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AIMS AND PURPOSES OF THE AMERICAN BEGONIA SOCIETY

The purpose of this Society shall be:

- TO stimulate and promote interest in *Begonia* and other shade-loving plants;
- TO encourage the introduction and development of new types of these plants;
- TO standardize the nomenclature of *Begonia*;
- TO gather and publish information in regard to kinds, propagation and culture of *Begonia* 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 *Begonia*.

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- Views expressed in this magazine are not necessarily those of the editors, the society, or its officers.

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IN THIS ISSUE

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MOVING?

If you are planning to move, be sure to send a change of address notice to the Membership Secretary. Copies of the *Begonian* which are sent by Second Class Mail are returned to the office and are not forwarded by the Post Office.

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BEGONIA REPENS Vell.

By Rudolf Ziesenhenné Nomenclature Director

Identifying a newly-collected *Begonia* is often quite puzzling as there is no one place to which one may turn to learn the plant's name, if it has one. The original descriptions of *Begonia* seldom included drawings and the illustrated ones often did not have herbarium material to back them up. Some of the illustrations are not true to life and may evidence too much artistic license.

This was the problem faced in 1969 when I received a *Begonia* under the name of "*Begonia fusco-sericea*" from Josef Bogner, director of the Munich Botanical Garden, West Germany; I could not find such a *Begonia* name in the many indices I have. I potted the plant and grew it on in a terrarium; when the plant came into bloom I made drawings of the flowers and various parts. Comparing this material with the *Begonia* of Section *Trachelocarpus* (CM.) A.DC., I found that it agreed with the description of *B. repens* Vell. which Vellozo described in *Flora Fluminensis* of 1835, p. 403, no. 3, and which was pictured in 1836, volume 10, plate 35. Alphonse De Candolle in his *Prodromus*, vol. 15 (1):206-408, May 1864, p. 401, lists *B. repens* Vell. as having insufficient information to really understand the plant.

In botanical literature the first use of the name "repens" for a *Begonia* is *Begonia repens* Lamark in *Encyclopedie Methodique Botanique* vol. 1, page 394, 1785; this name was found invalid since the plant it applied to

was *B. rotundifolia* Lamark, published on the same page.

Begonia repens Blume, published in 1827, in *Enumeratio Plantarum Javae*, vol. 1, p. 95, was renamed *B. mollis* A.DC. by Alphonse De Candolle in his 1864 *Prodromus* XV, I.

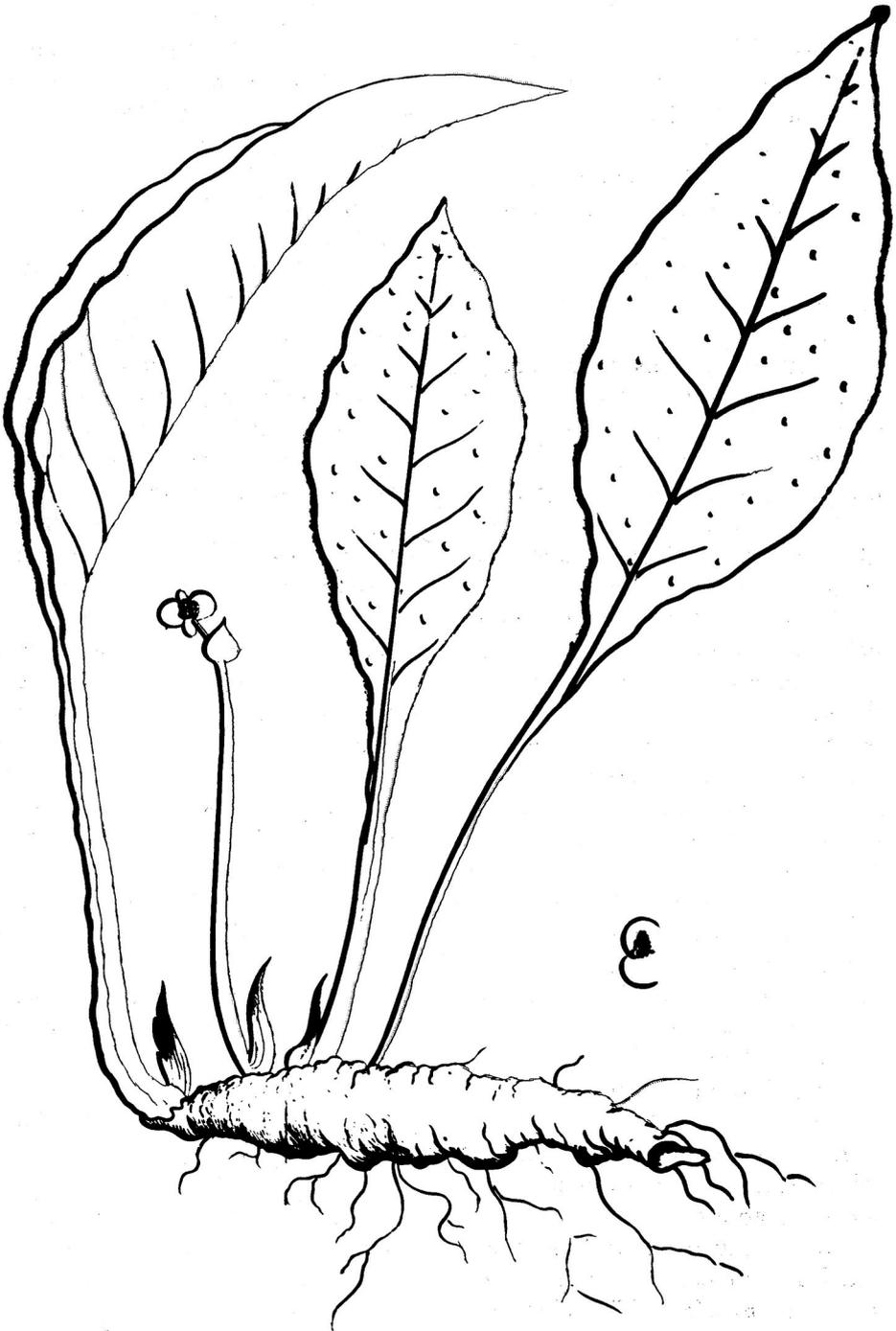
In 1842 Wilhelm Walpers listed all the known *Begonia* in *Reperitorium Botanices Systematicae* II, pages 206-217. On page 208, no. 27, he lists *Begonia repens* Blume as a valid name. On page 216 he renamed *B. repens* Vell. as *B. velloziana* Walpers, believing Vellozo's name for *B. repens* to be invalid.

The following determinations were made by A. De Candolle in his 1864 *Prodromus*:

Begonia repens Ruiz & Pav. was changed to *B. rossmanniae* A.DC.; *B. repens* Schott was identified as *B. convolvulacea* A.DC.; *B. repens* Hemsl. was found to be *B. liebmannii* A.DC.; and finally *B. repens* Sesse & Moc. was determined to be *B. scandens* Sw. described in 1783.

With all the above uses of the name "repens" it is interesting to observe that *Index Kewensis* lists *Begonia repens* Vell. as the only valid use of the name, listing *B. velloziana* Walp. as a synonym. Interestingly, in 1948 Brade described a new plant and named it *B. vellozoana* but in 1965 Smith & Schubert changed that name to *B. olsoniae*; *Index Kewensis* indicates the latter name is a synonym of *B. vellozoana* Brade.

In order to understand the plant that Vellozo was trying to describe,



Reproduction of drawing of *B. repens* Vell. from
Flora Fluminensis, 1836: vol. 10, plate 35

let us refer to what he wrote on p. 403 of *Flora Fluminensis*:

"3. *Begonia repens*. B. leaves lanceolate, arising from the root; root creeping. (Table 35, Vol. 10)

"Observations:

"Stemless, root resembling a tuber, running horizontally. Leaf scattered, standing by itself, petioled, lance-like, somewhat running down the stem, round-toothed, ciliated, below purplish, above green, polished, punctuated with white spots, erect, tapering very gradually to a point. Stipules curved like a sickle. Flower stem standing by itself, in the manner of the petioles, red-colored, single-flowered. Bracts heartshaped each half. Flowers white. Stamens and pistil yellow.

"Habitat place near to mountains growing in shade."

