

# The BEGONIAN



NOVEMBER, 1973

*Devoted to the Sheltered Garden*

VOL. 40, NO. 11



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Views expressed in this magazine are not necessarily those of the Editors, the Society or its officers.

## FROM THE EDITOR

The American Begonia Society has been in existence for 41 years, through a severe depression, three devastating wars, and a changing technological environment that hastens to throw out the old while still struggling with the new. Starting with a handful of members who shared a love of growing begonias, the ABS has grown steadily until there are now just a few short of 3000 members with the same common interest as those of 41 years ago. New members are added continually, members eager to learn and searching for added enjoyment of their gardens, whether an entire yard or a windowsill.

From these ranks, the perpetuation of the ABS must come, inspired by those who have contributed much of their time and enthusiasm to fulfill the aims of the Society. This inspiration is the legacy left by four of our long-time members, who are recently deceased; Ruby Budd, who was a charter member of the Westchester Branch; Melville Newfield, who was a charter member of the Sacramento Branch; Marie Zachan of the Inglewood Branch; and Lucille Terry of the Redondo Branch.

At the annual convention banquet this year, Ruby Budd was awarded the Alfred D. Robinson Medal for the Best Hybrid, B. 'Paul-bee', named after Dorothy Behrand's husband,

Paul. Ruby left seven registered hybrids, the first registered in 1963 (B. 'Leo Rowan'), and the last two registered Sept. 20 of this year (B. 'Ethel-bee' and B. 'Myrtle-bee'). She received notification of these last registrations on the day she entered the hospital. She also hybridized B. 'Earl-ee-bee' which was named for her husband, of 44 years, Earl Budd. This plant is the topic to be discussed at the Long Island Branch at their November meeting.

Ruby has won about 60 trophies over the years. She served as advertising manager of the ABS for some time. Anyone wishing to honor Ruby may send contributions to the City of Hope, Duarte, Calif.

## COVER PICTURE

This month's cover picture is *B. bowerae nigramarga*, grown by Mrs. Mabel Corwin. This plant won the ABS Perpetual Award for the Best Begonia in Show in the 1973 ABS National Show. On page 245 of this issue, Mrs. Corwin tells how she grew this lovely plant.

The photo is by Gene Daniels.

### "THE BEGONIAN" ADVERTISING RATES

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Quarter Page .....	10.00	8.50
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### AIMS AND PURPOSES OF THE AMERICAN BEGONIA SOCIETY, INC.

The purpose of this Society shall be:

TO stimulate and promote interest in *Begonias* and other shade-loving plants;

TO encourage the introduction and development of new types of these plants;

TO standardize the nomenclature of *Begonias*;

TO gather and publish information in regard to kinds, propagation and culture of *Begonias* and companion plants;

TO issue a bulletin which will be mailed to all members of the Society; and

TO bring into friendly contact all who love and grow *Begonias*.

## BEGONIA BOWERAE FAMILY

### Part I

By Rudolf Ziesenhenné

*Begonia bowerae* was discovered on March 13, 1948, by the late eminent plant explorer, Thomas MacDougall, in the humus along a shady stream north of Miltepec, Cerro Atravesadi, Sierra Madre, Oaxaca, Mexico, at an altitude of 4000 feet.

In MacDougall's article "*Begonia bowerae* and Its Country" which appeared in *The Begonian*, January 1960, pp. 6 and 7, he noted that in the nearly ten years since the little begonia was described and introduced by me it appeared to have become well-liked and widely spread in begonia circles.

Although the original discovery was limited to a few scattered plants in a very small area, the known habitat range had since been extended so the species could now be described as locally common but still very limited to its original isolated "cloud forest" bordering on a dry pine-woods, in one instance having been found growing on the trunk of a *Brahea* palm.

The technical description of *B. bowerae* appeared in *The Begonian*, April 1950, pp. 76-78. This rhizomatous begonia, which bore MacDougall's collection number C.62, has proven to be excellent in a terrarium, being compact-growing and small-leaved. However it adapts itself well to growth among other begonias indoors where the spinach-green leaves,  $1\frac{1}{3} \times \frac{3}{4}$  inches, with blotches of raven-black along the margin, are distinctive.

In outline the leaves are slanting and strongly irregular egg-shaped,

tapering gradually to a long, sharp point, the basal lobes being very short and rounded, the margin vertically wavy, toothed and minutely saw-toothed with many long, white, semi-stiff, eyelash-like hairs standing erect at right angles to the upper surface of the leaf edge. The leaves are palmately seven-veined. White flowers are produced from January to March.

After *B. bowerae* was collected, MacDougall made several return trips to its habitat, discovering the next day, March 14, 1948, *B. bowerae* var. *major* (which he numbered C.62a) in a more humid place a few miles along the ridge connecting the north end of Cerro Atravesada with Sierra Madre (Cerro Azul). This new *bowerae*-like plant did not have the dark, triangular markings on the leaf margin, although some cultivated seedlings do show faint, black triangular markings on individual plants; var. *major* has strikingly larger spinach-green leaves,  $4\frac{1}{2} \times 2\frac{1}{4}$  inches, obviously distinguishing this plant from the diminutive species. Also rhizomatous, the entire leaf size and petiole length are just about twice that of the species and it is therefore too large a plant for terrariums, though it is very successful as a hanging-basket plant. *B. bowerae* was first offered on my 1950 list, while *B. bowerae* var. *major* was first on my 1951 list.

MacDougall revisited the *B. bowerae* var. *major* habitat on November 19, 1955 and found the dark-leaved plant of *B. bowerae* (collection number C.177) which is pictured on (Continued on Page 267)



# HOW I GROW *B. BOWERAE NIGRAMARGA*

By Mabel Corwin

Mrs. Corwin is the winner of the ABS Perpetual Award for Best Begonia in Show with the *B. bowerae nigramarga* in the cover photo. (Ed.)

*Begonia bowerae nigramarga* is a species from Mexico. It is a small, dainty, rhizomatous begonia. The leaves are green, patterned with black, and it has white hairs along the edge. It is often called the Eyelash Begonia because of these white hairs. It is a true miniature, and may be used in terrariums. It needs protection, humidity, and a light soil that drains well. The small rhizome creeps along the surface, and likes to be kept a little on the dry side. The small flowers are white to light pink, depending upon the growing conditions. It is a winter bloomer.

My prize winning plant was

grown in a greenhouse. The temperature range is from 60 to 85 degrees, with high humidity. It is planted in a redwood container 9 inches wide and only 4½ inches deep. My husband makes these containers for me. I think all rhizomatous begonias like to grow in very shallow pots.

The bowerae species have been used extensively in hybridizing. Most of the hybrids retain the small size and the eyelash.

If you can provide the conditions that they like, I am sure that you will enjoy growing some of the bowerae species and hybrids.



Mrs. Corwin, Sweepstakes winner, was the speaker at the Annual Banquet.

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## GARDEN GROVE BRANCH ORGANIZED

The Garden Grove Branch of the ABS was organized on August 24, 1973, at the home of Doug and Goldie Frost. Officers were elected and arrangements made for a meeting place. Plans were made to draw up a constitution and by-laws for the new branch, and a representative was selected to attend the national board meeting to request a charter.

The National Board presented a check for \$25 to Mr. Frost, the branch representative, to cover initial expenses.

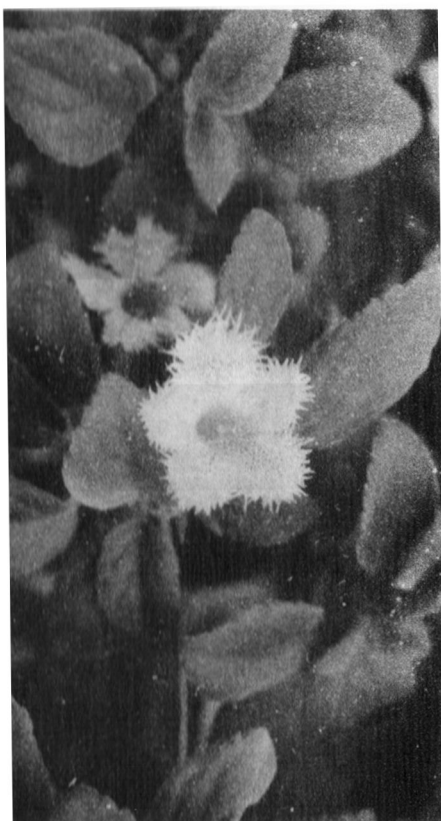
We wish to welcome this new branch to the ABS. Their meeting place and time is listed in this month's Branch Directory.

