

The BEGONIAN



MAY, 1970

Devoted to the Sheltered Garden

VOL. 37 NO. 5



Leaves of B. 'Aqua Marine'

Photo by Gene Daniels, Black Star

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

OUR COVER STORY

Begonia 'Aqua Marine' is a most distinctive and different *Begonia* that should be in everyone's collection. The entire plant could not be photographed for our cover as it is in a 10" x 10" container of redwood spreading out to 22" and too much of the detail would have been lost. The pattern of the leaves is the most striking attribute of this rhizomatous *Begonia*. The rhizomes in contrast to most other rhizomatous types is only ½" in diameter, dark red, brownish near the soil surface, branching so freely that they soon extend over the sides of the container making it a good subject for a totem pole or basket. The rhizome does not root readily on the soil surface but likes to grow horizontally over the soil. When this *Begonia* was first exhibited in the annual Convention Show in 1965 it was grown on a totem pole.

Aqua (water) and marine (of or pertaining to the sea) adequately describes the color of the 6" x 4" leaves which are a sea green etched silver along the slightly elevated emerald green veins. The shape of the leaves is ovate, tapering to a long point with the silver extending the entire length of the point. Sometimes the leaf is obscurely lobed. The back of the leaf is tomato red and in bright light, the red shines through to the surface giving the silver a pink cast. The petioles are

about 6" to 10" long, holding the leaves erect, entirely hiding the rhizome. The flower stalks appear near the ends of the rhizomes and are longer than the petioles, holding the flowers well above the foliage. The flowers are greenish in bud with reddish freckles on the outside of the petals and ovary. The male and female flowers are two petaled, ivory white, sometimes pink tinged.

Begonia 'Aqua Marine' was hybridized by Mrs. Suzie Zug in 1952, registered in 1954 (No. 98), as a cross of *B. ludwigii* x *B. 'Silvadore'*. *B. ludwigii*, a species, has been around for a long time, discovered in Ecuador in 1837, although not universally grown. It is an upright rhizomatous which may account for the disinclination of the rhizome of *B. 'Aqua Marine'* to root as it grows along the soil. *B. 'Silvadore'* is a seedling of *B. rigida*, a species, and has a lobed leaf, heavily overlaid with silver on the surface, with a red back from which *B. 'Aqua Marine'* inherits the silver on the surface and the red on the back.

The leaf just below left center in the picture shows the typical pattern of the leaf surface and the small lobe on the left side and the silver overlay reaching to the tip of the apex of the leaf. The leaf just above center shows the reverse of the leaf with the white veining fading out entirely ½ way to the edge of the leaf.

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* and companion plants;

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*.

AWARDS NOMINATION TIME IS HERE

by Hazel Snodgrass, Awards Chairman

Each year at the Annual Convention and Show three awards are presented. They are the Eva Kenworthy Gray Award which is presented to a person who has contributed original literary material which aided members in their study of *Begonias* or who has been outstanding in the promotion of interest in the culture of *Begonias* and the creation of good will and understanding between members in their search for knowledge of *Begonias*. The person need not be a member of the ABS.

The Herbert P. Dyckman Service Award is presented to a person who has rendered outstanding service to the ABS.

The Alfred D. Robinson Memorial medal is awarded for an outstanding *Begonia* hybrid. The rules governing the award of the medal are as follows:

1. All *Begonia* nominees must have been registered with the A.B.S. Nomenclature Director.

2. The originator of the *Begonia* nominee must be a member of the A.B.S.

3. The *Begonia* nominee must have been released to the public for at least five years, but not more than ten years prior to nomination.

Nomination for the Eva Kenworthy Gray Award and the Herbert P. Dyckman Award must be accompanied by a list of specific reasons why the nominees are deemed worthy to receive the award for which he is nominated and no nomination will be considered without such a list.

Please keep these rules in mind when making your nomination to any of the following members of the Awards Committee:

- Mrs. Hazel Snodgrass, Chairman
265 North Walnut Dr., Ventura, Calif. 93003
- Rudy Ziesenhenn
1130 N. Milpas, Santa Barbara, Calif. 93103
- Herb Warrick.
6543 26th Ave. N.E., Seattle, Wash. 98115
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514 Shipley Road, Linthicum, Md. 21090
- Mrs. Margaret Lee
1852 31st Street, San Diego, Calif. 92102
- Mrs. Carrie Karegeannes
3016 Lake Blvd., Annandale, Virginia 22003

Recipients of the Eva Kenworthy Award

Mrs. Bessie Buxton	1955
Miss Charlotte Hoak	1956
Miss Constance Bower	1957
Mrs. Alice Clark	1958
Mr. Rudy Ziesenhenn	1959
Mrs. Louise Schwedtfeger	1960
Mrs. Helen K. Krauss	1961
Mr. Bert Slatter	1962
Mrs. Bernice Brillmayer	1962
Dr. Clyde Drummond	1963
No Award	1964
Mrs. Mary L. Gillingwaters	1965
Mrs. May Taft Drew	1966
Mrs. Sylvia B. Leatherman	1967
Drs. Lyman Smith & Bernice G. Schubert	1968
Mr. Harry M. Butterfield	1969

Recipients of the Herbert P. Dyckman Award

Mrs. Florence Gee	1968
Mr. Herb Warrick	1968
Alva Graham	1969
Mrs. Edna Korts	1969

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MY LIFE WITH HOUSE PLANTS FOR OVER ONE HALF CENTURY

by Bessie Warrick, *Seattle, Washington*

The above title may seem a bit exaggerated but it is true! I began growing house plants when I was a very young girl. To me plants seemed like things of magic and I could hardly let them out of my sight. Just to handle them and care for them was a joy de luxe. My best friends were the people who gave me small plants or cuttings (they were called pieces or slips in the old days) of some strange plant that I could grow in the house. My mother often complained about my mess of "House trees". Many times she would tell Dad, "If our house caught fire, the first thing our Bessie would do would be to try to save her house plants". Probably I would have done just that.

She even suggested that I had better marry a man, when I grew up, who also liked plants or I could never get along in my future home. Well, that did happen, fortunately, and I have continued to like and grow house plants all through my many years. It will be a sad day for me when the time comes that I cannot handle and admire my plants, even my wonderful grandchildren do not lure me away from my plants for very long periods.

I would like to tell you all about the little cultural details of growing my plants but I would be writing and talking for years. Instead, I will generalize on the plant types and their features. For many, many years I did not realize that there were many interlocking environmental factors in plant response. The potting soil was garden dirt; the

barnyard was a source of stuff that helped out plants; humidity was never discussed but the steaming tea kettle seemed to help in winters. We also knew that in cold weather we had to keep the wood burning stove going all night with the plants nearby; in the daytime we had to get those plants near the windows and of course away from the frost on the glass; the pots for plants were any old tin cans or rusted out enamel kettles; our source of water was the old rain barrels; any bugs on the leaves seemed to leave when we set our plants outdoors or if we doused them with soap suds; whenever our plants became lanky and awkward in shape we just broke off a few pieces, often times for friends; for good air around our plants the cracks around the windows and doors seemed to take care of everything for plants, pets and people.