The above is certainly a brief description for this Brazilian species, but by looking at the drawing, table 35, one has a reasonable illustration of the plant. Vellozo says nothing about the leaf margin except that it has rounded teeth. Walpers, in making a description, said the leaf margin is uneven and sinuous. I do not agree with Walpers because in growing this plant I find the leaf margin undulate, up and down, and contend in the illustration of the flat leaves the artist is trying to convey an undulate condition to the viewer rather than an indentation condition. The folded leaf shows a straight margin and undulations.

From living material I have prepared a complete description of *Begonia repens* Vell. The plant was grown in a terrarium under lights. Recently I obtained this same plant

from Leslie Woodriff which was grown in his glasshouse and the leaves were much larger in all dimensions and similar to Vellozo's illustration. The description follows:

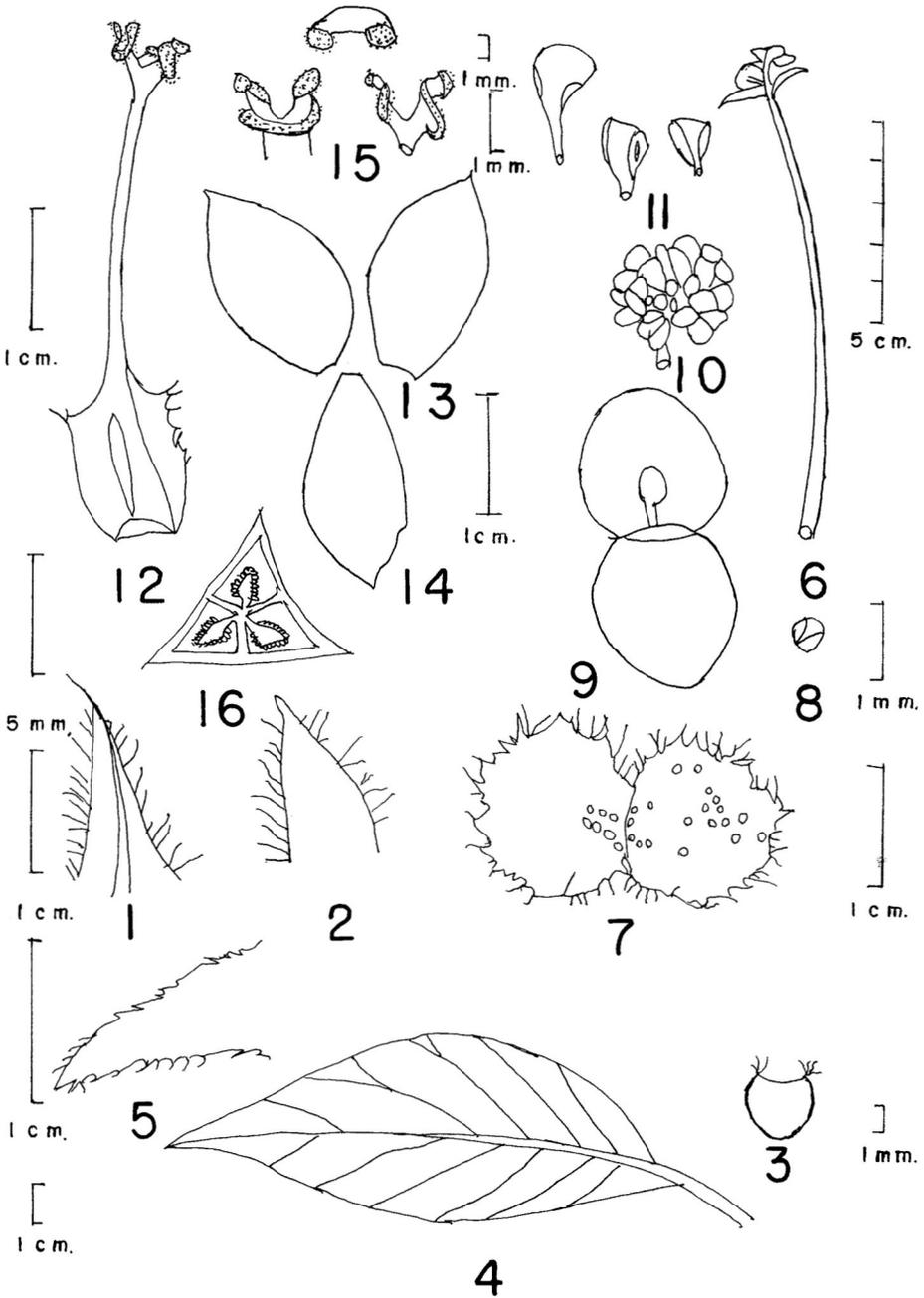
BEGONIA REPENS Vell.

FROM LIVING MATERIAL

Stem a rhizome creeping and rooting, growing horizontally, irregular in outline, ultimately much-branched, 21½ cm (1") long, 6 mm (¼") in diameter, foliage near tip of plant; internodes closely spaced, green but turning brown; thickly covered on upper side with stipules, stipules remaining, inside or top ones (figure 1), long triangular, keeled, extending beyond the tip of the stipule, 3 mm, margin unbroken, ciliated (2 mm) 1.6 mm long, 8 mm wide, lower or outside ones (figure 2) egg-shaped, tip terminating abruptly in a rounded end, the middle of which is suddenly extended to long blunt point, not keeled, margin not broken, ciliated (2 mm) 1.4 cm long, 8 mm wide, deep red with tip green.

Petiole cylindrical to side-channeled (figure 3), the channel edges ciliated, 4.2 mm wide, 3 mm deep, 4 cm long, maroon, dull, few scattered clear hairs and an occasional spherical hair.

Leaf blade (figure 4) firm but medium in thickness, above medium green, silver-spotted, spots irregular in size, circular, of various sizes up to 1 mm in diameter, moderately dense (about 15 to one square cm) surface with a satiny sheen, moderately covered with minute pits, from each silver spot emerges a short (1.1 mm) white hair with a reddish tip; below



Begonia repens Vellozo.

green, nerves projecting below, narrowly unevenly elliptical, tip (figure 5) coming to a point gradually, leaf base shortly attenuated, the blade running down the petiole, a greater distance on the inside edge of the leaf, margin double undulating, minutely-round, red-toothed, with smaller saw teeth, 12 cm ($4\frac{3}{4}$ ") long, 4.5 cm ($1\frac{3}{4}$ ") wide, feather nerved, alternating, 6 nerves inside, 6 nerves outside, the areas between the nerves bowed up.

Inflorescence: axillary, male and female flowers produced in different places; males 5 on a tall peduncle exceeding leaf length, multiflowered; female flowers produced singly and affixed directly on the rhizome without a projecting pedicel, summer-flowering; male (figure 6) peduncle from the leaf axils, smooth, 2 mm in diameter, 12 cm long, maroon-colored, upper $\frac{1}{4}$ with 6 - 7 globular cells, few scattered hairs (12) on basal half; bracts (figure 7) two, green, dull, outside hairs and clear spherical hairs (figure 8) circular, margin toothed and ciliated 1 mm to 3 mm, 2 cm in diameter; flower male (figure 9), pedicel 1 cm long, sepals 2, petals 0, white, egg-shaped, tip blunt, base slightly cordate, outer surface bare, 1.3 cm long 1.25 cm wide; stamens (figure 10) 32, filaments united into a column 2 mm tall, free part .8 mm, anthers (figure 11) broadly ovate, blunt, 1 mm long and wide; flower female (figure 12), bracts not observed, pedicels not observed, tepals 3, white, exterior elliptical, tip sharp-pointed, 1.7 mm long, 1 cm wide, interior (figure 14) 1, inverted egg-shaped, tip terminat-

ing abruptly in a little point, margin irregularly finely saw-toothed, 1.8 cm long, 9 mm wide; styles (figure 15) 3, supported on a reddish column 2.4 cm long, two-divided each branch 2.5 mm long, stigma papilla forms $1\frac{1}{2}$ twists; capsule (figure 12) 1.3 cm long, 9 mm wide, rectangular in side outline, tip tapering up to style otherwise straight, base rounded, cross section triangular, wings very short, ciliated, ovary 3-celled (figure 16), placentas angular ovate, solid, not divided, carrying seed around outside.

Brazil. Since I cannot locate a type-specimen for this plant, I have mounted a herbarium specimen of this plant which is in the herbarium of Rudolf Ziesenhenné, 1130 North Milpas Street, Santa Barbara, California 93103.

