

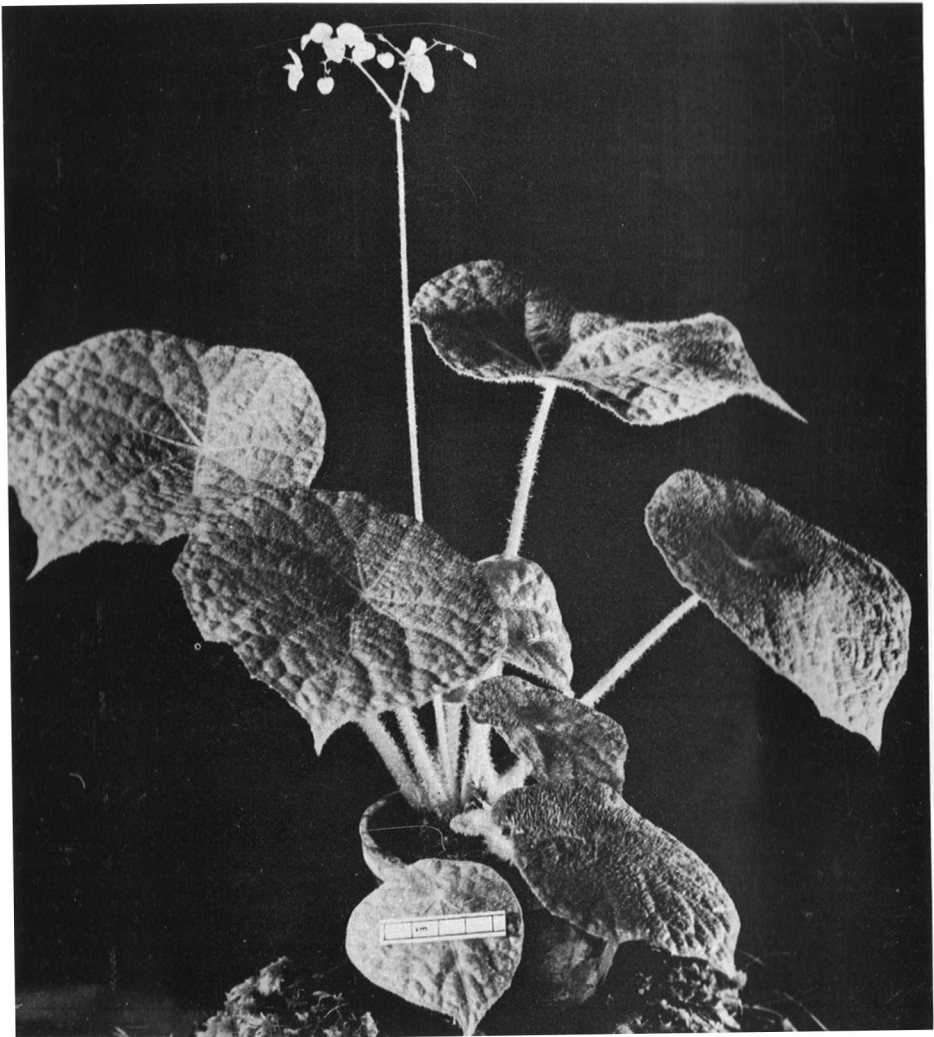
# *The Begonian*

DEVOTED TO THE SHELTERED GARDENS

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The purpose of this Society shall be: to 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.

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# SO SAY THE EXPERTS

By RUTH PEASE

Historian, A.B.S. Los Angeles, California

So say the experts — from a steno's notebook. The idea started with a desire to learn all about begonias from those who have grown, worked, and studied them for years. I have been taking shorthand notes while listening to the experts ever since I became a member of the Westchester Branch of the American Begonia Society, here in Southern California, about four and a half years ago.

When I began to transcribe my notes, I realized that they would be of far greater value if they were shared with all members through *The Begonian*. This way I could be of service to the many members who are not able to visit Branches as well as others who have not had the opportunity to hear these speakers.

These experts have been lecturing for many years and still continue to do so. While begonias have received principal attention, included are items discussed by speakers on other horticultural subjects. They have told us about growing our plants in Southern California, but there are items mentioned that would apply to any place where begonias are grown.

