



Saguaroland

Bulletin

VOLUME 38

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 1

January, 1984

7th Annual

PHOTOGRAPHY EXHIBITION

8:00 a.m. - 5:00 p.m. daily
January 21 - 29, 1984



photo by Hobart Pribbenow

Deadline for entries: 9:00 a.m. - 4:00 p.m.,
January 3 and 4, 1984, at the Garden

Exhibition judging: open to the public,
starting at 9:00 a.m. Saturday, January 14, in
Webster Auditorium.

Members' preview of the Exhibition: 7:00 -
9:00 p.m. Friday, January 20, 1984.

A public presentation of slide entries: to be
given at 1:45 and 3:00 p.m. Saturday,
January 21, and at the same times Sunday,
January 22, Wednesday, January 25, and
Saturday and Sunday, January 28 and 29.
The show is free to Garden members and
included with Garden admission to
non-members.

37th Annual

CACTUS SHOW & SALEBRATION

8:00 a.m. - 5:00 p.m. daily
February 25 - March 4, 1984



Deadline for entries:

8:00 a.m. - 8:00 p.m. Wednesday, Feb. 22
8:00 a.m. - 7:00 p.m. Thursday, Feb. 23

Members' Preview and Awards Presentation:

6:00 - 8:00 p.m. Friday, Feb. 24

**Entry to the Cactus Show is free to Garden
members, included with Garden admission
to non-members.**

37th Annual Cactus Show Rules enclosed!

REMEMBER!

*The Calendar of Garden Events is published on the
back page of each issue of the Saguaroland Bulletin.
Listings of activities for the current month and fol-
lowing month allow you to plan many fun-filled
hours at the Garden. Quarterly calendars are also
available at the Garden.*

Desert Botanical Garden, Inc.
Special Meeting of Members
to be held
January 19, 1984

To the Members:

Notice is hereby given that a special meeting of the members of the Desert Botanical Garden, Inc., will be held at the Webster Auditorium at the Desert Botanical Garden, Inc., 1201 N. Galvin Parkway, Phoenix, Arizona, at 2:30 p.m. on January 19, 1984, for the following purposes:

1. to increase the maximum number of the Board of Trustees to thirty-three (33). At the present time, the articles of incorporation permit the maximum number of the Board of Trustees to be twenty-four (24);
2. to transact such other business as may lawfully come before the meeting.

Dated: December 29, 1983

Signed:

Emelia Swenson Davis

Secretary

Desert Botanical Garden, Inc.

A WORD FROM THE PRESIDENT

Desert Botanical Garden is about to launch what should prove to be the most exciting, adventure-some time in the Garden's history.

As we approach its 50th birthday, we have completed a long-range Master Plan for additional facilities. We've launched a strategic planning effort to bring all components of the Garden into play in fulfilling that Master Plan. We've been accepted as a new beneficiary of COMPAS and are about to hire a new executive director.

In order to bring about full benefits from all of

these programs and to implement them properly, the Board of Trustees has approved increasing the allowable number of its members to 33 from the present 24. Because the articles of incorporation must be consistent, a special meeting of the membership has been called for Thursday, January 19, 1984. It's hope that the membership will approve this increase to permit the Board to expand and to bring new expertise into its ranks.

John F. Swift

President,

Board of Trustees

HERBARIUM BRIEFS

In August Wendy Hodgson, assistant herbarium curator and Garden artist, collected a specimen of Mountain Dandelion (*Agoseris aurantiaca* Greene) on the trail to Mt. Baldy in Apache county, where she was hiking with Docents Nancy Rheinlander and Jean Cordts. This was Wendy's collection number 2,385; the accession of *A. aurantiaca* to the Garden's collection distinguishes Wendy as the largest contributor to our Herba-

rium. Other large contributors have been Rose E. Colom, Roy Blakeley (the Herbarium's first curator), George B. Hinton and your retiring Curator.

A. aurantiaca's accession number is 26,172, an increase of 1,168 since July 15 and a new high for the number of collections in the Herbarium.

Spring Tour of Valley Gardens

The Garden's third Tour of Valley Gardens is in the making, scheduled for 1:00-5:00 p.m. Sunday, March 18. The tour will feature four unique landscapes in the Phoenix area.

Tickets will go on sale in mid-February in the Garden's Gift Shop, and they will also be available at the 37th annual Cactus Show and Salebration (February 25-March 4). Price is \$5.00 per ticket; while there is no member discount, pre-sale price will be \$4.00, so buy your tickets early.

2 Look for more information on this exciting tour in the February and March issues of the Saguaroland Bulletin.

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Editor: Janet F. Barstad, M.S.

Seven categories of Garden membership are available. Call the Desert Botanical Garden for membership information weekdays between 8 a.m. and 5 p.m.

DOCENT CLASS BEGINS JANUARY 10

The Garden's spring Docent Class will begin Tuesday, January 10, in Webster Auditorium. This 10-session course will be held from 9:00 a.m. to noon each week and is designed for persons wishing to learn about the desert and the Desert Botanical Garden, in order to guide tours through the Garden and to be involved in the Garden's other educational activities.

Nancy Rheinlander, chairman of Docents for Friends of the Garden, will teach the class. Nancy is a former instructor of Girl Scout leaders and a graduate of the Garden's first Docent Class in 1977. Her speciality is work on the Garden's semi-annual Plant Sales.

The Education Department has instituted a minimal fee for the Docent Class, to cover the many materials distributed to class members. Garden members may take the class for \$8.00, non-members for \$10.00. Call the Garden office, 941-1225, if you'd like to participate.

Arizona Native Plant Society to Meet

The Phoenix Chapter of the Arizona Native Plant Society will meet at 7:30 p.m. Monday, January 16, in Webster Auditorium. Kent Newland, horticulturist at Boyce Thompson Arboretum, will present a slide tour of Sonora, Mexico, from the plains through the Thorn Forest to the foothills of the Sierra Madre.

The group's field trip is Saturday, January 21, and will take participants to the high, lush desert north of Phoenix and a riparian area near Cave Creek. For more field trip information, call Peg Gallagher, 894-0994, or Marc Mittleman, 265-0607.

LUMINARIA NIGHT. From left, Bobby Nance, 2, poses with Sammy Saguario; John Hullen and Julia Rogers won the gingerbread Garden; Patrick Quirk checks luminarias on auditorium roof; and the Walden Quintet entertains in the Cactus Lath House.



CACTUS SHOW NEEDS VOLUNTEERS

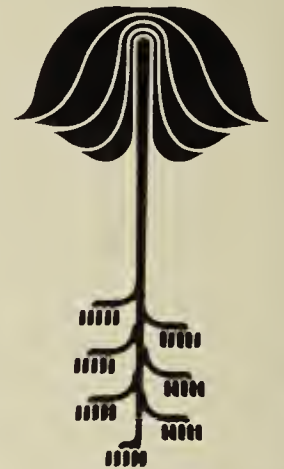
CACTUS SHOW NEEDS VOLUNTEERS

The past 36 Cactus Shows would not have been possible without the help of volunteers, and the 37th Annual Cactus Show, to be held February 25 - March 4, is no exception.

The Garden needs volunteer help with pre-show activities, work during the show and tabulations and other help afterward. Following is a checklist of jobs. If you'd like to do one — or many — call the Garden at 941-1225 and tell us how many days a week you could work, and whether you'll be able to work weekends or evenings.

- Answer visitor questions
- Attendance counts
- Entry, exhibitor lists
- Entry registrations
- Errand-running
- Field phone calls
- Figure show totals
- Gift Shop sales
- Guard, traffic control
- Host, hostess
- Make, distribute posters
- Miscellaneous chores
- Pre-show mailings
- Publicity help
- Serve food
- Show set-up, strike
- Show tabulation
- Stuff envelopes, mail
- Typing, filing





DESERT
BOTANICAL
GARDEN

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Garden Events

JANUARY

- 3 Photography Exhibition** Tues. & Wed.
- 4 entries accepted 9:00 a.m. - 4:00 p.m.
- 5 Ethnobotany Workshop Display** Daily,
8:00 a.m. - 5:00 p.m.
"Desert Plants and Agriculture: the Native American Example:" a mini-display in Webster Auditorium on last year's NEH-funded workshops for high school students. Through January 18. Included with Garden admission.
- 10 Docent Class** Tuesday,
9:00 a.m. - noon
Ten-week session for those wishing to guide tours at the Garden. Graduates are expected to donate four hours/week guiding tours. Register by Monday, January 9. Fees: Members \$8.00, nonmembers \$10.00
- 13 Arizona Chollas** Daily,
8:00 a.m. - 5:00 p.m.
Learn how to recognize Arizona chollas in this Douglas Display Case exhibit. Through February 8. Included with Garden admission.
- 14 Photography Exhibition Judging** Saturday,
9:00 a.m.
The public is invited to attend judging of Garden-sponsored Photography Exhibition in Webster Auditorium. Included with Garden admission.
- 20 Members' Preview of Seventh Annual Photography Exhibition** Friday,
7:00 - 9:00 p.m.
Garden members and exhibitors are invited to preview the Seventh Annual Photography Exhibition.
- 21 Seventh Annual Photography Exhibition** Daily,
- 29 "Deserts of the World" 8:00 a.m. - 5:00 p.m.
Desert plants and landscapes around the world as photographed by contest participants. Included with Garden admission.
- 21 Deserts of the World** Saturday,
1:45 and 3:00 p.m.
A public slide presentation of slide entries in the Photography Exhibition, in Webster Auditorium. Program will be repeated January 22, 25, 28 and 29 at 1:45 and 3:00 p.m. Included with Garden admission.
- 28 Field Trip to Picacho Peak Area** Saturday,
7:00 a.m.
Enjoy a field trip at an area of historic, geologic and botanical interest. Register by Monday, January 23. Fees: Members

\$16.00, nonmembers \$20.00. Limit: 13

FEBRUARY

- 1 The Southwestern Expression —** Daily,
- 13 The Weaving Arts 8:00 a.m. - 5:00 p.m.
A display of weavings, basketry and spinning by Telarana Weavers and Spinners Guild. Included with Garden admission.
- 4, 5 Weaving & Spinning Demonstrations** Sat. & Sun.
11, 12 1:00 - 3:00 p.m.
Telarana Weavers and Spinners Guild will demonstrate their arts on these two weekends. Opening reception Feb. 4, 1:00 - 3:00 p.m. Included with Garden admission.
- 10 Cactus** Daily,
8:00 a.m. - 5:00 p.m.
Meet the fascinating Cactus Family. Douglas Display Case through March 7. Included with Garden admission.
- 11 Field Trip to Big Horn Mountains** Saturday,
7:00 a.m.
Explore cactus and other native plants in and around the Big Horn Mountains. Register by Monday, Feb. 6. Fees: Members \$16.00, nonmembers \$20.00. Limit: 13.
- 13 Spinning** Monday,
9:00 a.m. - noon
Learn to spin natural fibers in this two-session class. Fibers and use of a spindle included in fee. Register by Thursday, Feb. 9. Fees: Members \$10.00, nonmembers \$12.50.
- 15 Palm Seed Stalk Basketry** Wednesday,
9:00 a.m. - noon
Make an unusual basket in this two-session class. All materials provided. Register by Monday, Feb. 13. Fees: Members \$8.00, nonmembers \$10.00.
- 22 Entries accepted for** Wed. & Thurs.
- 23 Cactus Show 8:00 a.m. - 7:00 p.m.
- 24 Members' Preview of 37th Annual Cactus Show** Friday,
6:00 - 8:00 p.m.
- 25 - 37th Annual Cactus Show** Daily,
March 4 8:00 a.m. - 5:00 p.m.
View entries in this nationally-famous show. Cacti, other succulents, arrangements and dish gardens will be on display. Included with Garden admission.
- 29 Wildflower Network** 24 hours
The public is invited to call 941-1239 for the latest reports on Arizona wildflowers. Taped message will be updated weekly through April 25.

37th
ANNUAL
CACTUS SHOW

presented by
DESERT BOTANICAL GARDEN
Papago Park, Arizona

8:00 a.m. to 5:00 p.m. daily
February 25 through March 4, 1984
In Webster Auditorium and Eliot Patio

COMPETITION RULES



DESERT
BOTANICAL
GARDEN
PHOENIX, ARIZONA

Class A. Individual
specimens
Division 9.

Astrophytum

co-sponsored by

The Phoenix Gazette & Central Arizona Cactus and Succulent Society

37th ANNUAL CACTUS SHOW COMPETITION RULES

Cacti, other succulents and allied material are eligible in the classifications that follow. Other divisions may be created at the discretion of the Registration Committee. Such divisions will not be announced before the opening of the show.

Exhibitors compete in advanced or novice categories, entering as novices only if they have never won a blue ribbon.

A set of suggested guidelines for preparation of entries is available at the Garden. The Registration Committee reserves the right to reject any entry that violates show rules or is below standard. Rejected entries will not be displayed. The Registration Committee is responsible for the placement of all accepted entries.

Both natural (i.e., clay) and artificial (i.e., plastic) containers are allowed in all sections. Containers and top dressing should enhance, not detract from the natural beauty of the plant being displayed. Arrangements must be completely assembled and transportable prior to entry. No exhibitors are allowed in display areas before the show open.

REGISTRATION AND EXHIBITION PROCEDURES

Registration cards — one for each exhibitor — may be obtained from the Garden, and must be completed and returned by **February 17**. Exhibit cards — one for each exhibit — must be filled out in advance and submitted with each entry.

Exhibits will be accepted at the Desert Botanical Garden on the following days:

Wednesday, February 22: 8:00 a.m. - 8:00 p.m.

Thursday, February 23: 8:00 a.m. - 7:00 p.m.

For registration materials and exhibit cards, write to: Cactus Show Registration Committee, Desert Botanical Garden, 1201 N. Galvin Parkway, Phoenix, Arizona 85008. Telephone (602) 941-1225. The official registration form is included at the end of these Rules.

JUDGING AND AWARDS

Judging will take place Friday, February 24. Judges of all sections are acknowledged experts. Sections V and VI will be judged by judges accredited by the National Council of State Garden Clubs.

Entries will be judged on the following point scale:

SPECIMEN PLANTS

	points
Condition	50
Size and degree of maturity	15
Staging	15
Difficulty of culture	10
Nomenclature	10

ARRANGEMENTS & PLANTERS

	points
Design	30
Originality & distinction	30
Color	20
Identification of material	10
Condition	10

Winning entries in both advanced and novice categories may receive distinguishing ribbons and sweepstakes awards. First, second and third place, and honorable mention ribbons may be awarded in each class or division.

Best-in-show trophies may be awarded to either best

advanced or best novice entry in each class.

A Master's Trophy may be awarded in each class or division of the Master's Section. Trophies in this section will be awarded at the discretion of the judges.

Exhibitors accumulating the most blue ribbons in the Show will receive sweepstakes awards — Mieg Trophy, and Best Novice Awards; sweepstakes awards are also given for the most blue ribbons in each of Section I (Cactus), Section II (Succulents) and Section VI (Arrangements). The Phoenix Gazette Award is given each year for the most ribbon points in Sections I, II, III, IV and VII. The decisions of the judges will be final.

PREVIEW

A preview for Garden members, exhibitors, special guests and their families will take place at 6:00 p.m. Friday, February 24. All awards will be presented during the preview.

EXHIBIT REMOVAL

Exhibits may be removed from 5:00-7:00 p.m. Sunday, March 4. Exhibits not claimed by 10:00 a.m. Monday, March 5, will be moved to a staging area behind Richter Library.

The Desert Botanical Garden will exercise due care in safeguarding exhibits but can assume no responsibility for loss or damage, or for unclaimed exhibits. The care of plants entered in the Show is the personal responsibility of their owners.

OTHER IMPORTANT RULES

All plants must have been grown by the exhibitor for six months or longer.

All plants in Sections I, II, III, VII and VIII must be labelled with scientific names.

All plants in Sections V and VI must be labelled, with either scientific or common names.

Entries that cannot be assigned to established or new divisions in Section I, Class A, or Section II, Class A, will be judged collectively in Division 24, and Divisions 22-24, respectively.

SECTION I. CACTI

Class A: Individual specimens. Limited to 3 entries per household per division.

Division:

1. *Hatiora*, *Rhipsalis*, *Zygocactus*.
2. *Opuntia*, *Pterocactus*, *Tephrocactus*.
3. *Arrojadoa*, *Cereus*, *Cleistocactus*, *Espostoa*, *Eulychnia*, *Haageocereus*, *Mila*, *Pilosocereus*, *Stetsonia*, *Thrixanthocereus*, *Weberbauerocereus*.
4. *Borzicactus* — including *Arequipa*, *Oreocereus*, *Seticereus*.
5. *Borzicactus* — including *Matucana*, *Submatucana*.
6. *Backebergia*, *Bergerocactus*, *Carnegiea*, *Cephalocereus*, *Lophocereus*, *Macherocereus*, *Myrtillocactus*, *Neobuxbaumia*, *Nyctocereus*, *Pachycereus*, *Rathbunia*, *Stenocereus* (syn. *Lemaireocereus*).
7. *Echinocereus*.
8. *Neoevansia*, *Peniocereus*, *Wilcoxia*.
9. *Echinopsis* — including *Trichocereus*.
10. *Acanthocalycium*, *Lobivia*, *Rebutia*.
11. *Astrophytum*

12. *Echinocactus*, *Echinofossulocactus* (syn. *Stenocactus*), *Ferocactus*, *Hamatocactus*, *Homalocephala*, *Leuchtenbergia*, *Pediocactus*, *Sclerocactus*.
13. *Ariocarpus*, *Aztekium*, *Obregonia*, *Strombocactus*.
14. *Epithelantha*, *Gymnocactus*, *Pelecyphora* (including *Encephalocarpus*), *Turbinicarpus* (including *Normanbokea*).
15. *Blossfeldia*, *Denmoza*, *Frailea*, *Oroya*, *Parodia*, *Sulcorebutia*, *Uebelmannia*, *Weingartia*.
16. *Gymnocalycium*.
17. *Notocactus*, *Wigginsia* (syn. *Malacocarpus*).
18. *Copiapoa*, *Neoporteria* — including *Islaya*, *Neochilenia*, *Pyrrhocactus*.
19. *Discocactus*, *Melocactus*.
20. *Mammillaria* — including *Cochemia*, *Dolicothele*, *Mamillopsis*: pot size less than 4 inches.
21. *Mammillaria* — including *Cochemia*, *Dolicothele*, *Mamillopsis*: pot size 4-10 inches.
22. *Mammillaria* — including *Cochemia*, *Dolicothele*, *Mamillopsis*: pot size larger than 10 inches.
23. *Ancistrocactus*, *Coryphantha*, *Echinomastus*, *Escobaria*, *Neobesseya*, *Neolloydia*, *Thelocactus*.
24. Miscellaneous genera not closely related to those listed in the above divisions.

Class B. Crested or Monstrose Cacti

Division:

1. Own root.
2. Grafted.

Class C. Grafted Cacti

Class D. Cactus Collections. Four to six species or varieties of a genus, individually potted. Limited to 2 entries per household.

SECTION II.

SUCCULENTS OTHER THAN CACTI

Class A. Individual specimens. Limited to 3 entries per household per division.

Division:

1. Agavaceae: *Agave*.
2. Agavaceae: all other genera — *Beaucarnea*, *Sansevieria*, *Yucca*, etc.
3. Aizoaceae: *Lithops*.
4. Aizoaceae: all other genera — *Conophytum*, *Faucaria*, *Pleiospilos*.

5. Asclepiadaceae — *Ceropegia*, *Hoya*, *Huernia*, *Stapelia*, etc.
6. Apocynaceae — *Adenium*, *Pachypodium*, etc.
7. Compositae — *Othonna*, *Senecio*, etc.
8. Crassulaceae: *Adromischus*, *Cotyledon*.
9. Crassulaceae: *Aeonium*, *Greenovia*, *Sempervivum*.
10. Crassulaceae: *Bryophyllum*, *Kalanchoe*, *Kitchingia*.
11. Crassulaceae: *Crassula*, *Rochea*.
12. Crassulaceae: *Dudleya*, *Echeveria*, *Graptopetalum*, *Pachyphytum*, *Sedum*.
13. Euphorbiaceae: *Euphorbia*. Pot size to 6 inches.
14. Euphorbiaceae: *Euphorbia*. Pot size larger than 6 inches.
15. Euphorbiaceae: all other genera.
16. Liliaceae: *Aloe*. Rosette diameter to 4 inches.
17. Liliaceae: *Aloe*. Rosette diameter more than 4 inches.
18. Liliaceae: *Gasteria*.
19. Liliaceae: *Haworthia*.
20. Liliaceae: all other genera — *Bowiea*, *Scilla*, etc.
21. Portulacaceae — *Anacampseros*, *Portulacaria*, *Talinum*, etc.
22. Miscellaneous families A-B: Anacardiaceae — Burseraceae.
23. Miscellaneous families C-F: Convolvulaceae — Fouquieriaceae.
24. Miscellaneous families G-Z: Geraniaceae-Vitaceae.

Class B. Crested or Monstrose Succulents

Division

1. Own root.
2. Grafted.

Class C. Grafted Succulents.

Class D. Succulent Collections. Four to six species or varieties of a genus, individually potted. Limited to 2 entries per household.

SECTION III. SEEDLINGS. Seedlings must have been germinated by the exhibitor. Labels must include date of germination as well as scientific name. Ribbon points awarded for seedling exhibits count twice as much as those in other sections toward the award of The Phoenix Gazette Sweepstakes Trophy. Limited to 2 entries per household per class.

Class A. Cacti, no more than 3 years old.

Preview night at 1983 Cactus Show



Class B. Succulents other than cacti, no more than 2 years old.

Class C. Desert trees and shrubs, no more than 1 year old.

SECTION IV. SPECIMEN PLANTERS. Individual specimens in containers larger than 14 inches in diameter or more than 3 feet tall, including container. Limited to 3 entries per household per class.

Class A. Cacti.

Class B. Succulents other than cacti.

Class C. Caudiciform or sarcorrhizus (fleshy-rooted) desert trees and shrubs.

SECTION V. DECORATIVE PLANTERS. All plants must be well-rooted and must have been grown in the exhibited container for at least 6 weeks. Decorative containers, and ornamental, desert-related objects allowed. Limited to 3 entries per household per class. Accessories are permitted; artificial materials and color are not allowed.

Class A. Desert Dwarfs

Division

1. Bonsai — individual dwarfed desert plant specimens.
2. Miniature landscapes — groups of dwarfed desert plants arranged in a landscape setting.

Class B. Dish Gardens — containers to 14 inches.

Division

1. Cacti
2. Succulents other than cacti.
3. Cacti and other succulents.

Class C. Hanging Planters — cacti, succulents or both.

Class D. Patio Planters — Cacti, other succulents or both. Containers larger than 14 inches in diameter.

SECTION VI. ARRANGEMENTS. No rooted plants. Accessories are permitted; artificial materials and color are not allowed. Divisions applicable to each class include: 1. dried Arizona material; 2. fresh material (cacti and/or other

succulents; a minimum amount of other material may be used).

Class A. Designs suitable for a coffee table.

Class B. Designs suitable for a mantelpiece.

Class C. Door or wall hanging, equipped for hanging.

Class D. Small arrangements, under 5 inches.

SECTION VII. EDUCATION EXHIBITS.