There is always a possibility that the plant given me as *Begonia fusco-sericea* may have been botanically named but I have not been able to locate it. However from my study I am convinced that the plant identified as *B. fusca-sericea* is indeed the same plant named *B. repens* by Vellozo and therefore is a synonym of *B. repens* Vell.

* * *

GLOSSARY

axillary — occurring in the angle of the branch
ciliate — fringed with fine hairs
keeled — having a long central rib
peduncle — main flower stem
pedicel — stem joining one of several flowers to the main stem
petiole — leaf stem
repens — creeping
sinuous — having a margin that is distinctly wavy

THE ROLE OF INSECTS IN BEGONIA POLLINATION SUPPLEMENT I

By Philip G. Seitner, Chicago, Illinois

An earlier article (*Begonian*, June 1976) attempted to review current knowledge and opinion about natural factors effecting pollination in *Begonia*, with special emphasis on the role of insects. A few more recent observations justify this first supplementary note.

Seven persons sent contributions during the weeks immediately following the June article. Joni Hurley (Pittsburgh, Pa.) submitted a report of insects on a group of begonias, accompanied by three photographs. The insects were primarily on staminate flowers alighting occasionally but only briefly on pistillate flowers. An impression was derived that a given insect exhibited color-discrimination, one showing some preference for pink, another for white flowers. She was uncertain if the insects were fly or small bee species. Her photographs do not permit positive determination, but suggest a bee species on the pink flower (a *semperflorens* plant) and a fly on the white (an unidentified *Begonia*).

Harry Burrell (Caldwell, N. J.) submitted five photographs of insects on staminate *semperflorens* flowers; three were of a bumblebee species and two of a species of Syrphid fly. These were accompanied with preserved specimens of the insects (the photographed bee and fly, as well as another smaller bee species) and his observations on the insects' behaviors. He also reported observing honeybees on the flowers. In the case of bees, it was his impression that the

staminate and pistillate flowers were visited indiscriminately, whereas the fly showed distinct preference for staminate flowers, landing on pistillate flowers only rarely and briefly.

Jack Golding (Kearny, N.J.) sent a photograph of a small bee species on a staminate flower of a *semperflorens begonia*. Fred Barkley sent a specimen of a metallic green bee species which frequents the *semperflorens* in their garden in Tecumseh, Okla.

Phyllis Bates (San Diego, Calif.) reported watching carefully for insect attendance on flowers of their *semperflorens* plants. Over a period of many weeks during which the plants were constantly flowering, no insect visits were observed.

Worth Brown (Capitola, Calif.) wrote, amplifying the information quoted in the June 1976 article from his book, *Tuberous Begonias*. He reported that bees on the *B. baumannii* hybrid, 'Fragrance', were active solely on the staminate flowers. Most important was his observation that staminate flowers of their many tuberhybrida plants are occasionally visited by earwig species (as well as by bees), the first such report, to the present writer's knowledge. It is Mr. Brown's impression that the earwig species involved feed on the pollen. It would be of interest to know whether these earwigs, in searching for pollen, ever make exploratory and unrewarding visits to pistillate flowers and whether fertilization might ever be attributed to their activity.

Jack Anderson (Deerfield, Ill.) reported watching over several weeks for insect activity on flowering begonias in his garden, observing only one species, unidentified, only on two or three occasions, and only on staminate flowers.

The author reported in the 1976 article that bees visiting flowering *B. grandis evansiana* restricted attention to staminate flowers; furthermore, known photographs of insects on *Begonia* were noted to involve only staminate flowers. Since this apparent rejection of pistillate flowers conformed to other reports, it led to free speculations about the insects' possible role in *Begonia* pollination, if they proved never to contact pistillate flowers. That report and speculation now need qualification in view of more careful observations of insects on flowering *B. grandis evansiana* in the autumn of 1976. Staminate and pistillate flowers were concurrently present in the bed of many plants and both were therefore available to attending insects of which Syrphid flies proved as common as bees. Pollen was the apparent objective for all the insects, as evidenced by the activity, often of several seconds duration, on each visit to a staminate flower bearing pollen. In the case of bees, it was a harvesting activity; the fly species exhibited solely a feeding activity.

Observing the insects' search for pollen-bearing flowers indicated a factor not appreciated when the earlier article was prepared. Pollen search appeared to be based primarily if not solely on the insects' visual capability of recognizing the floral structure and/or pigmentation, as dis-

tinct from foliage structure and color. Since the insects' flights most frequently were from and to staminate flowers, the impression was given that their visual capability includes some degree of recognition of that flower as distinguished from the pistillate. In any case, there was little evidence that the insect could (or did) determine without actual contact whether pollen was present in rewarding quantity. Alighting on a pollen-exhausted staminate flower, the insect made preliminary exploration and quickly abandoned it; it might even return to a flower previously explored and found unrewarding, only to examine and abandon it a second time.

This apparent visual and tactile mechanism for finding pollen may have an extension of importance to *Begonia* fertilization. In their hurried search, insects seemed sometimes unable to (or neglected to) distinguish the very similar floral perianth outline or pigmentation presented by staminate and pistillate flowers. An insect was observed to alight occasionally on a pistillate flower only to explore and abandon it as quickly as it would abandon a pollen-spent staminate flower.

That pistillate flower exploration by a pollen-carrying insect, however brief, would be adequate for pollen deposit and fertilization, if it occurred before the stigmata became unreceptive. This might account for two features of annual fruit and seed production in this particular group of *B. grandis evansiana* plants: (1) a very high yield of viable seeds from pistillate flowers successfully fertilized by SOME natural mechanism

(prodiving early severe frosts do not interfere) and (2) an accompanying abscission of some proportion of pistillate flowers shortly after maturation, suggesting that whatever natural pollination mechanism was present failed for those flowers.

In the case of this *Begonia* species, no difference was noted between bees and flies with respect to their distinct discrimination for staminate flowers.

In contrast to the above observation about abundant seed production in a species on which insects had been in attendance (without inference that the insects were the responsible factor), Mrs. Bates reported "almost" no fruit production by the semperflorens begonias on which no insects had been observed. However, it is not possible to correlate lack of seed production with the absence of insects without demonstrating that the particular cultivar is self fertile — i.e., is capable of producing fruit and seed when its own pollen is transferred to pistillate flowers.

Unfortunately, none of the other contributors have so far communicated observations on fruit maturation providing evidence of fertilization following observed insect activity — or lack of fertilization in the absence of insects. Tagging of any pistillate flower on which an insect has been observed, to determine if such flowers subsequently produce seeds while many others do not, might be illuminating. More convincing evidence would be derived by caging an experimental portion of a group of flowering plants of a species known to attract insects and to produce viable seeds, depriving it of insect attendance, leaving the balance

of the plants accessible to insects. For example, barring insects from a group of *B. picta* plants growing in the natural state as described by Mr. Pradhan (*Begonian*, Jan. 1976) and determining the subsequent volume of seed production relative to that of plants exposed to insects would be most interesting.

GEOGRAPHIC FACTORS

Populations of insects affecting *Begonia* obviously vary geographically — e.g., urban vs. rural, New Jersey vs. California, or U.S.A. vs. Japan — in terms of both numbers and species. This might well account for conflicting reports from different areas, with respect to insect attendance on a given *Begonia* species. Furthermore, *Begonia* species growing in their natural habitats are exposed to insect populations which may be significantly different from those far distant ones to which they are exposed as horticultural subjects. Thus, hope continues that more reports will be forthcoming from persons able to make observations in tropical America, Asia, and elsewhere on insect activity on *Begonia* species growing with their natural insect cohabitants — and the relationship of that insect activity, or its absence, to the *Begonia* species' fruit and seed production.

BEGONIA SCENT AND

INSECT ATTENDANCE

Very little new has been learned about *Begonia* scent or its relation to insect activity. Ms. Hurley reported that flowers of one of the *Begonia* plants in her collection emit "a sweet fragrance", but did not indicate the plant's identity nor whether the scent was produced by both types of flowers or only one. She conveyed her

impression that the insects ignored (avoided?) the plant with flowers emitting the volatile odorous substance while attending those with no detectable scent. It should not be concluded, however, from a single observation, what role a chemical substance might play in guiding pollen-seeking insects. Conceivably, in the insect population of the plants' natural habitats, certain members detect and respond to the chemical differently than did the insects observed in Pennsylvania.