From those early days to our current years there have been many changes. For the plant admirers and hobbyist all changes have been improvements, in the main. Our botanical knowledge has increased enormously. Likewise, our understanding of plant physiology has given us more confidence in caring for our plants. One often wonders why, if we now know so much and after having seen most of the world's common plants, we do not tire and become satiated with the company of our plants.

Well, after 50 plus years of working with plants, I can tell you why I do not tire of them. I find that

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nature is inexhaustible in its variations in plants; their structures, their physiology and their adaptability to mutations and also to men's developmental ideas in hybridization and progress through selective perpetuation of desirable characteristics.

Specifically, my house plants have been selected from among about 25 adaptable plant families. And among these plant families I find that about 75 plant genera are represented in my collection. I have over 300 species and hybrids among these genera. Also among my collection I notice that most of my plants are from the tropical and sub-tropical climate habitats. From these climates comes my desert plants (cacti), and jungle plants, (*Begonias*, *Fuchsias*, ferns, orchids, *Ficus*, *Marantas* etc.) In addition I have a few plants from the temperate climates. These plants have a built in ability for dormancy in winter if needed. These include some azaleas, some cacti, some ferns and some sedums.

To grow any or all of the common tropical, sub-tropical and temperate climate plants all a person needs is an interest, a general knowledge of their habitats and also the space and controls that must be provided for the environmental factors. A grower must provide adequate light, either natural or artificial. Usually a range of 200 to 500 candles is sufficient. The peak of natural light in summer must be reduced somewhat to prevent burning of foliage. An ambient temperature in the 60 to 80 degrees range is ideal. Experience with house plants will show which part of this temperature range is preferred by any selected plant.

Except for various genera in the

cactaceae family most plants with continuously growing leaves like a warm, humid air around them.

Then except for some of the plants which have an epiphytic tendency most house plants like a loose, light soil, of the leafmold type, in which to grow their roots. The tree dwelling epiphytic plants like a still looser and more airy material surrounding their roots. Many orchids do well in fir bark or osmunda fiber. Cacti like a large percentage of sand around their roots. Studies of certain plants indicate that some even like a soil medium with an alkaline tendency, but most plants like a neutral or slightly acid soil such as is obtained with the use of most of the leafmolds.

Watering and feeding of plants are two of those "gauge by eye" techniques. A grower's experience is a fairly good guide for watering. Hobbyist should talk to other growers about feeding and watering methods. From the wide variations in this cultural work you can select the best method for your own plants.

The old superstition of a "green thumb" talent was exploded long ago. Now the better growers develop experience and knowledge with all cultural factors.

For a general article about house plants this one should end about here. Every other cultural detail can be expanded at another time in separate articles for each.

E. W.

Reprinted by permission from the Eastside Begonia Society publication, the "SHADY NEWS".

A subscription to "The Begonian" would make a nice Birthday gift or a Gift for any occasion.

ATTENTION!

The following are changes in the rules for the 38th Annual Show.

HYBRIDIZERS

New *Begonia* introductions must have been in cultivation for at least 36 months and may not be entered in competition from June 1, 1970 until this years National Show.

BRANCHES

Rules for Shade Garden Displays have been changed to allow the exhibitor to use his discretion in the decision as to size and shape of the floor garden. Written notification of intention to enter a Floor Garden Display must be sent to the Show Chairman, Everett Wright, by June 15, 1970. Three classes are available for Shade Garden Displays:

- Class 1, Floor Garden Display
- Class 2, Educational Display
- Class 3, Individual or groups of individuals, Floor Garden Display.

Bronze leaf Double Begonias: Lady Frances (pink), Carol (red), Carmen (rose)

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SHOW GO-ROUND

The title of this article was chosen after I almost fed my family the sterilized plant medium instead of the spaghetti. We are going around in circles, around to meetings, around in discussions and getting rounder from eating all the "goodies" at the meetings.

We are trying very hard to make this a successful National Convention and Show, but we can't do it without the help of those who have presented the Show so well in the past and the ideas of the new members.

The Convention and Show will be held August 15 and 16, at the Ventura Fair Grounds (next to the beach). We expect the weather to be sunny and mild, there will be a picnic spot for a bring your own lunch or enjoy the food from the ABS Snack Bar.

The annual Convention Banquet will be held at the Ventura Women's Club with a beautiful view of the city, coast and sunset.

If your Branch has the "doldrums" plan now to spice it up next year by hosting the National Convention. I can guarantee that if any member forgets a meeting or has time to sit still he will get an extra job—mine!

If you have any suggestions for the show, send them to Everett Wright, Show Chairman or myself.

Jan Dacayana

Theodosia Burr Shepherd Branch

4002 Madison Street

Ventura, California 93003

A.B.S. CONVENTION & SHOW
AUGUST 15-16, Ventura, California

CLAYTON M. KELLY SEED FUND

Instructions —

“*Begonias from Seed-Sowing and Growing*” gives step by step easy-to-follow instructions and encouragement for beginning seed growers. Price 25 cents per copy.

No. 1 — *B. mannii*

Africa. The “rose-leaf *Begonia*” — impersonator with branches like climbing rose canes; leaves similar to the hybrid teas; unusual flowers without typical *Begonia* ovaries, white with red streaks, and hugging tight to the stems. Nice in baskets. Price \$1.00 per pkt.

No. 2 — *B. paranaensis*

Brade. New from Brazil found growing near Aguas de Prata at an elevation of 2,900 feet. Belongs to the *Pritzelia* subgenus. Medium growth, with thick stems, large leaves with dentate margins. Huge white flower clusters in earliest spring, lasting for several weeks. Fruits have one very long wing. Plants have a new stout stem each year from the ground, but flowers on last year's growth. Price \$1.00 per pkt. See cover picture November 1969 “The Begonian”.

No. 3 — *B. 'Maphil or Cleopatra'*

(*boweri* seedling) Lovely, easy to grow *Begonia* with well-mannered growing habits — can be restrained to pot or basket. Handsome foliage — satin stars with sharply marked veins, artistically spattered between with gold or chartreuse and chocolate-brown, dainty sprays of baby-pink flowers. Price 50 cents per pkt.

No. 4 — *B. 'Heracleicotyle' or 'Mrs. Townsend'*

(*B. heracleifolia* x *B. hydrocotylifolia*). Large, seven pointed star leaves of fresh, clean green. Beautiful deep pink flowers. Price 50 cents per pkt.

No. 5 — *B. sc sempfloreus*

Double, from England. Price 50 cents per pkt.

No. 6 — *B. 'Amsterdam'*

Found growing on banks of canal in Amsterdam, Holland — white flowers. Price 50 cents per pkt.

No. 7 — *B. richardsiana* x *dregei*

From England and is reported to have produced some highly interesting plants. Price 50 cents per pkt.

No. 8 — *B. epipsila*

Brazil. Thick, polished, leathery green leaves coated with red-brown wool underneath. Grows low; droops attractively. Showy ovaries on white flowers. Price 50 cents per pkt.

