

The BEGONIAN



MARCH, 1975

Devoted to the Sheltered Garden

VOL. 42, NO. 3



GENERAL OFFICES:

Dues, address changes, or magazines:

6333 W. 84th Place, Los Angeles, Ca. 90045

Subscription: \$4.00 per year. Foreign (Mexico and Canada) \$4.50. U.S. (Mexico and Canada) 1st Class \$7.00. Overseas Air Mail \$17.00 U.S. (Mexico and Canada) Air Mail \$8.00 Pay in U.S. currency only.

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

GROWING BEGONIAS IN AN ORCHID MEDIUM?

By Gordon Lepisto, St. Paul, Minnesota

In a year of experimentation, growing various types of begonias in a medium of coarse redwood and fir bark chips, I have reached some conclusions. However, more time will be needed to really test long period growth and development in such a medium.

When I talk about using methods different than most growers would even consider, you must remember I am growing under lights in a fiberglass enclosed plant room where the humidity approaches 90% day and night, year around. Lights-on temperature 72 degrees. (See Sept. 74 *The Begonian*)

I have always wanted, and finally achieved, a huge terrarium in which I can wander around inside instead of just admiring from the outside.

It would have been impossible for me to use a bark medium unless the humidity could be maintained between 85-90%. Any less, the containers would dry out too fast and exposed surface roots would suffer. With the humidity more than 90%, water starts to condense on the leaves from the humidifiers, even with ventilation and constant air movement.

I use a coarse 1/4-1/2 inch size bark, both fir and redwood, commonly used for drive and pathways. This is washed in hot water, nothing more,

before using. All begonias I started with, both seedlings and large plants had to be bare rooted of all long fibered sphagnum moss (which I previously used with all begonias), so that water could NOT be retained inside the pot. There was little shock in this transfer to the bark, and surprisingly even the small seedling started into rapid growth. I could now water freely with little danger of overwatering. I settled on a mild fertilizer of fish emulsion (5-2-2), 1/8th tsp. per gallon of water at every watering, with a once a week flushing of plain water. All styrofoam containers are slotted up the sides and drainage is instant. Even so, a film of water is continually retained around the bark chips. I can flush the plants daily even when still damp and the plants will show no ill effects, only continued healthy growth.

From a good friend in California,
(Continued on Page 73)

COVER PICTURE

Begonia decora pictured on the cover was grown and photographed by Gordon Lepisto. This plant and those to follow in April and June were grown by the method described in the article in this magazine "Growing Begonias in an Orchid Medium?"

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*.

INSECTS, PESTS AND DISEASES

By Elda Haring

Time was when our begonia collection was very small and I could boast that I never had infestations of insect pests or diseases. The plants were regularly cared for, washed off once a week with tepid water and fed twice a month. The weekly washing kept the leaves bright and shiny and knocked off such pests as red spiders or aphids if indeed they were present. However, the collection included only the rugged and easy-to-grow begonias. But when we acquired a greenhouse and fluorescent light set-up and began to add many species and varieties we found ourselves combating the dreaded white fly, mealy bug and mildew. Recognizing damage by insect pests and fungus diseases is difficult for the beginners and the experienced alike. If a plant looks sickly our first instinct is to attribute the damage to some insect pest. The plant could possibly be suffering from being kept too dry as evidenced by leaves becoming pale, weak and dropping, or it could be suffering from over-watering, too low or too high humidity or even over-fertilization. Some begonias have a period when they show their need to rest by dropping a few leaves or stems or both or by going completely dormant as in the case of *B. sutherlandi* and *B. evansiana*. We must attempt to learn what we can about the needs of our begonias in order to recognize danger signals.

It is important to practice good sanitation, keeping plants well groomed, picking off promptly spent leaves and blooms, and examining them often so that insect populations

are not permitted to build up, and mildew and mold are detected before damage becomes wide spread. Great caution should be taken when using insecticides and fungicides. Many of these are toxic and directions should be followed explicitly. I am sure those who are fortunate enough to grow their begonias out-of-doors use some of these materials to keep down insect populations. An all-purpose mixture of insecticide and fungicide can be used effectively in such a situation. However, when combining these materials it is important to read labels carefully to be sure that the insecticide and fungicide are compatible. Spraying should be done on a cloudy day or when the sun is not shining on the plants for hot sun on the wet spray can cause burning of the leaves. For many pests including Japanese beetle and the various crawlers such as the cabbage looper and other caterpillars, a biological or microbial control such as Thuricide or Dipel can be used. This is not effective for the sucking insects such as aphids or white fly. (Ed. note: Thuricide is advertised to be non-toxic)

I do not like to use toxic materials for spraying indoors. Many people do use them with no apparent ill effect. However, they should only be used in well-ventilated rooms and they must be used exactly according to directions. Some of these are all purpose sprays containing malathion for sucking and chewing insects; Kelthane, Aramite and Dimite used especially for mites and Karathane used as a preventive for mildew.

There are systemic poisons also being used. Some are sprayed on the plants; others come in powder or granular form and are sprinkled on the soil of the pot washing them into the soil with water. The material is taken up by roots, stems and leaves and insects feeding on the leaves are killed by the poison. Of these for my indoor plants in greenhouse and under lights I prefer the granular kinds for they are not dusty and cannot be inadvertently inhaled and dust does not settle on skin or get in the eyes — use $\frac{1}{4}$ teaspoon to a two inch pot, $\frac{1}{2}$ to a four inch pot and 1 teaspoon to an 8 inch pot for these. Acti-dione PM and Benlate (Benomyl) can be used for mildew. They can be used in sprayer or if preferred in a "mister." Phaltan and sulphur are also used to control mildew. I prefer the latter two for in my experience both Acti-dione and Benlate often damage new growth and cause leaf burning of certain species and cultivars. For sucking and chewing insects I prefer the aerosol bomb containing pyrethrin and rotenone. These are the least toxic of the insecticides. It is important to hold the bomb 18 inches away from plants giving quick 20 second spurts. Leaves should not be actually wet or dripping for the materials used for suspending the insecticide will "freeze" leaves and stems. For mildew and mold I often use an all purpose rose dust of which there are many on the market. As the squeeze container spurts forth a fine dust that can settle on skin or be inhaled I prefer to use one with a pouring spout or shaker top and dust the plant covering top and undersides of the leaves. The rose dust

also disposes of aphids, thrips and the spring tails, those tiny creatures that are sometimes noticeable when the plant is watered. If the plant has been badly damaged by mildew before it is discovered I cut the plant back to within 3 inches of the pot before treating. Subsequent new growth is usually free of mildew. If I have a plant that is regularly subject to mildew or mold and must be treated frequently, it is reluctantly disposed of.

Mealy bugs are $\frac{1}{16}$ inch long with waxy bodies. The egg sacks look like whisps of cotton and contain 300 to 600 eggs. They are usually first noticed in the angle made by leaf and stem or in leaf crevice. These can be wiped off with a cotton swab dipped in alcohol or a malathion solution and followed by washing foliage with a warm soapy solution rinsing with clear water and using aerosol bomb several times over a period of a week or ten days to destroy newly hatched insects. Out-of-doors plants may be sprayed and/or dipped into an all purpose spray material containing malathion. Be sure to wear rubber gloves when dipping for malathion can be absorbed by the skin. When I discover mealy bug on a plant growing indoors I destroy the plant immediately rather than take a chance on infecting the whole collection. I have been criticized for making this suggestion but by refusing to harbor a host plant, I can truthfully say that I have not seen mealy bug on any of my plants for many years.