Mr. Brown called attention to an oversight in the June 1976 article in which reference was made to information in his book, *Tuberous Begonias* (1948). The 1976 article indicated that Mr. Brown had reported no observations about differences in scent between pistillate and staminate flowers of *B. 'Fragrance'*. On the contrary, Mr. Brown DID comment on this on an earlier page of the book: The fragrance was restricted to staminate flowers and the impression was conveyed that the chemical substance responsible was carried on (produced by?) the pollen itself. It is regrettable that *B. 'Fragrance'* is not only no longer in commercial production, but appears to have disappeared totally from collections.

The author made a crude attempt to determine any differences in scent between staminate and pistillate flowers of *B. grandis evansiana*. Many mature staminate and pistillate flowers were taken from the plants; the staminate were deposited in one jar, the pistillate in another; the jars were subsequently examined repeatedly over a period of an hour or more for cumulative differences in

scent. The results of this single effort were not as convincing as expected and must be repeated more carefully. It is described here only as a possible practical approach for demonstrating any secretory distinction between the diclinous flowers of *Begonia*, a method which might easily be repeated by others in establishing proof.

The relationship between a plant's production of volatile chemicals and any insect responses ought probably be explored by methods more precise than mere human olfactory detection which is relatively poor at best, when compared to certain other animals. Insects may be sensitive to the presence of volatile chemicals in air concentrations far lower than detectable by the human sense or to substances which are essentially odorless to humans even at higher concentrations. On the other hand, little convincing proof exists for either positive or negative responses of insects to *Begonia*-produced volatile chemicals, experimentally isolated from other important insect sensory factors such as vision. This should not deter accumulation of all possible observations that might collectively give a better clue to any role of the substances in *Begonia* with respect to insect guidance.

INSECT IDENTIFICATION

Identification of a fly or bee species is often a tedious and time-consuming process, even for specialists of the two insect groups. None of the bees and flies collected by the author personally or by Mr. Burrell and Dr. Barkley have yet been identified even to genus, with the exception of one Syrphid, taken on *B. grandis evansi-*

ana and possessing a unique structure: *Rhingia nasica*. While insect identification requests to busy university or museum entomology staffs must be discouraged, the capture and preservation of *Begonia*-attending insects remains valuable for whatever level of taxonomic identification eventually becomes possible.

To date, our cumulative record of insect pollinators remain poor: *B. grandis evansiana* (bees and flies), *B. heracleifolia* (bees), *B. nelumbiifolia* (flies), *B. picta* (bees), *semperflorens* (bees and flies), and selected forms of *tuberhybrida* (bees and earwigs).

SUMMARY

More reports of insect activity on *semperflorens* begonias and *B. grandis evansiana* strengthen the concept of insects as pollinators of those two begonias. A report of earwigs on *tuberhybrida* adds a third insect order, *Dermaptera*, to the list of those known to attend *Begonia* (others being *Hymenoptera* and *Diptera*) in the possible role of pollinators. A revised view of the probable mechanism of insect pollination of *Begonia* is described, based on observations of insect contact with pistillate flowers. Importance is stressed for correlation of the degree of insect activity with subsequent volume of fruit and seed production and for observations made on *Begonia* species in their natural habitats. A method for demonstrating pollination dependence on insects is proposed. *Begonia* scent as related to insect activity is discussed, but with little new information. A method is proposed for

demonstrating differences in scent between staminate and pistillate *Begonia* flowers.

GLOSSARY

- abscission — natural dropping of part of the plant
- diclinous — having stamens and pistils in separate flowers
- olfactory — pertaining to sense of smell
- staminate — pollen producing
- perianth — the envelope of a flower (usually colored)
- stigma (pl. stigmata) — the organ that receives the pollen
- tactile — pertaining to the sense of touch

CORRECTIONS

Please check your copy of *Begonias for Beginners*, by Elda Haring, to correct these picture captions:

PAGE 79

- Top photo: *B. 'Concord'*
- Middle: *B. 'Chumash'*
- Bottom: *B. 'Cleopatra'*

PAGE 83

- Top photo: *B. dregei* var. *macbethii obtusa*
- Middle: *B. 'Dieppa'*
- Bottom: *B. domingensis*

VENTURA BRANCH ANNUAL GARDEN TOUR

The annual garden tour sponsored by the Theodosia Burr Shepherd Branch will be held Sunday, August 14th from 1 to 5 p.m. The tour will start at the home of Mrs. Pearl Worley, 316 S. Dunning Street, Ventura. Out-of-town visitors should take the Main Street off-ramp from Highway 101. Tour maps will be furnished at Mrs. Worley's home. The event is open to the public at no charge.

ALICE M. CLARK, ARTIST

By Chuck Anderson, Santa Clara Branch



Alice M. Anderson Clark

What in the world is Alice Clark doing publishing a new book of her begonia illustrations — at her age?

Nothing unusual, that's what.

Those who know her expect nothing less from this deliciously quick-witted grand dame of the begonia world.

At age 86, partially deaf and requiring a wheelchair most of the time, Alice is as much of a celebrity among other begoniacs as Paul Newman is at a convention of teenyboppers.

She wasn't on the program, but at the 1976 ABS convention in San Diego she greeted and entertained countless appreciative fans.

"Alice has provided inspiration to begonia growers young and old,"

then-President Margaret Ziesenhennetold the convention in tribute.

Reservations of her upcoming book, *Begonia Portraits*, went fast, even though customers had to come up with payment on the spot and wait for the goods. After all, only 1,000 will be printed and it is bound to become a collector's item. When technical problems arose last fall, the checks were returned. Work on the printing of the color portraits began all over and much of the text was refined.

So why did she bother to compile this book? Certainly she doesn't need the added exposure.

"It solves the problem of how to give all of my paintings to each of my three grandchildren," Alice ex-

plained with a grin.

In the book, however, she takes things a bit more seriously. She wants to "sum up my 86 years," she writes.

Alice has been in the ABS for more than 40 years, she said. But she enjoyed gardening—and drawing—much earlier.

She was born when her father was a pressed brick maker in Ogden, Utah. At age 3, Alice caught a fever which affected her hearing.

"My fun was drawing and gardening," she recalled. Later she studied at Mills College in Oakland, Calif., majoring in art and English.

After graduation, she came home to San Diego and joined with some other artists to start a studio. She lived near Alfred D. Robinson's famed Rosecroft Begonia Gardens in San Diego and got to know Robinson and his begonias.

Her interest began to grow once she learned about begonias.

"I like them because they're all so different," she explained.

"I'm also crazy about iris and I like orchids, but there is something very personal about begonias. I enjoy them for their leaves more than anything, but when you see the tubers and find out they have *flowers*, too . . . and they bloom at different times, so they keep you busy the whole year round."

They had kept her busy with her drawing pad for many years. Many were published in the *Begonian*.

In 1949, Alice lost her husband and two daughters. In her immense grief, she put away her sketch pad and her artistry.

December 1975, the *Begonian* used a full-color Alice Clark begonia por-



Alice Clark

BEGONIA 'MRS. FRED T. SCRIPPS'

This small begonia drawing is the very first one which Alice Clark drew to accompany her begonia descriptions. It appeared in the *Begonian* in February 1943.

trait for the first time and she was flabbergasted. "It was 30 years after they had used black-and-white," Alice said.

"That led me to decide to collect my drawings under one cover."

Begonia Portraits is a privately financed book which includes a brief autobiographical introduction. Publication is expected for September.

But is that going to be Alice's final salute? Not on your life.

"Life just moves along," she remarked sagely. "I don't live in the past.

VACATION PLANNING

Begonias at the Park — September 2, 3, and 4 The Inn at the Park, Anaheim, California

Excitement and enthusiasm were like an electric current charging each of the members of the 1977 National Convention Committee as the final plans were announced at the July meeting.

Highlighting the list of activities planned to keep the conventioners seeing, thinking and learning "Begonias" is the annual banquet at which Belva Kusler will be the speaker. Many, many growers have been delighted by the beautiful hybrids which she has produced and will be delighted with her slides and story of her efforts.

Six seminars are planned. On Friday afternoon, Rudy Zieshenne will talk about the newest begonias. Ruth Pease will present a program on the delights of judging begonias. Linda Miller will conduct a session about the operation of the Clayton M. Kelly Seed Fund and how to grow begonias from seeds. Saturday morning the line-up includes Debi Miller and Mabel Corwin meeting with those who participate in, or would like to know more about, the Round Robins. Evelyn Cronin, who is the editor of *Indoor Light Gardening* magazine, will speak on growing begonias under lights. At 11 o'clock Saturday, Thelma O'Reilly will present a slide program based on her recent travels, "Plant Collecting in Costa Rica."