Competitive. Dealing with any aspect of desert botany or horticulture. Two or more exhibits are required within the Section before the Cactus and Succulent Society of America Award can be presented. Ribbon points for education exhibits count 3 times as much as those in other sections toward the award of The Phoenix Gazette Sweepstakes Trophy. Exhibitors must contact the Registration Committee in advance to reserve space and to verify that exhibits are appropriate.

SECTION VIII. OPEN. Competitive. Displays by clubs, commercial growers, societies. Exhibitors must contact the Registration Committee in advance to reserve space and to verify that exhibits are appropriate. Limit one per group.

SECTION IX. MASTERS. Limited to plants that have won a trophy in previous Desert Botanical Garden Cactus Shows. Plants in the Masters Section are not eligible for ribbon points or other show trophies. A Masters Trophy may be awarded in each class or division of the Masters Section, at the judges' discretion.

Class A. Individual specimens, pot size to 14 inches in diameter or plant to 3 feet tall.

Division:

1. Cacti.
2. Succulents other than cacti.

Class B. Individual specimens, pot size greater than 14 inches in diameter or plant taller than 3 feet.

Division:

1. Cacti.
2. Succulents other than cacti.

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REGISTRATION — 37th ANNUAL CACTUS SHOW

Name _____ Phone _____

Street Address _____

City _____ State _____ Zip _____

Please read Rules before filling out this form.

NUMBER OF ENTRIES

Section	Advanced	Novice	Section	Advanced	Novice
I. Cacti	<input type="checkbox"/>	<input type="checkbox"/>	VI. Arrangements	<input type="checkbox"/>	<input type="checkbox"/>
II. Succulents	<input type="checkbox"/>	<input type="checkbox"/>	VII. Education Exh.	<input type="checkbox"/>	<input type="checkbox"/>
III. Spec. Planters	<input type="checkbox"/>	<input type="checkbox"/>	VIII. Open	<input type="checkbox"/>	<input type="checkbox"/>
IV. Dec. Planters	<input type="checkbox"/>	<input type="checkbox"/>	IX. Masters	<input type="checkbox"/>	<input type="checkbox"/>
V. Arrangements	<input type="checkbox"/>	<input type="checkbox"/>			



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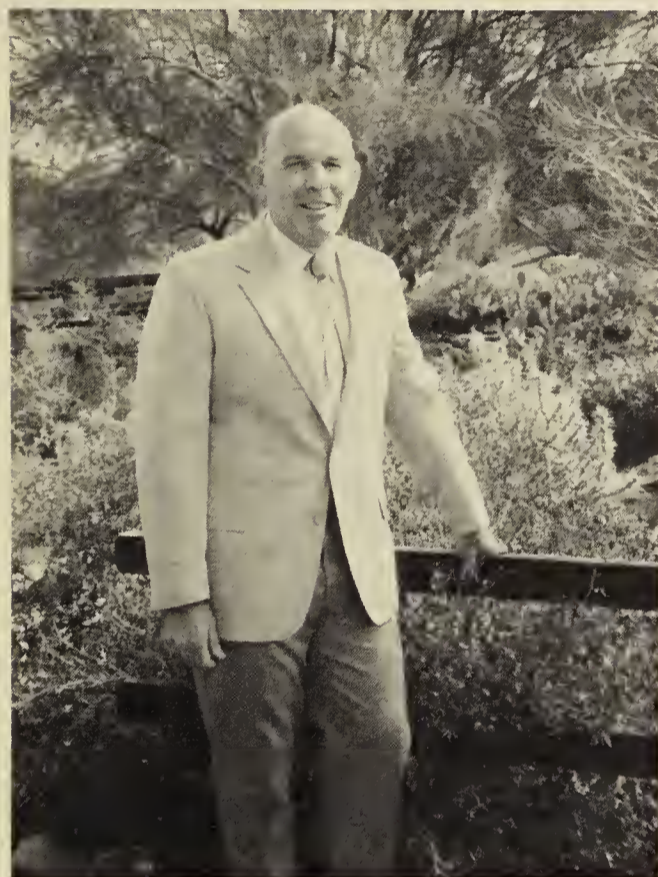
VOLUME 38

Bulletin

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 2

February, 1984



FREDERICK W. SHIRLEY BECOMES GARDEN DIRECTOR

Frederick W. Shirley, a retired U.S. Army lieutenant colonel, assumed the position of director of the Desert Botanical Garden on January 11.

Prior to his military retirement in the fall of 1983, Shirley served as public affairs officer at Fort Knox, Kentucky. There he directed the largest weekly newspaper in the state, a closed-circuit television station and the public relations activities of the Patton Museum. Other

experience includes positions as editor-in-chief of *Armor Magazine*, a professional journal; and national executive director of the U.S. Armor Association, a non-profit professional association.

Shirley holds a bachelor of arts degree in history from Virginia Military Institute and a master's degree in business administration from Arizona State University.

Shirley and his wife, Judy, have three children — Kendra, 13, Kevin, 11, and Kent 6. They have made their Arizona home in Mesa.

Frederick W. Shirley

Curator J. Harry Lehr Retires

"There's only one thing my wife has never had to be jealous about," says J. Harry Lehr, "and that's the Garden. It's been my second love all these years."

When Mr. Lehr spoke those words at a staff luncheon in his honor January 18, "all these years" meant 15 years of work with the Garden's plant specimen collection. The luncheon honored Mr. Lehr's *second* retirement: he had retired from banking and moved to Phoenix from New York State in 1969. In January, 1984, he retired again, this time from the curator's position at the Garden, for health reasons.

He began his work at the Garden

as a volunteer in the autumn of 1969, sorting and re-working nearly 2,300 herbarium specimens tucked away in a spare room behind Webster Auditorium. The specimens included the George B. Hinton collection, which was mounted entirely with scotch tape, and the bulk of the Rose Collom collection which contained a few collection numbers and no other data.

Mr. Lehr joined the Garden staff as Curator of the Herbarium in mid-1970. That same year he made his first addition to the flora of Arizona, by discovering a species of *Carex* (a grass-like perennial) growing near

(Continued on page 7)



COME TO THE 37th ANNUAL CACTUS SHOW AND SALEBRATION!



Succulents await Cactus Show and Salebration in the Garden's sales greenhouse near the Student Entrance. They are only a small part of the stock — both cacti and succulents — that will be on sale during the show, from Saturday, February 25, to Sunday, March 4. Show and sale times are 8:00 a.m. to 5:00 p.m. daily.

!IMPORTANT DATES!

Friday, February 24 (6:00-8:00 p.m.). Members' Preview of the 37th Annual Cactus Show and Awards Presentation.

Wednesday, February 29 (1 p.m.). COMPAS NINE Benefit Golf Tournament, Hillcrest Golf Club Sun City West. Contact Fred Shirley, Garden director, for details.

Wednesday, February 29 (24 hours daily). Wildflower Network begins. Members and the general public may call 941-1239 for the latest information on Arizona wildflower locations. Taped message will be updated weekly through April 25.

Saguaroland Bulletin is published monthly by the Desert Botanical Garden, 1201 N. Galvin Parkway, Phoenix, Arizona 85008. Telephone (602) 941-1217. Third class bulk rate postage is paid at Phoenix, Arizona. ISSN 0275-6919

Director: Frederick W. Shirley
Editor: Janet F. Barstad, M.S.

Seven categories of Garden membership are available. Call the Desert Botanical Garden for membership information weekdays between 8 a.m. and 5 p.m.

Arizona Native Plant Society to Meet

The Phoenix Chapter of the Arizona Native Plant Society will meet at 7:30 p.m. Monday, February 13, in Webster Auditorium. Landscape Architect James Abell will speak and show slides on historic Casa Blanca, an Arizona mansion built in the 1930's in the best tradition of Southwestern architecture. Great Western Development Corp., the mansion's present owner, has proposed a renovation and landscaping plan for the historic building. Drought-tolerant plants are even now included in the landscaping.

Date for the ANPS field trip in February, a hike in Phoenix's South Mountain Park, has not been set. For more details, call Peg Gallagher, 894-0994, or Marc Mittelman, 265-0607.

SENIOR CITIZEN DISCOUNT NOW IN EFFECT! SENIORS ADMITTED TO GARDEN FOR \$2.00

MEMBERS APPROVE BOARD INCREASE

Members of the Desert Botanical Garden have approved a request from the Garden's Board of Trustees to expand the Board. The number of trustees will increase from 24 to 33. The move was approved at a special members' meeting held at the Garden January 19; members approved the necessary change in the by-laws at that time.

At the same meeting, the Board of Trustees approved a Senior Citizen Discount of 20 percent on Garden admission fees. Senior citizens will now be admitted to the Garden for \$2.00. Regular fees are \$2.50 for adults and \$.50 for children 5 to 12. Children under 5 years are admitted free.

The Board also voted to offer a student membership for \$7.50 per year.



Kathy Favreau has joined the Garden as a salesperson in the Gift Shop. An artist, Kathy holds a bachelor of fine arts degree from Otis Art Institute of Parsons School of Design in Los Angeles. She moved to Phoenix from Los Angeles last year.



NOT FLOWERING, EXACTLY. New signs called storyboards have taken root in several Garden locations. Visitors will now find them in the Cactus and Succulent Lath Houses and on the Arizona Native Plant Trail. The storyboards expand on life histories and habitats of the plants represented in the Garden's collections.

Garden Offers Internships Through AABGA

The Desert Botanical Garden is one of 82 botanical gardens, arboreta, parks and other horticultural display gardens in the United States and Canada that have listed summer employment and internship opportunities for 1984. The American Association of Botanical Gardens and Arboreta (AABGA) has issued the list, which is available in the Garden's Richter Memorial Library.

The Desert Botanical Garden is offering an eight-week summer internship (20 hours/week) and a 12-week fall internship (15 hours/week). The number of positions is unlimited, and the work is general botanical garden jobs or horticulture. There are no wages, stipends or credits, and no housing is available; there is no charge to students who wish to attend Garden field trips and classes.

AABGA is also offering a Student Travel Award for the best paper on an original project or research of value to public gardens. The recipient will travel to Edmonton, Alberta, for the 1984 AABGA Annual Meeting June 20-24, "Plants, the International Denominator." Papers must be received no later than March 30.

For more information write American Association of Botanical Gardens and Arboreta, P.O. Box 206, Swarthmore, Penna. 19081.

Spring Tour of Valley Gardens

The Garden's third Tour of Valley Gardens is in the making, scheduled for 1:00-5:00 p.m. Sunday, March 18. The tour will feature four unique landscapes in the Phoenix area.

Tickets will go on sale in mid-February in the Garden's Gift Shop, and they will also be available at the 37th annual Cactus Show and Salebration (February 25-March 4). Price is \$5.00 per ticket; while there is no member discount, pre-sale price will be \$4.00, so buy your tickets early.

GARDEN ACQUIRES MYSTERIOUS ROCKS by Jane Cole, Librarian

A delightful array of beautifully-decorated rocks began to appear mysteriously among the Garden's planting during the summer. Many Garden visitors thought the rocks were a part of the Garden's displays and seemed to enjoy finding them in several locations during their tours; they wondered why the rocks had never been mentioned in Garden literature or by members of the staff.

This oversight occurred because the rocks were as much of a surprise to the staff as they were to visitors. The rocks are presently housed in Richter Memorial Library, where visitors are welcome to examine them and research the possible petroglyphic symbols painted on them. It is also hoped that the artist will identify him/herself and fill in the details of the artistic plan for the rock's placement in the Garden.



Curator J. Harry Lehr Retires

(Continued from page 5)
the Herbarium.

A new Herbarium was built and completed in 1971 and 1972, and by 1973 the 10 new herbarium cases held 9,000 plant specimens. Steady growth during the next 10 years has brought the Garden's plant specimen collection to more than 26,000.

Along with the establishment of exchange programs with universities in the West and South and with

the National Herbarium of Mexico, and the initiation of a taxonomic file, Mr. Lehr in 1978 published "A Catalogue of the Flora of Arizona," a 203-page checklist and update of the state's plant species. He has been co-author, with Dr. Donald Pinkava of Arizona State University, of two supplements to the Catalogue, both of which have appeared in the Journal of the Arizona-Nevada Academy

of Science.

Since he joined the Garden staff 15 years ago, J. Harry Lehr has added 11 plant species to the Arizona flora list. Chances are he'll be adding more — because, you see, although he "retired" from the Garden staff the second week of January, he rejoined the organization during the fourth week of January as a two-day-a-week volunteer — in the Herbarium.

1201 N. GALVIN PARKWAY
PHOENIX, AZ 85008



DESERT
BOTANICAL
GARDEN

MR. & MRS. W. H. EARLE
6737 N. 20TH STREET
PHOENIX, ARIZONA 85016

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Garden Events

FEBRUARY

- 1 The Southwestern Expression** — Daily,
8:00 a.m. - 5:00 p.m.
A display of weavings, basketry and spinning by Telarana Weavers and Spinners Guild. Included with Garden admission.
- 4, 5 Weaving & Spinning Demonstrations** Sat. & Sun.
11, 12 1:00 - 3:00 p.m.
Telarana Weavers and Spinners Guild will demonstrate their arts on these two weekends. Opening reception Feb. 4, 1:00 - 3:00 p.m. Included with Garden admission.
- 11 Field Trip to Big Horn Mountains** Saturday,
7:00 a.m.
Explore cactus and other native plants in and around the Big Horn Mountains. Register by Monday, Feb. 6. Fees: Members \$16.00, nonmembers \$20.00. Limit: 13.
- 13 Spinning** Monday,
9:00 a.m. - noon
Learn to spin natural fibers in this two-session class. Fibers and use of a spindle included in fee. Register by Thursday, Feb. 9. Fees: Members \$10.00, nonmembers \$12.50.
- 15 Palm Seed Stalk Basketry** Wednesday,
9:00 a.m. - noon
Make an unusual basket in this two-session class. All materials provided. Register by Monday, Feb. 13. Fees: Members \$8.00, nonmembers \$10.00.
- 22 Entries accepted for** Wed. & Thurs.
23 Cactus Show 8:00 a.m. - 7:00 p.m.
24 Members' Preview of Friday,
37th Annual Cactus Show 6:00 - 8:00 p.m.
25 - 37th Annual Cactus Show Daily,
March 4 8:00 a.m. - 5:00 p.m.
View entries in this nationally-famous show. Cacti, other succulents, arrangements and dish gardens will be on display. Included with Garden admission.
- 29 Wildflower Network** 24 hours
The public is invited to call 941-1239 for the latest reports on Arizona wildflowers. Taped message will be updated weekly through April 25.

MARCH

- 5 Weed Pouch** Monday,
9:00 a.m. - noon
Weave a weed pouch. All materials supplied. Register by Thursday, March 1. Fees: Members \$4.00, nonmembers \$5.00.
- 6 Landscaping** Tuesday,
7:00 - 9:00 p.m.
Four sessions of home landscaping by Ron Dinchak. Textbooks for purchase in class. Register by noon March 5. Fees: Members \$12.00,

- nonmembers \$15.00.
- 6 Basketry Display** Daily,
8:00 a.m. - 5:00 p.m.
Native American basketry plants and techniques in Webster Auditorium through May 9. Included with Garden admission.
- 7 Wheat Weaving** Wednesday,
9:00 a.m. - noon
Use wheat to weave traditional ornaments in this two-session class. All materials included. Register by Monday, March 5. Fees: Members \$12.00, nonmembers \$15.00.
- 7 Beginning Basketry** Wednesday,
1:00 - 4:00 p.m.
Two-session class in basketry basics. All materials supplied for a reed and sea-grass basket. Register by Monday, March 5. Fees: Members \$8.00, nonmembers \$10.00.
- 8 Vegetable Gardening** Thursday,
7:00 - 9:00 p.m.
Basics of spring vegetable gardening. Two classes and Saturday field trip to garden plots at Scottsdale Community College. Textbook included. Register by Monday, March 5. Fees: Members \$12.00, nonmembers \$15.00.
- 10 Basketry Lecture & Demonstration** Saturday,
1:30 - 4:00 p.m.
Lecture at 1:30 and Papago basket-weaving demonstration from 2:00 - 4:00 p.m. Included with Garden admission.
- 11 Wildflower Short Courses** Sunday,
1:00 - 4:00 p.m.
Learn to recognize the most common wildflowers, cactus and blooming trees and shrubs in intensive introduction to Arizona's spring color. Course is repeated March 15, 19 and 23. Register by Thursday, March 8; register by March 12, 16 and 21 for subsequent courses. Fees: Members \$4.00, nonmembers \$5.00.
- 12 Creating in Clay** Monday,
9:30 a.m. - noon
Create with clay using Garden's plants as inspiration. All materials provided for three-session class by Roberta Silbret. Register by Thursday, March 8. Fees: Members \$12.00, nonmembers \$15.00.
- 12 Entries accepted through April 25** Daily,
for Arid-Zona Landscaping Contest 8:00 a.m. - 5:00 p.m.
- 17 Landscaping Workshop** Saturday,
9:30 a.m. - 2:30 p.m.
Home landscaping by Ron Dinchak for those unable to attend evening class. Textbooks may be purchased at workshop. Bring a sack lunch. Register by Thursday, March 22. Fees: Members \$6.00, nonmembers \$7.50.
- 18 Tour of Valley Gardens** Sunday,
1:00 - 5:00 p.m.



SaguaroLand

VOLUME 38

Bulletin

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 3

March, 1984



A Tour of Valley Gardens

1:00 to 5:00 p.m.

Sunday, March 18



(see details inside)



TOUR OF VALLEY GARDENS. Four very different, equally exciting gardens will be open to view: a container garden with whimsical stone animals; a five-acre estate with tennis court, vegetable and rose gardens and childrens' play area; a landscape of decks, terraces and flowing water; and a small, elegant garden with Japanese touches. Tickets are on sale in the Gift Shop and Office, for \$4.00 before the tour and \$5.00 on tour day.

SPRING SALE OF LANDSCAPING PLANTS

**8:00 a.m. to 5:00 p.m.
Saturday and Sunday,
March 31 and April 1**

- **Drought-tolerant trees, shrubs, ground covers, perennials and seeds**
- **landscaping and plant books**
- **dish gardens**
- **cacti and succulents**

Plant experts will be on hand to help with questions and problems.

Free entry to the Plant Sale area!

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RICHTER LIBRARY USER SURVEY

Please circle the statements that apply to your use of Richter Library and send this survey by April 1 to Jane Cole, Librarian, Desert Botanical Garden, 1201 N. Galvin Parkway, Phoenix, Arizona 85008. Thanks for your help.

1. Have you visited Richter Library at the Desert Botanical Garden?

Yes No

If no, give reason:

It wasn't open No need

Other _____

2. If yes, how often do you use the Library?
once a week or more once a month
once a year

3. Do you find the Library:
pleasant unpleasant useful noisy

4. Have you ever phoned or visited the Library with a reference question:

Yes No

5. Do you have suggestions for making the Library more useful to yourself and others?

PHOTO EXHIBIT WINNERS

The 1984 Photography Exhibition, held at the Garden January 21-29, produced winners in the categories of black and white prints, color prints and color slides. Prints were on view during the week of the exhibition in Webster Auditorium, and slides were shown at public presentations on four days during the show. Co-chairmen for the event were Dottie O'Rourke and Gen Evans.

Best of Show winners were Robert Metz of Sun City for his black and white print "Yucca Blossom;" Ralph Rippe of Phoenix for his color print "Emerging in Time;" and Louis McRoberts of Scottsdale for his color slide of *Notocactus mammulosus*.

Phyllis Heinrichs of Kamloops, British Columbia, Canada, submitted the best photo taken in the Desert Botanical Garden; and M. Genenieve Evans took the best photo of an Agave (taken anywhere), a new award presented by Mr. and Mr. Jackson Fitz-Randolph.

First-place ribbons went to Robert Metz for black and white prints in both plant portrait and landscape categories; Frances Lightner, color prints, plant portrait category; Ralph Rippe, color prints, landscape category; Louis McRoberts, color slides, plant portrait category; Michael McCarthy, Desert Botanical Garden black and white print; Phyllis Heinrichs, Desert Botanical Garden color print, and Gene Almendinger, Desert Botanical Garden color slide.



THERE'S SOMETHING

WILD

IN
YOUR
STATE
TAX FORM

**CHECK IT OUT
THEN
CHECK IT OFF**

Some Job Changes in the Garden

Personnel changes within the Garden staff have been made during the past month and have been announced by Garden Director Fred Shirley.

Dr. Howard Scott Gentry has been named research director. Dr. Gentry has been the Garden's research botanist since 1972; his monograph, "Agaves of Continental North America," was published in late 1982.

Janice Moats, who has been business manager since 1975, has become the Garden's comptroller. Tracy Peterson has taken Jan's place as business manager.

Wendy Hodgson, who began work at the Garden as a horticulturist, then artist and assistant herbarium curator, has been promoted to herbarium curator. Bruce Parfitt, formerly administrative assistant, is now herbarium assistant.

New to the Garden staff is Janet Vasquez, who has become the Garden's fulltime secretary.

***FLOWERING.** Wildflowers have been popping out during the past month — February was so warm that the spring annuals planted last fall got going early. Look for "Glistening White" African daisies (*Dimorphotheca* sp.) along Garden paths in March and April.*



***BASKETS BY BERNICE.** Bernice Monte, a Papago basket-maker, shows some of her baskets to be displayed in the Basketry Exhibit in Webster Auditorium this month. The Yucca elata behind her is an example of plants used for basketry materials.*

GARDEN JOINS BASKETRY THREESOME

The Desert Botanical Garden is one of three Phoenix organizations that are cooperating in a three-part workshop in March. With Pueblo Grande Museum and The Heard Museum, the Garden will present "Basketry: an Art in Three Dimensions" on three consecutive Wednesday mornings, March 14, 21 and 28, beginning at 9:30 a.m.

Workshop participants will meet March 14 at the Garden, for a look at selection and preparation of basketry materials. On March 21, a Pima basketweaver will teach the art of basket-weaving itself at Pueblo Grande. Staff at The Heard Museum on March 28 will show its collection of rare baskets and will discuss basket use and care.

Registration for the three-part basketry workshop is \$15.00, \$12.00 for members of any participating institution. Enrollment is limited and pre-registration is required. Interested persons may call Pueblo Grande Museum at 275-3452 by March 10 to be sure of a place in the workshop.

Volunteers to Go Wildflowering

Volunteers will meet at 8:30 a.m. Thursday, March 22, for the monthly meeting of the Friends of the Garden. This month's "meeting" will be a wildflower walk and picnic lunch at Usury Mountain Park east of Mesa.

Friends should also add the Volunteer Luncheon to their calendars. Date is set for Wednesday, April 11, beginning at noon. Please come and accept thanks from the Garden for all of your good work during the past year!



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* PROFILE *

Nancy Rheinlander, Volunteer

Back in 1964, Nancy Rheinlander joined the Desert Botanical Garden. She worked on the Cactus Show, and the sight of all those hundreds of incredible plants so intimidated her that she went away and seldom returned except to bring out-of-town visitors once in a while.