## COMPANION SHADE PLANTS

The "Aims and Purposes of the American Begonia Society, Inc." states that the society is interested in companion plants to begonias. Thus the show schedule for the annual show includes a division for ferns and a division for shade plants other than begonias.

The Best Shade Plant (other than Begonia) Trophy was awarded to a hanging plant of *Episcia* 'Cygnet' grown by Mr. Edgar Bates of Placentia, Ca. This plant is a hybrid of *E. dianthaflora* developed at Cornell University. It is apparently hardy to much lower temperatures than most episcias since the awarded plant has been grown outdoors in a protected location. The temperature at night in the winter occasionally goes low enough for frost in unprotected locations. This specimen receives filtered sunlight nearly all day and tolerates considerable wind and an occasional severe drop in humidity to as low as 5-10% for short periods of time. The blossoms of *E. 'Cygnet'* are white with a spotted throat. They are similar to the blossoms of *E. dianthaflora* but somewhat larger. Blossoms start to appear in spring as soon as the night temperatures rise into the fifties and continue until early autumn.

This year the Arthur Strandburg Perpetual Trophy for Best Fern was awarded to *Adiantum reniforme* grown by Mrs. Dorothy Porter of Orange, Ca. This is a small, unusual fern grown in a glass bowl. A picture and description can be found in Graf's EXOTICA III.



Blossom of prize-winning *E. 'Cygnet'*

### RAFFLE WINNERS

The winners of the cash raffle at this year's Annual Show were:

- \$100 W. R. Green, Hawthorne, Cal.
- \$50 Ed Thompson, New York
- \$25 Mark Golding, New York

The Woodruff's  
**FAIRYLAND BEGONIA GARDEN**  
1100 Griffith Road  
McKinleyville, Calif. 95521

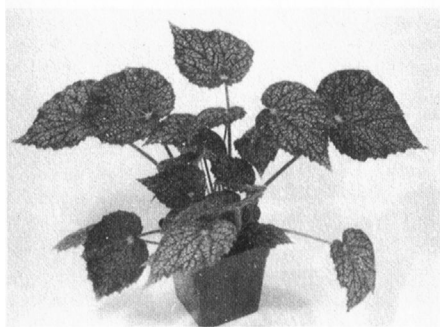
Send 10¢ for catalog  
Wholesale and Retail



Nettie Daniels (left) with group from Caravan West. Note plants to be shipped home.

The preview for the 41st Annual show of the American Begonia Society was held at California State University, Fullerton, California on August 17th, 1973 from 6:30 to 8:00 p.m.

Registration of all members took place at this time with the opportunity of meeting new and old friends.



B. 'Brown Eyes', grown by Leslie Woodriff, and winner of two trophies.

Refreshments were served by the Orange County Branch and the San Gabriel Valley Branch of the American Begonia Society. Mr. Arnie Krupnick of the Westchester Branch was in charge of the liquid refreshment.

The purpose of the preview is to enable members to have a first chance viewing of the show and an opportunity to have first choice at the plant tables.

One lifetime is not long enough to reach perfection in the field of plant hybridization according to Frank Reinelt, world famous hybridizer of tuberous begonias. This was Mr. Reinelt's comment at the 41st Annual Convention Banquet in Fullerton where he spoke and showed colored slides, giving a pictorial history of many outstanding developments in begonia types and color. Progress is slow, he stated,

when a hybridizer makes a cross and grows 10,000 seedlings to discover that only two or three of that number show development toward desired goals. Mr. Reinelt is now retired, but retains his keen interest concerning happenings in the begonia world.

Special recognition was given Mrs. Herbert P. Dyckman, whose husband founded the American Begonia Society in 1932. Mrs. Dyckman presented the society a photograph of her husband as a memorial gift.

Honor and applause was given to Mrs. Susie Zugg for many years of work in hybridizing lovely begonias.

Laughter, tears, and applause accompanied the presentation of awards by Walter Pease, Awards Chairman. Dr. Fred Barkley received the Eva Kenworthy Gray Award; Walter Barnett received the Herbert P. Dyckman Award; and Mrs. Ruby Budd received the Alfred D. Robinson Medal for Best Hybrid (B. 'Paul-bee').

The installation of officers by Evelyn Cronin brought the banquet activities to a close.



Ruby Budd accepting the Alfred D. Robinson Medal.



Terry Elin with her trophy winner in the Student Division, B. 'Eunice Gray'.

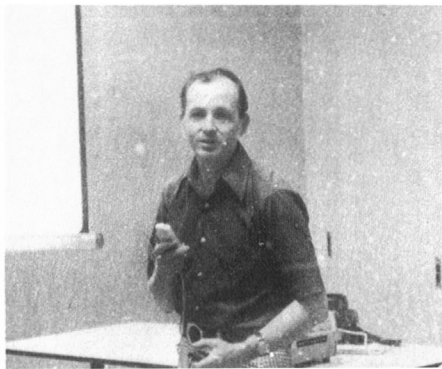


Evelyn Cronin accepting the Eva Kenworthy Gray Award. Mrs. Cronin was the installing officer at the banquet.

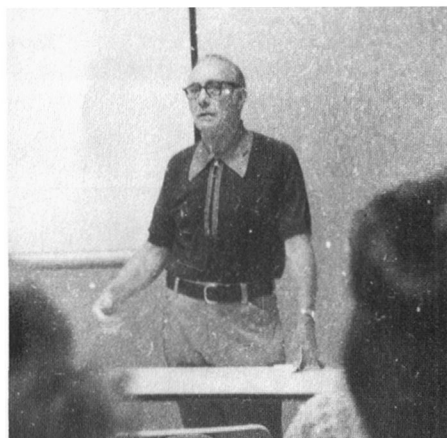




Louise Bower at her trophy winning educational exhibit entered in the name of her branch, Theodosia Burr Shepherd.



Mike Kartuz giving seminar on Begonias suitable for Container Gardening.



Jim Wyrzten speaking on Outdoor Tropical Gardens in the Temperate Zone.



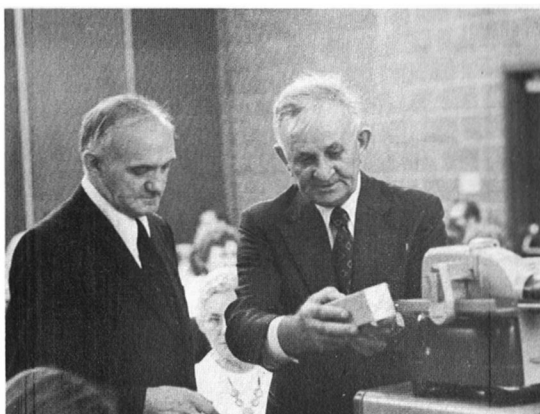
Wally Wagner, new president, with John Provine, past president.



Jack Golding discussing the show with Mae Tagg.



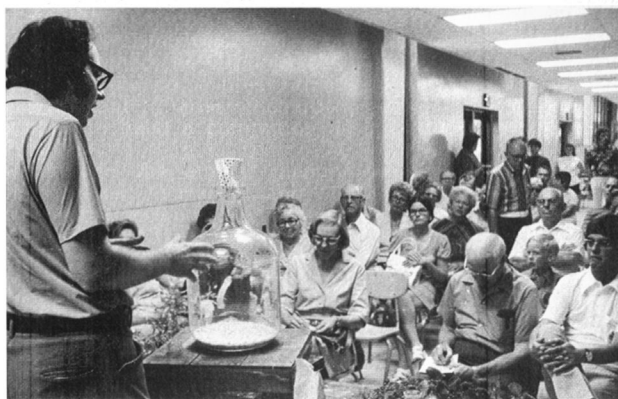
Percy and Susie Zugg honored at the banquet.