No. 9 — *B. 'Tom Smith' x B. subvillosa*

Seed came from England with no description. Price 50 cents per pkt.

Gynura

Also called ‘Velvet Plant’ — This is a trailing plant that makes a beautiful hanging basket for the green house. Leaves are medium, slightly cut and keep purple, with violet or purple hairs and purple veins; orange-disk flowers. Not to be confused with the upright plant by the same name. Seed will germ-

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inate with warmth in about three weeks. Price 50 cents per pkt.

Please Note: We very often have requests for live plants — we do not have the proper license or tags to mail plants — we sell seed only so please save the Seed Fund the extra work of writing a separate letter of explanation.

Due to the confusion in mail service we did not dispose of all seed that were offered in the March "The Begonian". The following are still available and we hope you will take advantage of this second offer especially Rex type as it will be several months hence before they are available again. *Semperflorens* types are not available but hope to have new ones later.

From March "The Begonian"

B. lubbersii

Brazil. Accidentally introduced in 1880 to the Botanic Garden of Brussels, Belgium, on a tree fern.

In its native home it is said to become five to six feet tall, but in cultivation it rarely exceeds twenty inches although some are grown here in California that attain a height of three feet or more. Stalks are cylindric, slender, slightly swollen at the nodes, erect, reflexed at the top, smooth and green, later becoming brown and rough. Leaves are entire, glabrous, peltate, rhomboidal, obliquely lanceolate, the upper lobe short and acuminate, the lower elongated and slightly wavy. They are two inches wide and six inches long, the upper face very dark green, chatoyant and sprinkled with silver spots, which often disappear with age. The lower face is smooth and dark carmine. The patiole is fleshy,

short, cylindric, glabrous, pinkish and upright. The stipules are quite large, entire and grow against the stem, where they remain after they dry up.

Inflorescences are in the axils of the upper leaves and usually of six flowers which droop on short green peduncles and pedicels. Seed pods are light green and very large. Price \$1.00 per pkt.

B. Rex Hybrids

From some of the choicest plants grown — contains B. 'Lady Frances Jean' (Name was incorrect in March) a beautiful, large, spiral rex, hardy outdoors where climate permits. Developed by Leatherman's Gardens in El Monte, California. Also, the lovely B. 'Curly Silver-sweet', developed by the Lees of San Diego, California. This is a most versatile plant that can be grown with a piece of fern wood for support and can grow up to two feet tall, has spiral leaves silver on top and maroon underneath. Price \$1.00 per pkt.

B. sutherlandii

South Africa. Slender; stems and branches drooping, green or purplish-green; leaves lance-shaped, toothed, bright green, sometimes red-petioled and red veined; flowers yellow to orange. Graceful and suitable for hanging. Price 50 cents per pkt.

B. fernandoi costae

Eye-stopping *Begonia* with fleshy-green, cupped, roundish leaves; inconspicuous hairs; white flowers, tendency to trail; might be good in baskets and will grow slightly more moist. Price \$1.00 per pkt.

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B. tomentosa (means "Wooly")

Brazil. Thick, succulent leaves of rich green with downy hair beneath, pink-rimmed white flowers with short red whiskers — Pretty. Price \$1.00 per pkt.

B. 'Azellia'

Cane type that has produced some very interesting plants — large clusters of pink flowers, leaves sometimes cut and silver spotted. Price 50 cents per pkt.

Bromeliads

Aechmea luddenmanniana —

Arching green leaves. The panicle is crowded with lavender flowers maturing into a dense head of blue and white berries that eventually turn purple and last for months. A good house plant or can be grown out doors in mild climates. Germination one hundred per cent in seventeen days. Price 50 cents per pkt.

Canistrum lindeni var roseum

Not as easy to grow as some other Bromeliads but their handsome foliage makes them highly decorative. This one has rose-colored bracts and white and green flowers. *Canistrums* are highly recommended. Price 50 cents per pkt.

Billbergia venezuelana

Tubular species with leaves patterned with chocolate brown and silver bands, a startling combination. The scape is equally bold, laden with broad usually pink bracts and purple petals. Grows dry. Price 50 cents per pkt.

Mrs. Florence Gee
Seed Fund Administrator
234 Birch Street
Roseville, California 95678

ROUND ROBIN NOTES

Interest in high in flights, new members are being added and spring is in the air.

Kusler Plants:

Hazel Harmon, Ottawa, Kansas likes the way B. 'Martha Floro' grows, it is different. The flowers are very large, ovaries are red and flower part is pink with a fragrance that is noticeably different. B. 'Marjorie Sibly' has leaves almost black, flowers are white with now and then a dash of pink with a lovely fragrance. B. 'Margaret Stevens' is fine and in good shape. She cut it off before it got too tall and it branched very nicely. She says she never waits for a shoot at the base before she cuts, just goes ahead and it will break at roots. B. 'Peggy Stevens' was beautiful in the fall and bloomed continually, then it lost all its leaves; she took a tip cutting, it is growing and the old plant is beginning to grow too (in March). She wonders if it didn't like her basement in the winter. B. 'Margaret Stevens' was up in her room where it is very warm and very light. B. 'Freda Stevens' is not dark leaved like the other two Stevens, leaves are well spotted and spots are sort of iridescent. She has a small plant of it which she has been coaxing from a leaf for the last two years. B. 'Rosalie Wahl' looks better than usual and has large bunches of bloom. B. 'Grace Lucas' is frustrating, most of the time when a plant sends up a new shoot from the pot the other shoot will eventually die back. So she usually takes a cutting and then start it rooting and you know what, yes it roots and when it is potted the cutting will die back

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and sprout up from the root. It makes a nice plant but can keep you guessing. B. 'Lil O'Neil' seems to bloom all the time and makes no new growth so she took off all the flower buds as they appeared so hopes it will start to grow.

Winter Blooming Begonias:

Lucille Peck of Union City, Michigan grows the winter blooming B. 'Glory of Cincinnati', B. 'Melior' and finds when grown in a hanging basket the flowers will make a curtain around and below the basket for months but must be cut back by June or they will literally bloom themselves to death. They will make new growth through the summer and bloom again the next winter. B. 'Marina' is very similar but she had not had it too long. B. 'It' is more of a rex type but grows upright for awhile then gracefully bends over with the weight of its flowers but never really hides the basket like other basket *Begonias*. B. 'It's' leaves are green with white spots, more rex type, the other two are typical *socotrana* hybrid type.

Yellow Bloom:

Pat Burdick of Burnsville, Minnesota has a terrible time growing B. *staudtii*. She started it from a leaf, it took months to send up plantlets, most of them died when she transplanted them. All those in the greenhouse died but she has one in a glass bowl in her home. It is not really a lovely plant, it has light green crinkled leaves with a few hairs here and there but those yellow blooms are really something. Pat is growing B. *quadrialata* cold in her greenhouse, it has bright yellow flowers much the same as B. *staudtii*. She was trying to root a leaf in December.

Growing from Seed:

Pat reports that she has B. *paranaensis* like on November 1969 "The Begonian" cover under the name Brazil No. 1.