Strange to tell, it was a set of out-of-town visitors who finally convinced Nancy to become one of the Garden's most active volunteers. They were friends from New York who visited in 1977 and, says Nancy, they knew more about the Garden's plants than she did. Coupled with their visit was an announcement in the *Saguaro-land Bulletin* about the beginning of the Garden's first Docent class. Now — put the two together and ultimately you have Nancy Rheinlander, graduate of the first Docent class in 1977 — and this year teacher of the spring 1984 version of that very same class, with a *lot* of volunteering in between.

When she began her very busy volunteer career at the Garden, Nancy worked with the horticulturists — “out on the ground,” as she calls it. She watered, weeded, dug holes and planted creosote, among the many plant-oriented jobs there are to do in a botanical establishment. In 1982 she began working on Plant Sales; her first job was cleaning seeds with Maggie Nowlin and Victor Gass. When Pat Korf became Gift Shop manager and founded the standing Plant Sale Committee, Nancy joined the committee and handled plant labelling for three sales. Now she's moved on to coordinate material for the plant information cards that accompany each type of plant sold during the spring and fall sales.

She's enthusiastic about her Docent teaching activities, an every-Tuesday-morning function that supplies the knowledge needed by Docents to guide tours and

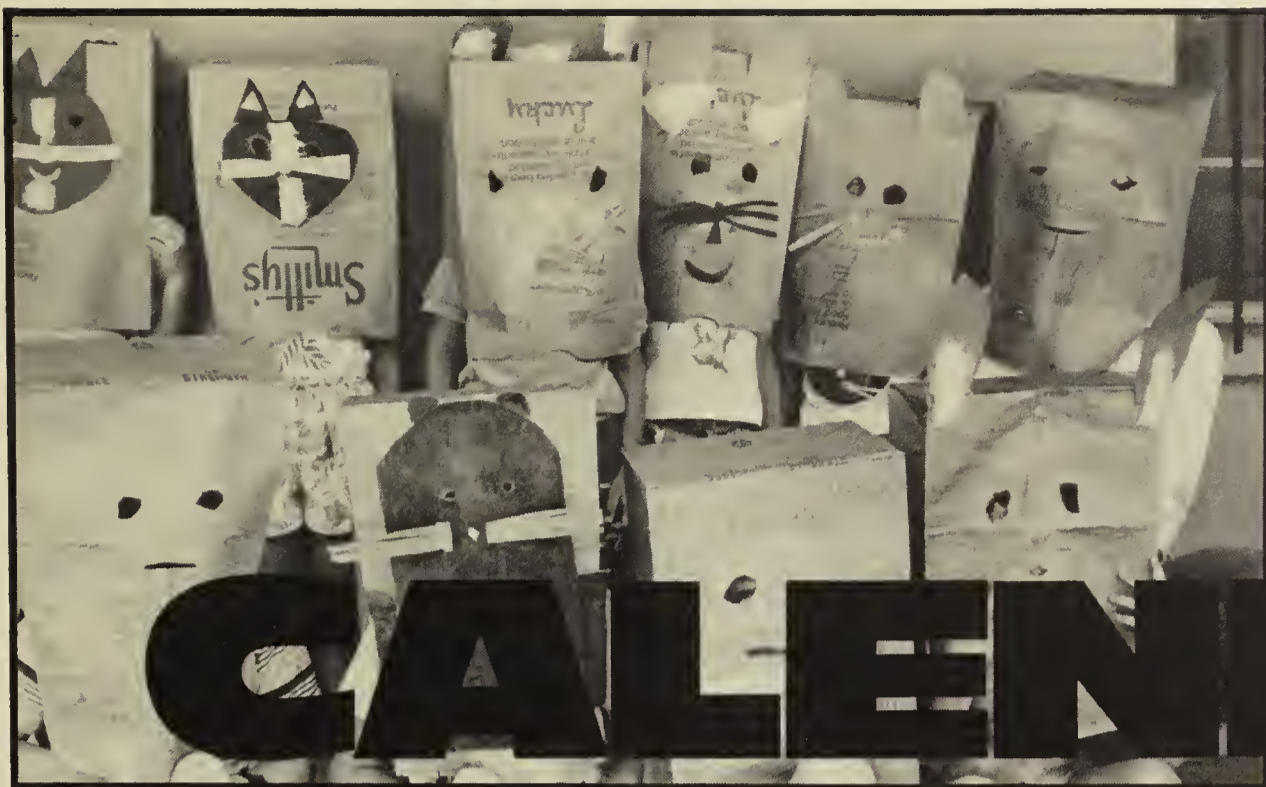
do other educational jobs in the Garden. Teaching the Docent class requires much the same skills as teaching Girl Scout leaders, a job Nancy did for the Arizona Cactus-Pine Girl Scout Council for 16 years.

Why does she do all these things and more for the Garden? Why does she sometimes spend three or four days a week here when she has a vegetable garden and a photography studio at home? “Because I love the outdoors,” Nancy says simply. “And I enjoy working with adults — the Docent class is really sharp. I used to work a lot with children, but I guess I've changed focus, and it's just as rewarding.”

You're going to have to look fast to see Nancy as she goes by — she'll be on her way to guide a tour or heading for the trail to introduce members of the Docent class to 10 new plants, or taking pictures, or giving away a sackful of New Zealand spinach from her garden. Now *that's* volunteering!



Nancy Rheinlander (left) and Horticulturist Judy Mielke lead members of the Docent class along Arizona Native Plant Trail.



SPRING 1984

CALENDAR

AT THE DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Classes and Workshops: Prepaid reservations are required, since enrollment is limited, and any event without a minimum number of registrants by registration deadline will be cancelled. Fees include all necessary materials.

Field Trips: Meet behind Webster Auditorium (take service road). Trips will leave promptly at 7:00 a.m. unless otherwise specified. Transportation to and from field trip site is provided by the Garden.

Wear comfortable, suitable shoes (lug soles recommended), bring lunch that can be carried on the hike, and water. Trips involve easy to moderate hiking. Leaders are familiar with trip sites and have the authority to disqualify persons unlikely to make the trip safely.

For information on any Garden event, telephone 941-1225 8:00 a.m.-5:00 p.m. weekdays.

MARCH

5. (Monday) 9:00 a.m. - noon: **WEED POUCH.** Weave a weed pouch. Register by Thursday, March 1. Members \$4.00, nonmembers \$5.00.
6. (Tuesday) 8:00 a.m.-5:00 p.m. **EXHIBIT — Arizona Indian Basketry Materials: Collection, Preparation and Use.** Baskets by Bernice Monte, Papago. In Webster Auditorium through May 9. Included with Garden admission.
6. (Tuesday) 7:00-9:00 p.m. **LANDSCAPING.** Four sessions on home landscaping by Ron Dinchak. Textbooks available. Register by Monday, March 5. Members \$12.00, nonmembers \$15.00.
7. (Wednesday) 9:00 a.m.-noon. **WHEAT WEAVING.** Two sessions on weaving wheat into traditional ornaments. Register by Monday, March 5. Members \$12.00, nonmembers \$15.00.
7. (Wednesday) 1:00-4:00 p.m. **BEGINNING BASKETRY.** Two sessions in basketry basics. Register by Monday, March 5. Members \$8.00, nonmembers \$10.00.
8. (Daily) 8:00 a.m.-5:00 p.m. **EXHIBIT — Wildflower Network.** Map of wildflower reporting sites and latest flower lists. In Webster Auditorium through April 10. Included with Garden admission.
8. (Thursday) 7:00-9:00 p.m. **VEGETABLE GARDENING.** Basics of spring vegetable gardening. Two classes and Saturday field trip to gardens at Scottsdale Community College. Register by Monday, March 5. Members \$12.00, nonmembers \$15.00 (Textbook included).
9. (Daily) 8:00 a.m.-5:00 p.m. **EXHIBIT — Basketry Plants.** Living plants used by Native Americans in basket-making. In Douglas Display Case through April 11. Included with Garden admission.
10. (Saturday) 1:30-4:00 p.m. **BASKETRY LECTURE & DEMONSTRATION.** Lecture at 1:30, Papago basketweaving demonstration 2:00-4:00 p.m. Included with Garden admission.
11. (Sunday) 1:00-4:00 p.m. **WILDFLOWER SHORT COURSES.** Learn common wildflowers, cactus, blooming trees and shrubs in intensive introduction to Arizona's spring color. *Course is repeated March 15, 19 and 23.* Register by March 8, 12, 16 and 21. Members \$4.00, nonmembers \$5.00.

12. (Monday) 9:30 a.m.-noon. **CREATING IN CLAY.** Create with clay using Garden's plants as inspiration. Three-session class by Roberta Silbret. Register by Thursday, March 8. Members \$12.00, nonmembers \$15.00.
12. (Daily) 8:00 a.m.-5:00 p.m. **ENTRIES ACCEPTED THROUGH APRIL 25 FOR ARID-ZONA LANDSCAPING CONTEST.**
17. (Saturday) 9:30 a.m.-2:30 p.m. **LANDSCAPING WORKSHOP.** Home landscaping by Ron Dinchak for those unable to attend evening class. Textbooks available. Register by Thursday, March 15. Bring sack lunch. Members \$6.00, nonmembers \$7.50.
18. (Sunday) 1:00-5:00 p.m. **A TOUR OF VALLEY GARDENS.** Third annual tour of four special landscapes in the Valley. Tickets on sale in Gift Shop and Garden office. Pre-tour \$4.00, day of tour \$5.00.
20. (Thursday) 9:00 a.m.-noon. **NATURAL DYEING.** Three sessions using desert plants to dye fibers. Register by March 19. Members \$16.00, nonmembers \$20.00.
21. (Wednesday) 2:00 p.m. **SPRING LECTURE SERIES —Mesquite.** Importance of mesquite in Native American cultures, by Research Associate Ruth Greenhouse. First of five-week series. Included with Garden admission.
22. (Thursday) 7:30-9:30 a.m. **BEGINNING BIRDING.** Two morning sessions; learn to recognize Garden's birds. Register by Monday, March 22. Members \$4.00, nonmembers \$5.00.
24. (Saturday) 7:00 a.m. **SUPERSTITIONS FIELD TRIP.** Spring wildflowers and geologic beauty. Register by Monday, March 22. Members \$16.00, nonmembers \$20.00. Limit 13.
28. (Wednesday) 2:00 p.m. **SPRING LECTURE SERIES —The Saguaro.** Importance of the saguaro in Native American cultures, by Ruth Greenhouse. Included with Garden admission.
30. (Friday) 3:00-6:00 p.m. **MEMBERS' PREVIEW OF SPRING PLANT SALE.**
31. (Saturday) 8:00 a.m.-5:00 p.m. **SPRING PLANT SALE.** Purchase drought-tolerant plants for landscape use; unusual cacti and other succulents available. Free admission to sale area.

APRIL

1. (Sunday) 8:00 a.m. - 5:00 p.m. **SPRING PLANT SALE.**
1. (24 hours) **WILDFLOWER NETWORK.** Dial 941-1239 for latest reports on wildflower bloom in Arizona. Taped message through April 25.
2. (Monday) 9:30 a.m. - 12:30 p.m. **ACRYLIC PAINTING.** Latest magnification painting technique by Roberta Silbret. Four sessions. Register by Wednesday, March 28. Members \$20.00, nonmembers \$25.00.
3. (Tuesday) 7:00-9:00 p.m. **LANDSCAPE DESIGN.** Four sessions for homeowners who wish to design their own landscapes. Spouses working on the same design pay only one fee. Limit 15. Register by Monday, April 2. Members \$10.00, nonmembers \$12.00.
4. (Wednesday) 2:00 p.m. **SPRING LECTURE SERIES — Desert Plants, a Personal Narrative,** by Dorothy Lewis, Pima. Included with Garden admission.
5. (Thursday) 1:00-6:00 p.m. **WALK IN THE WILDFLOWERS.** Join a bus trip to a local wildflower site near Phoenix. Register by Monday, April 2. Members \$10.00, nonmembers \$12.50. Limit 40, make your reservation early. *Trip repeated Saturday, April 7, also limited to 40.*
12. (Thursday) 9:30-11:30 a.m. **PARENT/CHILD GARDEN EXPERIENCE.** Garden celebrates "Week of the Young Child" with special event for parents and preschoolers. Tour, story, crafts. Phoen pre-registration by Monday, April 9. *Repeated Friday, April 13.* Included with Garden admission.
13. (Daily) 8:00 a.m.-5:00 p.m. **EXHIBIT — Bible Plants.** Mini-display of living plants with Biblical significance. In Douglas Display Case through May 14. Included with Garden admission.
18. (Wednesday) 2:00 p.m. **SPRING LECTURE SERIES — Native American Uses of Desert Plants, an Overview,** by Ruth Greenhouse. Included with Garden admission.
19. (Thursday) 9:00 a.m.-noon. **NATURAL DYEING.** Three sessions of basics of natural dyeing. Register by Monday, April 16. Members \$16.00, nonmembers \$20.00.
19. (Thursday) 1:00-3:00 p.m. **EGG DYEING FOR ADULTS.** Color eggs using natural materials. Register by Monday, April 16. Members \$4.00, nonmembers \$5.00. Limit 12.
21. (Saturday) 9:30-11:30 a.m. **EGG DYEING FOR CHILDREN.** Ages 8 through 12 learn egg-dyeing with natural materials. Register by Monday, April 16. Members \$4.00, nonmembers \$5.00. Limit 12.
25. **ENTRY DEADLINE FOR ARID-ZONA LANDSCAPING CONTEST.** Closes at 5:00 p.m.
25. (Wednesday) 2:00 p.m. **SPRING LECTURE SERIES —Edible foods of Sonora,** by Herbarium Curator Wendy Hodgson. Included with Garden admission.
28. (Saturday) 9:00-11:00 a.m. **ETHNOBOTANY WORKSHOP.** Three sessions on uses of desert plants for food, fiber and adornment, with participation in preparation techniques. Register by Monday, April 23. Members \$12.00, nonmembers \$15.00.
29. (Sunday) 1:00-5:00 p.m. **FLOWERING CACTUS AND SUCCULENTS.** Central Arizona Cactus and Succulent Society displays cacti and succulents in flower. Included with Garden admission.
30. (Monday) 9:30 a.m.-12:30 p.m. **WATER COLOR.** Wax resist adds new dimension to water color painting. Three sessions with Roberta Silbret. Register by Wednesday, April 25. Members \$12.00, nonmembers \$15.00.

MAY

- 1. (Daily) 8:00 a.m.-5:00 p.m. EXHIBIT — Volunteers in Action. Photo display featuring Garden volunteer force. In Webster Auditorium through June 5. Included with Garden admission.
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- 13. (Sunday) 8:00 a.m.-5:00 p.m. MOTHER'S DAY AT THE GARDEN. Bring mom to the Garden and she will receive a free cactus. Included with Garden

admission.

- 15. (Tuesday) 9:00 a.m.-noon. ADVANCED NATURAL DYEING. Three sessions using more difficult fibers and advanced techniques.
- 15. (Daily) 8:00 a.m.-5:00 p.m. EXHIBIT — AGAVES. Mini-display of living agaves in Douglas Display Case, through June 11. Included with Garden admission.
- 19. (Saturday) 9:00 a.m.-noon. CULINARY HERBS AND BRUNCH. Make tasty dishes using herbs and enjoy the results. Cookbook available. Register by Monday, May 14. Members \$8.00, nonmembers \$10.00. Limit 12.
- 28. (Monday) 8:00 a.m.-sunset. MEMORIAL DAY. The Garden is open for a leisurely visit.

JUNE

- 6. (Daily) 8:00 a.m.-5:00 p.m. EXHIBIT — The Boojum Tree. Mini-display of this fascinating plant of Baja. In Webster Auditorium through July 18. Included with Garden admission.
- 13. (Daily) 8:00 a.m.-5:00 p.m. EXHIBIT — Plants for Allergy-Free Gardens. Plants for the sneeze-free home landscape. In Douglas Display Case through August 7. Included with Garden admission.
- 16. (Saturday) Leave 6:00 a.m. MAZATZAL MOUNTAINS FIELD TRIP. A cool day hike near Payson. Register by Monday, June 11. Members \$16.00, nonmembers \$20.00.
- 17. (Sunday) 8:00 a.m.-5:00 p.m. FATHER'S DAY AT THE GARDEN. Bring dad to the Garden and he will receive a free Old Man Cactus. Included with Garden admission.

detach here

COURSE AND FIELD TRIP REGISTRATION

Name: _____ Phone: _____

Address: _____

City: _____ State _____ Zip: _____

Garden member Nonmember Send membership information

Course: _____ Date _____ Fee: _____

Course: _____ Date _____ Fee: _____

Course: _____ Date _____ Fee: _____

Total: _____

Mail this form and check (payable to Desert Botanical Garden) to Desert Botanical Garden, 1201 N. Galvin Parkway, Phoenix, Arizona 85008. Payment must be received before registration deadline. Fee, less a \$3.00, nonrefundable handling charge, will be refunded only if registration is cancelled at least 5 days before the first session.

FIELD TRIPS



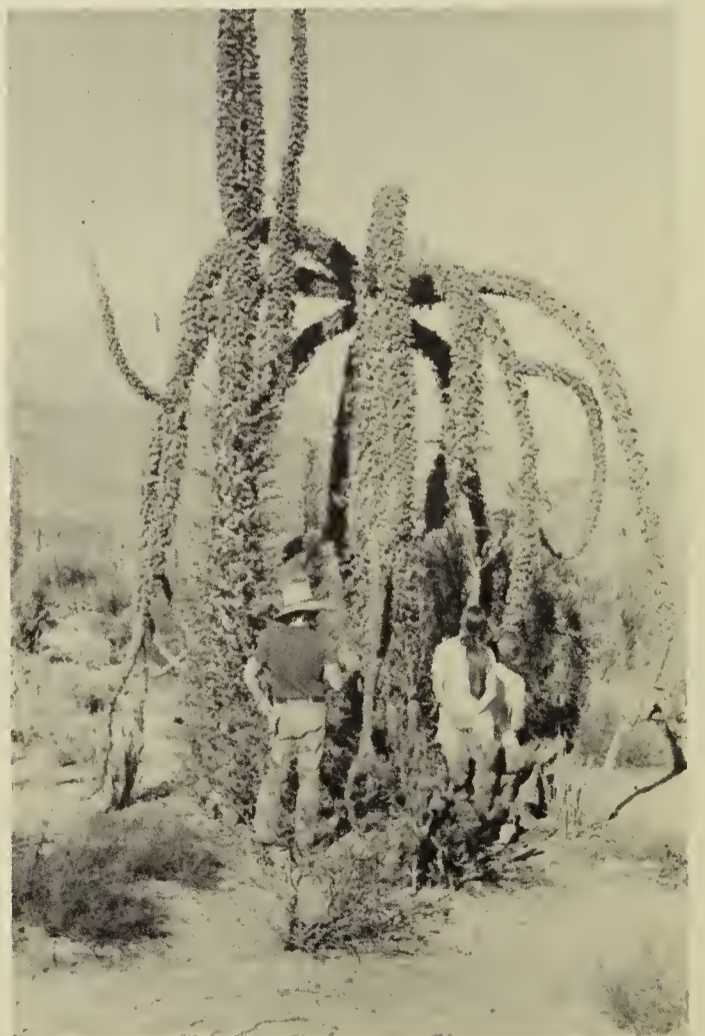
DISPLAYS



WORKSHOPS



TOURS





Saguaroland

Bulletin

VOLUME 38

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 4

April, 1984

American Express Assures COMPAS Status

American Express Company has announced plans to give a challenge grant to COMPAS Nine to assure full membership for the Desert Botanical Garden. Since this is the Garden's first year as a beneficiary in the Combined Metropolitan Phoenix Arts and Sciences (COMPAS) fund raising efforts, the American Express gift is important and much appreciated.

Final fund raising events for COMPAS Nine will be the TV auction on April 6 and April 7 on KPHO Channel 5 and the open auction at the Anchor Centre, 22nd Street and Camelback Road on April 8. Items remaining for these auctions are appliances, jewelry, furs, cars and furniture.

The April 8 sale begins at 10:00 a.m. with the auction following at 2:00 p.m. Parking at the Anchor Centre is off Highland at 22nd Street.

Trustees Elected to Board

Twelve new Trustees have been elected to the new 33 member Board of the Desert Botanical Garden. On March 15, 1984 these new Board members were introduced at a luncheon in their honor. Completion of Strategic Planning meetings (which have been going on since January), planning major gift campaigns in the community, coordinating COMPAS activities, and working toward the implementation of the Master Plan are some of the projects facing the Board of Trustees. The new members include Mrs. Hal (Vikkie) Bone, Roger Davis, Mrs. Frank (Alice) Feffer, Mrs. Donald (Joanne) Graves, John Jay Harper, Mrs. Basil (Johnnie Mae) Hodges, James Loudon, Mrs. Crane (Mary Ann) McClennen, Darryl McConaghie, Robert Mueller, William O'Brien, and Anthony Tominac. The next full meeting of the Board is scheduled for May 17, 1984 at the Desert Botanical Garden.

Flag Given to Garden

What's red, gold, and blue and flies over the Desert Botanical Garden? The answer is: a brand new Arizona State Flag, which has been given to the Garden by Mr. and Mrs. Oliver (Ollie and Norma) Luehring, in memory of Ollie's brother, Roland H. Luehring. It has been flying over the Garden, with the Flag of the United States, since the first week of the 1984 Cactus Show, when Ollie made the presentation to Fred Shirley, Director of the Garden.

Norma and Ollie are long time active volunteers as well as active participants in classes at the Garden. Norma's role as cashier for special events and Ollie's as stamper for bulk mailings are two of their regular roles. Everything they do adds to the sunshine nurturing plants and people along our paths.

Director Fred Shirley (left) accepts the gift of the State Flag of Arizona from Ollie Luehring (right).



Basketry by Arizona Indians

Ruth Greenhouse, Staff Researcher in Ethnobotany, has developed and arranged the exhibit in Webster Auditorium which shows the uses of native Arizona plants in ancient and modern basketry. Ruth has been working on the project since last summer when The Arizona Humanities Council in cooperation with the National Endowment For The Humanities included her project in awarding grants for 1984. A display of some of the living plants used in basketry is in the Succulent House in the Douglas Display Case. The exhibit in Webster Auditorium: "Arizona Indian Basketry Materials: Collection, Preparation and Use" continues through May 9, 1984. "Basketry Plants" in the Succulent House continues through April 11.



Up go the baskets, as Darnelle Dunn, Education Director, coordinates classes, lectures and exhibits.

Did You Know?

Wheelchairs are available at the Garden entrance.

Class groups reserved ahead of time for a tour cost only 25 cents per person.

Tours are sometimes available on short notice. Call the Garden and check it out.

Saguaroland Bulletin is published monthly by the Desert Botanical Garden, 1201 N. Galvin Parkway, Phoenix, Arizona 85008. Telephone (602) 941-1217. Third class bulk rate postage is paid at Phoenix, Arizona. ISSN 0275-6919

Director: Frederick W. Shirley
Editor: Jane B. Cole

Seven categories of Garden membership are available. Call the Desert Botanical Garden for membership information weekdays between 8 a.m. and 5 p.m.

News of Garden Activities

Publications Director Janet Barstad has resigned to pursue a career as a free lance writer in botany and horticulture.

Baby agave plants appearing along the paths at the Garden are the work of the Grounds Department Horticulturist, Judy Mielke.