Aphids known to beginners as "plant lice" are the size of a pin head and they may be white, black, green, brown or pinkish in color. Some are

winged others wingless. They are sucking insects and cluster along plant stems and leaves and appear on blossoms or buds. Leaves feel sticky from their excretions and pucker or curl under. Sooty mold, a fungus disease, feeds on the "honeydew" deposits and the leaf becomes overlaid with a black mold. The infestation builds rapidly and if permitted to increase, leaves will turn brown and fall from the plant. Washing the plant with a forceful stream of water will dispose of most of the adults but the aerosol bomb must be used several times a week for about two weeks to kill the young as they hatch. For aphids use Cygon systemic or Di-syston 2% granular, malathion, nicotine sulphate or, if preferred, the relatively non-toxic pyrethrin-rotenone compounds.

The white fly is a tiny insect 1/16 of an inch in size. If the plant is touched, insects fly from the plants and look like specks of white ash. It is most important to keep a sharp eye out for white fly for it is one of the most persistent of insect pests and is most difficult to control. The young do not fly but suck juices from leaves and stems. At the first sign of white fly examine the underside of leaves. You can see the nymphs clustered there. Leaves may be covered with sooty mold. Remove leaves or wash the young from them and use the aerosol bomb every other day to kill young as they hatch for eggs are impervious to insecticides. Secretions of the white fly also create conditions for sooty mold. If I find a plant that is host to white fly in my greenhouse or indoors, the plant is carefully covered with a paper bag so as to disturb adults as little as possible and the

plant consigned to the garbage can. This may seem drastic to many growers but I would rather sacrifice one plant than to take a chance on infecting the whole collection. For white fly, systemics are recommended as well as the use of the Pyrethrin-Rotenone bomb. I do not like the strips containing Vapona for they can be toxic in closed areas and my own experience has been that white fly soon builds up an immunity to this material.

There are several kinds of mites. Spider mites, false spider mites and cyclamen mite. I have never encountered cyclamen mite on any of my begonias but if I did you can be sure the plant would be destroyed at once. Mites are tiny and cannot be seen with the naked eye. Damage shows as rusty brown areas along veins or entire leaf surface. Edges curl, dry and die or lose color and drop off. Cyclamen mite causes distorted, puckered and blackened areas. An all purpose spray containing malathion or a miticide like Kelthane can be used. If I find plants infected with mites, I prefer to use the all purpose rose dust or a granular systemic.

Scale is evidenced by black, brown or reddish dots on underside of leaves and on stems. When mature they have hard shells. When they are present leaves often feel sticky, turn brown and fall from the plant. Mature scales can be washed off using a soft brush and soapy water and in some cases can be scraped off with thumb nail. In the crawling stage the young look like particles of white dust. Spraying or dusting with malathion will destroy these. Systemics are also recommended for control of

scale. If a plant is badly infested it should be destroyed or segregated so as not to infect adjacent plants.

Mildew and mold are fungus diseases. Mildew appears as round spots of white dust or the entire leaf may be covered with a dusting of fine white powder. Commercial growers use Karathane or Mildex as a preventive before disease is evident. Mildew can also be checked by spraying with Acti-dione PM or Benlate. The gray mold that appears as a whitish fuzz on leaves and stems is known as botrytis blight. This sometimes shows up in my greenhouse in cold damp weather when moisture stands on leaves and stems. Ferbam, Bordeaux, Phaltan as well as the old reliable sulphur dust can be used but if the plant is badly infected it should be disposed of.

Nematodes are microscopic worms causing swelling on roots and stems at soil surface or in the case of leaf nematode appear as blistered brown spots on leaves causing them to die. I have fortunately never encountered nematodes in many years of gardening both indoors and out. Where they are known to be present in garden soils as in many areas throughout the south these should not be used in potting mixes unless it has been fumigated. Frankly if I suspected a plant to be infected with nematodes I would immediately destroy it for I understand the worm floats in water and migrates, particularly in a greenhouse or under lights and especially if pots are resting on perlite or sand in a community bench or tray. Soil fumigants such as VC 13 are used by some growers to be sure there are no nematodes lurking in the potting mix.

RESEARCH FUND

By M. Carleton L'Hommedieu
Research Director

Since the beginning of our calendar year, September, 1974, the following Branches have donated to the Research Fund as of Jan. 25, 1975:

Long Island Branch	\$ 40.00
Tampa Bay Branch	10.00
Connecticut Branch	100.00
Buxton Branch	100.00

The Long Island Branch has pledged \$10.00 per month.

The Nomenclature Director, Rudy Ziesenhenné, has requested that the compilation of material for the Hybrid and Cultivar Catalog be referred to the Research Director. Some progress has been made to have a student receive a grant from the Research Fund to work on compiling this book of *Begonia*. A book of this type is called a *Begonia* catalog. It will contain all important material and information about each plant. This will be a long term project. The first grant will probably be given to a resident graduate library student who will be doing library work at the New York Botanical Library. January 25, 1975

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APPLGATE MINI-GREENHOUSE

San Dieguito Gesneriad Club

Lesson Sheet No. 6

Edited by Dorothy S. Behrends

Have you needed a choice, intimate location for a time in which you could place cuttings to root and/or seeds to germinate?

Thanks to Marjori Applegate, we have an easy to construct mini-house, which she credits her husband with creating.

Scrap material is all you need and the willingness to "construct." The size depends on the builder and where it is to be placed for use, on completion.

By using a 1"x12"x15" board (measurement included here are approximate, only) drill one hole in each corner, through the board. The holes should be the diameter of a coat hanger wire. Nail a lath across each end, on the **UNDERSIDE** of the board, covering the holes. This will keep the wires from protruding through the board.

Cut two coathangers where indicated in the illustration and straighten out all bends. These are the end supports.

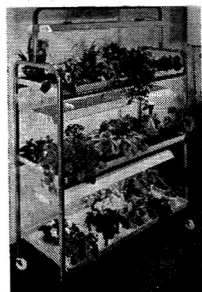
Cut a short piece of bamboo stake, the length to be determined as you fit it in. It is also possible that the (former) hooks will also need to be cut off to fit.

Bend both coat hangers to make the squared-off end supports.

Insert the wire ends into the holes in the board. The center support "beam" is the connection of the two end wires, via the bamboo stake, with wires inserted into the hollow ends.

Place plastic, waffle-bottomed meat trays or aluminum chicken trays (from frozen chicken) on the board. Place the containers of the cuttings or seeds on these trays.

Using a light weight cleaner's plastic bag, insert the entire contraption into the bag and place in a location enjoying **FILTERED** sunlight and shade. The amount of humidity will be determined by the amount of opening you allow at the end of the mini-house.