Grace Shatto of Idaho Springs, Colorado reported seed germination: B. *engleri* in 8 days, B. *incana* in twelve days, B. *josephii* in twenty days, B. *sanguinea* two in eighteen days but finally had twenty five seedlings.

John Yochum, Princeton, Indiana reported good germination on ABS seed (January) of: B. 'Decorus', B. 'Flamingo', B. 'Jill Adair' selfed B. 'B.K.W.', and B. 'Pink Parade'. Fair germination on B. *acaulis*. From February seed fund: Good germination on English semp seed, B. *richardsiana* x B. *dregei*, B. 'Prince Charming' x B. 'Pink Parade', B. 'Kallaking' selfed, B. *kellermannii*, B. *palmaris*, and B. *subillosa*. John still has twenty seedlings of B. *socotrana* but reports they are slow.

Propagation:

Mae Blanton of Mesquite, Texas uses a mix of perlite and vermiculite for rooting many *Begonia* leaves. She says to use it over and over, the more you use it, the more the rooting enzymes build up in the mix and the easier it is for roots to form. She has also rooted many a leaf in just plain water but thinks rain water or distilled water is best to use. Have bottom of stem hanging into the glass just barely into the water (making roots reach for water); never let the bottom of the leaf touch the bottom of the glass as this will cause it to rot more easily. Better yet, fill glass about half full of perlite and vermiculite and fill with water about halfway up the

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mixture and insert leaf stem in this. Some growers have good luck by just breaking the leaf off the plant but she prefers to make a clean slanting cut with a sharp knife or razor blade (a clean one). On a rex leaf, if you notch it (the stem) one-third of the way up on one side and two-thirds of the way up on the other side, roots will form at these places too and give you more plantlets. Another thing to remember to do to be successful is to wipe or cut with a shaving motion all the hairs from the part of the leaf stem that you insert in medium or water. She prefers a medium sized leaf from the plant rather than a small one or too large (but sometimes she has to take rooting wedges of an old leaf of a plant on its way out).

Terrariums:

Mae agrees that the reason some *Begonias* like terrariums is that they resent air currents but feels there is another reason for their preference for terrariums and that is, it protects them from any sudden change in temperature. The change in temperature of a terrarium is very gradual -- if you've ever put your hand down into one after the temperature had suddenly dropped in the room, you will find that it is still warm. She feels most *Begonias* resent drafts but like an exchange of fresh air.

If you want to be a part of our Round Robin Groups, tell me how you grow *Begonias*, your interests, flights you would like to join and write:

Anita Sickmon
Round Robin Director
Route 2, Box 99
Cheney, Kansas 67025

BEGONIA SEED STORAGE

Dr. W. G. McGregor

Amateur *Begonia* growers frequently do not wish to plant all the seed that comes in the seed packet. The question then arises as to a method of storage. In an experiment at the Montreal Botanic Garden* seed of two unspecified varieties of *Begonia semperflorens* were divided into three parts and stored at room temperatures as follows: (1) in a brown paper seed envelope; (2) in a waxed paper within a polythene envelope; (3) in an envelope of thin polythene inside a paper seed envelope which was then wrapped in aluminium foil (type used by florists) and sealed airtight with adhesive plastic tape. Each batch was again divided into three parts which were sown during the first week of December for three consecutive years. The germination percentage of seed stored by method (1) and (2) were markedly reduced in the second and third years and in fact no seeds in the waxed paper wrapping germinated in the third year. Seeds stored by method (3) gave the highest percent germination in the first year and this rate remained almost unchanged in the following two years.

This experiment indicates an advantage in air-tight storage. I have stored my seed in small vials with cork stoppers. I place these in a small plastic box and store them in the kitchen refrigerator. Seed collected in 1964 of the french variety B. 'Lumineux' has given good germination now for the past six years.

*Bisaillon, A. Experiment on preserving seed vitality of *Begonia semperflorens*. *Plant Propagator* 1968; 14, (1), 3-4.

PHOTO DIVISION OF THE SHOW SCHEDULE

The show schedule for the A.B.S. 1970 Begonia Show will have nine classes in two divisions for photographs.

A division for photographs of *Begonias* will include the following classes open to anyone regardless of geographic location: (print size 3½" x 5" x 7". Slides mounted in 2" x 2" cardboard frames).

1. Black and white print of a single *Begonia*.
2. Color print of a single *Begonia*.
3. Color slide of a single *Begonia*.
4. Black and white print of three *Begonias*.
5. Color print of three *Begonias*.
6. Color slide of three *Begonias*.

The second division will be for photographs of Branch Garden Displays and Education Exhibits and will include three classes open to Branches outside a 100 mile radius of the show: (print size 5" x 7" or 8" x 10").

7. Black and white print.
8. Color print.

Each photograph should have the name of the plant or plants (spelled correctly and printed legibly) on the back of the print followed by the name and address of the exhibitor. Slides should be placed in an envelope (one slide per envelope) with this same information enclosed on a separate piece of paper.

A self addressed stamped envelope must be enclosed if you want your pictures returned. Pictures which are not returned will be used in the Historian's book, "The Begonian"

WE'RE SORRY ELDA!

We regret to announce that our Contributing Editor, Elda Haring's monthly article on *Begonias* will not appear this month. Following is an excerpt from a letter sent to the Editors:

"We had bad news from home that the gas company which usually automatically fill up the gas tanks for heating my greenhouse, failed to deliver and on one of those zero days in January everything in the greenhouse was frozen. I have a friend who goes over every other day to water my plants. I was particularly distressed for this year I had about 125 really handsome specimens of *Begonias*. Some of them would be difficult to replace — not to mention the fact that some of them were grown from seed and took years to produce such lovely specimens. I also had collections of ferns and succulents and a large number of small plants — some new *Begonias* I had just received by mail order before we departed for Florida".

This is truly a heart breaking occurrence and the Editors sincerely wish that Mrs. Haring will be able to resume writing for "The Begonian" in the near future.

or the Slide Library.

Photo entries must be received by July 25, 1970. Mail your entries or questions to:

Mrs. Irene Grannell
1431 Coronado Terr.
Los Angeles, Calif. 90026

HOW TO MOLD A CONTAINER FROM PLEXIGLASS FOR WICK WATERING

by Oldrich Otypka, *Minneapolis Minnesota*

Plexiglass is a very versatile material with many uses. In sheet form it replaces glass in glazing where safety is important. It can be cut and drilled like wood and when heated it behaves like rubber. In this state, when hot, it can be formed into many desired shapes.

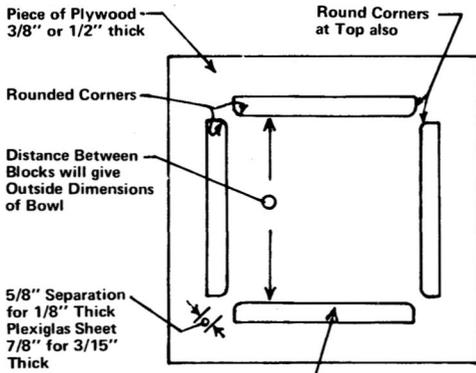
Since plexiglass is much harder than wood, cutting with a hand saw is very tedious (except for very small cuts). A circular or band saw with fine teeth does a much better job. After cutting all edges and corners, smooth the cuts with sandpaper. The fabrication of plexiglass generates electricity which attracts and holds dust, lint, and filings. Wiping with a cloth does not help; on the contrary, it generates more static electricity. After the fabrication is finished, plexiglass should be washed in water with detergent (not soap) and wiped clean.