The Collections Department has recently been plagued with thefts of newly planted specimens. According to Collections Curator, Victor Gass, several haworthia, small cacti, and a boojum have disappeared. Members or friends with clues or suggestions are requested to contact the Desert Botanical Garden.

Wendy Hodgson, Herbarium Curator, led a collecting trip in March which went to the Ajo area of Arizona and through Mexico to the mountains southeast of Yuma. Both herbarium specimens and horticultural material for propagation were collected.

Patrick Quirk, D.B.G. Plant Propagator, and Christine McElrath, D.B.G. Horticulturist, accompanied Wendy on the trip. The group also included Mary Butterworth, Botanist with the Bureau of Land Management; Arthur and Barbara Phillips of the Museum of Northern Arizona; and Jeanette Milne of the Transition Zone Horticultural Institute, Flagstaff.

Meanwhile, back at the Earle Herbarium: Bruce Parfitt, Herbarium Assistant, has been identifying and labeling materials stacked up from past trips.

Great news from Ed Brediger, Maintenance, who solved the plumbing problems in Archer House last month. Without going into mucky details, the solution does NOT involve digging up any twenty year old agave.



The Collectors: left to right, Christine McElrath, Mary Butterworth, Wendy Hodgson, Art Phillips, Matt McElrath (Christine's husband), and Barbara Phillips. Not pictured is Patrick Quirk.

Succulents Steal Show

From opening day on February 25, the 37th Annual Cactus Show in Webster Auditorium and on William C. Eliot Memorial Patio had a steady stream of valley and out of town visitors. Volunteers, staff and exhibitors were out in force to sign up new members for the Desert Botanical Garden and encourage interest in succulent plants. The show was sponsored by the Phoenix Gazette, Central Arizona Cactus and Succulent Society, and the Desert Botanical Garden.

Trophies, awarded on the Friday evening preceding the public show, went to 12 different exhibitors. The stars of the show were not people, however, but plants. The 80 exhibitors with over 1000 different plants set new records. The Saguaro Balloon, launched on Saturday, February 25, was an added attraction, as were Director Fred Shirley's regular messages over the public address system to "enjoy hot dogs and popcorn now" as they were served daily with cold drinks.

Sweepstakes, masters awards and novice awards were pre-

sented on February 24 at the preview opening of the Show. Fran Tolleson, who won the Howard Scott Gentry Trophy for her *Agave parrasana* also retired the Phoenix Gazette Trophy after receiving it four years in a row.

Among other sweepstake winners were James and Electra Elliot, Joan Gossman, and Eileen Warpach. Masters awards were given to the cactus, *Uebelmannia pectinifera* v. *pectinifera*, exhibited by Skippy Burbick and the succulent, *Euphorbia pseudocactus* crest, exhibited by Henry Triesler. Show stopper receiving the Martha C. Chester Memorial Trophy for Best Asclepiadaceae in Show was the *Hoodia lugardii* exhibited by Mark Dimmitt. A complete listing of winners in all the categories at the Cactus Show is available for \$1.00 for handling from the Desert Botanical Garden.

Members and friends who have comments or suggestions for the Cactus Show are invited to send them in so they can be incorporated into plans for the 1985 Show.



An added attraction at this year's Cactus Show and Sale was the launching of the giant saguaro balloon on Saturday, February 25.

(Photo by Laura Stacey)

Arid-Zona? What's That?

Entries are still being accepted (through April 24) for the Arid-Zona Landscaping Contest. All valley residents, whether they have 250 or 2500 feet of garden or landscape area, are eligible to enter the contest.

Co-sponsored as a yearly event with the Salt River Project and the Arizona Nurserymen's Association, ARID-ZONA features both home and commercial efforts to design gardens and landscaping which conserve water with the use of drought tolerant plants and water systems.

Entry blanks are available from the Desert Botanical Garden and winners will be announced May 11, 1984 at a reception for all entrants.



Mrs. Max Rachwalsky of Tempe, Arizona has recently donated her personal library on garden landscaping and plant identification to the Desert Botanical Garden. The Rachwalsky collection will be housed in Richter Memorial Library and will be available for research and study during regular library hours.

CONTINUING:

Plant Questions Hot Line: 947-2800 Weekdays, 1:00-2:30 p.m. Live answers to live plant questions are given by D.B.G. Staff Horticulturists.

Wildflower Network Update: 941-1239 Everyday, 24 hours. Taped report, updated on Thursdays, given by D.B.G. Staff Education Director, Darnelle Dunn.

EVENTS COMING UP:

Desert Botanical Garden Members' Meeting May 1, 1984

Volunteers' Luncheon April 11, 1984

Library Survey (March Bulletin) due April 1, 1984



DESERT BOTANICAL GARDEN

1201 N. GALVIN PARKWAY
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CALENDAR



APRIL

1. (Sunday) 8:00 a.m. - 5:00 p.m. **SPRING PLANT SALE.**
1. (24 hours) **WILDFLOWER NETWORK.** Dial 941-1239 for latest reports on wildflower bloom in Arizona. Taped message through April 25.
2. (Monday) 9:30 a.m. - 12:30 p.m. **ACRYLIC PAINTING.** Latest magnification painting technique by Roberta Silbret. Four sessions. Register by Wednesday, March 28. Members \$20.00, nonmembers \$25.00.
3. (Tuesday) 7:00 - 9:00 p.m. **LANDSCAPE DESIGN.** Four sessions for homeowners who wish to design their own landscapes. Spouses working on the same design pay only one fee. Limit 15. Register by Monday, April 2. Members \$10.00, nonmembers \$12.00.
4. (Wednesday) 2:00 p.m. **SPRING LECTURE SERIES — Desert Plants, a Personal Narrative,** by Dorothy Lewis, Pima. Included with Garden admission.
11. (Wednesday) 11:30 a.m. **VOLUNTEER LUNCHEON.**
12. (Thursday) 9:30 - 11:30 a.m. **PARENT/CHILD GARDEN EXPERIENCE.** Garden celebrates "Week of the Young Child" with special event for parents and preschoolers. Tour, story, crafts. Phone preregistration by Monday, April 9. *Repeated Friday, April 13.* No charge.
13. (Daily) 8:00 a.m. - 5:00 p.m. **EXHIBIT — Bible Plants.** Mini-display of living plants with Biblical significance. In Douglas Display Case through May 14. Included with Garden admission.
18. (Wednesday) 2:00 p.m. **SPRING LECTURE SERIES — Native American Uses of Desert Plants, an Overview,** by Ruth Greenhouse. Included with Garden admission.
19. (Thursday) 9:00 a.m. - noon. **NATURAL DYEING.** Three sessions of basics of natural dyeing. Register by Monday, April 16. Members \$16.00, nonmembers \$20.00.
19. (Thursday) 1:00 - 3:00 p.m. **EGG DYEING FOR ADULTS.** Color eggs using natural materials. Register by Monday, April 16. Members \$4.00, nonmembers \$5.00. Limit 12.
21. (Saturday) 9:30 - 11:30 a.m. **EGG DYEING FOR CHILDREN.** Ages 8 through 12 learn egg-dyeing with natural materials. Register by Monday, April 16. Members \$4.00, nonmembers \$5.00. Limit 12.
25. **ENTRY DEADLINE FOR ARID-ZONA LANDSCAPING CONTEST.** Closes at 5:00 p.m.
25. (Wednesday) 2:00 p.m. **SPRING LECTURE SERIES — Edible foods of Sonora,** by Herbarium Curator Wendy Hodgson. Included with Garden admission.
28. (Saturday) 7:00 a.m. - all day. **PATAGONIA WILDLIFE FIELD TRIP.** Steve Priebe, Grounds Superintendent at the Desert Botanical Garden, will be the guide for this hike in the Nature Conservancy Wildlife Sanctuary. Migrating birds, sparkling Sonoita Creek, and huge Fremont poplars are some of the sights to be seen. Members \$16.00, nonmembers \$20.00. Register by April 23.
28. (Saturday) 9:00 - 11:00 a.m. **ETHNOBOTANY WORKSHOP.** Three sessions of uses of desert plants for food, fiber and adornment, with participation in preparation techniques. Register by Monday, April 23. Members \$12.00, nonmembers \$15.00.

29. (Sunday) 1:00 - 5:00 p.m. **FLOWERING CACTUS AND SUCCULENTS.** Central Arizona Cactus and Succulent Society displays cacti and succulents in flower. Included with Garden admission.
30. (Monday) 9:30 a.m. - 12:30 p.m. **WATERCOLOR.** Wax resist adds new dimension to water color painting. Three sessions with Roberta Silbret. Register by Wednesday, April 25. Members \$12.00, nonmembers \$15.00.

MAY

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13. (Sunday) 8:00 - 5:00 p.m. **MOTHER'S DAY AT THE GARDEN.** Bring mom to the Garden and she will receive a free cactus. Included with Garden admission.
15. (Tuesday) 9:00 a.m. - noon. **ADVANCED NATURAL DYEING.** Three sessions using more difficult fibers and advanced techniques. Members 16.00, nonmembers \$20.00. Register by May 14, noon.
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19. (Saturday) 9:00 a.m. - noon. **CULINARY HERBS AND BRUNCH.** Make tasty dishes using herbs and enjoy the results. Cookbook available. Register by Monday, May 14. Members \$8.00, nonmembers \$10.00. Limit 12.
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Saguaroland

Bulletin

VOLUME 38

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 5

May, 1984

Want Landscaping Ideas? Come to Arid-Zona Land May 11

The Desert Botanical Garden, in cooperation with the Salt River Project and Arizona Nurserymen's Association, will present awards and certificates at the ARID-ZONA preview and reception for participants on Friday evening, May 11, 1984 from 6:00 p.m. until 8:00 p.m.

Members and friends are invited to attend the opening night preview and reception. Photograph displays of the entries, awards for the winners, and refreshments for all are planned.

Please call The Desert Botanical Garden at 941-1225 if you plan to attend the preview on May 11.

The display of ARID-ZONA entries and winners will continue through June 4, 1984 in Webster Auditorium at the Desert Botanical Garden.



Word from the Garden Is That Mothers-In-Law Count As Moms

Sunday, May 13, 1984 is a big day at the Desert Botanical Garden: Mother's Day.

Here is your chance to receive a free cactus plant simply for bringing Mom to see the Garden. Chances are pretty good that the weather will be hot, so dress lightly, smear yourself with sunscreen, wear a hat, and come on over.

Early birds can get in at 8:00 a.m. and cactus will be given out all day (until 5:00 p.m.).

Father's Day, June 17, 1984, will also be celebrated at the Desert Botanical Garden. The cactus gift for Dad will be an Old Man Cactus.

Both events are free to members and open to non-members who pay the regular admission fees.

Guild Launches Bus Shop, Moveable Feast of Crafts

The beautiful bus painted with the Desert Botanical Garden logo is the latest accomplishment of members of the Craft Guild. Since their grand opening during the Spring Plant Sale, Guild members plan to use the bus for storage and open it for sales of hand crafted items on a regular schedule. Proceeds will go to support Garden expansion and improvement projects.

This past year the Guild has donated sales profits to pay for the installation of new lighting in Webster Auditorium.

Co-Chairman of the Craft Guild, Bonnie McCulley, gives credit for painting and rehabilitation of the bus to Barde Rogers who is a regular Craft Guild member.



Craft Guild Bus Shop sits ready for sale of handcrafted items during the Spring Plant Sale.

Richter Library Is Open and Cool All Summer Long

Summer time is a good time to catch up on reading about the plants and animals of our Sonoran Desert. Conservation of the Richter Library Collection requires that the Library temperature be kept cool, so it becomes a popular place when the temperature outside hits 110 degrees.

The books reviewed here are recent additions to the Library which were sent out by the publishers as review copies. Hours in the Library are: Monday, Wednesday, Friday-9:00 a.m. to 1:00 p.m., and Tuesday, Thursday-1:00 p.m. to 5:00 p.m., and Saturday and Sunday the Library is closed all day. Additional hours may be arranged by calling the Librarian at 941-1225.

Book Reviews

Farrand, John Jr. ed. *Audubon Society Master Guide to Birding, Volumes 1, 2 and 3: Loons to Sandpipers, Gulls to Dippers, Old World Warblers to Sparrows*. New York: Knopf, 1983. 1244 pages: \$41.85

Designed as field guides, these books end up being quite a load to take into the field, since they weigh more than a pound each. And if the field observer is only looking at or for water birds, it won't work to take just one field guide along. Not only is it necessary to take several books along, but the individual books are quite heavy. Built to last, the books are individually priced at \$13.95, but would be pretty useless without the whole set. Full color illustrations.

The photographs, the descriptions, the inclusion of family names and species arranged according to classification adopted in 1982, all make this a beautiful, useful, and up to date set.

Raymo, Chet. *Crust of Our Earth: An Armchair Traveler's Guide to the New Geology*. Englewood Cliffs: Prentice Hall, 1983. 135 pages: \$12.95.

Part of a series published for the amateur naturalist, this is quite a brief introduction to geology and contains no index. Illustrations are in black and white (brown and white?) on newsprint, in a paperback format which includes sixty chapters introducing geological formations in North America and world wide. Since it is a small book, the lack of an index is probably acceptable. It does point out some of the geological wonders of the world, and explains some of the newer geological theories. For a pre-adolescent or adolescent reader, it might be an acceptable book, but older readers would probably wish for more, better organized information.

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Seven categories of Garden membership are available. Call the Desert Botanical Garden for membership information weekdays between 8 a.m. and 5 p.m.

News of Garden Activities

Two new staff members started work at the Desert Botanical Garden in April. Debi Yentzer is the new secretary in the Director's Office and Don Woods will work part-time with the Maintenance Department.

Steve Priebe, Grounds Superintendent, and Jane Cole, Librarian, will attend meetings of the Council On Botanical and Horticultural Libraries on May 16, 17, 18, and 19 at Morton Arboretum (Lisle, Illinois) and The Chicago Botanic Garden (Glencoe, Illinois).

Howard Scott Gentry, Director of Research, is developing a two acre plot at the Garden for a desert crop research project and economic plant introduction garden. Surveys of the land in January and February brought the Board of Directors' decision to go ahead with Dr. Gentry's plan for planting experimental crops. Dr. Gentry plans to develop cultivars adaptable to arid land of the low desert.

Fred Shirley, Director of the Desert Botanical Garden, led the group attending the Second Annual Meeting of the Arizona Museum Association on March 16 in Tucson. The group from the Garden attended meetings at the Arizona Heritage Museum and the Center For Creative Photography. Since the First Annual Meeting of the Arizona Museum Association was held at the Desert Botanical Garden last year, this organization holds special memories for the Garden. Meetings in 1985 will be held in Flagstaff at the Museum of Northern Arizona.



Mary Ann McClennen, Board of Trustees, and Fred Shirley, Director, enjoy a coffee break during the Second Annual Meeting of the Arizona Museum Association in Tucson.

Board Members Get Out to See the Garden and Each Other



Board Members in Eliot Patio sharing thoughts and ideas after a tour of the Living Collection are Darryl McConaghie and Vikkie Bone.



Board Members enjoying a stroll in the Garden Are: left to right, Joanne Graves, Jack Swift (President), John Jay Harper and Nancy Swanson (First Vice President).

Garden Volunteers Honored With Celebration and Song

After a stroll through Mrs. Nan Pyle's garden on Wednesday, April 11, guests enjoyed a festive luncheon with their fellow volunteers, Board, and Staff of the Desert Botanical Garden at beautifully arranged tables under the trees and around the pool. Ginny Coltman, Director of Human Resources, spoke to the group and pointed out that the volunteers together donated to Garden projects the equivalent of twelve full time paid Desert Botanical Garden staff. She and other staff members presented certificates designed by Wendy Hodgson, Staff Artist, and then joined forces as "The Night Blooming Rhubarb" to present a musical (?) tribute: *Three Cheers To The Volunteers*. As an enthusiastic thanks, the song was well received, followed by additional awards to individuals. Director Fred Shirley, Education Director Darnelle Dunn, and Volunteer Docent Instructor Nancy Rheinlander presented the awards.

Friends of The Garden President Mary Bess Mulhollan conducted a brief business meeting of the Friends which included the announcement of the birth of her granddaughter, nomination and election of officers, and an overview of planned spring and summer outings.

Mrs. Pyle welcomed all assembled and gave a brief description of the historical involvement of her garden and home with the Desert Botanical Garden. Among those receiving special recognition at the party were: 500 hours pin — Hazel Altman, Jane Battersby, J.G. Bradley, Nan Burnett, June Every, Jennifer Goble, Georgia Klasek, Bonnie McCulley, Doug Mings, Laura Stacy, and Melinda Williams; 1000 Hours Pin — Pat Comus, Jennifer Goble, Juanita Kennedy, and Mary Bess Mulhollan; 2000 Hours Pin — Vikkie Bone, Jean Cordts, Gen Evans, Maggie Nowlin, Dottie O'Rourke, and Nancy Rheinlander.

(Continued on page 20)

March Tour of Valley Gardens Brings People Out by Thousands

Three home gardens in the Town of Paradise Valley were featured in the March Tour of Valley Gardens sponsored by the Friends of The Desert Botanical Garden.

There was no shortage of people as the crowds came early and stayed late and the Friends became creative ticket makers when the supply ran out. Besides gaining some new members and Friends for The Desert Botanical Garden, the Tour also brought in \$5000.00.

Lois Klein, Public Relations, directed the publicity efforts and managed to get good coverage in local news media. The Friends also worked hard both before and during the Tour, as did the generous people who opened their gardens to the public. The added attraction that the Friends offer, which is not available with other garden tours in Phoenix, was the Desert Botanical Garden Docents who were able to explain and identify trees, shrubs, and flowers to the visitors.



Docent Hazel Altman shares her knowledge with visitors, members and other Docents during the Tour.



DESERT BOTANICAL GARDEN

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(Continued from page 19)

The party was made possible in part by the donation of Mrs. Pyle of her garden and facilities, Paradise Cafe who contributed a door prize luncheon for two, and cash contributions from the following businesses and

individuals: *Phoenix Magazine* (Kenneth Welch), Bruce H. Cole Co. Inc., A.J. Bayless Food Stores, A To Z Office Supplies, Nicoli International Properties (Ira Lavin), and Anthony H. Mason, Attorney.



CALENDAR



MAY

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1. (Daily) 8:00 a.m. - 5:00 p.m. **EXHIBIT — Volunteers in Action.** Photo display featuring Garden volunteer force. In Webster Auditorium through June 5. Included with Garden admission.
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11. (Friday) 6:00 - 8:00 p.m. **MEMBERS' PREVIEW — ARID-ZONA LANDSCAPING CONTEST.** 1984 winners will be announced.
12. (Daily) 8:00 a.m. - 5:00 p.m. **EXHIBIT — Arid-Zona Landscaping Contest entries.** In Webster Auditorium through June 4. Included with Garden admission.
12. (Saturday and Sunday) Leave 6:00 a.m. **QUITOBAQUITO FIELD TRIP.** Explore influence of water on desert birds and plants on overnight trip to Organpipe Cactus National Monument. Supplies list available. Register by Monday, May 7. Members \$32.00, nonmembers \$40.00. Limit 13.
13. (Sunday) 8:00 - 5:00 p.m. **MOTHER'S DAY AT THE GARDEN.** Bring mom to the Garden and she will receive a free cactus. Included with Garden admission.
15. (Tuesday) 9:00 a.m. - noon. **ADVANCED NATURAL DYEING.** Three sessions using more difficult fibers and advanced techniques. Members \$16.00, nonmembers \$20.00. Register by May 14, noon.
15. (Daily) 8:00 a.m. - 5:00 p.m. **EXHIBIT — AGAVES.** Mini-display of living agaves in Douglas Display Case, through June 11. Included with Garden admission.

19. (Saturday) 9:00 a.m. - noon. **CULINARY HERBS AND BRUNCH.** Make tasty dishes using herbs and enjoy the results. Cookbook available. Register by Monday, May 14. Members \$8.00, nonmembers \$10.00. Limit 12.
28. (Monday) 8:00 a.m. - sunset. **MEMORIAL DAY.** The Garden is open for a leisurely visit.

JUNE

6. (Daily) 8:00 a.m. - 5:00 p.m. **EXHIBIT — The Boojum Tree.** Mini-display of this fascinating plant of Baja. In Webster Auditorium through July 18. Included with Garden admission.
13. (Daily) 8:00 a.m. - 5:00 p.m. **EXHIBIT — Plants for Allergy-Free Gardens.** Plants for the sneeze-free home landscape. In Douglas Display Case through August 7. Included with Garden admission.
16. (Saturday) Leave 6:00 a.m. **MAZATZAL MOUNTAINS FIELD TRIP.** A cool day hike near Payson. Register by Monday, June 11. Members \$16.00, non-members \$20.00.
17. (Sunday) 8:00 a.m. - 5:00 p.m. **FATHER'S DAY AT THE GARDEN.** Bring dad to the Garden and he will receive a free Old Man Cactus. Included with Garden admission.

CORRECTIONS:

Picture credit last month for hot air balloon photograph should have read **Laura Stacy** (not Stacey).

The location of the Douglas Display Case is the **Cactus House**, not the Succulent House.

CONTINUING:

Plant Questions Hot Line: 947-2800 Weekdays, 1:00 - 2:30 p.m.
Live answers to live plant questions are given by Desert Botanical Garden Staff Horticulturists.

COMING ATTRACTIONS:

Early Bird Garden Tours: beginning in July and continuing through August.



Saguaroland

Bulletin

VOLUME 38

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 6

June, 1984

Mayor Drinkwater (Scottsdale), Mayor Goddard (Phoenix), and Governor Babbitt (Arizona) were among the officials who gathered at the Desert Botanical Garden on May 4, 1984 to promote water conservation efforts throughout the State of Arizona. The event served as an opening day ceremony for Water Awareness week, May 6 through May 12, 1984.

Photo by Laura Stacy



Life Abounds in the Desert; Now and All Summer Long

Now is a good time to get in training for the early morning tours at the Garden beginning in July. There is a lot to be seen and enjoyed in Phoenix in the summer and new cactus blooms appear daily.

There is a family of phainopepla near the cactus house who set up housekeeping in April and now have two little ones flying with them. The resident desert tortoise has been spotted on the Native Flora Trail early in the morning. Someone saw a swallow or a martin flying around at twilight during the May 1st members' meeting. He hasn't been seen yet this year, but a red racer was sleeping in the shed one warm day

Herbarium Collection Places Sand Lover in United States

A sticky haired, 6 inch, *Drymaria viscosa* which grows in the sandy areas of Central Baja has the Herbarium staff excited. According to Wiggins (1980) *Flora of Baja California* and Duke (1961) *Revision of the Genus Drymaria*, no plants have yet been reported in the United States. Wendy Hodgson, Curator, and Bruce Parfitt, assistant, locate their new discovery near Pinacate Lava Flow, Camino del Diablo, Yuma County, Arizona, at 900 feet elevation.

The Desert Botanical Garden Herbarium discovery was the result of Wendy Hodgson pondering a sheet in the Herbarium labeled *D. molluginea* which she knew was wrong since the plant only occurs above 4000 feet and does not have obvious glandular herbage (sticky hairs). Bruce Parfitt identified the *Drymaria* sheet on Friday, May 3, 1984, and consulted herbarium specimens at the University of Arizona on Friday, May 11, 1984.