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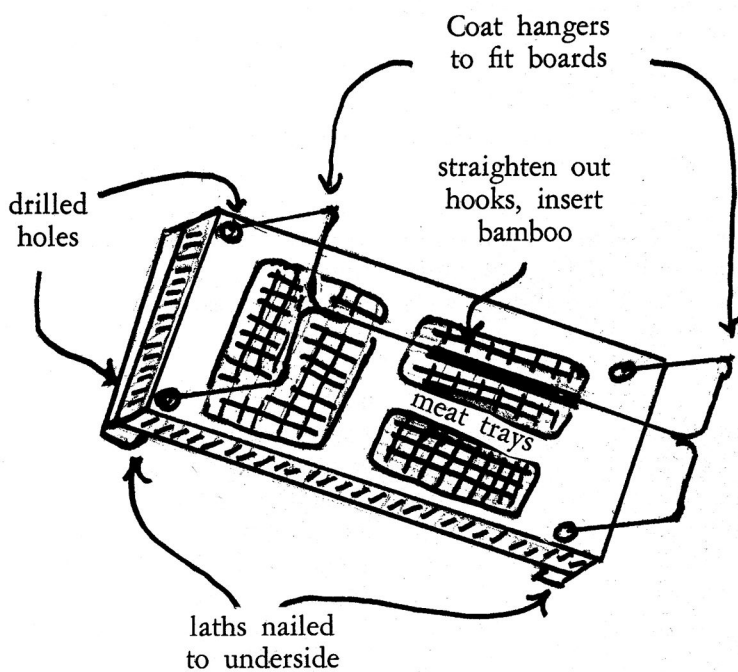
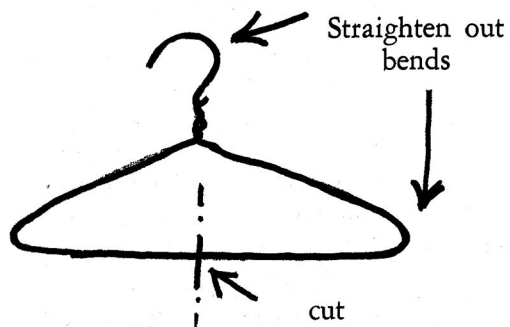
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ROUND ROBIN NOTES

Robin members love to experiment with their plants and then compare notes with others, which makes the letters so interesting.

Hazel Kipp, Florida, has found many challenges and many rewards in growing begonias. There seems to be no hard, set rules for success. One day a method of propagation works perfectly, the next time it can be a total failure. When a begonia decides to self-destruct, grab a healthy piece or leaf and start all over. If you have a plant doing well in a certain location, leave it there, she advises.

Elizabeth Stuart, California, told members not to give up on a slow-rooting leaf of *B. 'Scottish Knight'*. She's had several take months and fill the pot with roots, up in the air at the top and down through the hole in the bottom but they finally put out plantlets. A small grandson broke a leaf off her *B. r.c. 'Spiderweb'* and it lay on the ground all night. The next day it was as limp as a dishrag when she found it. She tossed it into a bowl of water, covered it with plastic and put it under lights. In a week there were roots AND leaves from the stem end, the sinus and from a broken edge!

Lena Bussard of Kansas had some rex leaves. Some she put in her media and others in a damp napkin wrapped around the leaves. The ones in the media she lost; the ones with the damp napkin were rooting.

Elda Haring, North Carolina, got a little plant of *B. goegoensis* and soon discovered it rotting in the sweater box where she put it. She put some cut up sections in a market

pak slipped into a plastic bag — forgot it — and when someone came to visit, they picked it up and asked about it. To Elda's surprise, the plants had pushed up the baggie and were trying to get out.

Edna Stewart, Pennsylvania, uses only vermiculite for rooting and gets enormous root systems. And they will stay in fine shape even when she is slow in transplanting, she said.

Dan Haseltine of Illinois, after reading of some of the experiments using paper towels or facial tissues, decided to try it for propagating. He took some leaves and parts of leaves and a few small cuttings and placed them in some plastic drinking glasses on top of wet Kleenex, putting another glass on top as a cover. They were growing roots into the wet tissue and out and around it. He had the leaves vertical with some of the tissues beneath and in back of the leaf. The cuttings were also vertical with the same results. He thinks this might be good for the hard to root types. There is very little water in the glasses — just enough to have the bottom of the glass wet. One small leaf was throwing up little plantlets at the base of the leaf stem after about three weeks.

Casey Carsten, Texas, really treats many of her potted plants and baskets the way some people treat cut flowers. She moves them into the house to decorate an end table or a bookshelf, then after several days she moves them back to the growing areas and moves others inside. She collects all sizes and types of baskets as pot holders; they are much less

expensive than the china ones and she likes the informal look.

Many robin members report being on the constant lookout for discarded items suitable for use in their plant hobby. Vivian Stewart of Washington looks at garage sales, flea markets or Garden Club sales for dishes suitable for plants. For those quite low, she uses a mix of concrete, vermiculite and sand to build them up for planters. She blows up balloons, putting the mix around them to harden. The holes left in the concrete are used to plant begonias, cactus, etc. They are so attractive with a few pieces of glass or rock embedded in the concrete. She reminds us that concrete has lime in it that will leach into the soil, which won't harm begonias or cactus but would kill acid-loving plants unless coated inside with a good concrete sealer after removing the balloons.

Grace Schillinger, Illinois, bought a lovely pink Conch shell at a yard sale for 10¢. She planted a small *B. 'Persian Brocade'* in it, hung it in a pale blue rug yarn macrame hanger, and it looked very dainty. She has been tucking in some oxalis bulbs among her hanging begonias as they make nice companion plants when the featured begonia is not blooming. Her daughter gave her an old aluminum cannister set which she painted Spanish Gold and hung in macrame hangers, using the black lids as water trays under them.

Planted with various begonias and succulents, they looked like pottery. Another relative planted three tuberous begonias in a pocket of an almost dead pine tree. Another pine shades this elderly tree and her begonias were very healthy in there out of reach of her toddler.

Bonny Bersch of California bought a delightful wrought iron flower cart. It was designed for a portable bar. The sides have brackets for bottles of liquor just right for flower pots. There is fancy scrollwork on the top to which she has attached three 3' lights. The curleques are perfect for hanging pots. She vows she is determined to make an integrated garden of it rather than her usual clutter of a plant collection.

Wouldn't you enjoy sharing great ideas like these in the Robins? Join us now.

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

IN MEMORIAM

The Rhode Island Branch of the ABS has changed its name to the Geraldine Daly Begonia Branch to honor the memory of founder Geraldine Daly who passed away in June 1974.

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Mr. 2—*B. cinnabarina*

Tuberous, with soft orange flowers, which are fragrant for many people. per pkt. \$.50

Mr. 3—*B. davisii*

Small tuberous species with orange flowers, the brightest in the genus. per pkt. \$1.00

Mr. 4—*Hillebrandia sandwicensis*

Unusual plant of the family of the Begoniaceae from Hawaii. Tuberous rhizomes, fairly large, lobed leaves, green without markings, and large white inflorescences in winter and spring. per pkt. \$1.00

Mr. 5—*B. rajah*

A magnificent species from Sumatra. Rhizomatous, large round shiny leaves with a network of

brown markings. Another favorite for the terrarium. per packet \$1.00

Mr. 6—Mixed rexes

This is a repeat of a former offer. These include reds, greens, curls, spirals and all the other characteristics that make the rexes the favorite of all the *Begonia*. per pkt. \$1.00

Other Seeds:

Poinciana gilliesii; (Bird-of-Paradise tree). Small lacy-like tree from South America and Florida, grows to about 10 to 12 feet in California. Blooms in large clusters of yellow flowers with large red sepals.