The bowls for wick watering were formed from sheet plexiglass, one eighth inch and three sixteenth inches thick. A square of plexiglass 9" x 9" yielded a bowl 5" x 5" and 2" high (50 cubic inches content). A 11" x 11" square yielded a bowl of 100 cubic inches content and dimensions of 7" x 7" x 2" high. The form for the bowls is a very simple one, made of wood, as shown on the sketch. Squares of plexiglass are heated in the kitchen oven at temperatures of 320 to 360 degrees F. (Heated plexiglass has to be handled with gloves, the silicone treated pot holder type are the best.) When the plexiglass is pliable and

soft, remove from the oven and center on top of the form. With a plunger, push the plexiglass down into the form. Hold the plunger in the form for 3 to 5 minutes in which time the plexiglass cools down sufficiently to hold the shape into which it was compressed. After 3 to 5 minutes, remove the plunger but leave the bowl in the form for another 2 to 3 minutes to cool down more until you can remove the bowl from the form with your bare hands. During the first few minutes of the forming period, when the plexiglass is still pliable, it is possible to straighten the walls of the bowl at the corners so they are all the same height. If you are not successful, nothing is lost. Remove the bowl from the form and put it back into the oven. Within several minutes the unsuccessful bowl will straighten into a flat sheet. This phenomenon is called "Elastic Memory". Such reheating of poorly shaped bowls can be repeated as often as necessary until a perfectly shaped bowl is achieved.

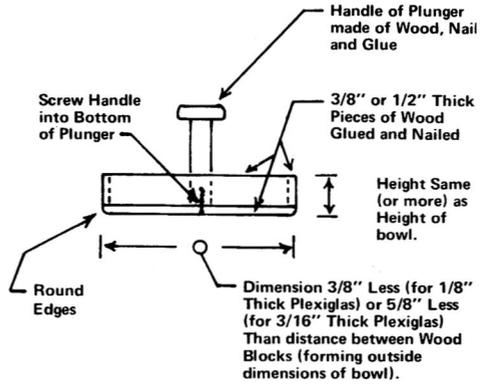
Plexiglass is a fairly expensive material if bought new from a dealer. Clear plexiglass 1/8" thick cost about \$1.20 per square foot. Colored plexiglass is 17 cents more. It comes in big sheets so it is possible to buy any size you want and dealers will cut it for you into desired pieces. Scrap plexiglass is cheaper purchased from fabricators or plastic scrap handlers. Scrap plexiglass is 10 cents to 15 cents per

(CONTINUED)



Glue and Nail 4 Wood Blocks to Plywood. Height of Blocks must be same as Height of Bowl (or more).

Detail of Form



Detail of Plunger

SKETCH OF FORM FOR PLEXIGLAS BOWL

pound. If the plexiglass fabricator is also a dealer, the cost will be much higher. Since a 50 cubic inch bowl weighs 8 ounces and a 100 cubic bowl weighs 11 ounces, you can

make your own plexiglass bowls for a modest sum.

(Editors note: The plexiglass bowl on which B. 'Bow Chancee' is receiving wick watering, pictured in the April issue, page 79, was hand crafted by Mr. Otyпка.)

"DEAD DRUNK SLUGS"

Reprinted from the February 1970 issue of the "Shady News" as quoted from "Time" magazine, February 9, 1970 issue

FLASH: The Department of Agriculture has just discovered how to banish pests without lethal insecticides like DDT. "Beer, either fresh or stale", reports the department's recent newsletter, "is substantially superior to other bait compounds used to control slugs, one of the most troublesome pests infesting farms, gardens and greenhouses."

Entomologist Floyd F. Smith made the discovery after experiments with various slug killers. In

a four-day test, he found that the standard bait, metaldehyde (which must be mixed with arsenic) attracted and killed only 28 slugs. Even then, the chemical caused the slugs to slug back: reacting to the poison, they exuded "copious quantities of slime" that Smith describes as "revolting to householders". By contrast, a shallow pan of beer lured 300 slugs: they sipped, then slipped, and happily drowned in the brew without a fight.

WHAT IS A BEGONIA?

The botanists have divided up the plant kingdom into four divisions:

1. Thallophyta — the bacteria, algae and fungi.
2. Bryophyta — the mosses and liverworts.
3. Pteridophyta — the ferns and their allies.
4. Spermatophyta — the seed plants.

We can now see that any plant which we think might be a *Begonia* will probably be in Division 4 because it has flowers and seeds.

The next separations under Divisions are grouped as subdivisions I and II. Subdivision I contains the plants with so called naked seeds, such as the conifer trees. Subdivision II contains the plants with seeds which are covered in some enclosed manner, as in seed pods. *Begonias* are in this subdivision II which is called the Angiosperms.

This Subdivision is then divided into two classes of plants according to the manner in which their seeds start young plants, namely those with one first leaf called Monocotyledons and those with two first leaves called Dicotyledons. *Begonias* are in Class II, the Dicotyledoneae. This class is also divided into subclasses I and II, the Archichlamydeae and the Metachlamydeae, respectively. The *Begonias* are in Subclass I. Sub-class I is further divided into orders 22 through 45. The *Begonia* is in Order 42. The orders are further separated into various numbers of plant families. Order 42 contains 16 families. The *Begonia* is in Family *Begoniaceae*, the 16th in Order 42.

It is interesting to note that the

place of the *Begoniaceae* in the natural system of taxonomy has been changed nearly twenty times and probably still is not final.

The families are divided into genera. The *Begoniaceae* family is divided into four genera of which one is the genus *Begonia*. Whew! You though we'd never make it. Each genus is divided into species of which approximately 1000 have been described. The species themselves are further classified by sub-species, varieties, forms, hybrids, mutations, etc. — all closely related. All of which makes one feel that if someone says "It's a *Begonia*", you'll probably have to take his word for it unless your name is Rudolf Ziesenhenné

Reprinted from the February 1970 issue of the "Shady News" with permission. Excerpts from a letter written by Herbert Warrick to Harle Peterson along with a few additions from past issues of "The Begonian".



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Learn about these by joining the American Gesneria Society; Receive the beautiful in color G.S.N. publication. Membership dues \$4.00 a year.

Mail to: AMERICAN GESNERIA SOCIETY, Worldway Postal Center, Box 91192 (B), Los Angeles, Calif. 90009.

THE ADVENTITIOUS BUD TECHNIQUE IN PRODUCING TETRAPLOIDS

by Dr. C. Broertjes

Recently I noticed that the production of tetraploids (or polyploids in general) by the use of colchicine seems to be a problem in *Begonias*. There is however in my opinion a very elegant and probably also an easy method, viz. by the use of what I call the adventitious bud technique.