The search confirmed that the plant is in Central Baja, but also that specimens have been collected all along the coastal area and into Sonora up to, but not over the Arizona border. The Garden Herbarium specimen will thus be the first recorded in the United States. Bruce and Wendy plan to publish their findings in a scientific journal in the near future.

last summer. He can't have gone far.

Other animals to watch for this summer at the Garden are the whip tail and zebra tail lizards, the chuckwalla, cotton tail and jack rabbits, round tailed ground squirrels, harris antelope ground squirrels, curved bill thrashers, cactus and bewick's wrens, verdins and white winged doves. The gambel's quail have hatched their chicks and are doing a daily promenade at the Garden. There is a ladder back woodpecker hanging out near Archer House. Round tailed and harris antelope ground squirrels should have little ones by now.

So take a look now and plan to go on an early morning tour in July. It's a great chance to get in on the action with both plants and animals.

Drought Tolerant Landscaping Featured in Arid-Zona Exhibit

Awards were presented on May 11 at the Desert Botanical Garden to professionals and amateurs who entered the Arid-Zona Landscaping Contest, co-sponsored by the Arizona Nurserymen's Association and the Salt River Project. The yearly contest promotes the use of drought-tolerant landscaping with entries this year from East Phoenix, West Phoenix, Cave Creek, the town of Paradise Valley, Mesa, Tempe and Scottsdale.

Those who think they are stuck with high water use landscaping may be especially interested in the entries in the "Conversion" classification. This entry classification requires that more than 250 square feet has been converted from traditional to drought-tolerant landscaping. First place winners were a homeowner, Embry Stultz, in West Phoenix for his home landscape conversion and a landscape architect, John Schneeman of DeLomater and Schneeman. Pictures and descriptions of these entries and others are in Webster Auditorium through June 4.

Corrections:

Remember the "Collectors" who went to Cabeza Prieta Game Range on a collecting trip in March? Identified in April Saguaroland Bulletin as "Mary Butterworth" was Barb Phillips and as "Barb Phillips" was Jeanette Milne. There is no Mary Butterworth. Botanist with the Bureau of Land Management who went on the trip is Mary Butterwick. Art Phillips, botanist with the Museum of Northern Arizona, led the trip.

Cash contribution to support the May volunteer luncheon was donated by Bashas Food Stores (not A.J. Bayless).

Officers Elected, Duties Assigned for Garden Board of Trustees

The Board of Trustees of the Desert Botanical Garden has elected the following officers for 1984-85: President — Nancy Swanson, President-Elect — Chris Coover, Secretary - Emelia Swenson Davis, and Treasurer — Glenn Overman.

Saguaroland Bulletin is published monthly by the Desert Botanical Garden, 1201 N. Galvin Parkway, Phoenix, Arizona 85008. Telephone (602) 941-1217. Third class bulk rate postage is paid at Phoenix, Arizona. ISSN 0275-6919

Director: Frederick W. Shirley
Editor: Jane B. Cole

Seven categories of Garden membership are available. Call the Desert Botanical Garden for membership information weekdays between 8 a.m. and 5 p.m.

News of Garden Activities

Darnelle Dunn has resigned as Director of Education and will be a full time student at Arizona State University working toward her doctorate in adult education.

Judy Mielke and the rest of the staff have been working toward completion of the Demonstration Garden near Archer House. Archer House has been sandblasted, stuccoed, and will soon receive a fresh coat of paint. The garden, framed with railroad ties, has been filled with a special mixture and is being prepared for Fall planting.



Work in progress on the Demonstration Garden includes new pathway and sign in front of Archer House, as well as laying out the Garden itself.

Photo Show, Craft Guild Involved in November Plans

Papago Park is celebrating its 25th Anniversary in November and the Garden will host the 8th Annual Photography Show during the celebration November 10-20, 1984. This is a change in dates for the photography show which has been held in January in the past.

Craft Guild will hold their sale during the full ten days of the Papago Park Celebration so has planned extra meetings to get ready. Craft Guild will be meeting from 8-11 a.m. in Webster Auditorium on Thursdays, June 7 and 21, and July 5 and 9. There will be no meeting in August.

Members and friends who want to participate, but can't come to the meetings are encouraged to sew, embroider, applique, knit, crochet, quilt, needlepoint or whatever and donate their finished items to the Craft Guild for the 10 day sale in November. Aprons, hot pads, felt ornaments, tree decorations, and dried arrangements are all needed for the sale. Fresh pine cones, yucca pods, manzanita branches, dried and pressed flowers, cholla wood, saguaro boots, dried materials, wicker baskets and containers can all be used by the Guild. Raw materials and finished products may be delivered to the Garden, or call during business hours (Monday through Friday) and a Guild Member will pick up items to be donated.



Desert daisy, Melampodium leucanthum, is on the Landscape Plants Tour. This picture, taken by volunteer Tom Norris, shows the Desert Botanical Garden display.
photo by Tom Norris.



Honey Locust (L-69) endures heat, cold, wind, and air pollution. It also can grow 30-75 feet high. Beautiful gold colored leaves in the Fall are one of its features.
photo by Tom Norris.



Fragrant flowers of the Sambucus mexicana are the subject of this photo from the Tour. The berries supply food and drink for birds this summer. L-60 on the Tour.
photo by Tom Norris.



Acacia greggii has yellow flowers and is a good drought tolerant tree. Slow growing, it may reach a mature height of 15 feet. L-56 on the Tour.
photo by Tom Norris.

Landscape Plants Tour Ready for Trial and Suggestions

Summertime and the cactus is blooming, but what else? Petunias and tuberous begonias won't make it in the summer heat, so the Desert Botanical Garden is ready to help homeowners plan heat tolerant home landscaping.

A great help to homeowners and landscape planners putting together a drought tolerant landscape is to see the plants growing and then to read a description of those plants. This is now possible at the Desert Botanical Garden. Ann Gully and other volunteers have put together a LANDSCAPE PLANTS TOUR which includes descriptions of all the plants on the Garden tour. LANDSCAPE PLANTS TOUR booklets are available in the Desert Botanical Garden Gift Shop for 10¢ or through the mail for 30¢.

The new tour is marked with brown labels and white lettering such as "L-52."

A landscape plan which includes a variety of drought and heat tolerant plants can be colorful the year around. For color in the summer heat try a *Verbena ciliata* (L-1). Is water a problem? *Dodonea viscosa* (L-22) doesn't need watering. There are even some shade trees available, though they will take a few years to develop. *Pithecellobium phylleracoides* (L-16), *Cassia artemisioides* (L-51), and *Caesalpinia cacalaco* (L-33) are some of the possibilities.

Members, visitors, and staff will be recording comments and suggestions about the Tour for a revision of the Tour booklet. Comments and suggestions should be made, in writing, to the Education Department at the Garden. Target date for the revision with additions is September 1984.





DESERT BOTANICAL GARDEN

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CALENDAR



JUNE

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17. (Sunday) 8:00 a.m. - 5:00 p.m. **FATHER'S DAY AT THE GARDEN.** Bring dad to the Garden and he will receive a free Old Man Cactus. Included with Garden admission.

JULY

1. (Daily) 7:00 a.m. - sunset. Summer hours begin today and extend through August 31.
4. (Wednesday) 7:00 a.m. - sunset. **INDEPENDENCE DAY.** The Garden is open the full summer hours of 7:00 a.m. until sunset. While the supplies last, a free firecracker plant will be given to each visiting family.
7. (Saturday) 7:00 a.m. - 10:00 a.m. **SAGUARO FRUIT WORKSHOP.** An early morning workshop to pick, process and taste saguaro fruits. Ruth Greenhouse, Garden research associate, will share the history of this O'odham (Pima/Papago) tradition. Wear closed shoes, hat and washable clothing. Register by Monday, July 2. Members \$8.00, nonmembers \$10.00.
10. (Daily) 8:00 a.m. - 5:00 p.m. **THE SAGUARO FRUIT HARVEST: AN ANCIENT O'ODHAM TRADITION.** The economic and symbolic significance of the saguaro in O'odham (Pima/Papago) culture will be explored in the major display. In Webster Auditorium through October 4. Included with Garden admission.
10. (Tuesday, Wednesday, Thursday and Saturday) 7:15 a.m. **SUNRISE TOURS.** Garden Docents begin offering Sunrise Tours today. The tours will be offered four times a week through August 30. Included with Garden admission, no charge for members.
10. (Tuesday) 7:15 a.m. **SUNRISE TOURS - CACTUS.** Join Garden Docents on a cool morning walk featuring the cactus family. Included with Garden admission, no charge for members.
11. (Wednesday) 7:15 a.m. **SUNRISE TOUR - BIRDS.** Wednesday's Sunrise Tours will feature the Garden's birds. Local residents and out of town visitors are invited to come every Wednesday through August 29 to watch birds and share birding hints. Included with Garden admission, no charge for members.
12. (Thursday) 7:15 a.m. **SUNRISE TOUR - INDIAN USES OF DESERT PLANTS.** Native Americans made use of desert plants for food, fiber, baskets, shelter, dyes and medicine. Included with Garden admission, no charge for members.

14. (Saturday) 6:00 a.m. **FIELD TRIP TO KOFA MOUNTAINS.** Palm Canyon in the Kofa National Wildlife Refuge is the destination for today's hike. Bring lunch and plenty of water that can be carried in your pack. Wear sturdy shoes and a hat. Register by Monday, July 9. Fees: Members \$16.00, nonmembers \$20.00.
14. (Saturday) 7:15 a.m. **SUNRISE TOUR - CHILDREN'S TOUR.** Bring children, grandchildren, nieces, nephews, young friends and neighbors for this special Garden walk designed to introduce children to desert plants. Included with Garden admission, no charge for members.
17. (Tuesday) 7:15 a.m. **SUNRISE TOUR - LANDSCAPE PLANTS.** Join this Sunrise Tour and be introduced to a wide variety of desert trees and shrubs suitable for the home landscape. Included with Garden admission, no charge for members.
18. (Wednesday) 7:15 a.m. **SUNRISE TOUR - BIRDS.** Included with Garden admission, no charge for members.
19. (Thursday) 7:15 a.m. **SUNRISE TOUR — POISONOUS AND EDIBLE PLANTS.** Learn which plants to enjoy and which to avoid in this guided walk through the Garden. Included with Garden admission, no charge for members.
19. (Thursday) 9:00 a.m. - noon. **DESERT FRIENDS WORKSHOP.** Desert animal and plant friends are waiting to be introduced to human friends ages 6 to 9 (participants must have completed first grade). Crafts, hikes and information are designed to introduce Desert Friends. Register by Monday noon, July 16. Repeated Tuesday, July 31 and Wednesday, August 15. Fees: Members \$4.00, nonmembers \$5.00.
20. (Daily) 8:00 a.m. - 5:00 p.m. **THE MARVELOUS MESQUITE.** Learn more about the mesquite tree in this mini display in Webster Auditorium through August 21. Included with Garden admission.
21. (Saturday) 7:15 a.m. **SUNRISE TOUR — ARIZONA PLANTS.** Enjoy the cool morning and learn how to identify the most common Arizona desert plants. Included with Garden admission.
24. (Tuesday) 7:15 a.m. **SUNRISE TOUR — CHILDREN'S TOUR.** A special Garden walk designed to introduce children to desert plants. Included with Garden admission, no charge for members.
25. (Wednesday) 7:15 a.m. **SUNRISE TOUR — BIRDS.**
25. (Wednesday) 9:00 a.m. - noon. **WORKSHOP — LEARNING ABOUT MY DESERT.** The Sonoran Desert is a fascinating environment and youth ages 9 to 12 are invited to spend a morning learning about the wonders of the desert through crafts, experiments and a walk through the Garden. Register by Monday noon, July 23. Fees: Members \$4.00, nonmembers \$5.00.
26. (Thursday) 7:15 a.m. **SUNRISE TOUR — CACTUS.** Join Garden Docents on a cool morning walk featuring the cactus family. Included with Garden admission, no charge for members.
28. (Saturday) 7:15 a.m. **SUNRISE TOUR — POISONOUS AND EDIBLE PLANTS.** Included with Garden admission, no charge for members.
31. (Tuesday) 7:15 a.m. **SUNRISE TOUR — ARIZONA PLANTS.** Included with Garden admission, no charge for members.
31. (Tuesday) 7:15 a.m. **DESERT FRIENDS WORKSHOP.** For ages 6 to 9 (participants must have completed first grade). Register by Monday noon, July 30. Repeated Wednesday, August 15. Fees: Members \$4.00, nonmembers \$5.00.



Saguaroland

Bulletin

VOLUME 38

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 7,8

July, August, 1984

\$67,000 from Compas Nine Means a Few Dreams Can Come True

Nancy Swanson, President of the Desert Botanical Garden Board of Trustees, received a check for \$67,000 from COMPAS (Combined Metropolitan Phoenix Arts and Sciences) NINE in June. The presentation was made by Darrow Tully, President of COMPAS NINE, at a benefit given by the Williams-Sonoma Store in Biltmore Fashion Park.

According to Helen Hobson, Executive Director of COMPAS, a total of \$707,000 was distributed to the COMPAS beneficiaries. In addition to the Desert Botanical Garden, these include: the Phoenix Art Museum, the Phoenix Symphony Orchestra, the Phoenix Zoo, and the Heard Museum.

COMPAS is a non-profit organization dedicated to enhancing the cultural environment for all of the people of the Valley of the Sun by helping to support the programs of its beneficiary organizations through fund raising events. This is the first year that the Desert Botanical Garden was a beneficiary.

The Garden will use the funds for major capital improvements including the Galvin Parkway Entrance, the Landscape Demonstration Garden, and Utilities Study and Design. All three projects are currently underway.



Nancy Swanson accepts check for Desert Botanical Garden from Darrow Tully.

Expressions of Thanks Come in Many Forms — Even Food!

Fidencio and Rachel Martinez skinned the nopal pads and his mother cooked up a lovely treat for the Garden staff a few weeks ago. Result: three huge pots of hot and spicy (and DELICIOUS) family specialties using desert plants. And more promised! Fidencio was in the Docent Class in 1983 and this was his way of returning the favor to the staff.

A more regular gift to the Garden staff and Docents are the letters from school children. Here are a few samples:

Dear Botanical Garden Guides,

Thank you for showing us the cactus and plants in your garden. Thank you for making time for our class to come. I know that the bus driver got lost, but I still had fun. I love the size of that Saguaro cactus! I like all the other plants and the cactus you showed us. I loved EVERYTHING.

Your Friend, Nicky

Dear Botanical Garden,

Thanks for giving us a tour of the garden. I had a very fun time looking at the animals and desert plants. Thanks for the tour guide, because we would of never known what alot of stuff were.

Sincerely, Ivan

Dear Docents,

Thank you so much for taking your time showing us around. I learned a lot about all the kind of cactuses. I hope I come back very soon. I wanted to stay, but my feet were getting tired!

Sincerely, Jenny

Dear Mrs. Kennedy,

Thank you for showing us the Botanical Garden. I enjoyed what you showed us. You gave us a lot of information about the desert . . . I really do think you are very nice.

Please write back!!

Sincerely, Jasi

(con't. on page 2)

Letters (con't. from page 1)

Dear Docents,

Thank you for showing me around and telling me about our desert. It was nice of you for donating your time to do so.

I really enjoyed visiting Desert Botanical Garden. I hope I can go again sometime.

Sincerely, Wendy

Dear Mrs. Kennedy,

Thank you for showing us around the Botanical Garden . . . I like when you showed us the giant saguaro cactus. And I like that stick made of saguaro. And I wish I can go back there again.

Sincerely by Matt

Dear Docents,

I had a lot of fun at the Botanical Garden. I would like to bring my family and camera so I can take pictures of all the plants. I appreciate you taking time and spending it with us.

Sincerely, Rachel



Continuing:

Summer hours in the Gift Shop: 7:00 a.m. to 4:00 p.m. through August.

Sunrise Tours: Docent-led tours in the Garden at 7:15 a.m.
Plant Questions Hot Line: 947-2800 Weekdays, 1:00 p.m. to 2:30 p.m. Live answers to live plant questions are given by D.B.G. Horticulturists.

Plants for Allergy Free Gardens: Cactus House, Douglas Display Case, daily, through August 7. List is available in Richter Library of some of the worst allergy producers.

The Saguaro Fruit Harvest: Exhibit in Webster Auditorium through October 4.

Coming up:

Photography Exhibition: November 10, 1984 through November 18, 1984. Eighth Annual Photography Exhibition is to be held in Webster Auditorium. Photographers should write or call the D.B.G. for entry cards: (602) 941-1225.

Craft Sale: Same dates as above. Materials for handcrafts and the finished crafts are needed.



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News of Garden Activities:

Kim Koller, Maintenance, and Chris McElrath, Horticulture, will both be leaving the Garden in the next few months. Kim, B.A. Bradley University, plans to continue his education in Environmental Studies at the University of Montana. Chris, B.A. Earlham College, will be moving to Boulder, Colorado where she will be working while her husband, Matt, continues his studies.

★★★★★★★★★★

Judy Mielke, Horticulture, has a story and pictures in *American Nurseryman*, May 1, 1984. The story is titled: "Cacti and Other Succulents" and discusses landscape uses for these plants.

★★★★★★★★★★

Wendy Hodgson, Herbarium Curator, and Judy Mielke have been giving instruction to a student group of Academically Gifted and Talented young people who are studying desert plants through a program sponsored by Arizona State University. The students are ages 10 through 13.

★★★★★★★★★★

Long time Garden residents, B. P. and Thurstina, have been joined by Edgar and Bart who have just arrived. All four desert tortoises could use a little help from Members and Friends watching out for them on the Garden paths. They need some protection from careless visitors who may not recognize desert-residence-rights of tortoises.

What We Have is a Newsletter; Substance Promised in Agave.

The first issue of the *Saguaroland Bulletin* in newsletter format was January, 1983. That issue said: "*Saguaroland Bulletin* . . . is now a newsletter for members and friends of the Garden, full of articles and photos of past and future events, Garden people, happenings in the world of plants from around Arizona, even nationally and internationally . . . Welcome to the new *Bulletin*."

To those of you looking for a meatier publication, the Garden hopes to resume publication of *Agave* in 1985. The first issue of *Agave* was published in June 1983, but has not been continued since the resignation of Jan Barstad, editor.

Volunteers Want To Know: Who Are You and What Do You Want?

Members who have made seed selections should be receiving them soon. A little fast work by some volunteers has the operation well taken care of. If you don't receive seeds and you thought you ordered some, call the Garden and we'll send you another card. The only orders not filled at this point are those that have either no name and address or no seed preferences listed.

Cool Green Canyon Preserve Welcomes Hot Valley Visitors.

A group of fifteen Desert Botanical Garden Volunteers and two Staff members journeyed to a cool green canyon in mid-June. The peace of Ramsey Canyon this day was soothing after time spent in a bustling city. Peace, however, was not always present in this narrow Canyon, located at 5000 feet, high in the Huachuca Mountains of Southeastern Arizona. Prospectors once scoured the area looking for gold and then saloons and brothels filled the Canyon with noise. A giant wooden dance floor encircled an ancient sycamore and cabins took up much of the Canyon floor space. William Berner and N.C. Bledsoe, recognizing the uniqueness of the Canyon, managed to buy up much of the land over the years. Together they removed the vestiges of human habitation and misuse. The area was eventually donated to the Nature Conservancy by Dr. Bledsoe, and quiet returned to the towering trees.

Several factors contribute to the special habitat now being preserved. Since the Canyon is oriented East-West, the amount of hot, drying sunlight which reaches the Canyon floor is limited. The tall, close walls of the Canyon also decrease the amount of light which filters in and a spring fed stream provides constant life-supporting water for the plants and animals of the Canyon.

There exist five separate life zones within the confines of Ramsey Canyon: the riparian (stream side), the mesquite-grassland (stream terraces), the oak-woodland, the pine-oak, and the pine-fir. Giant sycamores dominate the riparian zone, while planted apple trees coexist with mesquite on the terraces. Introduced vinca and English ivy cover much of the Canyon floor, but we were told that a vinca eradication program is underway to allow native species to return.

Several endangered and rare plant species exist under the protection of the Canyon. The lemon lily, *Lilium parryi*, is found in only two other sites in Arizona. At Ramsey Canyon it grows in lovely stands in the far reaches of the Canyon where few people ever go. Our group came across a large stand after climbing out of a box canyon to the valley above. Thurber bog orchids, *Habenaria limosa*, are to be found in the moist creek bottom soils. Two rare species of venomous snakes occur in the Canyon and the multitudes of hummingbirds, for which the area is famous, gave our bird watchers six varieties to add to their lists.

Bounded on three sides by the Coronado National Forest, the two hundred eighty acres of Ramsey Canyon is being preserved for the protection of its animal and plant species and their unique habitat. The foresight of a few dedicated people, with the help of the Nature Conservancy, is saving this beautiful Canyon for generations to come.

This story about Ramsey Canyon and photos on the right are all the work of Chris McElrath.

A Letter from the Director:

Dear Members,

Six months have passed since I became the Garden's Director. Each day has brought me new and exciting challenges. I especially want to thank all of you who have made me so welcome.

I feel very fortunate to be the Director as the Garden begins a new era. An era in which the Trustees, Staff, and I are dedicated to more community involvement with our Landscape Demonstration Garden (opening October 12), expanded education programs on water conservation, and the expansion of our collections and facilities. The development of our first Economic Plant Research Garden is also underway.

During the summer I hope you will take advantage of the Sunrise Tours. Bring your family and friends for a pleasurable and educational experience.

In closing, the Staff joins me in thanking all of you who contributed to the success of COMPAS NINE. The \$67,000 presented to the Garden is one of the largest gifts the Garden has ever received.

Best wishes for an enjoyable summer.

Sincerely,
Fred Shirley

Volunteers should take note of the new law in Arizona. House Bill 2088 makes some automobile transportation expenses deductible if you are performing donated services.



