprising how large a seedling can jump from



such humble beginnings.

Other genera have very different habits. Many are summer growers. Some only grow for one or two months each year and "rest" for the remainder. Learn as much as you can about your plant so that you can give it what it wants when it wants it. They all

need good quality, well draining soil and food! I've seen many people starve their plants, thinking somehow that "desert" means "starvation". That only produces weak plants that are short lived and don't flower. Why don't you come to the meeting and learn more about these fascinating plants.



Editor's Notes:

Your submissions, comments & suggestions are always welcome. Please note that the deadline for submissions including Plant of the Month articles is the meeting date prior to it's intended publication (approximately one month). I hope the use of color will enhance the newsletter and ultimately bring a greater understanding of these unique plants.



**Fifth Annual
Baja California Botanical Symposium
July 12-14, 2002**

presented by

**San Diego Natural History Museum
co-sponsored by
The Universidad Autónoma de Baja California Herbario BCMEX**

Symposium Background

The Baja Californian region is a floristically diverse area of northwestern Mexico that can still be considered a scientific frontier. This symposium provides an international forum for botanical researchers investigating the flora of the peninsula and adjacent areas to present their findings and meet other scientists working in this region. Topics of interest can be drawn from most botanical disciplines including: taxonomy/systematics, biogeography, vegetation/community analyses, ecology, floristics, biodiversity, conservation, evolution, and paleobotany. The symposium is binational in format and content and will be conducted in Spanish and English. The Baja California Botanical Symposium is a series of meetings that rotates between the U.S. and Mexico. The first symposium was hosted by the BCMEX Herbarium of the Universidad Autónoma de Baja California in Ensenada, Baja California, in April, 1996. The second symposium was presented by the SD Herbarium at the San Diego Natural History Museum in San Diego, California in August, 1997. The third symposium was hosted by the HCIB Herbarium of the Centro de Investigaciones Biológicas del Noroeste in La Paz, Baja California Sur in November, 1999. The fourth symposium was presented again by the BCMEX Herbarium in Ensenada in September, 2000. The fifth symposium in this series will be held in the newly constructed and recently renovated parts of the Natural History Museum in Balboa Park in San Diego, California. The program will include an evening reception, two days of technical paper presentations, poster sessions, and a dinner in the Museum's new atrium with a keynote address.

Call for Papers

Researchers are invited to submit papers on any botanical aspect listed above for Baja California or Baja California Sur, Mexico or adjacent areas including southern California, Arizona, Sonora, and Sinaloa. Interested individuals are requested to send an informative abstract of 400 words or less in English or Spanish (although two versions, one in each language is preferred), written in Microsoft Word, Word-perfect (8.0 or earlier), or Rich Text Format (.rtf). Abstracts must include title, author(s), and address (phone, fax, e-mail). The deadline for submission of abstracts is 24 June, 2002. Those persons interested in presenting for a poster session only, should indicate this on returned materials. Authors of papers and posters accepted for presentation will be notified by 30 June. Please submit all materials to:

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Upcoming Events

June 1-2 San Diego C&SS Show and Sale. Balboa Pk Room 101. Sale begins at 9am on Sat and 10am on Sunday. Details from Tom De Merritt 858-270-5544 or SDC&SS's new president, Pam Badger at (619) 589-1223

June 7-9 MID-WEST REGIONAL CONFERENCE

Holiday Inn Mission/Overland Park, 7240 Shawnee Mission Parkway, Mission KS 66202. Reservations 913-262-3010. Hotel Rates for conference \$74 for one-four persons. Speakers include John Spain, Dr Rob Wallace, Chuck Hanson, Robert Johnson, Bob Smoley, Bob Harris, David Bird. Kathy Malon will lead a workshop. Plant Sales by Chuck Hanson, Robert Johnson, Bob Smoley, Lynn & LoWilla Wilson, and Joyce Batemann-Hochtritt. Bob Smoley will again be the auctioneer. Conference hosted by the Kansas City C&SS. Registration fees: if postmarked by May 1 only \$75, by June 6 just \$90 and at door \$100. Fees include Friday Night Welcome to Kansas City Party (cash bar), and the Saturday Evening Banquet, followed by Rare Plant Auction. Check out their web page at <http://ourworld-top.cs.com/kccss1809> More details? Eva Allen 816-444-9321 or e-mail: emallen@earthlink.net, or Co-chair Linda Tamblyn at 913-432-9646 or plums15@aol.com.