Rudy Ziesenhenn (left) helps Fred Reinelt, banquet speaker, set up slides for presentation.



Sylvia Leatherman presenting a seminar on propagation of Rex Begonias.



Mark Golding presenting seminar on growing in bottles.

## ABS ANNUAL SHOW JUDGING TEAMS

The following is a list of the teams of judges and clerks who took part in the ABS 41st Annual Show and the divisions they judged:

<i>Team</i>	<i>Judges</i>	<i>Clerks</i>	<i>Assignments</i>
1	Rudy Ziesenhenn Jim Wyrzten Lillian Steinhaus	Jim Lien Gene Daniels Frances Spaulding	Div. B — Shrublike Div. E — Rhizomatous Div. G — Tuberous species Div. H — Tuberhybrida
2	Thelma O'Reilly Mike Kartuz Pearl Benell	Chuck Richardson Nettie Daniels Jerry Rike	Div. C — Thick-stemmed Div. I — Species Div. J — Enclosed Containers Div. S — Educational Displays
3	Jean Kerlin Nellie Weaver Walter Barnett	Ronnie Nevins Katharine Alberti Edie Krupnick	Div. L — Baskets and Wall Pockets Div. Q — Students Div. U — Planters Div. T — Photos
4	Peggy McGrath Elsie Joyce Jim Somes	Mary Birchell John Provine Lore Hansen	Div. A — Cane-like Div. F — Rex Div. K — 25-year or older Hybrid in Cultivation
5	Alberta Logue Hazel Snodgrass Irene Grannell	Wanda Elin Alice Martin Larry Perkins	Div. D — Semperflorens Div. O — Begonia Collections Div. P — Novice Growers Div. M — Novel Grown Begonias Div. V — Miniature Gardens
6	Fritz Kubish Stan Spaulding Bill Paylen	Lucille Kaytis Dorothy Porter Jack Pounder	Div. R — Branch Garden Displays Div. W — Ferns Div. X — Other Shade Plants Div. Y — Arrangements and Corsages Div. Z — Individual Display
<b>SPECIAL TEAMS</b>			
7	Rudy Ziesenhenn Thelma O'Reilly Mike Kartuz Nellie Weaver Jim Wyrzten	Jim Lien Mary Birchell	New Introductions
8	As above plus Jean Kerlin Jim Somes		Best Begonia in Show

Tallying Committee: Malvina Wyrzten, Cecelia Grivich and Ruth Pease

## 8th ANNUAL EASTERN CONVENTION

By Priscilla Beck  
Co-chairman

The 8th annual Eastern Begonia Convention was held at the Sheraton Motor Inn in Norwich, Conn. The inn was beautifully set up for our needs with the lecture, show, and dining rooms adjoining. The dining room opened on the show room making a lovely setting for our meals.

Many old friends were gathered together to renew acquaintances and many new ones were fun to get to know.

Since the Connecticut Branch is small our success was greatly helped by the wonderful people from other branches who helped with everything from taking entries to donating plants for table favors and the sale table.

The members attending came from the Buxton, Knickerbocker, Long Island, Rhode Island, Western Pennsylvania, and William Penn Branches. There were two from Washington, D.C., one from Florida and a member at large from Liverpool, New York.

The program was of interest to experienced and inexperienced growers. Mrs. Edna Stewart spoke on new hybrids and hybridizing. The Knickerbocker, Long Island, and Buxton Branches gave illustrated talks on various methods of reproduction. The Knickerbocker Branch spoke on reproduction from leaves, the Long Island on stem propagation and Buxton on reproduction from seed. After their lectures the displays were in the show room to better acquaint the public with our favorite plant, begonias.



Mrs. Tekla Tedesco introducing Dr. Bruno C. Moser, Banquet Speaker (far left). Toby Lothman of Knickerbocker Branch in center.



Daphne Bettle - Wm. Penn & Florida Branches. Evelyn Cronin of Buxton Branch. Judging Best-in-Show Plant *B. foliosa* grown by Millie & Ed Thompson of Long Island Branch.

In the evening, Dr. Howard W. Pfeifer from the University of Connecticut showed slides on plants that grow in the wild with begonias. Since Dr. Pfeifer does much traveling in connection with the University to Costa Rica, the Virgin Islands,



and Central America, his slides were varied and fascinating.

Saturday, for those who wished there was a bus tour to the Mystic Seaport. Before touring the Seaport we were given the whaling orientation lecture.

In the evening Dr. Bruno C. Moser from Rutgers University brought us up-to-date on the research experiment sponsored by the American Begonia Society. Many of us were surprised to learn that many cane type begonias can be propagated from leaves and make bushier plants, with

no help from plant hormones.

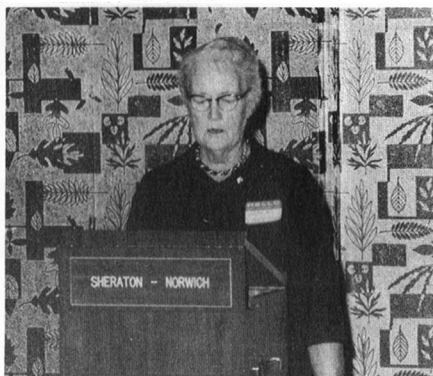
Wyrzten's Exotic Plants and Logee's Greenhouses had wonderful non-competitive displays. Both donated plants for table favors as did Edna Stewart and many other people. Dora Lee Dorsey even sent some from Florida.

The committee would like to thank all those who donated time, elbow grease and plants to help make this convention a success. We would especially like to thank our speakers and those branches who put

(Continued on Page 265)



Wendy Stuart of Long Island Branch discussing propagation of begonias from stem cuttings.



Mrs. Orpha Fox of Buxton Branch presenting seminar on growing begonias from seed.



Judging Rex Begonias  
Left to right —  
Joy Logee Martin, Conn.  
Branch. Toby Lothman &  
Adele Zemansky of Knicker-  
bocker Branch with Nancy  
Alvord of Buxton Branch.

## ROUND ROBIN NOTES

Robin members across the country have been busy getting their plants ready for winter, putting them back into greenhouses, under lights or on windowsills. Newcomers to the hobby are getting the help they need from the robin letters as they learn more about begonias and other shade loving plants.

The Texas Robins followed the lead of the Florida Robins and got together for a day of workshops, swapping many good ideas. Nita McClain, Texas, told of receiving some seeds wrapped in facial tissue. She snipped off a bit of the tissue with the seeds clinging to it, laid it on some damp mix in a small pot and waited for germination. Great idea for planting those tiny seeds that are so hard to see, with less chance of over-planting!

Mary Hall of Texas finds the best way to fight algae in seed-pans is to use boiling water to dampen the planting media, especially if it is milled sphagnum moss.

Mickey Meyer of Australia uses a single-bed electric blanket enclosed in polyethelene as a heating cable for germinating her seeds.

Elizabeth Stuart, California, was told by a member of the Arboretum staff that, for those having difficulty keeping seedpods on a plant until they ripen, a mix of lanolin and indolebutyric acid smeared on the stem of the pod will keep them from dropping.

Ann Bello of New Jersey, when potting up leaves and cuttings, makes her own potting mix using equal parts of vermiculite, perlite, black

peat, humus and sterilized commercial potting soil. Mix thoroughly and fill pot to about 1 1/4" from top. She makes a hole in this with a dibber and pours about a teaspoonful of either vermiculite or perlite into it. This is good for drainage and also stimulates stronger root growth. She sets plant, adds rest of soil mixture, tamps down and the plant is ready to take off.

Leitia Isner of West Virginia read somewhere to lay the small plants, when transplanting seedlings, in a tray with a bit of water and they will separate with less injury to the most important roots. It works for her.

Evelyn Cronin, Massachusetts, had excellent luck germinating seeds of her *B. versicolor*, selfed. She placed one batch in a pot of 1-1-1 mix, lightly spread milled sphagnum moss over the top, and placed the pot in a baggie. Germination was rapid. Previous experience indicated a three month wait. Not this time. Within a month, the top of the moss was peppered with small green specks. She filled a 10" bowl with long sphagnum which had been soaked in dilute fertilizer solution then squeezed not too dry. When transplanting the tiny seedlings, some had to be taken up in clumps while others could be handled individually. Within one week the growth in the bowl was astounding. She left a few in the original pot sealed with plastic wrap. Those in the pot, which were undisturbed, made much slower growth.