It has been demonstrated in *Sainpaulia*, *Achimenes*, *Streptocarpus* and probably also *Lilium* that colchicine treatment of freshly cut leaves (in the case of *Lilium* of scales) result in the production of complete tetraploids, approximately 30% of the total number of adventitious plantlets produced. This is due to the fact that adventitious buds on leaves originate from only one epidermal cell, resulting in a high frequency of solid (non-chimeral) mutants after irradiation or in a high frequency of completely tetraploid (polyploid) and this non-cytochimeral plantlets after colchicine treatment.

We generally use 0.1% during 6 or 7 hours at room temperatures; the basal part of petiole in the solution. *Begonias* however may differ in sensitivity and one must determine the optimal concentration and duration for every cultivar.

Anybody interested in this technique of mutation breeding from adventitious bud formation on isolated leaves and partly also for the production of polyploids can apply for reprints (C. Broertjes: ITAL, Postbus 48, Wageningen: The Netherlands).

The above research note was received from Dr. C. Broertjes of the Institute of Atomic Sciences in Agriculture at Wageningen, The

EDITORS CORNER

Thanks to all our friends who pointed out that Memoriam was spelled wrong. We couldn't see the forest for the trees. Long ago our penmanship teacher always told us to close our a's, we forgot.

One of our advertisers has been honored by the Theta Sigma Phi, a women's professional journalism organization in Miami, Florida. Following is an excerpt from the Miami Herald, March 22, 1970.

Mrs. Mary Heinlein is a pioneer in P.T.A. work in Dade County. She is honored both as a Dade County pioneer and for her work in the P.T.A. She moved to Homestead with her parents in 1910.

She served as president of the Dade County Council of Parent-Teacher Associations, served on the board of the state P.T.A. and was president of the Homestead Women's Club.

She was also founder, along with her husband of the Redlands Fruit and Spice Park. Over 250 rare fruits, herbs and bushes — many planted by Mrs. Heinlein — belong to Dade County because of her work as superintendent, volunteer and guide.



The revised Membership Roster is off the press. Order your copy from the Membership Secretary. \$1.25

Pearl Benell

10331 S. Colima Rd., Whittier, Calif. 90604

Netherlands. He would like to refer to a recent article, "Mutation Breeding of *Streptocarpus*" (*Euphytica* 18 (1969): 333-339; no reprint available yet) which may be of interest to our readers. The reaction to the leaves of the *Begonia* should be similar to that of the *Streptocarpus*.

M. Carleton L'Hommedieu
Research Director

Minutes of the Regular Board Meeting of The American Begonia Society March 23, 1970

The regular meeting of the Board of the American Begonia Society was held on March 23, 1970 in the South Gate Auditorium with Vera Naumann presiding. The meeting opened at 8:10 p.m. with the Pledge of Allegiance led by Walter Pease. The Aims and Purposes were read by Pearl Benell. Fifteen Officers and eleven Branch Representatives answered roll call.

The minutes of the February meeting were read and approved.

Mrs. Naumann reported that Mr. Watchorn is home from the hospital and improving. Bert Slatter was back in the hospital after a fall at home, also improving.

Walter Barnett reported receipts of \$783.69; disbursements \$854.61; leaving a balance in General Fund \$934.15. Balance in Seed Culture Bulletin Fund \$2.45. Balance on hand as of March 18, 1970 is \$936.60. Walter Barnett spoke of the Seed Culture Bulletin Fund which has been reported as a separate fund. This is a bookkeeping record only and has remained the same for many months, therefore, he suggested that it be terminated as a separate item and included in General Funds. A motion was made by Mr. Barnett, seconded by Mabel Anderson, to revert this account to General Funds. Carried. This change in no way affects Mrs. Gee's Seed Fund.

Mrs. Naumann read a letter from Mr. Yochum indicating his interest in tape recordings of seminars and speakers at the Convention.

Anne Rose reported Advertising receipts \$157.50; unpaid accounts \$75.00.

Pearl Benell reported 37 new members and 111 renewals. Total members in good standing 2,094. Total money received and deposited \$620.96. Begonians disbursed 2,417.

Mabel Anderson asked the Board's approval to reprint for Northeastern University an article of Begonia Trichomes which had appeared in "The Begonian" of June 1969. A motion was made by Virginia Barnett, seconded by Gene Daniels, to approve the reprinting. Carried.

Mrs. Naumann reported that she had been investigating the cost of printing the 4 page Cultural Bulletin which is sent to all new members. At her request, Mr. Zieshenne had reviewed the old Bulletin and made the necessary changes of classification, etc. The best quotation was \$57.50 for 1,000 and \$12.25 for each additional 1,000. A motion was made by Walter Barnett, seconded by Walter Pease, to proceed with the printing of 5,000. Motion carried.

Virginia Barnett, Business Manager, reported that everything of value is now in a Safety Deposit Box at American Savings and Loan Co.

Ruth Pease reported receipts of \$21.00 for various publications. She called attention to the new Begonia list put out by Rudy Zieshenne which uses the new approved classification in identifying the plants he has for sale. The Knickerbocker Branch also publicized the Point Scoring Book in their International Flower Show edition of the "Knicker News". Ruth has sent copies of the Classification and Point Scoring booklets and the Judges Course to George

Spaulding of the Los Angeles County Arboretum and Don Wooley of South Coast Botanical Gardens for their libraries.

The secretary read the February report from Carleton L'Hommedieu in which he announced the resignation of Mrs. Pat Burdick of Minnesota from the Research Committee, and the appointment of Mr. Oldrich Otypka. Thelma O'Reilly intends to start working with hybrids for the Arnold Arboretum. Anita Sickmon has been in contact with three Universities in regards to research on Begonias. She has also been corresponding with and has received valuable information from Dr. Ola Heide in Norway. Mr. L'Hommedieu has received a copy of a recently published German book on Begonias, by Prof. Vogelmann, which he is having translated. If he finds it will be of interest to the Society, he will see what will be involved in publishing it in English. Mr. L'Hommedieu sent a copy of the letter which is being sent to all Branches soliciting money for the Research Fund.

The Round Robin Director, Anita Sickmon, reported four flights had come thru, two revised. Thirty-five letters were written.

Mrs. Naumann introduced Mrs. Mabel Corwin, Chairman, and Anne Rose, member, of the Nominating Committee.

Everett Wright reported that there will be a Show Committee meeting on April 5th in the South Gate Auditorium. Mr. Wright made a motion that the ABS purchase a challenge trophy to be given for the best new introduction. This will be in addition to the trophies that have been donated by various Branches for best various divisions. The motion was seconded by Walter Pease and carried. A motion was made by Gene Daniels, seconded by Walter Barnett, that no more than \$25.00, exclusive of engraving, be spent for this trophy.

Martha Rader, Public Relations, reported receiving a letter from Mr. Yochum of Indiana requesting an opinion of a questionnaire which he would like to send to other Indiana members to secure information on growing Begonias in Indiana. This information would subsequently be printed in "The Begonian". Mrs. Withee, the Northeastern Public Relations Co-chairman, has sent her new booklet to be evaluated for possible sale by ABS librarian. This booklet would be especially interesting to those members living in the East.