Plans for the plant sale include thousands of species and cultivars raised by members through Operation Grand Donation augmented by plants purchased from various well-

known commercial begonia sources.

An early report shows that members will be taking advantage of the special air rates to attend both the ABS national event and to have vacation time as well. The minimum seven days required to use the super saver fares permits attendance at the San Francisco Flower Show and various side trips before the Convention.

The San Francisco Flower Show is a large event, the effort of 21 plant societies, and always a splendid show. The San Francisco Branch displays elaborately, especially tuberous begonias which thrive in their climate. The dates for this year are August 27 and 28. Members of the San Francisco Branch will welcome ABS members at their garden homes and especially at their annual banquet Saturday evening.

Sunday afternoon the Sacramento Branch has planned a bus tour visitation to private gardens in the Sacramento area, culminating in a dinner at the restaurant in the "Old Sacramento" restoration.

Midweek it is possible to see such famous places as Yosemite Park, Hearst Castle at San Simeon, Disneyland, the San Diego Zoo and the film studios. Visitors can contact ABS members for casual visits and tours of their home gardens. Certainly everyone will have a busy holiday.

Readers should again consult the July issue, pages 202 and 203, for other details. Douglas Frost, 10622 Garden Grove, CA 92640 is Show Chairman.

ROCHESTER JUDGING SEMINAR

September 15, 16, and 17

Holiday Inn Rochester, New York

The Greater Rochester Branch of the American Begonia Society would like to take this opportunity to invite you to a Begonia Conference and Judging Seminar, to be held in Rochester, New York on September 15, 16 and 17, 1977 at the Holiday Inn in Downtown Rochester.

Whether you ever intend to become a begonia judge or not, this is a unique opportunity to study all begonias in depth, under the guidance of two top experts, Millie & Ed Thompson. Those attending will gain one point towards their A.B.S. Judging Certificate.

There will be a Begonia Show held in conjunction with the seminars and we encourage all planning on attending, to bring plants for exhibition. A plant sale will also be held and again, all are encouraged to bring plants to sell. (You may keep the proceeds.)

THURSDAY, P.M.

Show entries received 2-9 p.m. An informal seminar will be conducted, discussing entering show plants, classification, etc. early in the evening.

FRIDAY, A.M.

- 7- 9 Late show entries received.
- 10-12 Judging of show
- 10-11 Lecture demonstration
(Topic to be announced later, for those not directly involved with the show.)

FRIDAY, P.M.

- 12- 1 Luncheon
- 1- 9 Show open to public
- 1-4:30 Seminars lead by Millie & Ed Thompson. Subjects covered:

— general judging information (about 1 hour); introduction to the eight horticulture groups of begonias; history of each group; classification criteria clarifying specific characteristics of each; cultural information; point scoring facts for each group. A slide presentation for each group will be used, showing diversity and good & bad examples of particular plants. Plants exhibited in for each group will be used in the discussions as well.

- 6- 7 Cocktail Party
- 7 Dinner

Following dinner, there will be an informal Panel Discussion of the Show by those who judged.

SATURDAY

- 10-12 Seminars resume following Friday's format
- 12-1 Luncheon
- 1-4:30 Seminars conclude with ample time for questions
- 6- 7 Cocktail Party
- 7- ? Awards Dinner

Show open all day and evening.

As you can see, it promises to be a very intense two day study of begonias, guaranteed to make us all expert growers and exhibitors!!

For information about registration and reservations, see the July issue, page 200.

Eileen Franklin
 CONFERENCE CHAIRMAN
 406 Bittersweet Lane
 Webster, New York 14580

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RIEGER BEGONIAS

Schwabenland type —

Nixe — bright single red flowers, short compact, very floriferous plant.

Turo — semi-double rose red flowers, short compact grower, mildew resistant.

Whisper O'Pink — delicate light pink, 1975 Society of American Florists Best New Plant Award winner.

Brown's Golden Gelbe — bright yellow flowers, short compact plant.

Aphrodite types —

Flambeau — bright red double flowers, medium plant for pots or baskets.

Cherry Red — dark red double flowers, best for basket use.

Joy — double pink, ruffled edge flowers.

Limelight — double white with touch of chartreuse on reverse.

Peach — semi-double peach flowers, good in baskets or pots if staked.

Twinkles — Rose pink semi-double — profuse bloomer, good for pots.

Riegers — \$2.50 each, 4 or more \$2.25 ea.

Rexes — \$2.00 each, one of each (10 plants) for \$19.00

Both in 3" pots, strong healthy plants. Add \$2.00 postage & packing for UPS or parcel post shipment. Airmail by request, add an additional 25¢ per plant for airmail.

REX BEGONIAS

American Beauty — Dark margin with silver center overlaid with reddish-purple cast.

Big Red — Large swirled leaves with light cream center, as leaf ages a deep maroon overlay develops.

Green Gold — Enormous leaf with numerous shallow lobes, green gold overlaid with silver, trimmed with deep purple center and edge.

Happy New Year — Richer color but similar to Merry Christmas, more compact.

Helen Lewis — Broad ovate blackish satin leaves, reddish purple with creamy white zone overlaid with pinkish purple.

Lucille Closson — Compact plant with richly colored leaves, very dark blackish red with broad areas of purple-pink.

Merry Christmas — Beautiful smooth leaf with well defined color zones, center blood red, broad adjoining area silver and pink, outer zone Nile green, edged red.

Mikado — center of leaf purple, spilling into metallic silver and edged silvery purple.

Silver Sweet — Upright and much branched plant with leaves metallic silver, maroon underside; center and veinings gray-black. Sturdier than most.

Helen Teupel — Bushy plant of easy culture. Long sharply lobed leaves, center and margin fuchsia red, metallic green along veins with silvery pink areas between.

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CLAYTON M. KELLY SEED FUND

Compiled by Linda Miller

Pamphlets for Beginners

- "Begonias from Seed — Sowing and Growing"\$.25
- "Begonias in General —
Basic Descriptions of Classes and Culture"50
- Ag 1 — *B. bowerae* var. *nigramarga*: 1973, Mexico. Small leaved, green with dark black markings. Hairs make a fringe around leaf edge. Blooms white to light pink in late winter. Lovely. 1.00
- Ag 2 — *B. bracteosa* A.DC: 1859, Peru. An easy to grow shrub, 3 to 6 ft. high, with glossy green leaves. Has light pink flowers. 1.00
- Ag 2A— Same plant as above, but a triple packet. 2.00
- Ag 3 — *B. cooperi*: 1895, Costa Rica. Unusual shrub-like plant. Medium, bare leaves, deep green, slightly serrated, oval.50
- Ag 4 — Costa Rican Species: large green leaves with upright rhizome. Flowers white. Variety unknown. 1.00
- Ag 4A— Same plant as above, but a triple packet. 2.00
- Ag 5 — Costa Rican Species: this plant has geranium-like leaves. Very lovely. Not identified. 1.00
- Ag 6 — *B. diadema* Linden: 1882, Borneo. Name means "crown". Leaves too deeply cut to make a star but not deeply enough to be palm-like; lustrous, silky, bright green leaves with tiny silvery smoke rings on leaves between veins. Rhizome is hidden beneath the soil. Loves heat & moisture. 1.00
- Ag 7 — *B. dregei*: semi-tuberous African species. A beautiful, dainty plant. Young leaves are spotted, but as it grows older spots disappear. Makes a pretty basket; does not go completely dormant. An abundance of white flowers. Give good air circulation — tends to be susceptible to mildew.50
- Ag 7A— Same plant as above, but a triple packet. 1.00
- Ag 8 — *B. fagifolia*: 1836, Brazil. A trailing (scandent) species. It is much like *B. glabra*, but this one is hairy! Start this one now for winter bloom. Flowers are white. 1.00
- Ag 9 — *B. foliosa*: 1825, Columbia. Fibrous type. Makes a lovely, graceful basket plant with a fern-like appearance. Loveliest of the small-leaved group. Blooms intermittently with white blooms.50
- Ag 10 — *B. glabra*: a trailing (scandent) species. Large masses of blooms in spring. Glossy, small green leaves, with small points near ends. 1.00
- Ag 11 — *B. nitida odorata*: 1787, Jamaica. Shrub-like bare leaved, 40 inches or more. Blooms pink almost uninterrupted. 1.00
- Ag 12 — *B. scabrada*: Venezuela. Leaves roundish, ovate, asymmetrical, bright green and rough-hairy; irregularly toothed, pale green beneath. Has large cymes of small white pearl-like flowers. An easy to grow begonia. 1.00

Ag 13 — *Stapelia grandiflora*: this species native to Cape Province. Large purple flowers 3 to 4 inches. Plants grown from seed bear flowers in approximately 3 years. Cultivate in sun or partial shade. Different.50

Ag 14 — Mixed gesneriads. A fine mixture of varieties including sinnigias, episcia and lots more. Many lovely plants will come from this mix. 1.00

Calif. residents, please add 6% sales tax. All customers, please send a self-addressed, stamped envelope. Canadian or foreign customers please make money orders payable in U.S. funds. Make all checks or money orders payable to Clayton M. Kelly Seed Fund. Mail to: Mrs. Linda Miller, P.O. Box 227, Gardena, CA 90247.