Evelyn made wedges of *B. ficicola* and forgot about them. When she

peeked into the bowl two months later, she was surprised to see that one wedge had one leaf and a blossom, another wedge had NO leaf and two blossoms!

Alice Nierenberg of Florida said she had Saran Wrap on her bowls and everything was growing beautifully. She decided that glass tops would look better so she put glass tops on all of them. Since then she was getting much more condensation in the bowls, which had to be left open an inch or two to allow it to evaporate. She was thinking of going back to the plastic so she wouldn't have to move the covering off and on several times a day.

Pat Burdick, Minnesota, has all the plants in her house in bowls due to low humidity there. Most she grows in a south window but she puts bamboo mats over them in the middle of the day.

Isabel Cutler, New York, shared some beautiful pictures of her bowls, including one of a beautiful orange mushroom that appeared in one of them. She said she seemed to remember that the more cuttings she took of *B. prismatocarpa*, the more it bloomed.

Phyllis Wright of Washington said her plant of *B. rajah*, which filled a large fish bowl, started to throw out small plants in March. She removed the plant and tore it all apart, putting the healthiest new plants back. In three months it was a nice healthy bowlful. Small ones potted up and placed under lights were also growing quite rapidly. All this from a leaf. Anita Sickmon had shared with her.

Margaret Benz, Colorado, was having trouble with her *B. acida* in a covered bowl. She cut it back, took off all the "bad" leaves, and the plant is growing great guns again. The height of the plant brings it very near the lights. The fixture is probably no more than 4" from the top of the container. The plant flowers quite frequently and the closeness of the lights doesn't seem to bleach out the leaves.

Arline Peck, Rhode Island, described an unusual container she saw while in California. It was a burned out light bulb, very large, clear glass. The part that screwed into the socket was cut in half so the old filament could be removed, then soil was put in and planted.

Vivian Stewart, Washington, enclosed a newspaper clipping of her picture at the Seattle Center's Flag Plaza Pavilion, with many of her plants. She had carried them there for a plant swap and teach-in staged by the Center and local merchants. The proceedings were enhanced by classical music during the event.

Do you want to swap ideas, too? Robin letters make great reading and the friendship is warm and sincere. Write me if you would like to join us.

Mrs. Mae Blanton  
Round Robin Director  
118 Wildoak Drive  
Lake Dallas, Texas 75065

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**PLANTS ALIVE**

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## CLAYTON M. KELLY SEED FUND

In addition to the seeds listed below, the seed fund offers a bulletin called "Begonias from Seed-Sowing and Growing." It gives encouragement and step-by-step, easy to follow instructions for beginning seed growers, and is available for only \$.25.

To prevent delays in receiving your seeds, be sure to include your complete address with your order.

Please do not order seeds from issues prior to this one as they are no longer available.

### **No. NV-1 *B. bettiniae* Zies.**

Fairly new species, herbaceous perennial. Stems erect, round, base woody, one foot tall; diameter one-eighth inch near the tip, foliage confined near the tip internodes near the tip, covered with dense reddish-brown matted hairs; leaf stem round, covered with reddish-brown woolly hairs. Leaf blade spinach-green. Flowers pink from November to January. Native habitat Mexico. \$1.00 per pkt.

### **No. NV-2 *B. circumlobata* — China**

Leaves like a Chinese umbrella, but cut deeply to the stem end. Fairly fast grower. Do not allow it to become pot-bound. Do not over water, grows drier than most. \$1.00 per pkt.

### **No. NV-3 *B. echinosepala* — Brazil**

Small, metallica-like begonia with very narrow serrated leaves drooping from arched branches. Male flowers are white bearded. \$1.00 per pkt.

### **No. NV-4 *B. limmingheiana***

Pointed shiny green leaves on many cascading stems, coral-red flowers in close clusters in winter. Provide warmth, bright light, and good soil. \$1.00 per pkt.

### **No. NV-5 *B. platanifolia***

Often confused with *B. aconitifolia*. One of the best cane type begonias, with deeply cut leaves, rather large, with silver markings. Flowers are numerous and pink. \$1.00 per pkt.

### **No. NV-6 *B. plebeja***

Rhizomatous species. Leaves green with black markings. Small white flowers in winter. \$1.00 per pkt.

### **No. NV-7 *B. seychellensis***

Bushy succulent plant, sometimes reaching a height of three to four feet. It is glabrous (smooth, not hairy) with thick branching stems. The leaf has a long petiole and the blade is roundish-elliptic, occasionally as wide as eleven inches. The leaf has two round lobes at the base with finely toothed margins. It is green on both sides, or sometimes red underneath.

The flower stalks rise from the leaf axil, is round or three-forked, shorter than the leaves. Flowers are white with two sepals, either circular or oval heart-shaped. The native habitat is cool, moist mountains. \$1.00 per pkt.

### **No. NV-8 *B. tenuifolia* — Java**

A rhizomatous species from Java, upright and short branched. Many tapering leaves, deep green above, lighter below, with rosy veins. An abundance of large, delicate pink flowers. \$1.00 per pkt.

### **No. NV-9 *B. tomentosa* — Brazil**

Thick, succulent leaves of rich green with downy hair beneath. Pink rimmed white flowers with short red whiskers. \$1.00 per pkt.



## TEXANS HOLD BEGONIA SEMINAR

The All-Texas Robins and The Mesquite Branch of the American Begonia Society sponsored a Begonia Seminar on September 15-16, 1973.

Saturday, Sept. 15, at the home of Mrs. Mae Blanton, was a day of programs and workshops, with 15 very enthusiastic members attending. Mrs. Margie Sikkelee led the members as they constructed a propagation box set with cuttings swapped and shared by all. Mrs. Mary Hall demonstrated the use of egg cartons for planting seeds and transplanting seedlings. Mrs. Yvonne Wells led the discussion of planting by the moon. Mrs. Jeannine Whatley showed the group how to use styrofoam for growing

leaf cuttings. Mrs. Mae Blanton led the group in planting a terrarium. The local members provided a delicious lunch.

Sunday, Sept. 16, was set aside for the out of town members to visit local members and see their greenhouses.

A previous meeting was held on July 28, 1973 at the home of Mrs. Yvonne Wells for a get-acquainted meeting for the robin members and the local group. More meetings are being planned for the future so that more of the Texas A.B.S. members, including those at-large, may get acquainted and enjoy the fun of working together.

### No. NV-10 *B. wollnyi* Herzog — Species from Bolivia

Handsome begonia with palmately lobed leaves. Elegantly spotted with white. Flowers appear in winter. They are greenish white with pink petals. A must for any collection. \$1.00 per pkt.

### No. NV-11 *Tuberous Begonia* hybrid

Basket type, mixed colors. \$.50 per pkt.

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## IN MEMORIAM

His friendly smile is gone, his voice is still, but we will not soon forget him.

Melville Newfield was a Charter member of the Sacramento Branch of the A.B.S. He was a past President and for years he was our Tour Chairman.

We toured gardens such as you have not seen unless you toured with us.

He passed away on August 19, 1973.

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# PROPAGATION OF CANE BEGONIAS BY LEAF CUTTINGS

A Report to the American Begonia Society

By Bonnie S. Greener and Bruno C. Moser

*Department of Horticulture and Forestry*

*Rutgers University, New Brunswick, New Jersey*

*This is the second part of the research report describing the project carried on this past year by Dr. Moser and Bonnie Greener. This project was made possible by the donations of many of the ABS branches to the Research Fund. (Ed.)*

## Materials and Methods

### Stock Plants:

The stock plants were grown in six inch pots, at 65 F. night temperature, 75 F. day temperature, under long day conditions with a night interruption of two hours. They were fertilized once a week with 15-15-15 at the rate of 200 ppm.