The information from my notes has been transcribed and then rewritten in a manner to make it readily understood. Where the same subject has been discussed by several authorities, the basic thoughts have been retained, but presented in one paragraph. Where the authorities differ completely, it has been so noted. No attempt has been made to give direct quotations.

In order to make sense out of all my notes, I have classified them under a number of headings, to avoid too much jumping around from one thought to another. One or two of these headings, or subjects, will be discussed in each issue of *The Begonian*, in a continuing series.

The speakers, with their specialties, are listed in alphabetical order, as follows:

Mary Armstrong, pruning  
Emery Beaufore, landscaping  
(deceased)  
Dorothy S. Behrends, begonias.  
Howard Carrington, orchids  
S. G. Copeland, fuchsias  
Mabel Corwin, begonias  
James Giridlian, orchids and  
bromeliads  
Lewis Hammond, former nursery-  
man  
Don Horton, seedlings  
C. B. "Doc" Houghton, general  
horticulture (deceased)  
Jean Kerlin, begonias  
Edna Korts, cane begonias  
Sylvia Leatherman, ferns and  
begonias  
Alberta Logue, driftwood and  
arrangements  
Mr. Marshall, camellia nurseryman  
Fred Schultz, rex begonias and  
orchids  
Louise Schwerdtfeger, begonias  
Albert J. "Bert" Slatter, begonias,  
general horticulture  
Stanley Spaulding, general  
horticulture  
Joe Taylor, epiphyllums  
John Thieben, begonias  
John L. Threlkeld, camellias  
Rudolf Ziesenhenné, begonias

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## BEGONIAS -- GENERAL

Begonias are efficient, because they use less light intensity and still grow beautifully. They are accustomed to a

(Continued on Page 128)

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## COVER PICTURE

*Begonia Sudjanae* Jans. Specimen cultivated in the Botanical Garden in Gothenburg, Sweden.

Photo by H. Rasper

# BEGONIA SUDJANAE

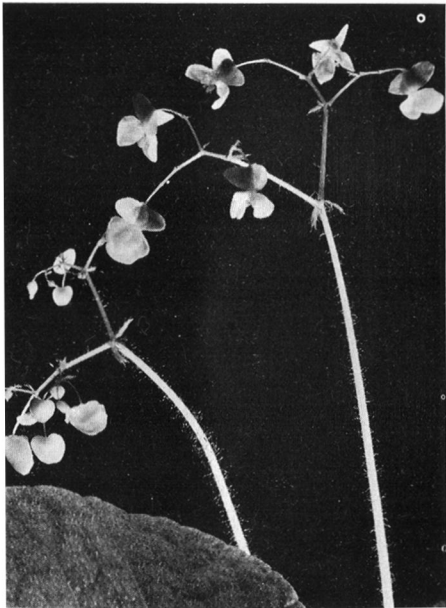
## A NEW SPECIES FROM SUMATRA

By CARL-AXEL JANSSON

*The Botanical Institute, University of Gothenburg, Sweden*



Male Flowers (2X)



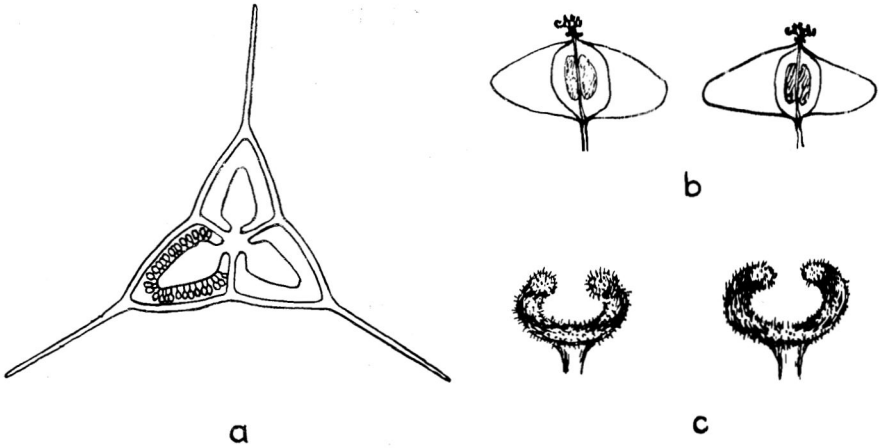
Inflorescences of male and female flowers.  
Photos by H. Rasper