Magazine Articles

The following articles about begonias and articles written by ABS members appeared in recent magazines. This list is not necessarily complete — not all articles have been brought to our attention. We would be interested in reporting the publication of research reports about *Begonia* as well and hope that if you are aware of articles that may interest other members that you will write to the editors with appropriate information.

Cronin, Evelyn, "Basic Guide to Gardening Under Lights" *Horticulture* (Oct. 1976), 40.

Dunnell, Mary Davidson, "A Book or Two — Thompson Begonia Guide, Vol. II" *Plants Alive* (Nov. 1976).

Fell, Derek, "January in the Garden — Comments on Wax Begonias" *Horticulture* (Jan. 1977), 84.

Fullner, Larry, "Focus on Pest Prevention" *Plants Alive* (Jan. 1977), 28.

Karegeannes, Carrie, "Begonia Exotics" *American Horticulturist* (Jan. 1977), 6.

Kartuz, Michael, "Flame Violets" *Horticulture* (Feb. 1977), 61.

Thompson, Mildred, "Look Into the Wide Beautiful World of Begonias" *Flower and Garden* (Oct. 1976), 14.

Tinaglia, Susan, "Rex Begonias" *House Plants and Porch Gardens* (Feb. 1977), 29.

Weaver, Neal, "The Rexes and Other Begonias" *NYBG Journal* (Oct. 1976), 158.

....., "If You Could Have Only Twelve — Joy Martin, Begonias; Mike Kartuz, Gesneriads" *Popular Gardening Indoors* (May 1977), 24.

....., "Super Bloom Begonias" *Popular Gardening Indoors* (May 1977), 15.

....., "Does Music Make Plants Grow? — Zelma Clark" *Popular Gardening Indoors* (Mar. 1977), 88.

Scientific Journal.

Hoover, W. Scott, "An Altitudinal Survey of Species of Begonia Having a Horned Fruit" *Phytologia* (Dec. 1976) Vol. 35, #2, 65-78.

LOOKING FORWARD . . . AND BACK

Dear ABS Friends,

I would like to let everyone know the Eastern Regional Begonia Convention and Show will be held in Miami in the spring of 1978. Since it is so far away, we want to remind one and all. I do hope we will have a good turnout and that you will be able to attend.

Here are some pictures of the beautiful begonias taken at the East-

ern Show at Pittsburgh last year. It was a lovely show and convention. We enjoyed ourselves. The Pittsburgh Branch members are warm and gracious. Our stay was both fun and educational. We hope our show will be as beautiful as theirs was.

Sincerely,

Helene Jaros, Publicity Chm.
1978 Eastern Regional
Convention and Show



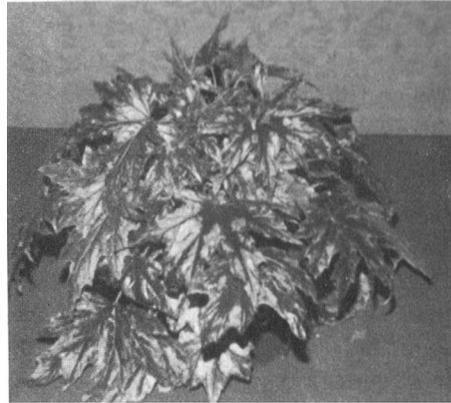
B. 'Corliss Engle'
Exhibited by Corliss Engle



B. 'Barbara Ann'
Exhibited by Corliss Engle



B. 'Lospe-tu'
Exhibited by Edna M. Stuart
Photographs taken by C. J. Jaros.



B. 'Richard Robinson'
Exhibited by Eileen Franklin
ABS Cultural Award and
Division Trophy Winner

REGISTRATION OF BEGONIA CULTIVARS

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

No. 568 — *Begonia* (B. 'Lana' X unknown) 'Nokomis'

This cane which grows to 4' or more, is distinguished by its new, young leaves which emerge in pink or light red, tightly curled lengthwise, opening to reveal frosty, silver surfaces with green stripes along the veins; leaves tend to curl upward revealing the pink underside edges; green and silver, above, the mature leaves are green beneath, ovate-lobed, $5\frac{1}{2} \times 2\frac{1}{4}$ ", margin dentate, wavy, pink, texture smooth, medium heavy, 4-nerved, petioles short red, stipules light green. Flowers are a pale dusty pink, $1\frac{1}{2}$ ", 4 male, 5 female petals; blooms spring through fall, in pendulous clusters on a short stem. Originated by Margaret M. Lee, 1852 31st St., San Diego, CA 92102, in 1972; first bloomed in 1975. Registered September 28, 1976.

No. 569 — *Begonia* (B. 'Lana' X unknown) 'Osota'

Originated by Margaret M. Lee, address above, the cane-like superba-type begonia grows to over 4", is a compact, sturdy grower, whose dark green leaves have a red dot on the upper side at junction of the stems, deep underside, ovate pointed-lobed, 7×4 ", margin even wavy, texture smooth, medium heavy, 4-nerved, petioles with red overlay, stipules light green persistent; flowers from

spring to fall in pendulous clusters on 3" stems, deep pink one-inch, 3 or 4 male petals, five female. Developed in 1972, the plant first bloomed in 1974. Registered Sept. 28, 1976.

No. 570 — *Begonia* (B. 'Fuscomaculata' mutation) 'Clancy'

Douglas Frost, 10622 Teal Dr., Garden Grove, CA 92643, originated this rhizomatous plant in 1976; it first bloomed in 1972 and was first distributed in 1974. Leaves are light green with red mottling, ivy shaped, 4×5 ", moderately cut, smooth fairly thick texture, 7-nerved, petioles hairy, stipules smooth; flowers are pink, two petaled, $\frac{1}{2} \times \frac{3}{4}$ ", blooming in spring on 15" stems. Leaves are somewhat smaller than parent and plant is much more compact. Registered Oct. 3, 1976.

No. 571 — *Begonia* (B. 'Lenore Olivier' X B. *lubbersii*) 'Emma Walker'

Originated in 1975 by Goldie Frost, 10622 Teal Dr., Garden Grove, CA 92643, this cane-like 3' plant first bloomed in June 1976, with light pink flowers on short drooping stems, arranged oppositely in large clusters, males 2-petaled 1×2 ", female 4 petaled 2×2 ". Leaves are bright green with some small silver spots and red veining on reverse side, pointed both ends like *lubbersii*, 4×11 ", margin quite smooth with some dentation, texture velvety. 6-nerved, petioles and stipules smooth. Registered Oct. 3, 1976.

No. 572 — *Begonia* (B. 'Persian Brocade' X B. 'Dr. Jim') 'Peggie Frost'

This rhizomatous plant was originated by Goldie Frost, address above,

in 1973 and it first bloomed in 1974. Leaves are bright green with black edging, star-shaped, 10 x 10", margin deeply cut, texture smooth, 7-veined, petioles and stipules hairy. Flowers are pink, 2-petaled, 1/2 x 1", blooming in spring on 24" stems. Distinctive because of the intense black edging on leaves with red reverse — no hint of brown or red. Registered Oct. 10, 1976.

No. 573 — Begonia (B. 'Bow Nigra' X B. conchifolia 'Zip') 'Bow Ling'

Interesting, thick leaves distinguish this plant from the ordinary rhizomatous begonia: bright yellow-green with brown stiching around the edge, subpeltate, 4 X 5", margin lightly hairy, texture smooth, 7 to 9 nerves, petioles 6 1/2". Has not bloomed. De-

veloped by Bob A. Cole, The Plant Shop Botanical Garden, 18007 Topham St., Reseda, CA 91335, in 1973. Registered Dec. 1, 1976.