### Experiment I: Screening

In order to screen the varieties on hand as to any potential for bud formation, cuttings were made on the dates shown in Table 1. Two types of leaf cuttings were used. One kind consisted of a petiole with leaf blade attached and trimmed to a diameter of two to three inches to accommodate more cuttings per flat. In the second type the petiole was trimmed off close to the blade, and using this as the base, a wedge was cut from the blade to include the midvein. The leaves were occasionally sprayed with water to reduce stress.

Steam sterilized wooden flats were used, filled with rooting medium of 1/2 peat and 1/2 perlite. The medium was well moistened before the cuttings were stuck, and the number of cuttings per flat ranged from 30 to 50. The flats were placed under intermittent mist for two to three weeks. The mist was then discontin-

ued, and the rooted cuttings were grown at 70-75 F. constant temperature under long days with a two hour night interruption. They were fertilized once after one month with 200 ppm of 15-15-15.

After about three months the data was collected on the dates shown in Table 1. The groups of cuttings were carefully removed from the flats, the media was rinsed from the base of each cutting, and much of the root

TABLE 1  
Begonia Varieties Screened in  
Experiment I.

Variety	Date Stuck	Date Collected
B. 'Argenteo-guttata'	9/26	1/4
B. 'Esther Albertine'	9/26	1/4
B. 'Corallina de Lucerna'	9/26	1/4
B. 'Boutonniere'	9/26	1/5
B. 'Lenore Olivier'	9/26	1/5
B. 'Nora Hanson'	9/26	1/5
B. 'Sophie Cecile'	9/26	1/5
B. 'President Carnot'	10/6	1/5
B. 'Alzasco'	10/6	1/5
B. 'Medora'	10/6	1/5
B. <i>alnifolia</i>	10/6	1/5
B. 'Dielata'	10/6	1/5
B. 'Thurstonii'	10/24	1/31
B. 'Templinii'	10/24	1/31
B. 'Dancing Girl'	10/24	1/31
B. 'Margaret Stevens'	10/24	1/31
B. 'Mrs. Fred T. Scripps'	10/24	1/31
B. 'Helen W. King'	10/24	1/31
B. 'Di-Anna'	10/24	1/31
B. 'Mrs. Schwisher'	10/24	1/31

system was removed to allow easy observation. All observations were made with the aid of a dissection microscope, and a shoot was counted as such if it had definite leaf primordia. The number of cuttings with shoots, and the number of shoots per cutting were recorded.

### **Experiment II: Petiole Length**

To determine what type of leaf cutting maximizes bud formation, a variety of cane Begonia was chosen which had previously shown good bud-forming capacity. The variety used was B. 'Argenteo-guttata,' and 60 leaf cuttings were prepared, 10 cuttings in each of six groups based on petiole length. The first three groups consisted of an entire leaf blade with the attached petiole trimmed to 1", 1/2", and 1/4" respectively. The remaining three groups were wedge cuttings. In one group the petiole was trimmed close to the leaf blade. In another group the petiole was trimmed close to the leaf blade and the remaining stump was sliced in half. In the last group the point of the wedge was cut above the base of the petiole so that it was not included at all in the cutting.

The cuttings were stuck on 12/19/72 in flats prepared and handled in the same manner described in Experiment I.

Data was collected on 2/21-22/73, the procedure used has been described in Experiment I.

### **Experiment III: Leaf Age**

Because of its proven bud-forming capacities B. 'Argenteo-guttata' was again used in this experiment to determine any effects of the age of the leaf used for a cutting on shoot formation.

Twenty leaves were selected from the stock plants of the variety. Ten of these were young, newly expanded leaves picked from near the tip of the stem. The other ten were somewhat older and fully mature, usually the fourth or fifth leaf away from the tip of the stem. These were cut into wedges with petiole trimmed off and sliced in half.

The cuttings were stuck on 12/19/72 in flats prepared and handled in the same manner described in Experiment I.

Data was collected on 2/21/73 according to the procedure outlined in Experiment I.

### **Experiment IV: Cytokinin Treatment**

Wedge cuttings of the following varieties were prepared and stuck according to the established procedures on 1/22/73: 120 of B. 'Argenteo-guttata,' 90 of B. 'Sophie Cecile,' 40 of B. 'Corallina de Lucerna,' and 20 of B. 'Diclata'. After two to three weeks under mist, the flats were moved to a bench where about one week later the cuttings were rooted well enough to undergo treatment.

Four solutions were prepared by diluting SD 8339\* (Shell Development cytokinin product) to the following concentrations in water: 50 ppm, 100 ppm, 200 ppm, 400 ppm.

Labels were made and randomized where possible by dividing each treatment in half and applying it to cuttings in two different sections of the flat. Where this was not possible because of fewer cuttings in a flat, each row was simply labeled for one treatment. Applications were made using syringes into which 0.5 mls. of solution was drawn. This was then ejected at the surface of the medium around the base of the cutting.

The syringe was flushed with about 15 mls. of the next solution before being used again. Three applications were made, five days apart, on 2/23, 28/73 and 3/5/73.

### Experiment V: Spring Propagation

Varieties from Experiment I were propagated in January by both whole leaf and wedge cuttings. An additional variety was B. 'Clara Elizabeth.' Conditions were the same as Experiment I except natural photoperiods were used for both the stock plants and the cuttings.

\*6-benzylamino-9-(tetrahydropyran-2-yl)-9H-purine. Supplied courtesy of Shell Development Company, Modesto, California.

## Results and Discussion

### Experiment I: Screening

As shown in Table 2, only six of the 21 varieties screened showed any bud formation. The development of buds, or the lack of them follow a characteristic pattern regardless of variety and can be discussed in a general way.

In the entire leaf cutting the process begins with mounds of undifferentiated callus tissue forming at the base of the petiole. In those cuttings in which no buds were formed, only roots differentiated from the callus. In the other cuttings roots developed, followed by buds which first appeared as tiny white bumps usually along the petiole at and above the callus tissue. These shoots have visible leaf primordia, and many, but usually not all of them will eventually become mature plantlets.

Similarly, in the wedge type of cutting, those which did not form buds usually had a small amount of callus tissue at the base of the cutting from which roots differentiated. The oth-

ers had tiny buds which originated almost without exception from the upper side of the leaf base at or near the point where the midvein meets the callus tissue. In most cases one shoot is larger and more developed than the rest.

All the varieties showed good rooting ability. On several varieties including B. 'Lenore Olivier,' B. 'Boutinniere', B. 'Helen W. King', and B. 'Mrs. Schwisher', there were tiny white bumps in positions where shoots have been observed in other varieties. However, it was impossible to determine whether they would eventually become shoots because no leaf primordia were distinguished at the time. Their presence could indicate an undeveloped potential for bud formation.

TABLE 2

Varieties Forming Buds of Those Tested in Experiment I

Variety	Ave. Buds/ Cutting	% Cuttings With Buds
Wedge type:		
B. 'Argenteo-guttata'	4.9	100
B. 'Corallina de Lucerna'	2.0	55
B. 'Dancing Girl'	2.8	87
B. 'Mrs. Schwisher'	0.7	67
Entire leaf type:		
B. 'Argenteo-guttata'	25.9	80
B. <i>alnifolia</i>	2.9	100
B. 'Dancing Girl'	1.0	40
B. 'Templinii'	4.1	100

### Experiment II: Petiole Length

The results of this experiment indicate that the wedge cutting with the base of the petiole intact is the best leaf cutting method for propagating 'Argenteo-guttata' (treatment #3 in Table 3). This method produced the highest average buds per cutting and the highest percent of bud-forming cuttings. The shoots were also the most mature of the



treatments, many with well-developed pigmented leaves, and about half of the shoots had broken through the surface of the medium. The five other treatments were noticeably behind treatment #3 in development, with many of the buds still small and colorless. Bud formation on entire leaf cuttings was best with the shorter petioles. All treatments displayed good rooting ability.