In January, 1957, the Botanical Garden in Gothenburg received a rich collection of living, tropical plants in a shipment from Dr. Sudjana Kassan, at that time assistant in the Botanical Garden at Bogor, Java. Among all specimens, mostly orchids, was also material of a begonia with no determination and not known to us. This material, consisting of rhizomes and petioles, was in a rather bad condition at the time of arrival and we had little hope of getting it to grow. However, the plant appeared to be more easily cultivated than expected and it was not long before we had flowering specimens.

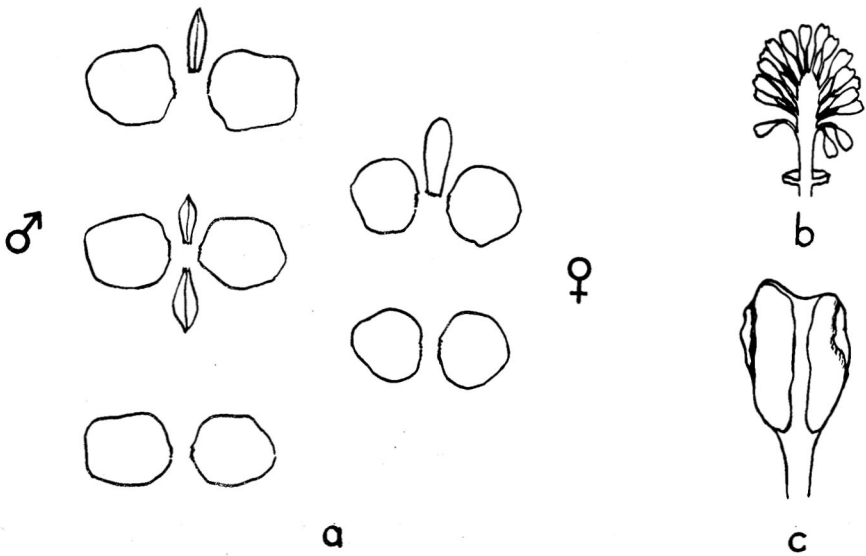
By the floral characteristics there were no doubts that this begonia belonged to the Asiatic section *Reichenheimia* comprising about a dozen species from India to Malaya. Further determination, however, was not possible. Plant material from repeated sowings of seeds through several generations showed a clear invariability in characters, and it became obvious that the actual type was of no hybrid origin. Discussions by letter with Prof. Imscher, Stuttgart, one of the world's foremost begonia-taxonomists, confirmed my suspicions that we worked with a species not earlier described.

The original, scientific description of *Begonia Sudjanae* was published in September, 1963, in *Acta Horti Gotoburgensis*, Vol. XXVI:1. Summarily I want to characterize the new species as follows:

*Begonia Sudjanae* has a thick, short stem more or less creeping. The petioles are erect or suberect, 10-18 cm long, round and densely pilose. The entirely light-green leaves are unsymmetrically peltate, ovate and acuminate to cuspidate. Both the leaf-surfaces are covered with stiff hairs, be-



*Begonia Sudjanae*: a—Ovary, cross-section. b—Ovary, from the side. c—Stigmas.



*Begonia Sudjanae*: a—Sepals in male and female flowers. b—Androecium. c—Anther.

—Drawings from *Acta Horti Gotob.* Vol. XXVI: 1

low more concentrated to the nerves. Further, the lamina is concentrically wrinkled round the navel, from which the nerves extend in all directions and reach the margin in distinct teeth somewhat bent downwards.

The white and rather small flowers are arranged in cymes and have a varying number of petals, in male

flowers from two to four and in female flowers from two to three. The ovary is three-winged and three-roomed with undivided placentas, an important taxonomical character. In each female flower there are three stigmas with two branches somewhat turned inwards. The yellow stamens

(Continued on Page 120)

# CLAYTON M. KELLY SEED FUND FLIGHT

## No. 1 — *B. sudjanae*, Jans.—

New species discovered in Sumatra. Full description and picture appear in this issue of *The Begonian*.