No. 574 — Begonia (B. 'Bow Nigra' X B. conchifolia 'Zip') 'Bow Regard'

This rhizomatous begonia, originated in 1973 by Bob A. Cole, address above, has black leaves, green around nerves from center to edge, subpeltate with overlap cut; 5 X 3"; margin lightly hairy; texture smooth, lightly hairy; 9-nerved, petioles 7". Has typical pink flowers. Registered Dec. 1, 1976.

No. 575 — Begonia (B. 'Bow Nigra' X B. conchifolia 'Zip') 'Bow Zoe'

Marked like 'Bow Nigra', this rhizomatous plant's subpeltate leaves

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- "Blossoms Profusica"

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are black-brown except green around center and nerves; 6 X 5"; margin lightly hairy, semi-denticulate; texture smooth; 8 to 10-nerved; petioles 8" with short brown hair; stipules hairy; first flowered, pink, in 1974. Developed in 1973 and distributed in 1976 by Bob A. Cole, address above. Registered Dec. 1, 1976.

Mini-Ads

The rate for advertising in this column is \$1 per line (about 36 characters) with a minimum charge of \$4. Payment for the ad must accompany order. Direct questions, copy, and checks to the Advertising Manager, Mabel Corwin.

Begonias, Gesneriads, miniature terrarium plants, tropicals, Catalog \$1. Kartuz Greenhouses, 92 Chestnut St., Wilmington, MA 01887. Phone (617) 658-9017

Violets - Begonias - Episcias
Cuttings only. Send stamp for list. Wilson's Greenhouse, Route 1 Box 165-4 Ozark, MO 65721

Bolduc's Greenhill Nursery—Exotic
and hardy ferns. Send self-addressed stamped envelope for list. 2131 Vallejo Street, St. Helena, CA 94574

Begonias — Blue Ribbon Winners. Many varieties. Retail only. Price list 35¢ or stamps. John Sousa, Begonia Paradise Nursery, Rte 1, Box 94, Bear Creek, NC 27207.

Plant Workshop. Begonias, gesneriads, foliage plants. Send 13¢ stamp for descriptive catalog of over 100 varieties. Rt. 4, Box 10, Everett, PA 15537.

Rhizomatous Begonias, miniature African Violets, Episcias, Columneas, miniature Sinningias and unusual houseplants. List 35¢. Bombadils, 2126B E. Locust, Milwaukee, WI 53211. (414) 332-6260.

The Plant Shop's Botanical Gardens
Visitors welcome Wed. thru Sun. 10-6 18007 Topham St., B, Reseda, CA 91335. (213) 881-4831

BEGONIAS. Featuring Wally Wagner hybrids, gesneriads, miniatures for light gardens. List 35¢ Pat Morrison/Jim Heffner, 5305 S.W. Hamilton St., Portland, OR 97221.

The Good, The Rare and The Beautiful in begonias. Rex, rhizomatous, cane and shrubs. 25¢ for list. Visitors welcome. Lera's Greenhouse, P.O. Bx 948, Porter, TX 77365 (713) 354-3567.

BEGONIAS, Popular varieties, new hybrids, 300 kinds. 20¢ cash or stamp for list. Rainbow Begonia Gardens, Box 991, Westminster, CA 92683

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**MINUTES OF THE REGULAR
MEETING OF THE BOARD OF
DIRECTORS OF THE AMERICAN
BEGONIA SOCIETY
June 27, 1977**

The meeting was called to order in the South Gate Auditorium at 7:45 p.m. by President Charles Richardson. Bill Walton led the flag salute, and Mabel Corwin read the Aims and Purposes.

The minutes were read and approved as read.

The resignation of Phyllis Bates as Parliamentarian was announced. Margaret Ziesenhenné made a motion that it be accepted with regrets. Passed. Mr. Richardson appointed Margaret Taylor to take over Phyllis' position. A motion was made by Earle Hough that the appointment be approved. Passed.

The Board welcomed Alva Crawford, President of the Miami Branch to our meeting.

Gilbert Estrada read a letter from the I.R.S. granting the American Begonia Society an exemption from federal income tax under section 501 (c) 3 of the Internal Revenue Code; donors may deduct contributions, gifts, according to the Code. Walter Barnett moved that Margaret Ziesenhenné be given a vote of thanks for her work to secure this ruling from the I.R.S. Mr. Estrada also reported that 22 copies of *Les Begonias* were sold and he received a check of \$120.00 for the books. A motion requesting that the balance due Alva Graham be paid was tabled until next month. Muriel Perz asked about the copies sent to the Arboretum for reference.

Walter Barnett is supposed to check on what is in the Arboretum Library. He also made a motion that Mrs. Ziesenhenné be authorized to make application to the State for non-profit tax status. Passed.

Ralph Corwin requested that changes in the constitution be sent to him by July 10th, so that they can be considered.

A motion was passed that \$200.00 be placed in the Life Membership fund for the new Life Members. Mr. Walton explained that this was a temporary fund established until the original fund reaches maturity. He made a motion, too, that \$1,000.00 of the Show Fund be moved into the active account of the Show Committee. Both motions passed.

Marge Lee, Judging Chairman, reported the reprinting of the course. She stated the cost of the course would have to be raised to cover the reprinting costs. A motion was passed to increase the price of each course to \$8.00 plus tax and postage effective at the Convention Sept. 1st.

Pearl Benell read the Research Committee report by Mr. L'Hommedieu.

Debi Miller sent in her resignation as Round Robin Director. It was accepted with regrets. Mabel Corwin resigned as Advertising Chairman, and accepted appointment as Round Robin Director. Approved by the Board. Lorraine Frinchaboy was approved as Advertising Manager.

Linda Miller reported \$566.58 in sales from the Clayton Kelly Seed Fund, and expenses of \$33.78, leaving a balance of \$532.80.

Show Chairman, Doug Frost, stated the show information would be mailed during the week. Kandid Litho donation of posters for the show was voted a unanimous vote of appreciation, and ask the secretary to write a letter of thanks to them.

The treasurer reported \$2,414.55 in receipts, disbursements of \$2,864.50, leaving a balance of \$2,636.76 on hand.

Marge Lee made a motion that no trophy be accepted and awarded for any one hybridizer's plants. (For National Show only). Passed.

Walter Barnett moved that \$150.00 be given to President Richardson from the travel fund to attend the San Francisco Show. Passed.

Membership shows 4,219 members in good standing, funds received \$1,597.50, new members — 123. After Branch reports, the meeting adjourned.

Virginia J. Barnett, Secy.

The minutes reflect some changes in the Begonian staff. We want to thank Mabel Corwin and Esther Passet for the smooth operation of the advertising department in the past two years. We thank Debi Miller for the Round Robin columns she wrote for the *Begonian*, thus letting all of us peek over the shoulders of the writers to share their horticultural secrets. And last, but not least, we give a special hand to Pearl Benell, who did the research and wrote the Seed Fund columns from November 1973 to June 1977.

The Editors

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VISITORS ARE ALWAYS WELCOME AT THESE MEETINGS

BUXTON BRANCH

3rd Saturday
Waltham Field Station, 241 Beaver Street,
Waltham, MA

CENTRAL SAN JOAQUIN BRANCH

Irene Cabibi, Secy.
685 W. Morton Ave., Porterville, CA 93257

CONNECTICUT BRANCH

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

EAST BAY BRANCH

3rd Thursday, 7:45 p.m.
Northbrea Community Church, Berkeley, Ca.
Ilo B. Maynard, Secy.
Box 695, Danville, CA 94526

EASTERN NEW YORK BRANCH

Ila Hallowell, Secy
297 Second St., Albany, NY 12206

EASTSIDE BRANCH

4th Wednesday, 7:30 p.m.
590 116th Avenue N.E., Bellevue, Washington
Douglas Hart, Secy
6005 121st S.E., Bellevue, WA 98006

EDNA STEWART PITTSBURGH BRANCH

3rd Wednesday, 8:00 p.m.
Phipps Conservatory
Laverta F. O'Leary, Secy
176 Plymouth St., Pittsburgh, PA 15211

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.
New Community Meeting Center
11300 Stanford, Garden Grove, Ca.
Kathy Brown, Secy
10692 Bolsa, Apt. 14, Garden Grove, CA 92643