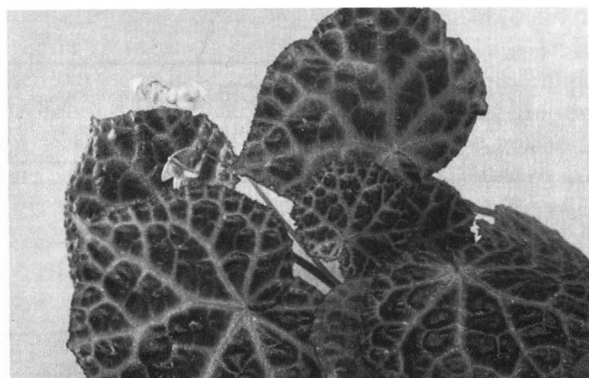
Very showy 12 seeds \$.50

Fern Spore: *Platycerium* — a German cultivar. per pkt. \$.50

PLEASE — NO WHOLESALERS.

I do not receive enough seeds to fill large orders. This is an operation to assist the *Begonia* lovers and growers to obtain plants to enlarge their collections.

When ordering, please list alternates. Do not ask me to choose for you. Make checks payable: Clayton M. Kelly Seed Fund; and mail to Mrs. Pearl E. Benell, 10331 Colima Rd., Whittier, CA 90604.



B. rajah

grown and photographed by Gordon Lepisto, St. Paul, Minnesota — see article "Growing Begonias in an Orchid Medium?"

REGISTRATION OF BEGONIA CULTIVARS

Note: The American Begonia Society is the International Registration Authority for cultivars of the genus *Begonia*. Information regarding registration may be obtained from Rudolf Ziesenhenné, 1130 N. Milpas St., Santa Barbara, CA 93103.

No. 423—*Begonia* (*B. rex cultorum* unnamed varieties) 'Sir Randy Cole'

This cultivar, with red, silver and green mottled leaves, 4-6" with pointed edges and medium texture, was originated in 1965 by Sylvia Leatherman, 2637 Lee St., South El Monte, CA 91733 and was first distributed in 1973; flowers are pink. Of easy culture, it was tested by The Plant Shop's Botanical Gardens, Reseda, California. Registered Aug. 15, 1974.

No. 424—*Begonia* (*B. rex cultorum* unnamed varieties) 'Ho Hum'

With a round spiral leaf, silver, pink-tinged, with a small area of blue-black and sparse pink hairs, 4-6" with a ruffled margin and medium texture, this rex begonia was developed in 1965 by Sylvia Leatherman, address above, and distributed in 1974. Flowers are pink. Registered August 15, 1974.

No. 425—*Begonia* (*B. rex cultorum* unnamed varieties) 'Happiness Is'

The silver leaves with rosey pink hues, round, 6-8", medium texture, distinguish this cultivar from other rexes. Of easy culture, flowers are pink.

Originated by Sylvia Leatherman address above in 1965, the plant was first distributed in 1973. Registered Aug. 15, 1974.

No. 426—*Begonia* (unknown parentage) 'Calca'

Named by the originator, Mrs. Mickey Meyer, Yuppara St., Tathra, N.S.W., Australia, using the aboriginal word for 'Star', this cultivar came from the same seed pod as *B. 'Mara'* which follows. Leaves are apple green, very starred, black in blotches, $3\frac{1}{2}$ " x $5\frac{1}{2}$ ", margined with short white eyelash, texture crisp, standing erect, with six nerves. The flowers of this rhizomatous begonia emerge green but open to a white/pink, closely arranged in several bunches on 10 inch stems, blooming spring through autumn. Registered Sept. 25, 1974.

No. 427—*Begonia* (unknown parentage) 'Mara'

Conjecturing that a *B. bowerae* hybrid may have been the pollen parent of this rhizomatous begonia which Mrs. Mickey Meyer, address above, developed in 1973, first blooming in 1974 when it was distributed, the originator describes the leaves as bright green, fluffy, loosely falling, bluntly starred with one long point, $4\frac{1}{2}$ " x $5\frac{1}{2}$ "; white eyelash, black blanket-edging, crisp texture, with seven veins slightly indented. Blooms from spring through autumn with pale pink flowers, held upright on 8-10" stems high above the plant. Registered Sept. 25, 1974.

No. 428—*Begonia* (*B. 'Stash'* x unidentified plant) 'Tarlit'

The unidentified parent suspected to be one with plain green, oak-leaf shaped leaves, this rhizomatous plant has very flat leaves, as if cut from paper, a rich brown, reddish over all,

slightly starred with one long point, 3" x 4", margin lightly serrated, texture light, dainty, with six nerves, slightly recessed. Blooms spring through autumn arranged in clumps of five to six blossoms on 7" hairy stems. Originated in 1973 by Mrs. Mickey Meyer, address above, this plant first bloomed and was first distributed in 1974. Registered Sept. 25, 1974.

No. 429—Begonia (B. 'Stash' self-pollinated) 'Ingar'

This thickly-growing, rhizomatous plant was developed in 1972, first bloomed in 1973, and was first distributed in 1974 by Mrs. Mickey Meyer, address above. The leaves are black-brown, green down the center; shape stubbily starred, $4\frac{1}{2}$ " x 5"; margin faintly serrated and short-eyelashed; texture slightly bristled on taffeta-like surface; six indented nerves. Blooming from spring to fall, the flowers emerge green, coming to pale pink at maturity; they are in clusters of several bunches, smallish and closely arranged on a 10 to 12 inch stem. Registered Sept. 25, 1974.

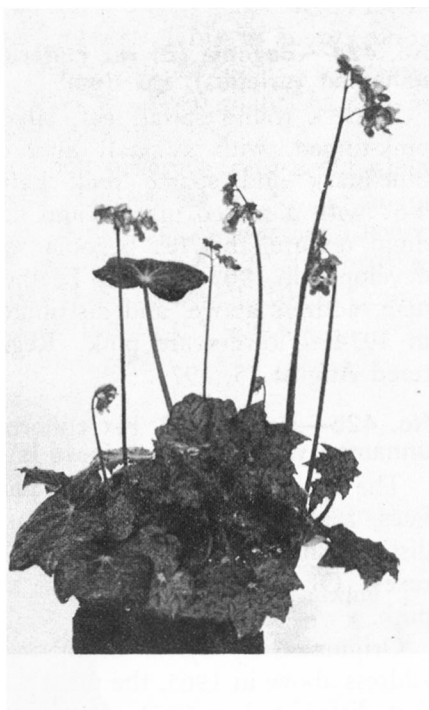
No. 430—Begonia (B. 'Stash' x unknown) 'Chipalee'

Developed by Mrs. Mickey Meyer, address above, in 1973 this rhizomatous begonia first bloomed and distributed in 1974. The pollen-parent being an unknown plant with plain green, oak-shaped leaves, this plant is described as having leaves bright green with black, star-shaped, $3\frac{1}{2}$ " x 3", margin slightly serrated, eye-lashed, with waxy texture. Small insignificant flowers are pale pink and are arranged in loose open

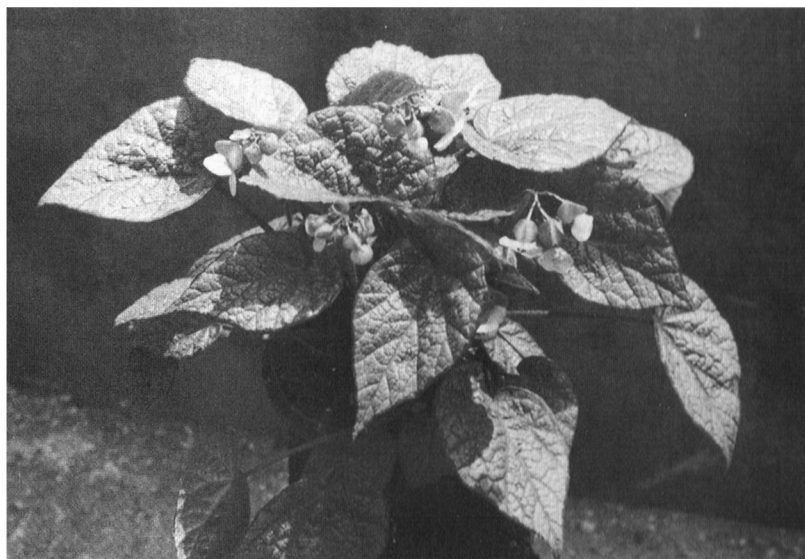
bunches on 7-9" stems blooms spring through summer. Registered Sept. 25, 1974.