Please note: Actually there are not enough seeds to offer, but we feel that someone should grow plants and produce seed for the Seed Fund. This is, by all standards, one of the most beautiful and exotic begonias ever offered by the Seed Fund and so new that we cannot recommend it to inexperienced growers or those who do not have facilities for proper growing. However, it is our hope that someone who likes the rare and exotic begonias will purchase seed and grow plants for distribution as well as seed. Very few seeds are available. \$2.00 per pkt.

## No. 2 — *B. dichroa*, Sprague —

Growth shrubby, might be called low, 30-50 m. high and slightly squarrous. Leaves grow on short petioles, oblong-elliptic, tapered toward a point. Glossy dark green on top, with regular, distinctly delineated, silver-white spots, wavy and lobed on margins. Inflorescence axillary, large, raceme-like, hanging down. Flowers brilliant salmon-orange; male flowers four petals, female flowers six petals. As soon as buds appear, the newly formed leaves become dark green, while the older ones retain their silver spots; thus, the plants have leaves of two colors. One of the most beautiful begonias in cultivation. 35 cents per pkt.

## No. 3 — *B. pseudophyllomaniaca*, Lange —

Stems a little dorsiventral, robust, thick, with fairly short joints, more or less hairy. Petioles long, slightly grooved, with red spots, covered with hairs, closely below the lamina covered with a coronet of long hairs. Leaf blade asymmetric cordate, pointed; the lobes are dentate or double dentate; veins on the lower side of the leaf covered with hairs, upper

side of leaf olive-green in certain areas, covered with short hairs. The inflorescence is unilateral, particularly when young. The petioles are red at the ramification points. Flowers are pink, fairly large. 35 cents per pkt.

## No. 4 — *B. acida* —

Brazil. Large seersucker-puckered leaves of freshest apple-green are round but appear angled. Flowers dainty white on stems standing well above foliage. Likes warmth and humidity. 50 cents per pkt.

## No. 5 — *B. suffruticosa*, Meissner—

Africa. The smallest of the "maple-leaf" group. Leaves smaller, thinner, lighter green, lobes blunter than *B. dregei*. Flowers white. 35 cents per pkt.

## No. 6 — *B. scharffiana*, Regal —

Low, compact, spreading, densely white-hairy; stems red, branches lax; leaves broad-ovate, pointed, basal lobes overlapping, olive-green, the red of the under surfaces extending to the margins. Flowers small, pale pink, in long, loose, arching inflorescences. 35 cents per pkt.

## No. 7 — *B. micrantha* var. *fimbriata* —

Stems are short, stout, and succulent; leaves are broad-ovate, soft-hairy, irregularly lobed, green; margins toothed and ciliate. Flowers usually in pairs, bright orange-red with masses of yellow stamens. 35 cents per pkt.

## No. 8 — *B. mazae* —

Mexico. Round leaves with tiny pointed tail, bronze-green, marked red-brown along the light veins, which meet in a white eye; deep red underneath. Small, light pink, red-spotted flowers. Grow in a warm location, fairly dry, with perfect drainage. 35 cents per pkt.

Note — All of the seeds listed above were imported from Europe, entailing a great deal of time and expense. We hope you will grow and enjoy them.

**No. 9 — B. 'Phillipe Islands' —**

The following description came with the seed: "Plant grows to three feet tall on stems as thick as your finger. Leaves are oval, glossy green above and pale underneath. Stems branch off easily and each branch can be grown into a plant. Flowers are in clusters, hanging and flesh-colored. We love it for its flowers all the year around. No one here in the Philippine Islands knows the name — we have no begonia society here — no scientific variety or name for the plant — it is grown simply because it is beautiful". 35 cents per pkt.

**No. 10 — B. sunderbruchi —**

Old time favorite star-type begonia. Seven-fingered to nine-fingered leaves are large, bronze-green; strikingly marked with light green veins and splotches, mottled red and green beneath. Each finger is pointed and scalloped on the edge. Stems are ringed with collar of red hairs at joining with leaf. Two-petaled pink flowers. 25 cents per pkt.

**No. 11 — B. masoniana syn. 'Iron Cross' —**

We have had seeds for a while, but thought that someone would like to try them before we decide to discard them. We are offering them at a special price: 50 cents per pkt.