(left)
Arizona is not all desert. Garden Tours do pick up sunlight, however, even in Ramsey Canyon. photo by Chris McElrath



(below)
Not everyone on the Garden Field Trips are paid up. Besides the tour leaders, there are also occasional freeloaders. photo by Chris McElrath



DESERT BOTANICAL GARDEN

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CALENDAR

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- (Tuesday, Wednesday, Thursday and Saturday) 7:15 a.m. **SUNRISE TOURS.** Garden Docents begin offering Sunrise Tours today. The tours will be offered four times a week through August 30. Included with Garden admission, no charge for members.
10. (Tuesday) 7:15 a.m. **SUNRISE TOUR — CACTUS.** Join Garden Docents on a cool morning walk featuring the cactus family. Included with Garden admission, no charge for members.
11. (Wednesday) 7:15 a.m. **SUNRISE TOUR — BIRDS.** Wednesday's Sunrise Tours will feature the Garden's birds. Local residents and out of town visitors are invited to come every Wednesday through August 29 to watch birds and share birding hints. Included with Garden admission, no charge for members.
12. (Thursday) 7:15 a.m. **SUNRISE TOUR — INDIAN USES OF DESERT PLANTS.** Native Americans made use of desert plants for food, fiber, baskets, shelter, dyes and medicine. Included with Garden admission, no charge for members.
14. (Saturday) 6:00 a.m. **FIELD TRIP TO KOFA MOUNTAINS.** Palm Canyon in the Kofa National Wildlife Refuge is the destination for today's hike. Bring lunch and plenty of water that can be carried in your pack. Wear sturdy shoes and a hat. Register by Monday, July 9. Fees: Members \$16.00, nonmembers \$20.00.
14. (Saturday) 7:15 a.m. — **SUNRISE TOUR — CHILDREN'S TOUR.** Bring children, grandchildren, nieces, nephews, young friends and neighbors for this special Garden walk designed to introduce children to desert plants. Included with Garden admission, no charge for members.
17. (Tuesday) 7:15 a.m. **SUNRISE TOUR — LANDSCAPE PLANTS.** Join this Sunrise Tour and be introduced to a wide variety of desert trees and shrubs suitable for the home landscape. Included with Garden admission, no charge for members.
18. (Wednesday) 7:15 a.m. **SUNRISE TOUR — BIRDS.**
19. (Thursday) 7:15 a.m. **SUNRISE TOUR — POISONOUS AND EDIBLE PLANTS.** Learn which plants to enjoy and which to avoid in this guided walk through the Garden. Included with Garden admission, no charge for members.
19. (Thursday) 9:00 a.m. - noon. **DESERT FRIENDS WORKSHOP.** Desert animal and plant friends are waiting to be introduced to human friends ages 6 to 9 (participants must have completed first grade). Crafts, hikes and information are designed to introduce Desert Friends. Register by Monday noon, July 16. Repeated Tuesday, July 31 and Wednesday, August 15. Fees: Members \$4.00, nonmembers \$5.00.
20. (Daily) 8:00 a.m. - 5:00 p.m. **THE MARVELOUS MESQUITE.** Learn more about the mesquite tree in this mini display in Webster Auditorium through August 21. Included with Garden admission.
21. (Saturday) 7:15 a.m. **SUNRISE TOUR — ARIZONA PLANTS.** Enjoy the cool morning and learn how to identify the most common Arizona desert plants. Included with Garden admission.
24. (Tuesday) 7:15 a.m. **SUNRISE TOUR — CHILDREN'S TOUR.**
25. (Wednesday) 7:15 a.m. **SUNRISE TOUR — BIRDS.**
25. (Wednesday) 9:00 a.m. - noon. **WORKSHOP — LEARNING ABOUT MY DESERT.** The Sonoran Desert is a fascinating environment and youth ages 9 to 12 are invited to spend a morning learning about the wonders of the desert through crafts, experiments and a walk through the Garden. Register by Monday noon, July 23. Fees: Members \$4.00, nonmembers \$5.00.
26. (Thursday) 7:15 a.m. **SUNRISE TOUR — CACTUS.**
28. (Saturday) 7:15 a.m. **SUNRISE TOUR — POISONOUS AND EDIBLE PLANTS.**
31. (Tuesday) 7:15 a.m. **SUNRISE TOUR — ARIZONA PLANTS.**
31. (Tuesday) 9:00 a.m. - 12 noon. **DESERT FRIENDS WORKSHOP.**

AUGUST

1. (Wednesday) 7:15 a.m. **SUNRISE TOUR — BIRDS.**
2. (Thursday) 7:15 a.m. **SUNRISE TOUR — LANDSCAPE PLANTS.**

4. (Saturday) 7:15 a.m. **SUNRISE TOUR — INDIAN USES OF DESERT PLANTS.**
7. (Tuesday) 7:15 a.m. **SUNRISE TOUR — POISONOUS AND EDIBLE PLANTS.**
7. (Tuesday) 9:00 a.m. - noon. **WORKSHOP — LEARNING ABOUT MY DESERT.**
8. (Wednesday) 7:15 a.m. **SUNRISE TOUR — BIRDS.**
9. (Thursday) 7:15 a.m. **SUNRISE TOUR — CHILDREN'S TOUR.**
10. (Daily) 8:00 a.m. - 5:00 p.m. **EXHIBIT — INDIAN FOOD PLANTS.** A number of native desert plants are food sources for Native American people. Living examples of some of these plants will be in Douglas Display Case in the Cactus Lath House through September 18. Included with Garden admission.
11. (Saturday) 7:15 a.m. **SUNRISE TOUR — CACTUS.**
14. (Tuesday) 7:15 a.m. **SUNRISE TOUR — ARIZONA PLANTS.**
15. (Wednesday) 7:15 a.m. **SUNRISE TOUR — BIRDS.**
15. (Wednesday) 9:00 a.m. - noon. **WORKSHOP — DESERT FRIENDS.**
16. (Thursday) 7:15 a.m. **SUNRISE TOUR — INDIAN USES OF DESERT PLANTS.**
18. (Saturday) 7:15 a.m. **SUNRISE TOUR — LANDSCAPE PLANTS.**
20. (Monday) 9:00 a.m. - noon. **WORKSHOP — LEARNING ABOUT MY DESERT.**
21. (Tuesday) 7:15 a.m. **SUNRISE TOUR — LANDSCAPE PLANTS.**
22. (Wednesday) 7:15 a.m. **SUNRISE TOUR — BIRDS.**
23. (Thursday) 7:15 a.m. **SUNRISE TOUR — CACTUS.**
25. (Saturday) 6:00 a.m. **FIELD TRIP — AZTEC PEAK.** Aztec Peak is a 7700 foot peak in the Sierra Anchas, a unique mountain range north of Roosevelt Lake. Bring a sack lunch for this trip through a pine and fir forest. Register by Monday, August 20. Fees: Members \$16.00, nonmembers \$20.00.
25. (Saturday) 7:15 a.m. **SUNRISE TOUR — CHILDREN'S TOUR.**
28. (Tuesday) 7:15 a.m. **SUNRISE TOUR — INDIAN USES OF DESERT PLANTS.**
29. (Wednesday) 7:15 a.m. **SUNRISE TOUR — BIRDS.**
30. (Thursday) 7:15 a.m. **SUNRISE TOUR — ARIZONA PLANTS.**

SEPTEMBER

1. (Daily) 9:00 a.m. - sunset. **WINTER HOURS RETURN.** Regular hours return today and continue through June, 1985.
3. (Monday) 9:00 a.m. - sunset. **LABOR DAY.** The Garden is open from 9:00 a.m. until sunset.
19. (Tuesday[s]) 9:00 a.m. - noon. **CLASS — DOCENT TRAINING.** The 10 session Docent Class is offered to interested persons who wish to lead guided tours of the Garden. Graduates give four hours weekly guiding school children and adults through the Garden's plant collections. Class topics include: an introduction to desert environments, plant and animal adaptations, Garden history and tips on being a successful tour guide. Register by noon Monday, September 10. Fees: Members \$8.00, nonmembers \$10.00.
21. (Daily) 9:00 a.m. - 5:00 p.m. **EXHIBIT — POISONOUS LANDSCAPE PLANTS.** A number of poisonous plants are commonly used in Valley landscapes. Families with children should take special note of this display of living plants. In Douglas Display Case through October 30. Included with Garden admission.
24. (Monday) 9:00 a.m. - noon. **WORKSHOP — MESQUITE.** Learn to make foods from mesquite pods in this one-session workshop by Ruth Greenhouse, Research Associate at the Garden. Register by noon, Friday, September 21. Fees: Members \$4.00, nonmembers \$5.00.
28. (Daily) 9:00 a.m. - 5:00 p.m. **EXHIBIT — EFFICIENT LANDSCAPE WATERING.** The old fashioned sprinkler may be wasting water. Learn the new water-efficient ways to keep lawns, vegetables and yard plants looking healthy with a minimum of water. In Webster Auditorium through October 31. Included with Garden admission.
29. (Saturday) 6:00 a.m. **FIELD TRIP — BURRO CREEK.** Enjoy the higher elevation Sonoran vegetation along a lush perennial stream. Juniper and saguaro are growing together in this interesting area near Bagdad. A short hike into Kaiser Spring Canyon is an added attraction. Register by Monday, September 24. Fees: Members \$16.00, nonmembers \$20.00.



Saguaroland

VOLUME 38

Bulletin

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 9

September, 1984

Demonstration Garden Featuring Home Landscaping Honors a Long Time Member of the Garden: Rhuart

John Rhuart (ROO-ART) was a long time member of the Desert Botanical Garden, serving on its Board of Trustees and also as Chairman of the Board. Born and raised in Phoenix when it was still a small town, Mr. Rhuart eventually built a house and garden on the slopes of Camelback Mountain which became famous all over the world for its imaginative landscaping and unusual collection of trees and flowers. Calling his home Las Palmas Altas, Mr. Rhuart often opened his house and garden to tours from the Desert Botanical Garden which helped the Garden raise funds for projects, such as the Demonstration Garden, which would not have been possible without such generous donations.

During his many years as a banker with Valley National Bank, Mr. Rhuart traveled around the world. Along with his banking interests he also managed to visit gardens and botanical displays and bring back ideas to use in his garden in Phoenix. He and his sister and brother in law, Joseph Shirley, spent three years moving palm trees, clearing a road, terracing the garden, and transplanting shrubs from the original family home on East McDowell to Las Palmas Altas. The garden was featured in *Architectural Digest*, *Sunset Magazine*, and *Saguaroland Bulletin*. It is fitting that the Demonstration Garden bearing his name should open on October 12, 13, and 14 since those would be good dates to get started planting according to John Rhuart:

"Every year we start planting on October 10 and finish on January 10...the two gardeners and me, when I'm here," said Mr. Rhuart in 1982.

The Desert Botanical Garden will keep that tradition going with the opening of the John Rhuart Demonstration Garden. Even though he won't be here (John Rhuart died in 1982) the horticulturists and gardeners will start planting now and continue through January.

Fall Plant Sale Targeted For Veggie Planting Guide

Wonder how to know what to plant in your vegetable garden and when to plant it? The publication you need is coming out soon as a booklet published by our own Garden Horticulture Department.

Planned to be ready for the Fall Plant Sale, the booklet will give the best schedule for planting various vegetables as well as some recommended varieties for the Sonoran Desert of Arizona.



Judy Mielke, Staff Horticulturist, explains some of the plans for the John H. Rhuart Demonstration Garden which will open in October. Judy will be teaching a class in Vegetable Gardening beginning October 16 (see Calendar) at the Desert Botanical Garden.

Gully Calls For Revisions As Landscape Plants Takes Off

A new edition of the self-guided tour booklet *Landscape Plants* will go to press this month. Included in the new edition will be revisions and additions that Anne Gully, Writer, has collected during its trial run this summer.

In addition to the revised copy, the new booklet will also contain photographs and drawings to illustrate the pages. Tom Norris has contributed some of the photographs that will be used, but additional photographs are needed. Also needed are drawings and sketches, especially of the trees and shrubs, that show size and shape.

Artists and photographers (and writers) who wish to work on the project are welcome. Please come in or leave a phone number with Director of Human Resources, Ginny Coltman. The current booklet is available in The Garden Gift Shop for \$.10 a copy. Please include a self addressed, stamped envelope if you order by mail. New booklets will be out soon.



This sign on the door of the Northern Arizona University Library Special Collections building greeted members of the Arizona Paper and Photograph Conservation Group which met in Flagstaff in July. Jane Cole, Librarian, attended the meetings which introduced the A.P.P.C.G. members to archival control systems used in the Flagstaff Public Library and the Museum of Northern Arizona Library as well as N.A.U.

Continuing:

The Garden is open from 9:00 a.m. until sunset every day. The Gift Shop is open from 9:00 a.m. until 5:00 p.m.

Group Tours are available daily. Call to make reservations with the Education Office, weekdays between 9:00 a.m. and 5:00 p.m. : 941-1225.

Plant Questions Hot-Line: Garden Horticulturists answer questions about desert plants and landscaping problems from 1:00 p.m. to 2:30 p.m. week days: 947-2800.

The Saguaro Fruit Harvest: Exhibit in Webster Auditorium shows ancient and modern harvesting of saguaro, *Cereus giganteus*, by the Sonoran Desert Indian tribes.

Marvelous Mesquite: Mini-exhibit in Webster Auditorium through September 22 shows the Sonoran Desert mesquite trees, *Prosopis velutina* and *P. pubescens*.

Upcoming Events:

Deadline — Photography Exhibition Entries: October 9 (Tuesday), 1984, 4:00 p.m.

Members' Previews — Fall Plant Sale and John H. Rhuart Garden: October 12 (Friday), 1984 from 3:00 p.m. to 6:00 p.m.

Grand Opening — Fall Landscape Plant Sale and John H. Rhuart (ROO-ART) Demonstration Garden: October 13 and 14, 1984 from 9:00 a.m. to 5:00 p.m.

Community Day Celebration: October 14, 1984 from 9:00 a.m. to 5:00 p.m.

Photography Exhibition Preview: November 9, 1984.

Sycamore Canyon Field Trip: November 10, 1984.

Papago Park Twenty-Fifth Anniversary Celebration: November 10 through November 18, 1984. Desert Botanical Garden Eighth Annual Photography Exhibition and Craft Fair.

Castle Creek — Crater Canyon Field Trip: December 1, 1984.

Luminaria Night: December 7 (Friday), 1984.

News of Garden Activities

Director of Human Resources, Ginny Coltman, has been working with Friends of the Garden President, Mary Bess Mulhollan, to completely revise the Friends' information packet. Ginny will be taking leave in September for the birth of her first child.

★★★★★★★★★★

Kent Titze is the new Education Director. Kent has moved from Omaha, Nebraska to north east Phoenix. He and his wife Elizabeth are newcomers to the area. Kent's background includes Director of Environmental Programs at Father Flanagan's Boys Home (Boys Town) and is current President of the National Council for Therapy and Rehabilitation Through Horticulture (NCTRH).

★★★★★★★★★★

Ed Brediger, Maintenance, is happy to announce that the new track lighting is in place in the Webster Auditorium. Due to some hard work and many volunteer hours the Craft Guild was able to present this improvement to the Garden. Ed has also moved the soft drink dispenser to Eliot Patio (out of Webster Auditorium) and plans to hang a bamboo curtain so it will not intrude on the beauty of the Patio area.

★★★★★★★★★★

Nancy Rheinlander, Education Staff Volunteer, has revised and updated materials for the Fall Docent class. She will be teaching the class for Garden Members/Volunteers beginning September 19.

★★★★★★★★★★

Graduating from Arizona State University recently was Tracy Peterson, Business Manager. Tracy also received an award for maintaining a perfect grade average of 4.0 during her undergraduate years. She will continue with the Garden as Business Manager, but will also take on Tour Scheduling when she becomes a full time employee.

★★★★★★★★★★

Scottsdale is the home of both our Gift Shop Manager, Joan Lundquist, and her assistant, Nina Laveson. Joan comes to us from Goldwaters in Phoenix and Nina from Broadway Southwest, Tucson. They are working with a Board committee and hope to transform the Gift Shop into a place people will travel from miles around to visit. Joan is a graduate of Arizona State University and Nina received her degree in Forestry from the University of Arizona.

★★★★★★★★★★

What's another way to describe an artistic arrangement of plants? Victor Gass, Curator of the Living Collection, has been working on interpretive signs for many areas of the Garden, but especially the Demonstration Garden due to open in October. Copy for the display has been put through several revisions while Victor got input from Library, Horticulture, and Education Staff.

(continued on page 31)

Saguaroland Bulletin is published monthly by the Desert Botanical Garden, 1201 N. Galvin Parkway, Phoenix, Arizona 85008. Telephone (602) 941-1217. Third class bulk rate postage is paid at Phoenix, Arizona. ISSN 0275-6919

Director: Frederick W. Shirley
Editor: Jane B. Cole

Seven categories of Garden membership are available. Call the Desert Botanical Garden for membership information weekdays between 8 a.m. and 5 p.m.

Endangered Plant Survey Attended by Gass, Nelson

A search and survey involving the populations of a delicately flavored onion, *Allium goodingii*, took place in July. Desert Botanical Staff Suzanne Nelson, Horticulture, and Victor Gass, Living Collections, participated in the survey and search which was conducted by the United States Forest Service in New Mexico.

Reggie Fletcher, Regional Botanist from Albuquerque, supervised the expedition of about twelve people from New Mexico and Arizona. In addition to the Desert Botanical Garden, the organizations represented included the New Mexico Heritage Program, The Nature Conservancy, Arizona State University, and the University of New Mexico.

The Gila National Forest (in New Mexico) is *Allium goodingii's* native habitat and it is currently endangered by proposed and continued logging operations. One hundred twenty square miles of national forest land were surveyed by the group, with each crew assigned a section to search for new populations of the allium or to reconfirm the existence and condition of previously known populations. Associated plant species, vegetation types, naturally or artificially introduced disturbances, moisture availability, and elevation were some of the other criteria noted in the survey.

In addition to accomplishing a successful survey, in which each crew located and mapped a number of *A. goodingii* stands, a working list of the other plant species in the area was begun. The Desert Botanical Garden Herbarium also gained some much appreciated additions for its collections, including *A. goodingii*.

Another important purpose for the survey was to support the listing of *Allium goodingii* as an endangered species in the United States legislative system. The results of this survey should be useful in helping to confirm the necessity and urgency of protecting this little plant. The Staff of the Desert Botanical Garden welcome this sort of cooperative involvement in programs to promote the protection of threatened and endangered species.



Tom Daniels, Professor of Botany at Arizona State University, was one of the survey team in New Mexico.

*Story and Picture
by Suzanne Nelson.*

A Letter from the Director

Dear Members,

Vacations are over, the kids are back in school, and now we begin to make plans to enjoy the Valley's winter. I hope you'll put the Garden in the forefront of your plans.

Work is proceeding on the John H. Rhuart Demonstration Garden. The Board of Trustees recently voted unanimously to approve the naming of the Demonstration Garden in John's memory. John was devoted to the Garden and it is appropriate that we remember his many contributions.

John volunteered many hours to the Garden. Today, that tradition continues, as more than 200 of you donate your time and talents to the success of the Garden. I am truly grateful for your help. I urge you who are not volunteers to become active as Friends of the Garden. Every corner of the Garden can use volunteers. Giving a few hours a week is a rewarding experience.

Since January, Board members, staff, and volunteers have worked on the Garden's first ever Strategic Plan. Now nearly completed, the plan provides the direction for the Garden over the next five years. In next months *Bulletin* I'll give you the highlights.

Come over early and enjoy the Garden's peacefulness during these last days of summer.

Sincerely,
Fred Shirley



(continued from page 30)

Left to right in this photograph: Sammy Saguario and Doug Mings. Doug has made sure that Sammy got included in major Garden events including a recent visit from Governor Babbitt.

Doug Mings, whom many of you know better as Sammy Saguario, will shortly give up his volunteer status to become part time custodian at the Garden. Doug has worked as a volunteer in every department and will be a welcome member of the Staff.

★★★★★★★★★★★★

Ruth Greenhouse, Research Botanist, recently presented her plan for the development of an ethnobotanical exhibit area in the Garden. The presentation was well received by the Board of Trustees so Ruth plans to continue working to complete the budget and funding for the project. Ruth's Webster Auditorium exhibit, which was funded by the Arizona Humanities Council, will be on display through October and is titled "THE SAGUARO FRUIT HARVEST: AN ANCIENT O'ODHAM TRADITION."

★★★★★★★★★★★★



DESERT BOTANICAL GARDEN

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PHOENIX, AZ 85008

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SEPTEMBER

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3. (Monday) 9:00 a.m. - sunset. **LABOR DAY.** The Garden is open from 9:00 a.m. until sunset.
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29. (Saturday) 6:00 a.m. **FIELD TRIP — BURRO CREEK.** Enjoy the higher elevation Sonoran vegetation along a lush perennial stream. Juniper and saguaro are growing together in this interesting area near Bagdad. A short hike into Kaiser Spring Canyon is an added attraction. Register by Monday, September 24. Fees: Members \$16.00, nonmembers \$20.00.

OCTOBER

1. (Monday) 9:30 a.m. - 12:30 p.m. **WORKSHOP — CREATING IN CLAY.** (Limit 12). Use clay to create forms of the desert and a weed pot under the guidance of artist, Roberta Silbrets. All materials provided for this 3-session class. Register by Friday, September 28. Fees: Members \$10.00, nonmembers \$15.00.
9. (Tuesday) 4 p.m. - **DEADLINE — PHOTOGRAPHY EXHIBITION ENTRIES.**
10. (Wednesdays) 7 p.m. - 9 p.m. **CLASS — ARID LANDSCAPE PLANTS.** A variety of attractive drought-tolerant plants can be useful in home landscaping. This 4-session class taught by Ron Dinchak covers the selection of suitable plants for use in home landscaping. Register by Monday, October 8. Fees: Members \$10.00, nonmembers \$15.00.
12. (Friday) 3 p.m. - 6 p.m. **MEMBERS' PREVIEW OF THE FALL PLANT SALE.**
(Friday) 4 p.m. - 6 p.m. **MEMBERS' PREVIEW OF THE JOHN H. RHUART DEMONSTRATION GARDEN.**
- 13, 14 (Saturday & Sunday) 8 a.m. - 5 p.m. **SALE — FALL LANDSCAPE PLANT SALE.** A wide variety of landscape plants suitable for fall planting will be available. No charge for admission to sales area.
(Saturday & Sunday) 9 a.m. - 5 p.m. **OPENING — JOHN H. RHUART DEMONSTRATION GARDEN GRAND OPENING.** Come share the Grand Opening of the new landscape and vegetable gardens. These gardens will display use of native and naturalized plants for use in arid-desert landscapes and in vegetable gardening.

EXHIBITS, DEMONSTRATIONS AND LECTURES will be presented. Included with Garden admission.

14. (Sunday) 9 a.m. - 5 p.m. **CELEBRATION — COMMUNITY DAY.** The Garden celebrates the Grand Opening of the John H. Rhuart Demonstration Garden by offering free admission today. Glean ideas for plant selection and placement and then visit the plant sale to make your purchases. No charge for admission.
15. (Monday) 1:30 p.m. - 4 p.m. **WORKSHOP — MESQUITE.** Make and enjoy foods prepared from mesquite pods in this one-session workshop by Ruth Greenhouse, Garden Research Associate. Register by Friday, October 12. Fees: Members \$3.00, nonmembers \$5.00.
16. (Tuesday) 9 a.m. - 12 noon. **WORKSHOP — WHEAT WEAVING.** Make wall, tree and package decorations using the Scandinavian art of wheat weaving with Diane Wilson. One session, all materials provided. Repeated Nov. 20. Register by noon, Monday, October 15. Fees: Members \$7.00, nonmembers \$10.00.
16. (Tuesdays) 7 p.m. - 9 p.m. **CLASS — VEGETABLE GARDENING.** Learn the secrets of vegetable gardening in the desert in this three-session class taught by staff Horticulturist Judy Mielke. Register by noon, Monday, October 15. Fees: Members \$10.00, nonmembers \$15.00.
17. (Wednesdays) 9 a.m. - 12 noon. **CLASS — BEGINNING BASKETRY.** Create a date palm and reed basket in this two-session class designed for beginners who have never done basketry. All materials supplied. Register by Monday, October 15. Fees: Members \$7.00, nonmembers \$10.00.
20. (Saturday) 9:30 a.m. - 2:30 p.m. **WORKSHOP — ARID LANDSCAPE PLANTS SHORT COURSE.** A one day overview of plant materials suitable for a home arid landscape. Designed for those who are unable to attend the evening classes. Bring a sack lunch. Instructors: Ron and Marla Dinchak. Register by Tuesday, October 16. Fees: Members \$5.00, nonmembers \$7.50.
22. (Mondays) 9:30 a.m. - 12:30 p.m. **CLASS — ACRYLIC PAINTING.** The Garden's plants and flowers are inspiration for a three-session class in acrylic painting taught by Roberta Silbret. All materials supplied. Register by Friday, October 19. Fees: Members \$10.00, nonmembers \$15.00.
25. (Thursdays) 1:00 p.m. - 4:00 p.m. **CLASS — PINE NEEDLE BASKETRY.** Create a pine needle basket under the guidance of Carolyn Todd, winner of many awards for her baskets. All materials furnished for this four-session class. Register by Monday, October 22. Fees: Members \$18.00, nonmembers \$25.00.
27. (Saturday) 6:00 a.m. **FIELD TRIP — SCHNEBLY HILL ROAD.** Discover the unfolding of the Autumn color within the beautiful Oak Creek Canyon. Register by Monday, October 23. Fees: Members \$15.00, nonmembers \$20.00.
27. (Saturday) 9:00 a.m. - 12 noon. **SHOW — PHOTO SHOW JUDGING.** The public is invited to view the judging proceedings of the 8th Annual Photo Exhibition. Included with Garden admission, no charge for members.
29. (Mondays) 7:00 p.m. - 9:00 p.m. **CLASS — ARID LANDSCAPE PLANTS.** Same class as October 10. A variety of attractive drought tolerant plants can be useful in home landscaping. This four-session class covers the selection of suitable plants for use in home landscaping situations. Register by noon, Monday, October 10. Fees: Members \$10.00, nonmembers \$15.00.
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Saguaroland

Bulletin

VOLUME 38

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 10

October, 1984

Photography Entries Due Now

Tom Norris captured this *Harrisia bonplandii* in full bloom one morning in July. Tom and other photographers will have the opportunity to display their work at the Photography Exhibition in November. Entries must be in by October 9.