No. 431—Begonia (B. 'Norah Bedson' x B. 'Verde Grande' seedling) 'Stained Glass'

Hiroshi Shigemi, 1-7 Shinonomehigashi-machi Sakae, Osaka, Japan, originated this rhizomatous begonia in 1970; it first bloomed in 1971, and was first distributed and published in Japan in 1972, publication not shown. The leaves are mahogany-red, star-shaped, 5" x $3\frac{1}{2}$ ", margin eyelashed, texture satiny, seven nerves, petioles 5-6". Flowers are pink less than one inch, on 8" flower stem in spring. Registered Jan. 6, 1975.

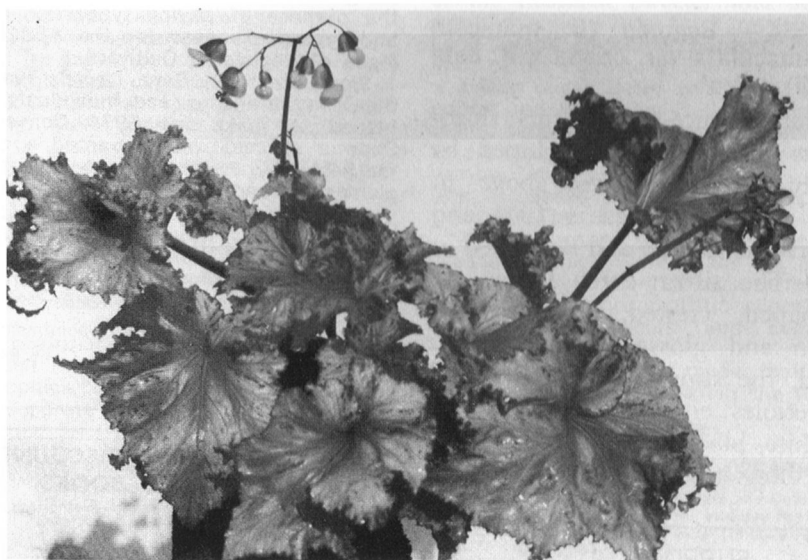


B. 'Stained Glass'



Above — *B.* 'Piccolo'

Below — *B.* 'Hiro'



No. 432 — Begonia (B. manicata aureo-maculata var. crispa x B. 'Zip') 'Nagare'

Developed in 1970, first bloomed in 1971 and was first distributed and published in 1972, publication unknown, by Hiroshi Shigemi, address above. A rhizomatous plant, the leaves are emerald green with red veins, round, 3" x 2½", margin crested, texture glossy, thick, nerves seven to nine, petioles 2½", with upright stipules. Flowers in early spring, clear pink, on 18" flower stem. Registered Jan. 6, 1975.

No. 433—Begonia (B. imperialis x B. aridicaulis) 'Piccolo'

This rhizomatous begonia has leaves textured like lustrous Japanese crepe, silver-green with light green veins, uneven heart-shaped, 4" x 2½", margin hairy, 7-9 nerves, petioles 4" hairy, stipules slender. Blooms in early summer, white, *imperialis*-type, on five inch stem. Registered Jan. 6, 1975.

No. 434 — Begonia (B. manicata aureo-maculata var. crispa x B. liebmanni) 'Hiro'

Silvery lettuce-leaved, this rhizomatous begonia was developed by Hiroshi Shigemi, address above, in 1970; it first bloomed in 1971 and was first distributed and published in 1972. The silvery-green leaves are star-shaped, crested, with twisted margin and glossy texture; seven-nerved, the stipules are sturdy and the petioles eight inches. Flowers are white, blooming in spring on 6" stems. Registered Jan. 6, 1975.

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**CONDENSED NOTES OF MEETINGS
OF THE AMERICAN BEGONIA
SOCIETY BOARD OF DIRECTORS
October 28, 1974**

Meeting of the Board of Directors of the American Begonia Society at South Gate Auditorium was called to order by President Margaret Ziesenhenné at 7:45 p.m., October 28, 1974, a quorum being present according to the official count. Minutes of meetings of July 22 and September 23, 1974, were read by Secretary Margaret Ireton and approved.

It was moved, seconded and passed unanimously that the Board approve the year's lease agreement for the rental of a single garage in Culver City for the storage of old records, equipment and other materials of the ABS, arrangements having been made by Arnold Krupnick, circulation manager.

It was moved, seconded and carried unanimously that a bill for labels for use of the membership secretary be approved and that future purchases of supplies for the membership activity be authorized in accordance with the initial agreement with that officer.

It was moved, seconded and carried unanimously that a bill of the president for telephone and mailing expenses in amount of \$68.96 be allowed.

It was moved, seconded and carried that an amount of \$500 be withdrawn from the ABS Catalogue Fund savings account and deposited in an account in Santa Barbara, with Margaret Ireton and Margaret Ziesenhenné, as signators, for the purpose of paying typewriter rental and typing expenses for the ABS Catalogue of Registered Cultivars.

Show Chairman Gene Daniels thanked the many branches and individuals who helped to make the 1974 Convention Show a success and presented a check for \$4,489.03 as the proceeds from the plant sales and donations. He requested

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that the financial report be audited and that the ABS secretary send a letter to Bonnie Doan, show treasurer, to thank her for her work in connection with the show.

Proposals for use of show proceeds made by the 1974 Show Committee were made by Mr. Daniels: (1) That 15% of show net profit be used for transportation of officers to conventions; (2) that 10% be used by the Research Director for research needed in connection with the ABS Catalogue of Cultivar begonias; (3) that funds be allocated to run four full page color plates inside *The Begonian* so people can have them for framing purposes.

The following motion was made by Daniels, seconded and passed unanimously: That 15% of the net profit of the 1974 show be put in a separate account to be used for the transportation of one member of a family only to attend any convention within the United States, to be used for transportation only, not for food or housing, the person to be chosen by the convention committee running the convention and approved by the ABS Board of Directors, the fund to be designated the Perpetual Travel Fund.

Daniels moved and the motion was seconded that 10% of the net profits of the 1974 show be sent to the Research Director to be used to finance the research of the *Begonia* catalogue. After discussion the motion was tabled until the report of the budget committee had been heard.