The following is from Miami, Florida: "I had such good luck with the 'Iron Cross' from the Seed Fund — I would like to tell you about it. After reading that other people had no success, I am very proud of what I have accomplished, especially considering that I am a rank amateur.

"The seeds were planted in a shallow pie plate in a mixture of sandy peat moss and perlite, well moistened, then slipped into a plastic envelope. They germinated in twelve days (we don't have to supply bottom heat here). As we were leaving on vacation, I left the seedlings intact until our return. When they were ready for pots, I had nineteen beautiful plants which were shared with my family and friends. My eleven-year-old niece

helped with the entire project and we are very happy and proud of the results."

**Multiflora begonias —**

A friend in New Zealand has sent the following seeds:

**B. Multiflora Richard Galle —**

Amber yellow, shaded copper, semi-double. 35 cents per pkt.

**B. Multiflora Flamboyant —**

Single, dazzling cherry-red. Nearest to European hybrid, B. 'Davisii'. 35 cents per pkt.

**B. Multiflora Sapy —**

Salmon-apricot, tinged with yellow. 35 cents per pkt.

There is still time to grow multiflorens for summer and fall blooms for beds, borders, or pots. They will bloom abundantly in sunny locations where some high shade is provided, such as tree branches or lath.

From Texas: "I have had such good luck with seeds from the Seed Fund. I have received an Award of Merit and three blue ribbons at our flower show on plants grown from your seeds."

**GREENHOUSE PLANTS**

**Saintpaulia-velutina —**

Species from Africa. 35 cents per pkt.

**Fuchsia procumbens —**

Trailing fuchsia, useful for hanging. Flowers solitary in leaf axils, calyx orange-purple. 25 cents per pkt.

**Rhododendron, 'Bow bells' —**

Showy plant. Flowers mostly tubular or funnel-shaped. Grow in shade in acid soil. 25 cents per pkt.

**Guzmania lingulata minor —**

Bromeliaceae. Small, formal rosette, with pale apple-green papery leaves and purple pencil lines. Inflorescence a raised cup of scarlet bract-leaves and white flowers. 35 cents per pkt.

**Vresia malzenii—**

No description available. 35 cents per pkt.

**OTHER GENERA**

**Thalictrum diptocarpum —**

Showy, Chinese plant, one to two

feet high; the roundish, notched; ultimate leaflets bluish-green on the underside. Flowers nodding, the clusters much branched, the pale rose or lilac-lavender sepals nearly as long as the stamens. Blooms late summer. 25 cents per pkt.

**Lilium regale, 'Royal lily' —**

Flowers usually horizontal, fragrant, about six inches long, lilac or purple-  
ish outside, white inside, but yellow at the base. 25 cents per pkt.

**Antirrhinum asarina —**

Perennial, of spreading habit, covered with short, sticky hairs. Flowers solitary, white or pale pink. 25 cents per pkt.

\* \* \* \*

The Seed Fund is overstocked with seed of mixed begonias. It is impossible to tell what they will produce, but we think they are mostly rhizomatous and semperflorens types. We do not like to throw them away when someone should be growing them. Therefore, we are giving them away to anyone who will send postage. If other seeds are requested from the regular list, you do not need to include postage. Please do not ask to have them separated as to type — this is impossible — we do not know what they are. There is no limit on quantity.

MRS. FLORENCE GEE,  
*Seed Fund Administrator,*  
234 Birch Street,  
Roseville, California 95678.

**A NEW SPECIES . . .**

(Continued from Page 117)

of the male flower are united in one group by connation of their filaments.

As already mentioned, *Begonia Sudjanae* belongs to the section *Reichenheimia*. Though well separated from *B. goegoensis* N. Br. of the same section, it shows in many respects near relationship with this species. From a horticultural point of view I mean that *B. Sudjanae* has certain values. Thus it has appeared rather

## BOTANICAL TERMS EXPLAINED

The glossary and illustrative drawings of botanical terms, beginning on the next page, are reprinted from *Exotica*, a pictorial cyclopedia of indoor plants published by Roehrs Company, of Rutherford, New Jersey.

This valuable reference information is presented here with the special permission of Alfred Byrd Graf, editor of *Exotica* and president of Roehrs Company, granted in response to a request by Mrs. Bee Olson, A.B.S. Research Director.