TABLE 3

Effect of Type of Cutting on Bud Regeneration Ability

Type of Cutting	Ave. Buds/ Cutting	% Cuttings With Buds
1. No Petiole, Wedge	0.8	64
2. Base 1/2, Wedge	3.8	90
3. Base Intact, Wedge	4.8	100
4. 1/4" Petiole, Entire Leaf	1.3	50
5. 1/2" Petiole, Entire Leaf	0.3	60
6. 1" Petiole, Entire Leaf	0.5	30

Experiment III: Leaf Age

This experiment indicates that the mature leaf is better able to produce plantlets. The young, newly opened leaves produced only half as many buds per cutting, most of which were still very small and colorless. In comparison, the buds of the more mature leaves were larger and more developed, many of them pigmented and visible above the surface of the medium. (Table 4)

TABLE 4

Effect of Leaf Age on Bud Forming Ability

Treatment	Ave. Buds/ Cutting	% Cuttings With Buds
Young Leaves	2.5	90
Mature Leaves	6.1	100

Experiment IV: Cytokinin Treatment

The results of this experiment can

best be discussed in terms of the individual varieties treated. (See Table 5)

The cuttings of 'Argenteo-guttata' treated with 100 ppm, 200 ppm and 400 ppm SD 8339 showed the most response by increasing both the average number of buds per cutting and the percent of cutting with buds. This variety, however, possesses a relatively good bud-forming capacity without treatment.

Next in terms of amount of response was B. 'Corallina de Lucerna'. The 200 ppm treatment was the most effective in this case, forming in some cuttings one larger shoot with many smaller buds, or simply forming numerous small buds. The 400 ppm seemed to have an inhibiting effect on this variety which may be due in part to the addition of a high concentration of cytokinin to an existing natural level in the plant. B. 'Corallina de Lucerna' does have some natural bud-forming capacity.

B. 'Sophie Cecile' also showed a fair degree of response with 200 ppm and 400 ppm showing the most significant increases in average buds per cutting and percent cuttings with buds. The shoots formed at 200 ppm were fairly well developed and far ahead of the controls, most of which were still at the small colorless stage. However, the buds formed at 400 ppm were most developed with true leaves and pigment observable.

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## Experiment V: Spring Propagation

As shown in Table 6, several varieties which did not form buds in the initial screening experiment, did so when the cuttings were stuck during early January. This seems to indicate that winter conditions of shorter days may encourage shoot formation. The improved shoot production may have been a result of growing the stock plants on short days for several weeks prior to taking the cuttings. It may also be due to propagating the cuttings under short days.

TABLE 5

Effect of the Cytokinin SD 8339

Treatment	No. of Cuttings	Ave. Buds/ Cutting	% Cuttings With Buds
<b>B. 'Argenteo-guttata'</b>			
H2O Control	12	4.8	85
50 ppm SD 8339	13	5.0	100
100 ppm SD 8339	14	8.4	100
200 ppm SD 8339	12	5.6	100
400 ppm SD 8339	16	8.7	91
<b>B. 'Corallina de Lucerna'</b>			
H2O Control	10	2.2	90
100 ppm SD 8339	10	0.5	40
200 ppm SD 8339	9	2.8	100
400 ppm SD 8339	9	1.8	56
<b>B. 'Sophie Cecile'</b>			
H2O Control	8	0.6	38
50 ppm SD 8339	5	0	0
100 ppm SD 8339	9	1.0	56
200 ppm SD 8339	6	1.5	83
400 ppm SD 8339	8	3.7	83
<b>B. 'Dyclata'</b>			
H2O Control	6	0	0
50 ppm SD 8339	6	0	0
100 ppm SD 8339	6	0	0
200 ppm SD 8339	6	0	0
400 ppm SD 8339	6	0	0

TABLE 6

Varieties that have shown natural shoot-forming ability when cuttings are taken in January

- B. 'Argenteo-guttata'
- B. 'Corallina de Lucerna'
- B. 'Sophie Cecile'
- B. 'Medora'
- B. 'Templinii'
- B. 'Dancing Girl'
- B. 'Margaret Stevens'
- B. 'Mrs. Schwisher'
- B. 'Clara Elizabeth'
- B. *alnifolia*

## Conclusions:

1. Bud formation seems to follow a characteristic pattern of development in the begonia leaf cutting beginning with the growth of callus tissue at the base of the cutting, followed by the appearance of roots and shoots, usually in that order.

2. The wedge cutting with a small intact disk of petiole tissue remaining at the base of the cutting is the best method to use for leaf propagation of cane begonias. If an entire leaf is used for a cutting, a short petiole is best.

3. The mature leaves found toward the middle of the stem produce vigorous shoots most quickly.

4. The external application of cytokinin (SD-3889) in high concentrations (200 ppm) to begonia leaf cuttings will increase the number of buds per cutting and the percent of cuttings which form buds on those varieties which exhibit some tendency to form buds naturally.

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This method does not seem to have an effect on varieties which do not show this tendency.

5. Of the varieties tested the following display some natural shoot forming ability from leaf cuttings: B. 'Argenteo-guttata,' B. 'Corallina de Lucerna,' B. 'Sophie Cecile,' B. 'Medora,' B. 'Templinii,' B. 'Dancing Girl,' B. 'Margaret Stevens,' B. 'Mrs. Schwisher,' B. 'Clara Elizabeth' and B. *alnifolia*.

These conclusions can be drawn directly from the experiments performed. However, there is an item of interest yet to be discussed.

In the June 1971 issue of the "Begonian" there is an article written about the use of "enzymes" to increase the growth of Begonia seedlings (12). Excessive use of this "enzyme" solution causes a great amount of proliferation. The same response can be observed when cytokinins are applied. Because cytokinins can be found in fruits and flowers, they may well be an active ingredient in the "enzyme" solution.

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# CONDENSED MINUTES OF THE ANNUAL MEETING OF THE BOARD OF DIRECTORS AND MEMBERS OF THE AMERICAN BEGONIA SOCIETY SEPTEMBER 24, 1973

The regular meeting of the Board of Directors was held on September 24, 1973, in the South Gate Auditorium, Wally Wagner, President, presiding; a quorum was present. After the opening ceremonies, the President introduced the new officers and presented his proposed nominees for appointed offices as follows: Membership, Norma Rike; Nomenclature, Rudy Ziesenhenné; Research, Carleton L'Hommedieu; Round Robin, Mae Blanton; Seed Fund, Pearl Bennell; Slide Librarian, Katharine Alberti; Public Relations, Peggy McGrath; BEGONIAN Editor, Marge Kirchoff; Co-editor, Edgar Bates; Circulation, Arnie and Edie Krupnick; Awards, Walter Pease; Business and Advertising, Jerry Rike; Historian, Alice Broadhag; Judging Course, Ruth Pease; and, Librarian, Lydia Austin. The appointments were confirmed by vote of the Board. No nominees for Parliamentarian and Show Chairman were presented.

The President proposed a change in format of the Board meetings designed to enable greater participation by all members of the Board, including those who are unable to attend due to geographical location. Five major committees were selected and each Board Member was encouraged to select an area of interest. The purpose is to preview correspondence and proposals relating to each area of interest, discuss the agenda items and make recommendations to the whole Board. Ever agenda item will be reported out at each meeting so that no item can inadvertently be overlooked. Items needing further study will remain on the agenda until Board action is taken. There was a consensus to approve the format for an experimental period of six months. It was noted that 60% of the membership is made up of "members at large" and decision was made that those interested would be organized so they might be able to express themselves. Vice President Charles Richardson was appointed to head a committee assigned to this task.

Minutes of the annual meeting were read, amended, corrected and approved. The Treasurer's report was given, adding receipts of \$2,537.98 to the balance on hand Aug. 1 of \$3,883.95; disbursements were \$1,675.58, leaving a balance on September 15 of \$4,746.35. Membership Secy. reported 230 new members, 222 renewals, bringing the total members on Sept. 18 to 2,946; funds received, \$1,949.39. Circulation Mgr. reported

3,195 Begonians dispersed; total expenses, \$72.74. Advertising Mgr. recorded gross receipts, \$64.50; unpaid accounts, \$27.00; there will be two new advertisers commencing with the Nov. issue. Judging Course Dir. reported income of \$37.60; expense, \$8.47. Other reports: The Round Robin Dir. noted ten flights came through on regular flight. The Research Dir. reported on three articles to appear in The Begonian soon. He also described the begonia display at the Royal Botanic Gardens in Kew, England. The Nomenclature Dir. announced much activity in new hybrid registration. The Parliamentarian reported the preparation and mailing of ballots for the Constitutional Amendments. The Show Chairman announced engraving had been completed on trophies. The Slide Chairman announced a need for slide donations. The Public Relations Chairman reported a new branch application from Garden Grove, California, and announced Philobegonia branch in Pennsylvania will be closing.