Daniels read the following show committee recommendations which were referred by unanimous action of the Board to a legislative committee consisting of Peg McGrath, chairman, Ruth Pease, Gene Daniels, Walter Hansen, and Cecilia Grivich, to prepare resolutions as amendments to Show Standing Rules and present them to the Board as soon as possible: (1) Authorization of a party critique of show within a month, costing not more than \$100; (2) Financial report must be presented to Board within two months of close of show; (3) Minimum fee of \$100 or 5% of profit of show be paid show chairman and plant sales chairman, provided net profit is at least \$200; (4) No trophies be purchased until after show and separate trophy ribbons will mark

winners at show; (5) New trophies will be in form of useable bowls and trays for the more important divisions; a small plaque may be engraved with one or more awards for the less important divisions; (6) Incoming moneys shall be counted by two non-related members, packaged and sealed, and removed from the sales area three times a day and placed in a safe away from the sales area; (7) ABS will provide two cash registers and all money must be registered by these machines; (8) ABS must receive at least 40% of commercial plant sales, and 50% of manufactured merchandise sales if commercial booths are allowed; (9) There shall be no commercial booths at the sale if the area is less than 1600 square feet; (10) If commercial booths are at the sale all moneys must transact through the cash registers, the keys to record these sales separately; (11) Door prize ticket donations shall be \$2.00 per ticket and three shall be mailed each member of the ABS accompanied by full information regarding show and convention; (12) All fulltime show and convention personnel who must work on the Thursday prior to the show and/or on the day following the show shall have their rooms for Thursday and Sunday paid; (13) There shall be one division for all hanging basket plants, but the placement of the plant within a division or its regular division is at the discretion of the classification chairman, not the exhibitor.

Nomenclature and Seed Fund Directors reported, and the latter read the report of the Research Director who acknowledged donations from the Tampa Bay and Long Island Branches bringing the balance of the Fund to \$1528.71.

Editor Edgar Bates introduced his co-editor and wife, Phyllis. A motion was made, seconded and carried unanimously to authorize four extra pages for the November issue. The advertising activity was discussed as were color reproductions for *The Begonian* covers.

The proposed budget presented by Treasurer Walter Barnett for the Finance Committee was referred back to the committee for a more realistic allocation of expenses of officers and committee chairmen.

Final decision was made that South Gate Auditorium will remain the meeting place of the Board.

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CONDENSED NOTES OF MEETINGS OF THE AMERICAN BEGONIA SOCIETY BOARD OF DIRECTORS November 25, 1974

Meeting of the Board of Directors of the American Begonia Society at South Gate Auditorium was called to order by President M. Ziesenhenné at 7:45 p.m. November 25, 1974, a quorum being present. Reading of minutes of the previous meeting was postponed as Secretary M. Ireton was unable to attend due to accident. P. McGrath was appointed acting secretary.

VP C. Richardson gave report of balloting committee given him by Secretary on proposition passed by the membership at annual meeting of Sept. 7, 1974 and presented to the membership at large. Amendment to Section 3 of Article IV, Constitution of ABS, Yes 140, No 14; Amendment to Section 4, Article IV, Yes 141; No. 20; Amendment to Section 2 of Article I of ByLaws, Yes 154, No 10; Amendment to Section 1 of Article II, ByLaws, Yes 149, No 14. Motion made by R. Ziesenhenné, seconded and carried unanimously that report of balloting by the Secretary be accepted and printed in *The Begonian* as soon as possible.

Richardson reported Secretary Ireton in favor of raising ABS dues if senior citizen rate is provided; she is writing branches to see if they wish to continue to receive Board Minutes.

Treasurer W. Barnett reported Santa Clara Valley Branch donated \$15 to the ABS Research Fund in lieu of their Christmas advertisement.

Parliamentarian McGrath reported on parliamentary procedures for Board meetings. Regarding validation of Branch Representatives, Mrs. McGrath said last year she had sent questionnaires to all branches and had received only 26 replies. There was discussion of the validity of votes of associate members on ABS Board.

Circulation Manager A. Krupnick said postal charges are being increased.

Letter from Mrs. E. Cronin, Branch Relations Director, of organization of Rochester Branch of ABS discussed and Mrs. McGrath stated nine valid members signed charter; she moved that Rochester Branch be accepted into membership as soon as constitution and bylaws have been approved. Motion seconded and passed. Treasurer requested that Rochester Branch be asked to use fiscal year ending July 31 to facilitate ABS National reporting.

President reported receipt of letters from Corliss Engle, PR representative in northeastern area, from Betty Tillotson, Historian, who asked for material for her work and dates of Board meetings, and from Judging School Chairman R. Pease who had distributed questionnaires to all registered judges.

Librarian L. Austin reported sales of cultural and propagation books; she ordered 20 "Tuberous Begonia" by Brian Langdon; she had R. Ziesenhenné tell about the new Japanese Begonia book which H. Arakawa brought to the 1974 Convention; motion made, seconded and carried that an article be placed in *The Begonian* about book and inviting members to let Librarian know if they want copies. Seed Chairman P. Benell offered to circulate list for Board members who wish to order Thompson Classification book.

Research Director C. L'Hommédiu's report acknowledged 10% Seed Fund profit for Research Fund; committee had turned down request for a travel grant for begonia collecting as it was felt not type of funding acceptable. Connecticut Branch donated \$100 to Fund.

Editor E. Bates reported *The Begonian* December issue almost complete; they are working on January issue and getting advertising records in shape. Mrs. E. Passet will bill advertising.

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Round Robin report was read and Seed Fund report given; President reported no invitation yet received for 1975 Convention. She had made tentative reservation at Francisco Torres, Goleta, in case no invitation elsewhere received; she gave Treasurer final report of 1974 Convention Committee and check for balance.

K. Alberti reported Slide Library activities.

Treasurer presented 1975 budget on behalf of Finance Committee for approval; committee did not recommend a raise in dues. Report was accepted by motion, seconded and carried after a motion that the \$900 allocated to the editors was to be clear and any expenses incurred by editors on behalf of ABS or *The Begonian* were to be reimbursed, was seconded and passed.

Ziesenhenné reported previous dues rates: 1934-10/43 \$1.00; 11/42-12/50 \$1.50; 1/51-5/68 \$2.50; 6/64-present \$4.00. He decried necessity of ABS officers having to absorb sometimes heavy expenses personally.

Treasurer moved that ABS buy 50 ABS insignia pins of rhodium plate on base metal (bronze) from J. A. Meyers and Co.; the motion was seconded and passed unanimously. Treasurer will check on the acquisition of a new die.

Ziesenhenné moved that the following motion be placed in the minutes: That ABS officers not accounting for their expense allowances may do so without obligating the American Begonia Society to pay employment taxes on the amount not accounted for. Seconded and passed unanimously.

A motion to raise the dues died for want of a second as the hour was late and not enough time to discuss properly; it was agreed to bring the matter up next meeting, January 27, 1975.

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CONDENSED NOTES OF MEETINGS OF THE AMERICAN BEGONIA SOCIETY BOARD OF DIRECTORS January 27, 1975

Meeting was called to order by Charles A. Richardson, first vice president, as president was unable to attend. Twenty-one members answered the roll call. The minutes of the meetings of October 28 and November 25, read by Secretary Margaret Ireton, were approved.

The Treasurer reported balance on hand of \$7735.36 as of 11/18/74, receipts \$3,076.76, and disbursements \$7,546.96 including a transfer to a special savings account \$4000 of the funds turned over by 1974 Show Chairman; \$1521 was paid for printing *The Begonian* and membership and circulation cost was \$969.88; the balance as of 1/18/75 in the general fund is \$3565.16.

Appointments of Dr. Fred Barkley as national public relations director, and of Herbert Warrick and Hyacinth Smith as PR directors for the northwest and northern California areas were approved.