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easy to cultivate.

It does not require especially humid conditions and shows a good growth and flowering in ordinary, central-heated rooms. Too moist conditions can easily cause root infections probably by some fungi. We have received the best vegetative development in a rather shady habit. Exposed to intense sunshine, the leaves get clear signs of chlorosis and, especially in summers, whitish grey patches by partial death of tissues. Properly cultivated, it seems to flower rather independent of the season.

*Begonia Sudjanae* is beautifully shaped and attractive though not of the same decorative quality as *B. goegoensis*. I have two reasons to believe that a particularly high value lies in its ease of cultivation:

1. It requires no special arrangements and it can be cultivated under normal room-conditions.
2. It is probably a good material for raising hybrids in which these mentioned qualities can be combined with more conspicuous flowers and colors of some other more sensitive species.

(This article was written especially for THE BEGONIAN by Mr. Jansson.)

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# The Meaning of Botanical Terms

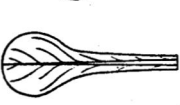
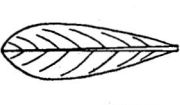
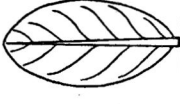
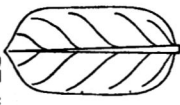
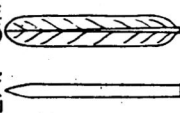
- acicular** — needle-like
- acuminate** — tapering to a point
- acute** — sharply pointed, but not drawn out
- adventitious** — other than usual place
- alternate** — arranged along a stem at different levels
- anther** — pollen bearing top of stamen
- apex** — the tip of an organ (as a leaf)
- apiculate** — with short, not stiff point
- areole** — cushion-like structure out of which can arise spines, branches, and flowers, a characteristic confined to cacti
- articulated** — jointed, separating freely by a clean scar
- asexual** — propagates without benefit of sex
- attenuate** — becoming narrow, tapered
- auriculate** — with ears at base
- axil** — the point just above the leaf where it rises from the stem
- basal** — at the base of an organ
- bifurcate** — forked
- bilabiate** — divided into two unequal lips
- bipinnate** — both primary and secondary divisions with separate leaflets
- bipinnatifid** — twice pinnately cut
- blade** — the expanded portion of a leaf
- bract** — modified leaves intermediate between flower and the normal leaves, frequently colored
- bristly** — bearing stiff strong hairs or bristles
- bulb** — a growth bud with fleshy scales, usually underground
- calyx** — outer circle or cup of floral parts (usually green)
- campanulate** — bell-shaped flower with broad base
- caudex** — upright root stock or trunk
- caulescent** — becoming stalked
- channeled** — hollowed out like a gutter
- chromosomes** — microscopic rodlike bodies in the plant cell, bearing the hereditary material
- cephalium** — woolly cap at the apex of cacti
- ciliate** — fringed with eyelash hairs
- clasping** — leaf surrounding stem
- cleft** — cut halfway down
- column** — combined stamens and style into one body (as in orchids)
- compound** — similar parts aggregated into a common whole
- compound leaf** — a leaf of two or more leaflets
- concave** — hollowed out
- convex** — umbrella-like
- cordate** — heart-shaped
- corolla** — complete circle of petals
- corm** — bulb-like but solid; enlarged fleshy base of a stem
- corymb** — a flat-topped open flower-cluster blooming from outside in
- creeper** — a trailing shoot rooting at intervals
- crenate** — with teeth rounded, scalloped
- crested** — with elevated and irregular ridge
- culm** — the peculiar hollow stem or stalk of grasses and bamboo