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
Connie Vanderlip, Secy
12936 Winthrop, Granada Hills, CA 91344

GORDON LEPISTO BRANCH

Pat Burdick, Secy
1910 Skyline Dr., Burnsville, MN 55337

GREATER CHICAGO AREA BRANCH

3rd Sunday each mo. except July, Aug., Dec., 2 p.m.
Oak Park Conservatory
561 Garfield, Oak Park, IL.
Barbara Berg, Secy.
17 Oak Ridge Lane, Barrington, IL 60010

GREATER CINCINNATI BRANCH

Nancy Cummins, Secy
584 Garner Dr., Covington, KY 41015

GREATER ROCHESTER BRANCH

Third Sunday, Members' homes
Mrs. George Mavis, Secy.
2744 Ridgeway Ave., Rochester, NY 14626

HAMPTON BRANCH

2nd Monday, 7:45 p.m.
Parrish Memorial Hall Southampton, NY
Patricia Thompson, Secy.
P. O. Drawer PP, Southampton, NY 11968

HOUSTON TEXAS BRANCH

4th Monday, 1:00 p.m., Garden Center
1500 Herman Dr., Houston, Texas
Mrs. George LeBlanc, Secy.
9310 Fairdale, TX 77063

JACKSONVILLE BRANCH

2nd Saturday, 1:00 p.m.
Members' homes
Ann M. Helton, Pres.
334 Brunswick Rd., Jacksonville, FL 32216

KNICKERBOCKER BRANCH

2nd Tuesday, 7:30 p.m.
Horticultural Society of New York
128 West 58th St., New York
Samantha G. Langer, Secy.
361 East 50th Street
New York, NY 10022

LONG BEACH PARENT CHAPTER

2nd Sunday, 1:30 p.m., Community Room
Great Western S & L,
6300 E. Spring St., Long Beach
Joan Krellenberg, Secy.
2025 Rutgers Ave., Long Beach, CA 90815

LONG ISLAND BRANCH

2nd Wednesday, 8:00 p.m.
Planting Fields Arboretum
Oyster Bay, Long Island, N.Y.
Joan Shilkret, Secy.
118-55 234 Street, Cambria Heights, NY 11411

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
Laura May Smith, Secy.
6950 S. W. 97 Ave., Miami, FL 33173

MONTEREY BAY AREA BRANCH

4th Wednesday, 8:00 p.m.
Lighthouse and Dickman Sts., New Monterey, Calif.
Cherrie Waldo, Secy.
2874 Congress Rd., Pebble Beach, CA 93953

NORTH LONG BEACH BRANCH

2nd Tuesday, 7:30 p.m.
Mercury Savings and Loan Assn.
4140 Long Beach Blvd., Long Beach
Mrs. W. B. Seymour, Secy.
4811 Gundry Ave., Long Beach, CA 90807

ORANGE COUNTY BRANCH

2nd Thursday, 7:30 p.m.
First Christian Church,
1130 E. Walnut Street, Orange, California
Janet Parks, Secy.
7206 Scales Way, Buena Park, CA 90621

PALMETTO BRANCH

Arlene Waynick, Secy
100 Dexter Dr., Taylors, SC 29687

PALOMAR BRANCH

2nd Monday, 7:30 p.m.
Oceanside Savings, 249 S. Indiana St., Vista, CA
Ingebor Foo, Secy.
1050 Melrose Way, Vista, CA 92083

PORTLAND BRANCH

Mrs. Otelia Klobas, Secy.
35330 S.E. Dunn Rd., Boring, Ore. 97002

POTOMAC BRANCH

4th Sunday, 2:00 p.m., Falls Church
Recreation Cntr., Great Falls & Little Falls Sts.
Falls Church, VA.
Alberta L. Cooke, Secy.
1930 Kennedy Dr., Apt. T-1
McLean, VA 22101

REDONDO AREA BRANCH

4th Friday, 7:30 p.m.
R. H. Dana School Cafetorium
135th St. and Aviation Blvd., Hawthorne, Calif.
Mrs. Evelyn M. Isaac, Secy
2022 Bataan Rd., Redondo Beach, CA 90278

ROBINSON, ALFRED D. BRANCH

2nd Tuesday, 10:30 A.M. Homes of Members
Lois K. Donahue, Secy.
3251 Innuvit Ave., San Diego, CA 92117

RUBIDOUX BRANCH

4th Thursday, 7:30 p.m., West Riverside Mem. Hall
4393 Riverview Dr., Rubidoux, CA
Mrs. Dorothy Ansevics, Secy
4063 Opal St., Riverside, CA 92509

SACRAMENTO BRANCH

3rd Tuesday, 8:00 p.m., Garden Center
3300 McKinley Blvd., Sacramento, Calif.
Sandra Graves, Secy
9 Rosemead Circle, Sacramento, CA 95831

SALINE COUNTY BRANCH OF KANSAS

4th Monday, 1:30 p.m., Homes of Members
Pauline Eaton, Secy.
R.R. #3, Salina, KS 67401

SAN FRANCISCO BRANCH

1st Wednesday, 8:00 p.m., Garden Center
Golden Gate Park, 9th Avenue and Lincoln Way
Ms. Kathy Donlin, Secy.
2600 Jones Road, #5, Walnut Creek, CA 94596

SAN GABRIEL VALLEY BRANCH

2nd Tuesday, 7:30 P.M.
Los Angeles State and County Arboretum
501 N. Baldwin Ave., Arcadia, Calif.
Mrs. Evelyn M. Anderson, Secy.
450 Schoil Dr., Glendale, CA 91206

SAN MIGUEL BRANCH

1st Wednesday, 7:30 P.M.
Casa del Prado (Rm. 104)
Balboa Park, San Diego
Ruth Gilbert, Secy
4122 Mt. Bigelow Way, San Diego, CA 92117

SANTA BARBARA BRANCH

4th Saturday, 7:30 p.m.
Louise Lowry Davis Recreation Center
1232 De la Vina St.
Ericka Price, Secy
2030 Anacapa St., Santa Barbara, CA 93105

SANTA CLARA VALLEY BRANCH

3rd Thursday, 8:00 p.m.
Security S & L Bldg.
Fremont and Mary Aves.
Sunnyvale, CA
Mrs. Elizabeth K. Sayers, Secy.
369 Ridge Vista Ave., San Jose, Ca. 95127

SEATTLE BRANCH

3rd Tuesday, 7:00 P.M.
Bethany Lutheran Church, 7400 Woodlawn Ave., N.E.
Sue Stice, Secretary
6823 19th Ave. N.E., Seattle, Wa. 98115

SHEPHERD, THEODOSIA BURR BRANCH

1st Tuesday, 7:30 p.m.
Senior Citizens Bldg., 420 Santa Clara St.
Ventura, CA
Diana Penney, Secy.
2802 Petit, Camarillo, CA 93010

SOUTH SEATTLE BRANCH

4th Tuesday, 7:30 p.m., Wm. Moshier Field House
430 South 156th Burien
Helen Harbord, Secy
17859 S.E. 196th Drive, Renton, WA 98055

TAMPA BAY AREA BRANCH

3rd Saturday, 1:00 p.m.
University of So. Florida, Student Chapel Bldg.
Mrs. Mary Breit, Secy.
2315 N. "A" St., Tampa, FL 33609

TARRANT COUNTY BRANCH

2nd Monday, 10:00 a.m., Bank of Fort Worth
Mrs. Richard Ellis, Secy.
2117 Hillcrest, Ft. Worth, Texas 76107

WESTCHESTER BRANCH

2nd Thursday, 7:30 p.m., Citizens S&L Assoc.
5347 Sepulveda Blvd., Culver City, Ca.
Barbara Mack, Secy
424 Oregon St., El Segundo, CA 90245

WESTERN PENNSYLVANIA BRANCH

2nd Wednesday 11:00 a.m. every month
Northway Mall Community Room
North Hills, Pittsburgh, Pa.
Eleanor Slee, Pres.
211 Arlington Ave., Butler, PA 16001

WHITTIER BRANCH

1st Thursday, 7:30 p.m.
Palm Park Community Center
5703 South Palm Avenue, Whittier
Gertrude Blackstock, Secy.
15311 Elmbrook Drive, La Mirada, CA 90638

WILLIAM PENN BRANCH

4th Tuesday, Noon Homes of Members
Mrs. Murdoch Davis, Sec'y.
256 Broughton Ln., Villanova, PA 19085



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