Gene Daniels reported on the News Letter, Rocking the Begonia Boat. Expressions of opinion, pro and con, about the "Boat" continue to come in. Any material intended for publication in "The Begonian" will not be repeated in the "Boat".

Anne Rose reported that she had secured a bid for \$58.00 for 2500 letter heads and 2500 envelopes. Walter Barnett had a bid for \$55.00 for the same number. Mr. Barnett was requested to go ahead and have the stationery printed.

Mr. Barnett made a motion that the Life Membership Fund, amount \$2956.50 be transferred to a Certificate Account that would pay a higher rate of interest, 5% if held one year. Motion seconded by Gene Daniels. Carried.

After the Branch reports, the meeting adjourned at 10:45 p.m.

Respectfully submitted,
Irene Grannell, Secretary

MEET ONE OF THE OFFICERS OF THE A.B.S.

RUTH PEASE, Director, ABS Judges Course

Prepared by Walter Pease for "The Begonian"

Ruth traveled with her parents and sister and brother, living in Brooklyn, Chicago, Dallas, and Santa Monica until she and Walter married in 1952. They settled in the Westchester area of Los Angeles.

Around 1958 she and Walter visited their first *Begonia* show. Since 1959 she has been active as a member of the American Begonia Society. A Charter Member of the Westchester Branch of the ABS, she has served as Secretary, Historian, Publicity Chairman, Flower Show Secretary and co-chairman for three years, Flower Show Chairman for three years and President for two years.

At the National level, she was Historian for five years; co-chairman of the Judges Course 1965 through 1969, and Chairman of the Classification Committee for two years. Her Committee researched and published "A Suggested Guide to Classification of Begonias for Show Purposes" and "The Point Scoring System for Judging Begonias", both approved by the National Board in 1969. Ruth was the originator of "A Guide - Over 500 *Begonias* Listed as to Type and Suggested Classifications", published by the Westchester Branch in 1967.

Her book, "So Say the Experts" is about *Begonias* and other shade-loving plants and indicates her ability as an author. She is considered an authority by many and has given lectures on hybridizing, classification, pruning and grooming plants for a show as well as the cul-

ture and propagation of *Begonias*. Her love of *Begonias* has led to studying and sharing her knowledge with others, creating interest in this fine hobby and in growing other shade plants. Ruth also enjoys the Round Robins and corresponds with anyone interested in *Begonias*.

She is a member of the Los Angeles International Fern Society, American Gesneria Society, the Bromeliad Society, and a past member of the Indoor Light Gardening Society and the Westchester Fuchsia Branch. She served as a visitor's Aide for two years at the South Coast Botanic Gardens in Palos Verdes. Always interested in her community and its beautification, she has worked with Westchester Beautiful on occasion.

She has many interests including music and art and manages to attend an art class once a week. Current interests are the works of the French Impressionists and Traditional American Artists.

Her true love is her family. She is the proud mother of three fine children, Michael 16, Richard 14 and Carol 11, with whom she and her husband, Walter, spend much of their time. Their activities have included Y-Indian Guides, Gray-Y, Junior Hi-Y, Brownies and Girl Scouts, PTA and other school functions. As a family they have participated in flower shows the last eleven years.

Ruth feels everyone should take an active part in helping to make his or her community a better place to live.

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FIBROUS BEGONIAS \$1.00 each

'Annabelle', 'Argenteo-Guttata', 'Bleeding Heart', 'Peach Leaf', *echinosepala*, 'Green Medora', 'Helen', 'Helena', *incarnata*, 'Jean Pernet', 'Medora', 'Spring Song', 'Sir Arthur', *acida*, 'Corbeille de Feu', 'Digswelliana', 'Thurstonii', 'Blue Lake', 'Gray Feather'

FIBROUS BEGONIAS \$1.25 each

'Otto Hacker', 'Elaine', 'Frances Lyons', 'Pinafore', 'Robinson's Peach', *coccinea rosea*, 'President Carnot', 'Sophie Cecile', 'Ross Swisher', 'John R.', 'Alasco', 'Nora Hanson', 'Tingley Mallet', 'Tempelina'

HAIRY FIBROUS BEGONIAS \$1.25 each

'Alto Scharff', 'Chocolate Soldier', 'Conbow', 'Credneri', 'Campenes', 'Dwarf Houghtonii', *Hugellii*, 'Margarita', 'Nelly Bly', *metallica*, *prunifolia*, 'Irene', 'Raphael'

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CONNECTICUT BRANCH

4th Sunday of each month
Mrs. Peggy E. Fratus, Secy.
1363 Boston Post Road
Old Saybrook, Conn. 06475

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.
Charles Badcock, Secy.
2325 Esmond, Richmond, Calif. 94804

EASTSIDE BRANCH

4th Wednesday, 7:30 p.m.
Natural Gas Co. Bldg.
Crossroads Shopping Center, Bellevue, Wash.
Edith Lange, Secy.
9905 Belfair Lane, Bellevue, Wash. 98004

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. Madge Borden, Secy.
602 North Angelino, Azusa, Calif. 91740

FORT, ELSA BRANCH

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

GLENDALE BRANCH

2nd Tuesday, 8:00 p.m.
Glendale Federal Savings, 401 N. Brand
Mrs. Frances Perkins, Secy.
3712 Revere Ave., Los Angeles, Calif. 90039

GREATER BATON ROUGE BRANCH

Mrs. Charles H. Smith, Secy.
4177 Flannery Rd., Baton Rouge, La. 70814

HOUSTON TEXAS BRANCH

2nd Friday, 10:00 a.m.
Garden Center, 1500 Herman Drive
Mrs. E. H. Claggett, Secy.
4415 Austin
Houston, Texas 77004

INGLEWOOD BRANCH

2nd Wednesday, 7:30 p.m.
Western Federal Savings Bldg.
355 E. Manchester Blvd., Inglewood, Calif.
Lola Somes, Secy.
4849 W. 130th St., Hawthorne, Calif. 90250

KNICKERBOCKER BRANCH

3rd Tuesday, 7:30 p.m.
McAlpin Hotel, New York City
Mrs. Philip Sarna, Secy.
37 East 30th St., New York 10016

LONG BEACH PARENT CHAPTER

2nd Sunday, 1:30 p.m.
Glendale Fed. Sav. & Loan Bldg.
5535 Stearns St. Cor. Bellflower, Long Beach, Calif.
Mrs. Bernita McClanahan, Secy.
1020 Poppy Ave., Compton, Calif. 90221

LOUISIANA CAPITAL BRANCH

1st Friday, Sear's Garden Center
6201 Florida St., Baton Rouge
Mrs. Wilma Simpson, Secy.
3105 Belmont St., Baton Rouge, La. 70808

MESQUITE BRANCH

Mrs. Loretta Gibbons, Secy.
3209 Hula Dr., Mesquite, Texas 75149

MIAMI BRANCH

4th Tuesday, 8:00 p.m.
Simpson Memorial Garden Center
Miss Rosamond Meriweather, Secy.
1552 Plascencia Ave., Coral Gables, Fla. 33134