**cultivar** — special form originating in cultivation  
**cuneate** — wedge-shaped, triangular  
**cuspidate** — tipped with a sharp and stiff point  
**cyme** — a broad, usually flat-topped flower cluster with center flowers opening first  
**decumbent** — reclining, but summit ascending  
**deltoid** — triangular  
**dentate** — with coarse teeth, usually directed outward  
**digitately lobed** — fingered and main veining radiating from more than one point  
**divided** — separated at the base  
**dorsal** — back; in orchids usually a top sepal  
**downy** — clothed with soft short hairs  
**elliptical** — oblong, with widest point at center  
**elongate** — drawn out in length  
**emarginate** — notched at the end  
**endemic** — native to a restricted region  
**entire** — margin without toothing or division  
**epiphyte** — air-plant; a plant growing on another, but not taking food from its host  
**farinose** — covered with a mealiness, or starchy matter  
**ferns** — plants without flowers  
**fertile** — spore bearing or seed-bearing  
**fibrous** — with fibers, or thread-like parts  
**filament** — thread-like stalk of an anther  
**filiform** — thread shaped; very slender  
**floccose** — with locks of soft hair or wool  
**frond** — leaf of fern  
**funnelform** — a tubular flower gradually widening upward and spreading into disk  
**glabrous** — smooth, not hairy nor rough  
**glaucous** — covered with a white powder that rubs off  
**glochid** — barbed hair, or bristle, as in cacti  
**glutinous** — sticky  
**hairy** — having longer hairs  
**hastate** — halberd-shaped with basal lobes turned outward  
**head** — a short dense flower spike  
**herb** — a plant with no persistent stem above ground, usually contrasted with woody plants  
**herbaceous** — non-woody  
**hirsute** — hairy, with long rather stiff hairs  
**hybrid** — a plant resulting from a cross between parents that are unlike  
**inferior ovary** — one that is below the calyx leaves  
**inflorescence** — the flowering portion of a plant, or more precisely the mode of its arrangement  
**intergeneric** — hybrid between genera  
**irregular flower** — a flower which cannot be halved in any plane, or in one plane only  
**insectivorous** — plants which capture insects and absorb nutriment from them  
**internode** — space between two joints  
**lacinate** — slashed into narrow irregular pointed lobes

**lanceolate** — lance-shaped; tapering toward the tip  
**lateral** — from the side  
**lepidote** — beset with small scurfy scales  
**limb** — the border or expanded part of corolla (or spathe) above the throat  
**linear** — narrow, and flat, margins parallel  
**lip** — the principal lobes of a bilabiate corolla; in orchids a much modified petal  
**lobe** — any projection of a leaf, rounded or pointed  
**lobed** — leaf cut less than halfway to the base  
**marginal** — at the edge  
**membranous** — thin, semi-transparent  
**mutant** — form derived by sudden change from a species  
**needle-shaped** — long, slender and rigid  
**node** — a joint in a stalk where leaves or their vestiges are born  
**obcordate** — inversely heartshaped, the notch being at the apex  
**oblanceolate** — broad end near tip, long tapering toward base  
**oblique** — slanting of unequal sides  
**oblong** — much longer than broad, with parallel sides  
**obovate** — inverted ovate, the broad end upward  
**obtuse** — blunt or rounded at the end  
**opposite** — opposite each other  
**orbicular** — leaf with circular outline  
**ovary** — that part of the pistil which contains the future seed  
**ovate** — a leaf broadest near base, tapering upward  
**palmate** — veins or leaflets radiating from tip of petiole  
**palmately compound** — more than 3 leaflets borne at tip of petiole  
**palmately lobed** — palmately divided leaf not cut to base  
**panicle** — an open and branched flower cluster  
**parallel** — equally distant at every part  
**parasite** — organism subsisting on another living organism  
**parted** — leaf cut  $\frac{3}{4}$  or more  
**pectinate** — comb-like, merely fringed, with spines  
**pedate** — footed; palmately divided or parted  
**pedicel** — stalk of each flower and cluster  
**peduncle** — primary flower stalk  
**peltate** — leaf-blade attached to stalk inside its margin  
**peltate-palmate** — palmate leaf completely circular in outline  
**pendant** — hanging down from its support  
**perianth** — the calyx, or corolla, or both  
**perfoliate** — petiole in appearance passing through the leaf  
**petal** — a flower-leaf  
**petiole** — the supporting stalk of a leaf; leaf stem  
**petiolate** — furnished with a petiole  
**petiolule** — a small petiole  
**phyllodia** — leaf-like stems and no blades (as in Acacia or Epiphyllum)  
**pilose** — shaggy with soft hairs  
**pinnæ** — primary division of a pinnate leaf, its leaflets  
**pinnate** — feather-formed; separate leaflets arranged along sides of leaf stalk; separation complete  
**pinnatifid** — feathered; cut halfway to midrib  
**pinnatisect** — feathered leaf cut down to the midrib