The incoming Seed Fund Chairman reported donations to start off this year's seed fund from Rudy Ziesenhenné, Gene Daniels, Margaret Lee and Sylvia Leatherman. After reading excerpts from a letter from the retiring Seed Fund Chairman, Florence Gee, the Board noted her many years of commendable service spanning two decades; the President stated he had written a personal letter of thanks to Mrs. Gee.

The Board broke up into Preview Committees according to the new procedure. When it was reconvened, the following reports were made:

**FINANCE:** Annual budget was presented and approved by vote of the Board. Other items discussed were: insurance policies, tax exempt status, and equipment and supplies inventories. Members: John Provine, Chrmn., Walter Barnett, Jerry Rike, Margaret Ziesenhenné.

**EDUCATION AND RESEARCH:** All items were indicated as needing further study: financing of the research fund (the committee sending letters to all branches soliciting either \$25.00 or proceeds from plant tables) a program on propagation for the slide library, and participation in the Sunset magazine seed fund. Committee: Pearl Bennell, Chrmn., Katharine Alberti, M. Carleton L'Hommedieu, Mae Blanton, Jack Golding and Rudy Ziesenhenné.

**LITERATURE AND PUBLICATIONS:** All items were indicated as needing further study: the Registry, Publication of Species and Hybrid Catalogs, promotional brochure for shows, the Cultural Bulletin previously approved (but no determination on number to be printed or budget), program suggestions brochure, Classification Guide and other publications. Members: Marge Kirchoff, Chrmn., Edgar

## EASTERN CONVENTION

(Continued from Page 253)

time and effort into the propagation display.

Awards were as follows:

Best in Show — Mr. and Mrs. Edward Thompson, *B. foliosa*

Sweepstakes — Arline Peck

Best cane — Corlis Engle, *B. 'Alzasco'*

Best shrub type — Mr. and Mrs. Edward Thompson, *B. 'Argentea-guttata'*

Best semperflorens — Elizabeth Schaefer

Best small leaved rhizomatous —

Bates, Lydia Austin, Doug Frost, Muriel Puz, Corliss Engle.

**MEMBERSHIP AND PUBLIC RELATIONS:** All items need further study: Constitutional revisions, membership roster update, magazine ads, memberships study, analysis of ABS ads in publications, new branches, complimentary subscriptions of the Begonian, and a request for help with a project for retarded adults (Bev Legge). Committee: Peggy McGrath, Chrmn., Norma Rike, Edie Krupnick, Arnie Krupnick, Chuck Richardson, Alice Broadhag, Rigmor Clarke.

**SHOWS AND CONVENTIONS:** Discussed need for explanation of the function of the Awards Committee and recommended this appear in the Begonian in a series of articles. The national show and convention was discussed with a reading of a letter from the Santa Barbara club to describe the facilities at the proposed site of the 1974 show. Letter will be sent to all branches as soon as the decisions regarding the show are confirmed. Committee: Walter Pease, Chrmn. Pro Tem, Walter Hansen, Margaret Lee, Lorraine Hansen, Ruth Pease, Wanda Elin and Evelyn Cronin.

It was noted that corresponding members from branches and officers in other areas (as well as other officers and branch representatives attending Board meetings in the future) will be added to committees as their interests are expressed. The President appointed a committee to count the amendment ballots; all ballots are to be in hands of the secretary by October 19, 1973. Ballot committee members are: John Provine, Peggy McGrath and Cecilia Grivich.

Respectfully submitted,  
Margaret Ireton, Secy.

Mr. and Mrs. Edward Thompson, *B. 'China Doll'*

Best medium leaved rhizomatous — Mr. and Mrs. Edward Thompson  
*B. 'Chantilly Lace'*

Best large leaved rhizomatous —  
Bea Hessel, *B. nelumbiifolia*

Best distinctive foliage rhizomatous — Frances Hoffman, *B. 'Mumtaz'*

Best Rex — Helen Cook, *B. 'Helen Teupel'*

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# BRANCH DIRECTORY

VISITORS ARE ALWAYS WELCOME AT THESE MEETINGS

## BUXTON BRANCH

3rd Saturday, Homes of Members  
Mrs. Raymond C. Cronin, Secy  
88 Ledgeways, Wellesley, Mass. 02181

## CONNECTICUT BRANCH

4th Sunday of each month  
Mrs. Priscella Beck, Secy.  
R D No. 1, Box 121,  
Mystic, Conn. 06355

## DALLAS COUNTY, TEXAS, BRANCH

3rd Monday, 10 a.m., Members' Homes  
Mrs. George W. Hopkins, Secy.  
1619 S. Beckley Ave., Dallas, Texas 75224

## EAST BAY BRANCH

2nd Thursday, 7:45 p.m., Willard School  
Telegraph at Stuart, Berkeley, Calif.  
Miss Carol E. Orpin, Secy.  
428 Norvell Street  
El Cerrito, Calif. 94530

## EASTSIDE BRANCH

4th Wednesday, 7:30 p.m.  
590 116th Avenue N.E., Bellevue, Washington  
Diane McElroy  
9010 209th Ave., N.E., Redmond, Wash. 98052

## EL MONTE COMMUNITY BRANCH

3rd Friday, Members' Homes  
Mrs. Gladys Mattuket, Secy.  
1801 Azalea Drive, Alhambra, Calif. 91801

## FOOTHILL BRANCH

3rd Thursday, 8:00 p.m.  
First Methodist Church, Marshall Hall  
3205 D Street, La Verne, Calif.  
Mrs. Marie Schmidt, Secy.  
1296 Prospect  
Pomona, Calif. 91766

## FORT, ELSA BRANCH

1st Saturday, 1:00 p.m.  
Miss Lola Price, Secy.  
628 Beach Ave., Laurel Springs, N.J. 08044

## GARDEN GROVE BRANCH

3rd Thursday, 7:30 p.m.  
Sunnyside School  
9972 Russell Ave. at Brookhurst, Garden Grove, Ca.  
Mrs. Millie Hinds, Sec'y.  
8752 Dewey Dr., Garden Grove, Ca. 92641

## GLENDAL E BRANCH

2nd Tuesday, 8:00 p.m.  
Glendale Federal Savings, 401 N. Brand  
Mrs. Katharine Alberti, Secy.  
3322 Troy Drive, Hollywood, Calif. 90068

## GREATER BATON ROUGE BRANCH

Mrs. John H. McKay, Secy.  
5116 Baton Rouge Ave., Baton Rouge, La. 70805

## HOUSTON TEXAS BRANCH

2nd Friday, 10:00 a.m.  
Garden Center, 1500 Herman Drive  
Mrs. B. A. Russell, Secy.  
5926 Jackwood, Houston, Texas 77036

## KNICKERBOCKER BRANCH

2nd Tuesday, 7:30 p.m.  
Horticultural Society of N.Y.  
128 West 58th St., New York  
Miss Margaret Huger, Secy.  
505 East 82nd St.  
New York, N.Y. 10028

## LONG BEACH PARENT CHAPTER

3rd Sunday, 1:30 p.m.  
Great Western Savings and Loan Bldg.  
6300 East Spring St., Long Beach, Calif.  
Eva Johnson, Sec'y  
704 E. San Antonio Dr., #3, Long Beach, Ca. 90807

## LONG ISLAND BRANCH

2nd Wednesday, 8:00 p.m.  
Planting Fields Arboretum  
Oyster Bay, Long Island, N.Y.  
Annette W. Boree, Sec'y  
8 Brown Road, Great Neck, N.Y. 11024

## LOUISIANA CAPITAL BRANCH

1st Friday, Sear's Garden Center  
6201 Florida St., Baton Rouge  
Mrs. J. S. Gremillion, Sec'y.  
1854 Cedardale, Baton Rouge, La. 70708