Until the status of Jacqueline Garinger with respect to employment taxes is cleared with California authorities, it was suggested her appointment as membership secretary and Edith Krupnick's as assistant be delayed until next month.

Librarian Lydia Austin reported ordering additional Langdon Tuberous Begonia books from England, and was ready to send an order for 50 of the Japanese begonia books. She had over \$1000 in the library fund because of the response to publicity about the Japanese book.

Nomenclature Chairman Ziesenhenné reported the Research Committee had approved a grant to the New York Botanical Garden Library to research the world-renowned library's literature on Begonia for material needed in the ABS cultivar and species catalogues. Species material will be sent Carrie Karegeannes to be associated with her work with the species. Ziesenhenné will associate the cultivar material with his research material.

Third VP Peg McGrath reported on a meeting held 1/23/75 at Walter Pease residence to consider the 1974 Show Committee proposals presented October 28 by Gene Daniels. The committee decided none of the recommendations should appear in the ABS Standing Rules, all being of a procedural nature and should be left to the discretion of the new show committee. An interim finance report should be presented to the Board within two months of the close of the show. Cash bags should be provided for the removal of cash during show hours. All sales should be made by the ABS, com-

mercial nurseries being invited to display only. Sending tickets through the mail is illegal unless they are solicited. Show Committee should make up a complete book of show procedures so that the names of the winning plants and exhibitors plants will be recorded. Loudspeakers should not be used in Show area unless for emergencies. Treasurer should pay only by check.

Seed Fund Director Pearl Benell reported she had received word from Dr. Doorenbos of The Netherlands that as he is revamping his greenhouses and starting afresh with new plants, he will not be able to supply seed to the ABS for several months; this being her chief supply of seed, Mrs. Benell urged others to raise seed for her so she will be able to continue her work. Seed fund income reported for two months \$456.75; net income after expenses \$434.25.

Slide Librarian Katharine Alberti reported much activity with her two programs; she wants to work up a third; has written 20 letters this month on behalf of ABS.

Secretary read report of Mae Blanton, Round Robin Director. Eight flights had hit home during the Nov.-Dec. period; she had received five requests to be placed on a flight, had written 24 letters and one card.

Research Director Carl L'Hommedieu's reports of Oct. 28 and Jan. 27 were read by the Secretary. Mr. L'Hommedieu told of contacts made in England by M. L. McIntyre and Carrie Karegeannes. He mentioned four descriptive booklets he received from botanical gardens at Kew, Glasgow, Edinburgh, and Liverpool which were part of Research Dept. display prepared by Barbara Philip, Santa Barbara Branch member at the 1974 Convention. The following grants have been recommended to Board for approval from the Research Fund: \$1000 loan to Millie Thompson to complete the printing of **The Thompson Begonia Guide**; \$600 to Rutgers University to continue leaf-stem project; \$600 to New York Botanical Garden for research of species and unregistered cultivars in horticultural literature there. He asked that amounts of donations and donors' names be listed in **The Begonian**, the latest donations having brought the Research Fund to \$1775.

It was passed with one negative vote that a loan of \$1000 be made to Millie Thompson to complete the printing of **The Thompson Begonia Guide** to be paid from the ABS special savings account.

Grants from the Research Fund of \$600 to Rutgers University for the leaf-stem project and \$600 to the New York Botanical Garden for the catalogue research were approved unanimously.

Following a discussion of color covers

and inside **The Begonian**, (the price of four covers still being \$440,) the question of paying bills over \$50 without prior authorization from the Board was brought up. It was explained that the officer's integrity was not being questioned but the legality of such and the danger of his jeopardizing himself required Board action. A motion was passed to authorize the Treasurer to pay bills as they are received in connection with the publication and distribution of **The Begonian**, and other recurring expenses, such as the Clayton M. Kelley Seed Fund.

Motion was carried that the amounts and names of the donors to the Research and Begonia Catalogue Funds be published in **The Begonian** not oftener than quarterly.

Authorization for the preparation of a cumulative bibliography of **The Begonian** as outlined by Lee C. R. Baker's letter of October 23, 1974 to the ABS president was passed unanimously, the only expense being the furnishing of supplies needed and a full set of **The Begonian** to Mr. Baker, a graduate student in English Language and Literature working on his Ph.D. at the University of Virginia.

The invitation of the Santa Barbara Branch of the ABS to host 1975 Convention of the ABS was accepted. With proper cooperation by other branches, the branch will include the annual show and plant sale. Only change is price of basic room cost per person, an increase of \$2.

The Treasurer was authorized to secure paper for the next five issues of **The Begonian** at a cost of \$1800.

The announcement of the first meeting of the Hampton Branch and installation of its officers headed by Edward Thompson was read. The branch had been sent its \$30 ABS gift.

Ten point type instead of the present 12 point was suggested as a method of conserving on postage for **The Begonian**. The matter was to be brought up at the Editorial Board meeting on February 2 at the Bates' home.

Judges Course Director Margaret Lee said she had received complaints that persons who write articles for **The Begonian** have not been receiving complimentary copies as in the past. The Circulation Representative knew of no such practice but would check on it.

Reports were heard from nine branch representatives.

The Research Director was authorized by motion carried unanimously to allot \$600 for photocopying material needed for the species and cultivar catalogue research by the New York Botanical Garden.

The Treasurer was authorized to have a new supply of Life Membership Cards printed the old supply having apparently been exhausted.

CALENDAR

March 14—Redondo Area Branch 7:30 p.m. at Dana School, 135th Street and Aviation Blvd., Hawthorne, Calif. Speaker: Wanda Elin, will lecture on begonias. Visitors welcome. Door Prizes. Refreshment. Plant Table.

Monday, March 10, 1975 — Hampton Branch regular meeting at 7:45 p.m. Plant Sales, Library and Slide Library precede the meeting. Begonia of the Month: *B. 'Rudy'* by Mary Burnaford. Program: Soil Nutrition by Henry Euler.

The American Gloxinia and Gesneriad Society will hold its 1975 National Convention and Flower Show in Tucson, Arizona on May 29, 30, and 31. The convention will be held at the Doubletree Inn, 445 South Alvernon Way, Tucson. The Flower Show is open to the public, free of charge, at the following times: Friday, May 30th, 2-5 p.m. Saturday, May 31st, 9-12 a.m. Address all inquiries to: Mrs. Robert Kavanaugh, Local Convention Chairman, 6402 East Scarlett, Tucson, Arizona 85710.

PUBLICATION NOTICE

All material for publication — articles, notices, photographs — should be sent to the Editor, preferably six weeks before date of publication. Deadline is the first of the month preceding month of publication.

Advertising copy and inquiries should be sent to the Editor.

"THE BEGONIAN"

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Full Page	\$40.00	\$30.00
Half Page	20.00	18.50
Quarter Page	12.50	10.00
Per Inch	5.00	3.50

GROWING BEGONIAS

(Continued from Page 55)

I received a number of choice rex cuttings which I nervously tried by wedge and whole leaf to propagate in bark chips. Happily, all developed into strong plants with the exception of one leaf which was lost in long fibered sphagnum moss. I did conclude that propagation in damp sphagnum moss is faster but I lost more. I have not lost a cutting being propagated in coarse bark chips so far. Incidentally, all cuttings are left uncovered on the bench in individual pots (small styrofoam). The roots I noticed are much thicker in diameter, especially the rexes, both seedlings and mature plants. They roam all over, not only out of the side slots but across the top and over the pot edge. Naturally this wouldn't happen under less humid conditions.