June 15-16 Joint Los Angeles C&SS and San Fernando Valley Bromeliad Society Show and Sale. Sepulveda Garden Center, 16633 Magnolia Blvd., Encino. Saturday 9am to 5pm and Sunday 9am to 4pm. For more info call Gene Oster at 818-998-9306 or e-mail him at goster@socal.rr.com

July 6-7 CSSA Annual Show & Sale, Huntington Botanical Gardens, 1151 Oxford Rd., San Marino CA. Show Co-Chairs are Joe Clements and Steve Frieze.

July 6 CSSA Annual Meeting, Huntington Botanical Gardens, 1151 Oxford Rd, San Marino CA. 5pm.

July 13 San Diego C&SS Meeting: POM: Lobivia & Some Mesembs, Program: Galapagos Islands

July 13-21 Henry Shaw Cactus Society Annual Show and Sale Missouri Botanical Gardens, St Louis MO. For more info contact Pam Schnebelen 314-316-9360, FAX 314-316-9361 or e-mail Pam at: pschnebelen@mindspring.com

July 26-28 PACIFIC NORTHWEST CONFERENCE

hosted by Cascade C&SS. Upper Gwinn Conference Center, Seattle Pacific University, Seattle. Speakers are James D. Mauseth speaking on how cacti survive in desert: Mac Clarke on his adventures in the Chiricahua Mountains and his visit with the late Charlie Glass in Mexico; Peter Gammarano on Socotra and Madagascar, Mary Wilkins Ewert on succulents of Africa; Arthon Ewert on Euphorbias; and Harlan Reed, a Hopi Indian, speaking on the utilization of native plants by his home on the Third Mesa of Arizona. There will also be a plant auction and related items, field trips, plant and book sales. Saturday night banquet for \$30 (choice of salmon, chicken or beef) is optional. Registration is \$80 per person for the whole weekend, with lesser fees for less time there. Room rates in Emerson Hall are \$40 per night, or \$75 per night for a couple. Meals extra at reasonable cost. Checks (no charge cards) covering all costs (registration and meals required) must be sent by 19 July to Cornelia Remy, 13406 S E Fairwood Blvd, Renton WA 98058. Further details available on

August 15-18 The 5th International Convention of the British C&SS

at Loughborough University, Leicestershire (about 100 miles north of London). Note the venue for this event is different from that originally announced. Theme - "Conservation in Cultivation."

Speakers - Pierre Braun and Klaus Gilmer from Germany; Mark Dimmitt and Steven Hammer from USA; Carlos Ostolaza from Peru; and Graham Williamson from South Africa. The speakers are among the leaders in the field of practical study and exploration for cacti and succulents. Info: David Kirkbright E-mail: Kirkbright@bcandss.fsnet.co.uk

August 24-25 17th Annual Intercity Cactus and Succulent Show and Sale Los Angeles County Arboretum, 301 N Baldwin Ave., Arcadia CA 9am to 5pm. Information at <http://www.lacss.com/2002/> or from Tom Glavich at TGlavich@aol.com or Gene Oster at 818-998-9306 This annual show is thought to be the largest cactus show in the world!

August 31 Huntington Symposium, Huntington Botanical Gardens, 1151 Oxford Rd., San Marino CA. Info: 626-405-2160 or 2277

September 1 CSSA Board Meeting, Huntington Botanical Gardens, 1151 Oxford Rd., San Marino CA

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Standing Committees & Sub Committees

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Winter Show: Ed DeLollis
History: Terry Parr
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