## MESQUITE BRANCH

Mrs. Billie Lyles, Secy.  
928 Calle Reale, Mequite, Texas 75149

## MIAMI BRANCH

4th Tuesday, 8:00 p.m.  
Simpson Memorial Garden Center  
55 South West 17th Road, Miami, Florida  
Rosamond Meriwether, Secretary  
1552 Placentia Ave., Coral Gables, Florida 33134

## MISSOURI BRANCH

3rd Friday, 11 a.m., Member's Homes  
Kansas City, Mo.  
Mrs. Glenn Lucas, Secy.  
Kansas City, Mo. 64109

## MONTEREY BAY AREA BRANCH

4th Wednesday, 8:00 p.m.  
Lighthouse and Dickman Sts., New Monterey, Calif.  
Mrs. Esther Eberle, Secretary  
240 Grove Acres, Pacific Grove, Ca. 93950

## NORTH LONG BEACH BRANCH

2nd Friday, 7:30 P.M., 5535 Stearns, Long Beach,  
Glendale Federal Savings and Loan Bldg.  
Barbara Welty, Secy.  
4741 Hazelbrook  
Long Beach, Calif. 90808

## ORANGE COUNTY BRANCH

2nd Thursday, 7:30 p.m.  
First Christian Church,  
1130 E. Walnut Street, Orange, California  
Dorothy Porter, Secy.  
19151 Lomita, Orange, Ca. 92667

## PORTLAND BRANCH

Mrs. R. D. Morrison, President  
5305 S.W. Hamilton St., Portland, Oregon 97221

## REDONDO AREA BRANCH

4th Friday, 7:30 p.m.  
R. H. Dana School Cafetorium  
135th St. and Aviation Blvd., Hawthorne, Calif.  
Mrs. Juanita Spunagle, Secy.  
4248 Mentone Ave.  
Culver City, Ca. 90230

## RHODE ISLAND BRANCH

1st Saturday, Homes of Members  
Miss Marcella Flynn, Secy.  
7 Fairfield Ave., East Providence, Rhode Island 02914

## ROBINSON, ALFRED D. BRANCH

2nd Tuesday, 10:30 A.M. Homes of Members  
Mrs. Frances King, Secretary  
3327 - 28th St., San Diego 92104

## RUBIDOUX BRANCH

4th Thursday, 7:30 p.m., West Riverside Memorial Hall  
4393 Riverview Drive Rubidoux, Ca.  
Dorothy Ansevis, Sec./Treas.  
4063 Opal St. Riverside, Ca. 92509

## SACRAMENTO BRANCH

3rd Tuesday, 8:00 p.m., Garden Center  
3300 McKinley Blvd., Sacramento, Calif.  
Mrs. Dora Hale, Secy.  
9770 Carmencita Ave.  
Sacramento, Ca. 95823

## SALINE COUNTY BRANCH OF KANSAS

4th Monday, 2:00 p.m., Homes of Members  
Mrs. George Smith, Secy.  
916 Park St., Salina, Kansas 67401

## SAN FRANCISCO BRANCH

1st Wednesday, 8:00 p.m., Garden Center  
Golden Gate Park, 9th Avenue and Lincoln Way  
Mrs. H. C. Banks, Secy.  
1279 35th Ave., San Francisco, Ca. 94122

**SAN GABRIEL VALLEY BRANCH**

2nd Friday, 8:00 p.m.  
Los Angeles State and County Arboretum  
501 N. Baldwin Ave., Arcadia, Calif.  
Mrs. Alice Broadhag, Secy.  
9619 Broadway, Temple City, Ca. 91780

**SAN MIGUEL BRANCH**

2nd Wednesday, 8:00 P.M., Porter Hall  
University & La Mesa Blvd., La Mesa  
Mrs. George Bayse, Sr., Secy.  
2347 Langmuir St., San Diego, Calif. 92111

**SANTA BARBARA BRANCH**

2nd Thursday, 7:30 p.m.  
Santa Barbara Museum of Natural History  
2559 Puerta Del Sol  
Miss Gladys M. Grant, Secy.  
460 Mountain Dr., Santa Barbara, Calif. 93103

**SANTA CLARA VALLEY BRANCH**

4th Thursday, 8:00 p.m.  
Northern Calif. S & L Assn.  
10250 South Sunnyvale-Saratoga Rd.  
Cupertino, Ca.  
Mrs. Elizabeth K. Sayers, Secy.  
369 Ridge Vista Ave., San Jose, Ca. 95127

**SEATTLE BRANCH**

3rd Tuesday, 7:00 P.M.  
Bethany Lutheran Church, 7400 Woodlawn Ave. N.E.  
Mrs. Ray Hodkinson, Secy.  
11257 Evanston Ave., No. Seattle, Wash. 98133

**SHEPHERD, THEODOSIA BURR BRANCH**

1st Tuesday, 7:30 p.m.  
Senior Citizens Bldg., 420 Santa Clara St.,  
Ventura, Ca.  
Mrs. Hattie Lee Keller, Secy.  
510 E. Yucca St.  
Oxnard, Calif. 93030

**SMOKY VALLEY BRANCH**

4th Thursday, 7:30 p.m., Members' Homes  
Mrs. Henry Flaherty  
606 South Third, Salina, Kansas 67401

**SOUTH SEATTLE BRANCH**

4th Tuesday, 7:30 p.m., Wm. Moshler Field House  
430 South 156th Burien  
Helen Harbord, Sec'y  
17859 S.E. 196th Dr., Renton, Wash. 98055

**TARRANT COUNTY BRANCH**

2nd Monday, 10:00 a.m., Members' Homes  
Mrs. R. M. Bennison, Secy.  
Rt. 2, Box 155 Dickinson, Texas 77539

**TEXASTAR BRANCH**

3rd Thursday, 10 a.m., Garden Center  
1500 Herman Dr., Houston, Texas  
Mrs. V. O. Harman, Secy.  
306 Cody, Houston, Texas 77009

**WESTCHESTER BRANCH**

1st Thursday, 7:30 p.m., Westchester Women's Club  
8020 Alverstone Ave., Los Angeles, Calif.  
Ramona Greb, Secy.  
441 Hillside Lane, Santa Monica, Ca. 90402

**WESTERN PENNSYLVANIA BRANCH**

2nd Wednesday, 11:00 a.m. every other month  
Pittsburg Garden Ct., 1059 Shady Ave., Pittsburg, Pa.  
Mrs. Genevieve Allison, Secretary  
221 Schaffner Rd., Butler, Pennsylvania

**WHITTIER BRANCH**

1st Thursday, 7:30 p.m.  
Palm Park Community Center  
5703 South Palm Avenue, Whittier  
Miss Anne Rose, Secy.  
14036 Ramona Drive, Whittier, Calif. 90605

**WILLIAM PENN BRANCH**

4th Tuesday, Noon Homes of Members  
Mrs. Stuart J. Bracken, Secy.  
727 Mt. Moro Rd., Villanova, Pa. 19085

## CALENDAR

On Wednesday, November 14, 1973, 7:30 p.m. at Planting Fields Arboretum in Oyster Bay, Long Island, New York, Marie Donnelly will speak on cane begonias. Hank Euler will discuss "Earl-ee-Bee," the Begonia of the Month. We will also hold an auction for the benefit of the Research Fund. Plans are underway for the Ninth Annual Eastern Convention of the American Begonia Society which will be hosted by the Long Island Branch. Dates are September 13, 14 and 15, 1974 at the Holiday Inn in Hempstead, Long Island, New York.

November 27, 1973 — Miami Begonia Society. Covered dish supper. Installation of Officers. Christmas Party.

November 30 — Redondo Area Branch — 7:30 p.m. Installation of officers. Annual 'Whoopee Party'. There will be a donation Harvest table of baked goods. Refreshments. Visitors are always welcome.

December 28 — Redondo Area Branch — No meeting.

## BEGONIA BOWERAE FAMILY

(Continued from Page 244)

this month's cover, which I named *B. bowerae* var. *nigramarga* because each of the seven main whitish veins of the leaf is margined on both sides with a black band. There are finer, more distinct teeth on the leaf margin of the variety *nigramarga* than on the species *B. bowerae*, but the leaves are about the same size.

An article in greater depth regarding this plant will appear in next month's The Begonian.

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