I have not reached definite conclusions on the larger rex plants but seedling rexes have responded beyond all expectations. Rhizomatous begonia hybrids and species are responding well. Plants such as *B. goegoensis*, *B. decora*, *B. 'Mumtaz'*, *B. 'Universe'*, *B. ficicola*, *B. versicolor*, *B. 'Miyo Berger'*, and *B. quadrialata* are becoming specimens. It's too early for conclusions on most cane types but they are growing well. Two young rex plants, *B. 'Purple Petticoats'* and *B. 'Glory of St. Albans'* have become very compact and beautiful, growing in the bark under the constant moisture and feeding. Their containers are kept small to keep them slightly root bound.

Another year or so will be needed to evaluate fully on the various types of begonias at which time I hope to report further.

BRANCH DIRECTORY

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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

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
Drane McElroy
9010 209th Ave., N.E., Redmond, Wash. 98052

EDNA STEWART PITTSBURGH BRANCH

3rd Wednesday, 8:00 p.m.
Phipps Conservatory
Beverly Coyle, Corr. Secretary
144 McCurdy Drive, Pittsburgh, Pa. 15235

EL MONTE COMMUNITY BRANCH

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

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.
Loretta Stocks, Sec'y.
2668 Redlands Drive, Costa Mesa, Ca. 92626

GERALDINE DALY BEGONIA BRANCH

1st Saturday, Homes of Members
Mrs. Arline G. Peck, Secy.
Eagle Peak Road, Pascoag, R.I. 02859

GLENDALE 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

HAMPTON BRANCH

2nd Monday, 7:45 p.m.
Parrish Memorial Hall, Southampton, N.Y.
Mildred L. Thompson
310-A Hill Street, Southampton, N.Y. 11968

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 New York
128 West 58th St., New York
Samantha G. Langer, Secy.
233 E. 69th Street
New York, NY 10021

LONG BEACH PARENT CHAPTER

2nd Sunday, 1:30 p.m.
Glendale Savings & Loan Bldg.
5535 E. Stearnes Street
Los Altos Shopping Center, Long Beach, Calif.
Miss P. E. Powell, Secy.
3031 Shakespeare Dr., Los Alamitos, Ca. 90720

LONG ISLAND BRANCH

2nd Wednesday, 8:00 p.m.
Planting Fields Arboretum
Oyster Bay, Long Island, N.Y.
Mrs. Decise Barthold, Corr. Sec'y.
248 Manor Road, Douglaston, N.Y. 11363

MESQUITE BRANCH

1st Tuesday, 10:30 a.m., Members homes
Mrs. Mae Blanton, Secy.
118 Wildoak Drive, Lake Dallas, Texas 75065

MIAMI BRANCH

4th Tuesday, 8:00 p.m.
Simpson Memorial Garden Center
55 South West 17th Road, Miami, Florida
Mrs. Alma Crawford, Secy.
14250 Madison St., Miami, Florida 33158

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. Mary Peterson, Sec'y.
24522 Pescadero Rd., Carmel, CA. 93921

NORTH LONG BEACH BRANCH

2nd Friday, 7:30 P.M., 5535 Stearns, Long Beach,
Glendale Federal Savings and Loan Bldg.
Miss Carol Ruane, Secy.
2133 Pacific Ave.
Long Beach, Calif. 90806

ORANGE COUNTY BRANCH

2nd Thursday, 7:30 p.m.
First Christian Church,
1130 E. Walnut Street, Orange, California
Mrs. Norma Taylor, Secy.
2414 N. Bristol, Santa Ana, Ca. 92667

PORTLAND BRANCH

Mrs. James Heffner
3239 S.E. 131st Ave., Portland, OR 97236

REDONDO AREA BRANCH

4th Friday, 7:30 p.m.
R. H. Dana School Cafetorium
135th St. and Aviation Blvd., Hawthorne, Calif.
Mrs. Susian Shaner, Secy.
5026 W. 122nd Street, Hawthorne, Calif. 90250

ROBINSON, ALFRED D. BRANCH

2nd Tuesday, 10:30 A.M. Homes of Members
Juana Curtis, Secy.
4107 Taos Dr., San Diego, Ca. 92117

RUBIDOUX BRANCH

4th Thursday, 7:30 p.m., West Riverside Memorial Hall
4393 Riverside Drive, Rubidoux, Ca.
Mrs. Cindy Gray, Secy.
22601 Whittier Street, Colton, CA 92324

SACRAMENTO BRANCH

3rd Tuesday, 8:00 p.m., Garden Center
3300 McKinley Blvd., Sacramento, Calif.
Mrs. Beverly Bartlett, Secy.
725 36th Street, Sacramento, Ca. 95816

SALINE COUNTY BRANCH OF KANSAS

4th Monday, 1:30 p.m., Homes of Members
Mrs. Jesse B. Harper, Secy.
Route 3, 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 Tuesday, 7:30 P.M.
Los Angeles State and County Arboretum
501 N. Baldwin Ave., Arcadia, Calif.
Mrs. Elizabeth Stuart, Secy.
169 Mauna Loa Dr., Monrovia, Ca. 91016

SAN MIGUEL BRANCH

1st Wednesday, 7:30 P.M.
Casa del Prado (Rm. 104)
Balboa Park, San Diego
Mrs. Nova Gillis, Secy.
11885 Walnut Rd., Lakeside, Ca. 92040

SANTA BARBARA BRANCH

2nd Thursday, 7:30 p.m.
Santa Barbara Museum of Natural History
2559 Puesta Del Sol
Mrs. Patricia Hill, Secy.
1339 Mission Ridge Road, Santa Barbara, Ca. 93103

SANTA CLARA VALLEY BRANCH

4th Thursday, 8:00 p.m.
Covington School
Covington Rd. near Foothill Expressway and
El Monte Road in Los Altos
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.
Janeen Lynch, Secy.
8248 16th N.E., Seattle, Wash. 98115

SHEPHERD, THEODOSIA BURR BRANCH

1st Tuesday, 7:30 p.m.
Senior Citizens Bldg., 420 Santa Clara St.,
Ventura, Ca.
Mrs. Bernice Barker, Sec'y
3316 Porter Lane, Ventura, CA. 93003

SOUTH SEATTLE BRANCH

4th Tuesday, 7:30 p.m., Wm. Mosher Field House
430 South 156th Burtlen
Mrs. Viva Musgrave, Secy.
11447 12th Ave., Seattle, Wash. 98146

TAMPA BAY AREA BRANCH

Mrs. Grace McDougall, Secy.
Plum St., Inverness Highlands
Inverness, Florida 32650

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. Herman, Secy.
306 Cody, Houston, Texas 77009

WESTCHESTER BRANCH

1st Thursday, 7:30 p.m., Westchester Women's Club
8020 Alverstone Ave., Los Angeles, Calif.
Barbara Mack, Secy.
424 Oregon St., El Segundo, Ca. 90245

WESTERN PENNSYLVANIA BRANCH

2nd Wednesday 11:00 a.m. every month
Pittsburgh Garden Center, 1059 Shady Ave.,
Pittsburgh, Pa.
Mrs. Alfred Slee, Secy.
211 Arlington Ave., Butler, Pa. 16001

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. John W. Watson, Secy.
209 Pembroke Ave.
Wayne, Pa. 19087

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