MISSOURI BRANCH

3rd Tuesday, 11 a.m.
Members' Homes
Kansas City, Mo.
Mrs. Lynne K. Wood, Secy.
626 W. Charles, Independence, Missouri 64055

NORTH LONG BEACH BRANCH

3rd Tuesday, 7:30 p.m.
American Legion Post No. 560
East 59th and Orange, Long Beach
Ruth Hurd, Secy.
2942 Sawyer St., Long Beach, Calif. 90805

ORANGE COUNTY BRANCH

2nd Thursday, 7:30 p.m.
Garden Grove Grange Hall, Century and Taft Sts.
Garden Grove, Calif.
Mrs. William M. Hastings, Secy.
621 Orchard St.
Corona del Mar, Calif. 92625

PHILOBEGONIA BRANCH

2nd Friday, Members' Homes
Mrs. Anne Stiles, Secy.
East Delaware Trail, R. D. No. 2, Medford, N.J. 08055

PORTLAND BRANCH

Mrs. Lavene Jenkins, Secy.
9920 S. W. 53rd Ave., Portland, Oregon 97219

REDONDO AREA BRANCH

4th Friday, 7:30 p.m.
R. H. Dana School Cafetorium
135th St. and Aviation Blvd., Hawthorne, Calif.
Mrs. Dora Aaron, Secy.
4820 W. 135th, Hawthorne, Calif. 90250

RHODE ISLAND BRANCH

1st Saturday, Homes of Members
Mrs. Robert Northup, Secy.
555 Kingstown Road, Peace Dale, R.I. 02883

RIVERSIDE BRANCH

2nd Wednesday, 6:30 p.m.
Dales Recreation Center
3936 Chestnut St., Riverside, Calif.
Mrs. Tim Smith, Secy.
8631 Clearview Pl., Riverside, Calif. 92509

ROBINSON, ALFRED D. BRANCH

3rd Friday, 12 noon, Homes of Members
Constance D. Bower, Corr. Secy.
1609 W. Lewis St., San Diego, Calif. 92103

SACRAMENTO BRANCH

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

SAVE AUGUST 15-16 FOR THE
CONVENTION & SHOW

SAN FRANCISCO BRANCH

1st Wednesday, 8:00 p.m.
Garden Center, Golden Gate Park
9th Ave. and Lincoln Way
Mr. Allen Sweet, Secy.
139 Beverly St., San Francisco, Calif. 94132

SAN GABRIEL VALLEY BRANCH

2nd Friday, 8:00 p.m.
Los Angeles State and County Arboretum
501 N. Baldwin Ave., Arcadia, Calif.
Mrs. Virginia Barnett, Secy.
1213 Mullender Ave., West Covina, Calif. 91790

SAN MIGUEL BRANCH

2nd Wednesday, Porter Hall 7:30 p.m.
University & La Mesa Blvd., La Mesa
Mrs. Margaret Lee, Secy.
1852 31st St., San Diego, Calif. 92102

SANTA BARBARA BRANCH

2nd Thursday, 7:30 p.m.
Santa Barbara Museum of Natural History
2559 Puesta Del Sol
Mrs. Helen Yost, Secy.
888 La Milpita Rd., Santa Barbara, Calif. 93105

SEATTLE BRANCH

3rd Tuesday, 7:45 p.m., Loyal Heights Field House
21st Ave., N.W. and N.W. 77th St.
Virginia Level, Secy.
13770 1st Avenue N.E., Seattle, Wash. 98125

SHEPHERD, THEODOSIA BURR BRANCH

1st Tuesday, 7:30 p.m.
Y.M.C.A. Bldg., 5200 Telegraph Rd., Ventura, Calif.
David Dichter, Secy.
3280 San Luis St., Ventura, California 93003

SMOKY VALLEY BRANCH

4th Thursday, 7:30 p.m., Members' Homes
Miss Verna Fowler, Pres.
920 Sheridan, Salina, Kansas 67401

SOUTH CAROLINA BRANCH

Mrs. Leonard Thomas
333 Harrow Dr., Columbia, S. C. 29291

SOUTH SEATTLE BRANCH

4th Tuesday, 7:30 p.m., Wm. Moshier Field House
430 So. 156th Burien
Sally Harding, Secy.
11632 1st Ave. S., Seattle, Wash. 98168

TARRANT COUNTY BRANCH

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

TEXAS STATE BRANCH

4th Thursday, Sabine National Bank Bldg.
Port Arthur, Texas
Mrs. R. J. Wilson, Secy.
4620 Evergreen St., Port Arthur, Texas 77640

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 St., Los Angeles, Calif.
Barbara Mack, Secy.
424 Oregon St., El Segundo, Calif. 90245

WESTERN PENNSYLVANIA BRANCH

2nd Wednesday, 11:00 a.m. every other month
Pittsburg Garden Center, 1059 Shady Ave., Pittsburg, Pa.
Mrs. Irene Fediaczko, Secy.
125 Arlington Ave., Butler, Pa. 16001

WHITTIER BRANCH

1st Thursday, 7:30 p.m.
Palm Park Community Center
5703 S. Palm Ave., Whittier
Phyllis Ferguson, Secy.
10722 Wiatt Way, La Habra, Calif. 90631

WILLIAM PENN BRANCH

4th Tuesday, Noon, Homes of Members
Mrs. Murdock Davis, Secy.
256 Broughton Lane, Villanova, Pa. 19085

CALENDAR

May 7 — Westchester Branch Speaker, Mr. Pat Antonelli. Tuberous Begonias.

May 7 — Whittier Branch, Speaker, Vera Naumann — Grooming Your Plants For Show.

May 10 — Long Beach Parent Chapter Everett Wright will present a "Surprise Program".

May 12 — Glendale Branch, Sylvia Leatherman, Speaker. "Rexes and Environment".

May 14 — Orange County Branch — 7:30 p.m. Speaker, Eugene Johnson, Garden Consultant.

May 19 — Sacramento Branch 8 p.m. "Bottle Gardening — The Wardian Case Theory Modernized". Mrs. Jeanette Anderson, speaker.

May 19 — North Long Beach Branch 7:30 p.m. "Landscaping With Begonias and Ferns" — Sylvia Leatherman.

May 19 — Seattle Branch, 7:45 p.m. Loyal Heights Recreation Center.

May 25 — ABS Board — 8 p.m., South Gate City Auditorium, 4900 Southern Ave., South Gate, Calif. Meetings are always open to members.

May 27 — Eastside Branch, 7:30 p.m. Bellevue Park Department, Northwest Center, 9819 N.E. 24th.

June 4 — Whittier Branch Speaker, Pinky Harrison, Shade Plants In General.

June 4 — Westchester Branch — Pot Luck 6:30 — Speaker, Mrs. Dorothy Behrends "Add Zing to the Shade Garden".

June 14 — Long Beach Parent Chapter Speaker, Malcom Rich, "Any Old Neophyte".

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