Members of the
Desert Botanical Garden
are cordially invited
to attend

**Members' Preview
Demonstration Garden
4:00 p.m.-7:00 p.m.
Fall Plant Sale
3:00 p.m.-6:00 p.m.**

Friday
October 12, 1984

Gentrys Celebrate Fiftieth

Dr. and Mrs. Howard Scott Gentry were honored recently in celebration of their 50th Wedding Anniversary. The champagne reception in Webster Auditorium was given by the Board of Trustees, with presentations by Board Member Glenn Overman, Fred Shirley, and Frank Feffer.

"Really, being married began as an experiment," commented Dr. Gentry, "but those of you who have gotten involved in research projects with me know how long some of my experiments last!" Both participants in this marriage experiment looked and sounded happy about their project as they joined voices to entertain family and friends with a rendition of "Way Down Yonder in the Crowdad Patch."

The Gentrys have two daughters: Rita lives in Pennsylvania and Linnea lives in Tucson. Linnea, husband Courtney, and son Timothy Scott came up to the Garden for the celebration. Dr. Gentry is Director of Research at the Desert Botanical Garden and author of *Agaves of Continental North America* published in 1982 by the University of Arizona Press.



The Gentrys and the Pinkavas are two families that represent some of the Garden's finest efforts and achievements. L to R: Linnea Gentry Sheehan, Dr. Gentry, Timothy Scott Sheehan, Marie Gentry, Dr. Donald J. Pinkava, Michele Pinkava, and Mary Pinkava.

Help for Plants and Planters

Book Review by Judy Mielke, Staff Horticulturist

Wimer, Miles. *Successful Vegetable Gardener's Annual Record Book*. St. Paul: Milestext, 1982. 46 pages \$3.50.

One of the keys to successful gardening is record keeping. Records help the gardener identify which crops and techniques have been effective, analyze failures, and compare different varieties and procedures.

Mr. Wimer has provided the format for keeping these records in his paperback booklet which measures only 5½ by 8½ inches.

Wimer's book is essentially an outline for the gardener since the only text is an introduction which explains the benefits of garden record-keeping and how to do it. The remainder of the book is divided into space for notes on general garden activities, individual crops, weather, watering, and expenses. Also included is a grid to show the layout of the garden.

Record forms for describing up to 26 different types of vegetables take up the major part of the booklet. Blanks are supplied to write the name of the crop, variety, supplier, and an evaluation of flavor, quality, and yield, as well as complete notes on planting, growth and care, and harvesting.

In the individual crops records, as in the rest of the book, the lack of any specific categories for record keeping could be seen as a flaw. It works out well, however, since space is allotted for general notes.

The diligence with which entries are made will vary among individuals, but this is a thorough guide for the beginning gardener. Using it, an encyclopedia of personal gardening knowledge can be created so that what is learned is not forgotten.

Keeping the Wonder Alive

by Deon Rasmussen.

"If a child is to keep alive his inborn sense of wonder, he needs the companionship of at least one adult who can share it, rediscovering with him the joy, excitement and mystery of the world we live in." Rachel Carson in *The Sense of Wonder* (1965) Harper Row.

The Sonoran Desert is a wonder. It is a joy to share with children the excitement and mystery of this world and this lovely Garden. Four workshops were held for children during the summer and a new Girl Scout

Continued on page 35

Saguaroland Bulletin is published monthly by the Desert Botanical Garden, 1201 N. Galvin Parkway, Phoenix, Arizona 85008. Telephone (602) 941-1217. Third class bulk rate postage is paid at Phoenix, Arizona. ISSN 0275-6919

Director: Frederick W. Shirley
Editor: Jane B. Cole

Seven categories of Garden membership are available. Call the Desert Botanical Garden for membership information weekdays between 8 a.m. and 5 p.m.

News of Garden Activities

Bruce Parfitt, Herbarium Assistant, is one of the authors of two articles recently published in *Systematic Botany* and *The Great Basin Naturalist*: "Chromosome Numbers and Their Systematic Implications in Some North American Acanthaceae," and "On Cowania and Its Intergeneric Hybrids in Arizona." Both are in Richter Library.

New to the Grounds Department at the Garden is Drew Swieczkowski (SWISS-COWS-SKI) who started this summer as a Horticulturist. Drew comes to us from Michigan State University where he received Bachelor of Science degrees in Landscape Horticulture/Urban Forestry and also in Geology. Drew and his bride to be (January) will live in north Phoenix.

Ginny, Director of Human Resources, and Joe Coltman are the proud parents of Rebecca, who arrived at Scottsdale Memorial Hospital on September 5, 1984 at 2:44 a.m.

The new face in the Administration Office is Denise Wright. Denise has been active in political campaigns and administrative work in Puerto Rico and Oklahoma, but was born in Phoenix. She lives in Scottsdale and has two daughters.



There is no better catering service in the valley than the Friends Fall Pot Luck. Volunteers and staff gathered to chow down before assigning jobs for volunteers in all Garden departments. Seen here are two stalwart volunteers: Walter Jorgensen and Ansel Averitt. Holding Ansel up to make his selection is Elaine Averitt, Staff.

A Letter from the Director

Dear Members,

In the last *Bulletin*, I promised to update you on the Garden's 1984-89 Strategic Plan. The Plan was unanimously approved by the Board of Trustees during their August meeting.

Our objectives for every area of the Garden are realistic, but also very ambitious. I would like to highlight a few of them.

To begin with, we want to be recognized as the prime organization in the Valley for conservation and interpretation of desert habitat. We also wish to become the community's resource for information on flora for arid landscapes, be a leader in research in economic arid-land plants, and expand community services through educational and horticultural programs.

We recognize that, to attract you to the Garden, we need to develop new gardens. Work is under way to open an expanded Australian Garden in 1987



Before sitting down to the serious business of voting on the Strategic Plan, members of the Board of Trustees had lunch with Plan advisor, Pat Dempsey, of the Del Webb organization. Seen here are Board members Tony Tominac, Charles Merbs, and Mary Bess Mulhollan, Mr. Dempsey, and Board member Charles Woolf.

and if sufficient funding can be made available through grants or donations, we wish to develop an ethnobotanical garden during the period involved in the Strategic Plan. We plan, by the summer of 1985, to complete the aesthetic re-design of the Succulent House.

New construction is also scheduled. Improvements to the entrance at Galvin Parkway will be completed in 1986 and we have plans to build a visitor's center in 1988-89.

I would appreciate your comments, because your support is vital to the success of the Plan.

One final note. The Strategic Plan also calls for the completion of the first phase **John H. Rhuart Demonstration Garden** in October, 1984. I hope you will be with us on October 12, from 4:00 to 7:00 p.m. for the opening of the Rhuart Garden.

Sincerely,
Fred Shirley

The Desert Garden Grows

by Elizabeth Fritz

A century ago Papago Park belonged to the United States government. Half a century ago it was deeded to the State of Arizona. A quarter of a century ago its 1,176.34 acres were sold at auction to the city of Phoenix.

As federal property the park was a short lived Indian town site, far from the city limits of Phoenix. In 1914 President Woodrow Wilson proclaimed the Magnificent stand of saguaros and other desert flora the "Papago Saguaro National Monument."

By 1930 the city of Phoenix' threatening encroachment on the Monument caused it to be transferred to Tucson where it was named the "Saguaro National Monument." The land formerly called Papago Saguaro National Monument near Phoenix was divided three ways: 480 acres to the Arizona National Guard, 1187 acres to the State of Arizona, and the rest to the city of Tempe.

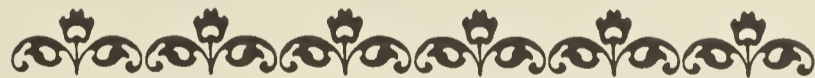
The State turned its acreage over to the Arizona Fish and Game Commission to administer and it was the Commission that received the petition in 1937 from the Arizona Cactus and Native Flora Society to lease a parcel of park land for a botanical garden of the desert.

That was the beginning of a siege by the Society: a cohort of cactus lovers, botanists, and influential citizens. Led by the Society's determined president, Gertrude Divine Webster, they fought to achieve victory against indifferent city and state governments. Finally, in July 1938, the Arizona State Land Board granted the Arizona Cactus and Native Flora Society a permit to use 306 acres of Papago Park for an

indefinite period of time and to establish the Desert Botanical Garden.

By 1957, when the citizens of Phoenix voted a bond issue to raise \$1,000,000.00 to develop Papago Park, the Desert Botanical Garden again found itself fighting for acreage. William C. Eliot, City Attorney and also legal counsel to the Garden, was asked to work with L. Cedric Austin, Parks and Recreation Superintendent, as the Park was being transferred from State to City management. On February 25, 1959 the City of Phoenix bought the Park from the State of Arizona for \$3.00 an acre.

End of Part 1



Continued from page 34

Juniors' program, "Getting to Know Your Desert," was held during June. Hearty thanks to the Docents who "rediscovered the joy" in these and other summer programs.

Work with the children who visit the Desert Botanical Garden has been especially enjoyable this year, from the workshops for parents and tots held during the Week of The Young Child in April, to our summer workshops and Girl Scout programs. The quote from Rachel Carson says it all.

Miss Carson's words are also interesting in another context: when he was a boy, our Garden Director, Fred Shirley, mowed Miss Carson's lawn!



DESERT BOTANICAL GARDEN

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CALENDAR



OCTOBER

1. (Monday) 9:30 a.m. - 12:30 p.m. **WORKSHOP — CREATING IN CLAY.** Fees: Members \$10.00, nonmembers \$15.00
9. (Tuesday) 4 p.m. - **DEADLINE — PHOTOGRAPHY EXHIBITION ENTRIES.**
10. (Wednesdays) 7 p.m. - 9 p.m. **CLASS — ARID LANDSCAPE PLANTS.** This four-session class is taught by Ron Dinchak. Register by Monday, October 8. Fees: Members \$10.00, nonmembers \$15.00.
12. (Friday) 3 p.m. - 6 p.m. **MEMBERS' PREVIEW OF THE FALL PLANT SALE.**
12. (Friday) 4 p.m. - 7 p.m. **MEMBERS' PREVIEW OF THE JOHN H. RHUART DEMONSTRATION GARDEN.**
- 13,14 (Saturday & Sunday) 9 a.m. - 5 p.m. **SALE — FALL LANDSCAPE PLANTS.**
- 13,14 (Saturday & Sunday) 9 a.m. - 5 p.m. **OPENING — JOHN H. RHUART DEMONSTRATION GARDEN GRAND OPENING.** Landscape, vegetable and flower garden lectures included with Garden admission
14. (Sunday) 9 a.m. - 5 p.m. **CELEBRATION — COMMUNITY DAY.** The Garden celebrates the Grand Opening of the John H. Rhuart Demonstration Garden by offering free admission today.
15. (Monday) 1:30 p.m. - 4 p.m. **WORKSHOP — MESQUITE.** One-session. Register by Friday, October 12. Fees: Members \$3.00, nonmembers \$5.00.
16. (Tuesday) 9 a.m. - 12 noon. **WORKSHOP — WHEAT WEAVING.** One-session, all materials provided. Repeated Nov. 20. Register by noon, Monday, October 15. Fees: Members \$7.00, nonmembers \$10.00.
16. (Tuesdays) 7 p.m. - 9 p.m. **CLASS — VEGETABLE GARDENING.** Three-sessions. Register by noon, Monday, October 15. Fees: Members \$10.00, nonmembers \$15.00.
17. (Wednesdays) 9 a.m. - 12 noon. **CLASS — BEGINNING BASKETRY.** Two-sessions. Register by Monday, October 15. Fees: Members \$7.00, nonmembers \$10.00.
20. (Saturday) 9:30 a.m. - 2:30 p.m. **WORKSHOP — ARID LANDSCAPE PLANTS SHORT COURSE.** One day overview. Bring a sack lunch. Instructors: Ron and Marla Dinchak. Register by Tuesday, October 16. Fees: Members \$5.00, nonmembers \$7.50.
22. (Mondays) 9:30 a.m. - 12:30 p.m. **CLASS — ACRYLIC PAINTING.** Three-session class in acrylic painting taught by Roberta Silbret. All materials supplied. Register by Friday, October 19. Fees: Members \$10.00, nonmembers \$15.00.
23. (Tuesdays) 9:00 a.m. - 12 noon. **CLASS — LANDSCAPE WEAVING.** Three-sessions will be spent creating a landscape scene of yarn in a wooden frame. Register by Monday noon, October 22. Fees: Members \$23.00, nonmembers \$30.00.
25. (Thursdays) 1:00 p.m. - 4:00 p.m. **CLASS — PINE NEEDLE BASKETRY.** Create a pine needle basket. All materials furnished for this four-session class. Register by Monday, October 22. Fees: Members \$18.00, nonmembers \$25.00.
27. (Saturday) 6:00 a.m. **FIELD TRIP — SCHNEBLY HILL ROAD.** Register by Monday, October 23. Fees: Members \$15.00, nonmembers \$20.00.
27. (Saturday) 9:00 a.m. - 12 noon. **JUDGING — PHOTOGRAPHY EXHIBITION.** The public is invited to view the judging of the Exhibition. Included with Garden admission, no charge for members.
29. (Mondays) 7:00 p.m. - 9:00 p.m. **CLASS — ARID LANDSCAPE PLANTS.** Same class as October 10. Four-sessions. Register by noon, Monday, October 10. Fees: Members \$10.00, nonmembers \$15.00.
31. (Wednesdays) 9:00 a.m. - 12 noon. **CLASS — BEGINNING BASKETRY.** Same class as October 17. Two-sessions. All materials supplied. Register by Monday, October 15. Fees: Members \$7.00, nonmembers \$10.00

NOVEMBER

2. (Daily) 9:00 a.m. - 5:00 p.m. **EXHIBIT — PLANTS OF PAPAGO PARK.** Papago Park has an interesting array of native and introduced plants which are

presented in this mini display of living plants in Douglas Display Case through November 27. Included with Garden admission.

3. (Saturday) 8:30 a.m. **FIELD TRIP — PAINTING TRIP TO TUMACACORI.** The ruins of Tumacacori National Monument are an artist's dream. Join Roberta Silbret on a **Paint-Out** at this beautiful location. Bring lunch and a favorite medium. Transportation and instruction are included in the fee. Register by Tuesday, October 30. Fees: Members \$18.00, nonmembers \$25.00.
6. (Daily) 9:00 a.m. - 5:00 p.m. **Monday through Friday. EXHIBIT — THE FIRST 25 YEARS.** The 25 years of growth of the Desert Botanical Garden in Papago Park is featured in this historical display in Richter Memorial Library. Included with Garden admission during Library hours.
7. (Wednesdays) 6:00 p.m. - 9:00 p.m. **CLASS — HOME LANDSCAPE DESIGN.** The artistic placement of arid landscaping plants is covered in this four-session class. Participants should have taken or be registered in the **Arid Landscape Plants** class or have prior knowledge of drought tolerant plants. Participants will design their own home landscape. Limited to 15 designs. Couples working on one design will be charged a single fee. Register by noon, Monday, November 5. Fees: Members \$18.00, nonmembers \$25.00.
9. (Friday) **MEMBERS' PREVIEW — PHOTOGRAPHY EXHIBITION AND AWARDS PRESENTATION.** Eighth Annual **Deserts of the World** Photography Exhibition. Members only.
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10. (Saturday) 8:00 a.m. - 11:00 a.m. **WORKSHOP — PHOTOGRAPHY WITH BILL THOMAS.** Nationally acclaimed and noted photojournalist, Bill Thomas, whose works have been published in **National Geographic, Better Homes and Gardens, Audubon, and Smithsonian** will present a mini-workshop. Photographers will share in Mr. Thomas' efforts to capture the beauty of our desert environment. Fees: Members \$12.00, nonmembers \$15.00.
10. (Daily) 9:00 a.m. - 5:00 p.m. **CELEBRATION — PAPAGO PARK 25TH ANNIVERSARY.** Events are scheduled throughout the Garden including: **CRAFT GUILD SALE, LIBRARY EXHIBIT Our First 25 Years, CACTUS LATH HOUSE The Plants of Papago Park, and the WEBSTER AUDITORIUM Photography Exhibition: Deserts of the World.** Through November 18. Included with Garden admission.
- 10, 11 (Saturday & Sunday) 7:00 a.m. **Saturday - 6:00 p.m. Sunday. FIELD TRIP — SYCAMORE CREEK.** This hike along the creek bottom will afford both the botanist and the birdwatcher a variety of finds. Wear hiking boots or shoes, bring food and utensils. Cook stoves furnished. Trip limited to 13 people. Register by Monday, November 5. Fees: Members \$30.00, nonmembers \$40.00.
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**DESERT
BOTANICAL
GARDEN**

ANNUAL FALL

PLANT & SEED SALE

NO ADMISSION FEE TO THE SALE AREA!

- **Desert trees and shrubs**
- **Cacti and succulents**
- **Cactus dish gardens**
- **Seeds**
- **Books**

9:00 a.m. - 5:00 p.m. SATURDAY & SUNDAY

OCTOBER 13, 14, 1984

AUXILIARY PARKING LOT

Galvin Parkway in Papago Park



Saguaroland

Bulletin

VOLUME 38

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 11

November, 1984

The Desert Garden Grows: Conclusion

by Elizabeth Fritz

Before 1959 the Desert Botanical Garden was on land belonging to the State of Arizona. On February 25, 1959 the City of Phoenix bought Papago Park, including the land occupied by the Garden, from the State of Arizona. Purchase price was \$3.00 an acre.

Under the state government both Papago Park and the Desert Botanical Garden had suffered from misuse and vandalism. Now the city's objective of a recreational park to enrich the lives of its citizens and visitors could be fully realized. Del Seppanen, of the Phoenix Parks Recreation and Library Department, cooperated with Director W. Hubert Earle and Trustees John Eversole and Les Mahoney in drawing up a master plan that would lease 150 acres to the Desert Botanical Garden. They felt this would safeguard the present and future plantings.

In 1963 the city of Phoenix requested and got a section to the south near Hole in The Rock to be used as a Papago Park Picnic area. The building of Galvin Parkway also reduced the total garden acreage (to 123.75 acres), but gave the Garden a new entrance.

The growth of the Garden continues in 1984, not in additional acreage, but with the development of paths and plantings to show all the desert garden possibilities.

Photojournalist Leads Class

The Garden is featuring a photography workshop with photojournalist Bill Thomas, on November 10 from 8:00-11:00 a.m. Mr. Thomas will be in Phoenix to present the workshop and also to photograph desert plants in the garden.

Members and friends of the Garden will enjoy this opportunity to work with a world famous photojournalist. Mr. Thomas' work has appeared in *National Geographic*, *Better Homes & Gardens*, *Audubon* and *Smithsonian*.

Papago Park Celebrates 25th

Events planned for the week of November 10-18, when Papago Park celebrates its Silver Anniversary, are:

Craft Guild Sale: "Gift Bazaar."

Photography Exhibition: "Deserts of the World."

Library Exhibit: "The Desert Garden Grows."

Other special events are planned during the week at the Phoenix Zoo, Pueblo Grande Museum, Salt River Project Museum, Arizona Military Museum, Central Arizona Museum of History, The Hall of Flame, and the City of Phoenix Department of Parks, Recreation and Libraries.

Friday Luminaria Scheduled

Yes, Virginia, Luminaria Night still exists. The regular Luminaria Night will be on Friday evening, December 7, 1984.

A pinata, music, refreshments, and 4,000 luminaria will be featured on Luminaria Night. Admission is free for Garden Members, the regular admission for individuals, and a special \$5.00 fee for families.

The **Luminaria Fiesta Gala** on December 6 is a new event this year. Details of that event are on page 39.

First Phase Ready and Open

The first phase of the Rhuart Demonstration Garden is now open to the public. Beginning with ceremonies on Friday, October 12, the opening continued throughout the weekend and included a free Community Day on Sunday, October 14.

Friends, volunteers, Board Members and staff all worked to make the event a success. Anyone who showed up on the scene in the last few weeks was given a shovel or a pick and put to work. As a demonstration garden the continued progress will now depend on the active support of additional Valley visitors and friends.

News of Garden Activities

Jane Plotke has joined the Education Department as Assistant Director. Jane lives in Central Phoenix, but studied in California, receiving her two degrees (B.A. and C. Phil.) from the University of California at Los Angeles. Education Assistant Deon Rasmussen resigned in September to spend more time with her family. She will continue as a workshop leader and consultant to the Garden.

Vikkie Bone, Board Member and long time Friend of the Garden, is in Good Samaritan Hospital. Facing a diagnosis of bone cancer, Vikkie is hoping for a good reaction to therapy and treatment so she can get back home soon and out to the garden.

Board Member, Lillian Mieg, recently donated a collection of books to Richter Library. Many of the books were autographed by their authors "to Charlie." For readers who didn't know Charles Mieg, see the story in next month's Bulletin.

Garden Member, Paul A. Elias of Fountain Hills recently published "Notes from the Sonora Desert" in the South African journal ALOE. Paul comes from a long line of botanists and horticulturists which he calls in Afrikaans his "erflike belasting."



A whole new look has transformed the Desert Botanical Garden Gift Shop. Beginning with cleaning and painting, things are now getting into high gear with new shelving, cabinets, and lighting. The whole effect is enhanced by the sound of cash registers ringing up sales. Shown here are some perennial favorites: hats and shirts with the Desert Botanical Garden agave logo.

Hand Crafted Gifts Sale Begins

Oodles of hand crafted gifts are ready for sale during the week of the Papago Park celebration, November 10-18. Members of the Desert Botanical Garden Craft Guild have a wonderful assortment of dried flower arrangements, hand sewn tree decorations, stuffed toys and creative artistry in wood and pottery. This year the crush is on as they have been preparing for the week long sale at the Garden.

Members and friends should get out early in the week for the best selection. All proceeds will benefit the Desert Botanical Garden.

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When Ginny Coltman delivered her baby a few days early, the Friends Directory still needed to be stapled. Jean Cordts, Dorothy Carson, and Friends President, Mary Bess Mulhollan, went to it with a smile in Richter Library.

And Now for an Exciting New Event

Members, Friends, and Their Guests
Are Cordially Invited to Attend

Luminaria Fiesta Gala

at

The Desert Botanical Garden
1201 North Galvin Parkway

Featuring:

Southwest music — country,
folk, hispanic, and jazz

Southwest lights — 4,000
luminaria along Garden paths

Southwest food - Mexican
holiday buffet and beverages

Thursday evening, December 6, 1984, from 6:00 p.m. to 9:00 p.m.

No host bar.
\$10.00 per person.

Reservations limited.
941-1225

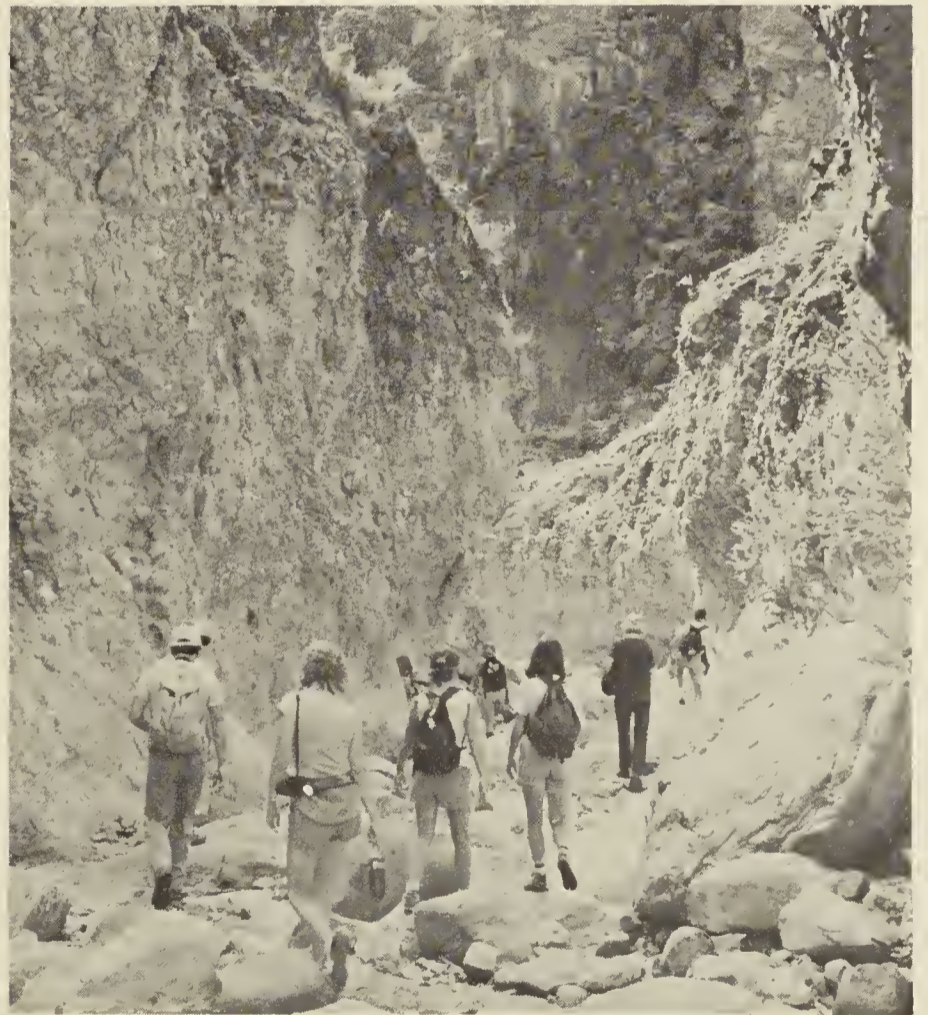
Garden Trips Cover Miles

What is so rare as a day in June? How about a day in September, or two days in October, or maybe a day in January? In Arizona there is always a beautiful day somewhere in the State. Participants in the Field Trips from the Desert Botanical Garden have gone all over the State in search of paths to explore — and natural beauty to be discovered.



This Argemone platyceras (Arizona Prickly Poppy) was discovered by a field trip group last spring to the Patagonia Sanctuary. Fees for trips include van transportation, tour guides, and plant field specialists.

Photo by Laura Stacey 39



The group pictured here is on the Garden field trip to Burro Creek. One of the largest trips to go out from the Garden in recent years, there were two van loads on this September trip.

Photo by Laura Stacey

Corrections

September *Saguaroland Bulletin*: page 31 -
Tom Daniel of A.S.U. is *Herbarium Curator*.
Ruth Greenhouse of D.B.G. is *Research Associate*.



DESERT BOTANICAL GARDEN

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CALENDAR



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DECEMBER

1. **(Saturday) 7:00 a.m. FIELD TRIP - CASTLE CREEK.** Enjoy a beautiful two mile hike through Crater Canyon of the Castle Hot Springs area north of Lake Pleasant. Register by Monday, November 26. Fees: Members \$15.00, nonmembers \$20.00.
3. **(Daily) 9:00 a.m. - 5:00 p.m. EXHIBIT - WEBSTER AUDITORIUM HOLIDAY DECORATION.** The Garden's main building displays decorations provided by Garden Friends. Included with Garden admission.
5. **(Wednesday) 9:00 a.m. - 12:00 p.m. CLASS - HOLIDAY DECORATIONS.** Construct a holiday wreath and wall decoration using dried plant materials. Taught by Vikkie Bone, floral designer and Garden Friend known for her creative use of desert plant materials. All supplies included for this one session class. Register by Monday, December 3. Fees: Members \$15.00, nonmembers \$20.00.
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Saguaroland

Bulletin

VOLUME 38

DESERT BOTANICAL GARDEN, PHOENIX, ARIZONA

Number 12

December, 1984

Colors Awe Garden Group

by Judy Mielke

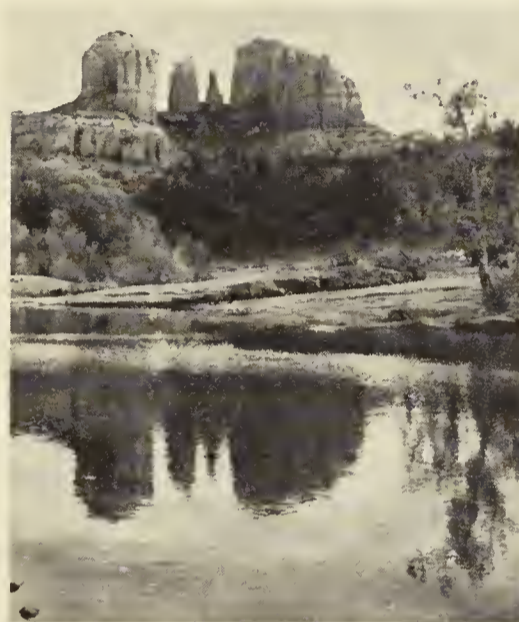
The Garden's late October Field Trip gave a group of bird watchers, photographers and botanists a closer look at the scenery along Schnebly Hill Road and Oak Creek where red sandstone rocks are the backdrop. The scarlet of Indian Paint Brush and *Penstemon bridgesii*, yellow of the daisy-like *Viguera multiflora*, and lavender of the fleabane daisy and machaeranthera rewarded those who hiked along the pine and oak lined paths at the top of Schnebly Hill Road. The group also came across smooth sumac, skunkbush sumac, and Virginia creeper in varying intensities of red.

After lunch along the shores of Oak Creek, the next stop was Slide Rock where the hikers found golden-rod, globe mallow, and the golden foliage of cottonwood, sycamore, ash, and willow trees. The icy water tumbling over the rocks was slowed in places by large clumps of sedge with its narrow leaves of yellow and brown.

A short detour on the way back to Phoenix took the group to Red Rock Crossing for a vista some had seen only on calendars or in *Arizona Highways*. The scenic beauty of this spot is accompanied by the restful stream meandering by with poplar and sycamore leaves rustling in the breeze.

Fall color on this trip wasn't limited to plant life. Several western bluebirds were seen as well as Steller's jays, juncos, robins, red shafted flickers and even a great blue heron perched on a rock in Oak Creek.

The van returned to Phoenix on highway I-17, but even the roadside was colorful with yellow mullein, toadflax, telegraph weed and snake weed, and pink buckwheat available out the window for those who chose not to sleep on the way home. All colors and conveniences for bird watchers, photographers, and botanists were available on this bright October day.



Sedona's Red Rock Crossing is beautiful any time of the year, but was especially photogenic for the Garden Trip in October.



Mim Dinndorf reflects the joy of experiencing a trip to Slide Rock with the group from the Desert Botanical Garden.
(Photo by Laura Stacy)

The Desert Botanical Garden is open every day of the year from 9:00 a.m. until sunset . . . except December 25, 1984. This year the Garden will be open from 10:00 a.m. until 4:00 p.m. on December 25.

Around the Grounds

Observations, anecdotes and advice from the Grounds Department.

Yellow flowers in large clusters began appearing on the cascalote tree, *Caesalpinia cacalaco*, near Webster Auditorium the first of November and the tiny pea like buds which have formed should extend the bloom period well into January. The flowers don't have a noticeable scent, but many visitors are fooled by the fragrance from the *Condalia globosa* nearby.

The Garden's tree has never set seed, perhaps because there isn't another mature plant of the same species with which to cross pollinate. Another possible explanation is that the pollinating agent — maybe an insect — doesn't occur here. The fruit of trees in natural areas are about five inches long, red, and somewhat constricted between the seeds.

Four small cascalote trees are just becoming established in the area north of the Garden restrooms. On these the characteristic red coloring on the young growth is evident as are the curved spines which is characteristic of young trees. The plants will lose their spines and develop rough gray bark as they age. Pinnately compound leaves composed of many oval leaflets make this tree an attractive choice for shade in any garden and a favorite hiding place for a chuck-walla at the Garden.

Charles Mieg introduced this beautiful tree to the Garden after collecting the seed on a 1960s trip to Mexico. The seed germinated at the Garden and was placed in the ground about two years later. Thus, according to John Weber, Chief Horticulturist now retired, our blooming cascalote tree had its beginning as part of a flower twenty-five years ago when the city of Phoenix was just establishing Papago Park.

J.M.

The Grounds Department consists of superintendent Steve Priebe and horticulturists Judy Mielke, Suzanne Nelson and Drew Swieczkowski.

They are busy this week getting ready for Luminaria Celebrations Thursday, December 6th and Friday, December 7th. (See calendar on page 44 for details.)

Saguaroland Bulletin is published monthly by the Desert Botanical Garden, 1201 N. Galvin Parkway, Phoenix, Arizona 85008. Telephone (602) 941-1217.

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Director: Frederick W. Shirley

Editor: Jane B. Cole

Seven categories of Garden membership are available. Call the Desert Botanical Garden for membership information weekdays between 8 a.m. and 5 p.m.

The 19th Century Valley

"Turning off from the Overland road we crossed the Gila and then traversed the thirty-five miles of dusty, waterless desert between that and the Salt River. We observed in passing that the southern edge of this vast plain was covered with a dense growth of mesquite trees; beyond that no one was to be seen, but in their stead only greasewood and cactus of many varieties, from the *Cereus giganteus* or 'suwarro,' towering to a height of thirty feet, with its outstretched arms curving gracefully upwards, giving it the appearance of a great green candelabrum, to the common prickly pear, sprawling raggedly over the ground. The land now covered with cactus had doubtlessly been highly cultivated, while the mesquite was a part of the primeval forest of that region. Near the northern edge of the desert we saw for the first time the immense irrigating canals made by a pre-historic people occupying that section of the country, concerning whom the Indians of the present day have neither knowledge nor tradition.

"In spite of its forbidding name the Salt River was found to be a large body of fresh, sweet water, without alkali or other perceptible impurity, and our camp upon its banks was a red-letter day in the calendar of our journey.

"From the Salt River a march of fifteen miles brought us to our destination, Fort McDowell, the newest, largest and best post in Arizona . . . It was about half a mile back from the Verde River, from which all the water used by the garrison was hauled in a wagon . . . the temperature of the day . . . averaged about 115° in the shade, or would have done so, if any shade could have been found . . ."

JOURNAL OF THE UNITED STATES CAVALRY ASSOCIATION. Vol. II, No. 4, March, 1889. page 8 and following.

A recent Library visitor, a researcher from Saudi Arabia, gave us a list of all the plants he was putting around an industrial plant there. Our Grounds Superintendent, Steve Priebe, gave him expert opinions about which plants would be successful in which locations, how deep to plant, how deep to leach for salts, what would be useful for windbreaks, and so on. The visitor was very thorough and asked a lot of questions, but Steve patiently went through his whole plan with him.

The final question, however, was one Steve didn't have an answer for. "What do you do," said our visitor, "to keep the desert from spreading?" The problem in Asia and Africa, where drought conditions and overgrazing have caused problems, is similar to our American dust bowl problems in Texas and Oklahoma. In Arizona we worry more about the mulberry forest destroying the desert rather than the other way around. So we had no answer for our visitor except to refer him to the Agriculture Extension Services in Texas or Oklahoma.

The Cactomanics And The Miegs

by Elizabeth Fritz

(Back in 1950 an informal group of Garden members got together informally and decided, "Let's meet every now and then without a lot of fuss and talk about cactus and succulents that we grow, or photograph, or just look at. And let's have no nonsense about by-laws or rules or dues or officers or such stuff. Let's have fun and call ourselves Cactomanics." . . . the only thing (sorry, person) resembling an officer is Charlie Mieg who is Chief Maniac simply because, he says, there isn't another idiot willing to do the job. *Saguroland Bulletin*, Volume 25: page 106.)

Lillian and Charles Mieg met at a resort in upper New York state, were married in Lillian's home town, Terre Haute, Indiana, and began life together in Bagdad, Arizona where Charlie was working in copper mining. In 1945 they settled in Phoenix. A chance encounter between Lillian and Lois Earle, who recognized each other from University of Indiana days, led the Miegs to the Desert Botanical Garden. William T. Marshall was director and W. Hubert Earle was on the horticultural staff.

Charles Manfred Mieg had come to America from his native Switzerland in 1933 to seek his fortune. His enthusiasm and spirit of adventure sustained him through the Depression and later brought him success as a land developer notably in the Mummy Mountain area in the town of Paradise Valley, Arizona and, areas in Columbus, New Mexico. Plant study and the workings of the Desert Botanical Garden became his next projects.

Lillian began calling him a "cactomaniac" which inspired him in 1950 to organize a cactus club by that name. Members met monthly at the Desert Botanical Garden to share knowledge of cactus and succulents, view slides, take field trips, and partake of refreshments. The *Cactomanics* planted the original plant bed in Eliot Patio.

In 1956 Charlie Mieg was elected to the Garden board. Numerous improvements to the grounds were made possible by his generosity with funds, construction materials and equipment. He also donated labor and supervision. From voracious reading in botanical literature he went on to plant-collecting in uncharted regions of Mexico with various companions, among them Consulting Botanist James A. McCleary, Ph.D., Garden Director Earle, Chief Horticulturist John Weber, and First Garden Director George Lindsay. He also financed and conducted trips with foreign botanists — to Baja with Helia Bravo of Mexico, to Sonora and Sinaloa with Dr. Hans Krainz and Felix Krahenbuhl of Switzerland. Lillian, a plucky member of both trips, recalls with humor a ride over rutted roads in Baja in a truck belonging to the San Diego Museum of Natural History of which Lindsay was director. It took 10 hours to go 100 miles. Mieg's ability to nose out new plant specimens earned him

A Letter from the Director

Dear Members:

As 1984 draws to a close, the Desert Botanical Garden staff joins me in thanking you for your support and interest.

We all wish you a Happy Holiday Season and we all look forward to an exciting growing year in 1985.

Sincerely,

Fred Shirley

Arizona Tribal Agriculture

A series of four lectures about Arizona tribal agriculture and land use will be presented in January at the Desert Botanical Garden in Webster Auditorium.

Friday, January 11, 1985:

10:00 a.m. - 12:00 noon: Papago Department of Agriculture

Friday, January 18, 1985:

10:00 a.m. - 12:00 noon: Hopi Department of Agriculture

Friday, January 25, 1985:

10:00 a.m. - 12:00 noon: San Carlos Apache Department of Agriculture

Thursday, January 31, 1985:

10:00 a.m. - 12:00 noon: Navajo Department of Agriculture

Registrations will be taken at the Garden for individual lectures in the series as well as for the complete series. Each lecture is \$2.00 for members of the Desert Botanical Garden or \$5.00 for nonmembers. The series price for all four lectures is \$8.00 for members and \$12.00 for nonmembers.

another name — "cactus bird-dog." His memory for exact locations made him an infallible guide on return trips.

Charles Mieg died in 1974, and *Cactomanics* as a group came to an end shortly thereafter. But cactomania continues to grow at the Garden as Lillian Mieg, current Board Member, continues to do her part to encourage the growth.



In 1966 Charles Mieg, foreground, and Dr. Hans Krainz, right rear, traveled to an area north of Tehuacan Valley in Mexico. Some of the seeds they collected on that trip and others were propagated at the Desert Botanical Garden.



DESERT BOTANICAL GARDEN

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DECEMBER

CALENDAR



1. (Saturday) 7:00 a.m. **FIELD TRIP - CASTLE CREEK.** Enjoy a beautiful two mile hike through Crater Canyon of the Castle Hot Springs area north of Lake Pleasant. Register by Monday, November 26. Fees: Members \$15.00, nonmembers \$20.00.
3. (Daily) 9:00 a.m. - 5:00 p.m. **EXHIBIT - WEBSTER AUDITORIUM HOLIDAY DECORATION.** The Garden's main building displays decorations provided by Garden Friends. Included with Garden admission.
5. (Wednesday) 9:00 a.m. - 12:00 p.m. **CLASS - HOLIDAY DECORATIONS.** Construct a holiday wreath and wall decoration using dried plant materials. Taught by floral designer Vikkie Bone and members of the Garden Craft Guild, all supplies are included for this one session class. Register by Monday, December 3. Fees: Members \$15.00, nonmembers \$20.00.
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7. (Friday) 9:00 a.m. - 12:00 p.m. **CLASS - HOLIDAY DECORATIONS.** Construct a holiday wreath and wall decoration using dried plant materials. Taught by floral designer Vikkie Bone and members of the Garden Craft Guild, all supplies are included for this one session class. Register by Monday, December 3. Fees: Members \$15.00, nonmembers \$20.00.
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7. (Mondays) 10:00 a.m. - 11:00 a.m. **LECTURE SERIES — NATIVE PLANT USE BY FIVE TRIBES: PIMA, PAPAGO, HOPI, APACHE, AND NAVAJO.** (January 7, 14, 21, 28.) Research associate Ruth Greenhouse presents this four session lecture series covering plant uses by Native Americans both now and in the past. Register by Friday, January 4. Fees: Members \$8.00, nonmembers \$12.00.
8. (Tuesday) 1:00 p.m. - 3:00 p.m. **LECTURE — THE NATIVE PLANT COLLECTION: AN OVERVIEW.** Curator of the Living Collection Victor Gass gives participants a look at what the Desert Botanical Garden is doing with native Arizona plants. Included with Garden admission.
9. (Wednesdays) 1:00 p.m. - 5:00 p.m. **DEMONSTRATION AND SALE — CRAFTS BY ARIZONA NATIVE AMERICANS.** (January 9, 16, 23, 30.) Four Wednesday afternoon craft and art demonstrations in Eliot Patio include the sale of the items made during the demonstrations. Included with Garden admission.
11. (Fridays) 10:00 a.m. - 12:00 noon. **LECTURE SERIES — MODERN AGRICULTURE AND LAND USE BY ARIZONA INDIAN TRIBES.** (January 11, 18, 25 and Thursday, January 31.) Four sessions. Representatives of the Divisions of Agriculture of the Papago, Hopi, San Carlos Apache and Navajos share the information from their tribes. Register by Monday, January 7. Fees: Members \$8.00, nonmembers \$12.00.
12. (Saturdays) 9:00 a.m. - 12:00 noon. **WORKSHOP — GETTING TO KNOW YOUR DESERT.** (January 12, 19.) Two sessions for Junior Girl Scouts and others includes plants, animals, and solar energy in the Sonoran Desert. All requirements for the Scout badge will be covered. Register by Monday, January 7. Fees: Young people in grades 4 through 6 - \$6.00 each. No charge for leaders.
15. (Tuesdays) 4:00 p.m. - 6:00 p.m. **WORKSHOP — GETTING TO KNOW YOUR DESERT.** (January 15, 22, 29.) Three sessions for Junior Girl Scouts and others includes plants, animals, and solar energy in the Sonoran Desert. All requirements for the Scout badge will be covered. Register by Monday, January 7. Fees: Young people in grades 4 through 6 - \$6.00 each. No charge for leaders. Register by Monday, January 7.
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23. (Wednesdays) 9:00 a.m. - 12:00 noon **CLASS - DOCENT TRAINING.** The 10 session Docent Class is offered to interested persons who wish to lead guided tours of the Garden. Graduates give four hours weekly guiding school children and adults through the Garden's plant collections. Class topics include: an introduction to desert environments, plant and animal adaptations, Garden history and tips on being a successful tour guide. Register by noon Monday, January 21. Fee: \$10.00.
24. (Thursday) 1:00 p.m. - 2:00 p.m. **LECTURE — THREATENED AND ENDANGERED NATIVE PLANTS OF ARIZONA.** Elaine Averitt, former Plant Propagator and current staff member at the Garden, talks about the protected plants and others in Arizona that are endangered or threatened. Register by Monday, January 20. Fees: Members \$2.00, nonmembers \$5.00.
26. (Saturday) 6:00 a.m. **FIELD TRIP — KEARNY AND THE MOGOLLON RIM.** The group will go by air on a Cessna Turbo 206 to Kearny and view the Mogollon Rim, Central Mountains, and upland Sonoran Desert. Includes a four mile hike. Fees: Members \$90.00, nonmembers \$110.00.
28. (Daily) 9:00 a.m. - 5:00 p.m. **EXHIBIT — ARIZONA CACTUS.** A fantastic array of cactuses, native and introduced, are shown in this Webster Auditorium exhibit. Included with Garden admission.
29. (Tuesday) 9:00 a.m. - 12:00 noon. **WORKSHOP — PIONEER WAYS TO PRESENT DAYS.** This one session workshop with Diane Wilson introduces weaving and spinning with raw and natural fibers. Register by Thursday, January 24. Fees: Members \$6.00, nonmembers \$10.00.
31. (Thursday) 1:00 a.m. - 2:00 p.m. **LECTURE — NATIVE CACTUS OF ARIZONA.** This one session special lecture is presented by staff Plant Propagator Patrick Quirk. Register by January 28. Fees: Members \$2.00, nonmembers \$5.00.

JANUARY