# Descriptive Botanical Terms illustrated

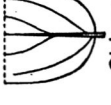
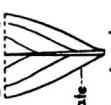
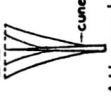
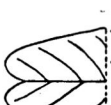
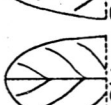
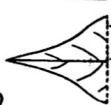
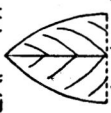
## LEAF SHAPES



Needle  
Linear  
LEAF TIPS

Oblong  
Elliptic  
Ovate  
Obovate  
Lanceolate  
Oblanceolate  
Spatulate

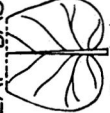
Orbicular  
Rhomboidal  
Deltoid  
Reniform



Acute  
Acuminate  
Cuspidate  
Obtuse  
Emarginate  
Attenuate  
Acute  
Obtuse  
LEAF BASES

Truncate  
Oblique  
Auriculate

LEAF ARRANGEMENT



Cordate  
Sagittate  
LEAF BASES

Hastate

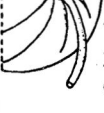
Transversely oblong-peltate  
LEAF ATTACHMENT

Sessile  
Stalked

Perfoliate

Rosette

Whorled  
Opposite  
Alternate



Orbicular-peltate  
Sagittate-peltate  
LEAF MARGINS

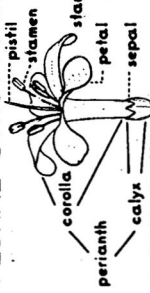
Entire  
Undulate  
Crenate  
Dentate  
Serrate  
Lobed  
Pinnatifid  
Pinnate-trifoliate  
Pinnate  
Bipinnate  
Palmately lobed

Pedately lobed

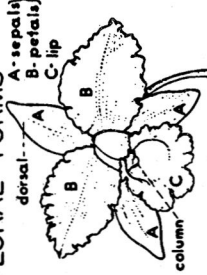
**LEAF MARGINS**



Palmate-trifoliolate  
Palmately compound  
Peltate-palmate  
**FLORAL STRUCTURES**



**FLORAL PARTS**  
**PETALS UNITED**  
**FLORAL FORMS**

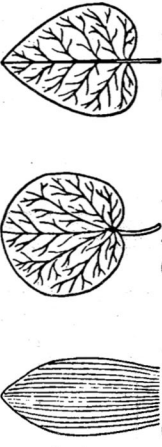


Irregular (Orchid)  
**FERNS**

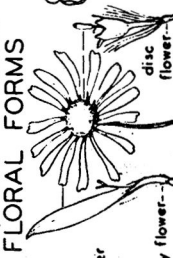


**MARGINAL SPORES**

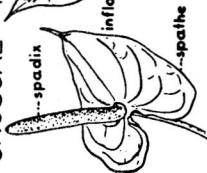
**LEAF VENATION**



Parallel  
Palmate  
Pinnate



Composite  
**UNUSUAL INFLORESCENCE FORMS**

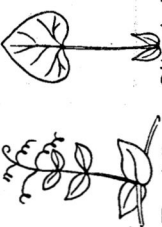


Anthurium  
**ROOTS AND ROOTSTOCKS**

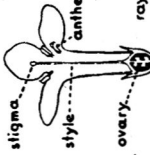


Fibrous roots  
Tuber  
Bulb

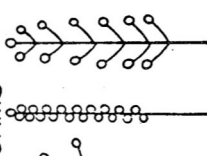
**LEAF VENATION**



Stipulate  
**FLORAL FORMS**



SECTION - PETALS UNITED - Ovary inferior



Spike Raceme  
**ROOTS AND ROOTSTOCKS**

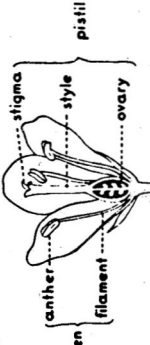


Panicle  
**ROOTS AND ROOTSTOCKS**

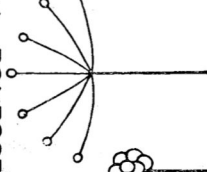
**LEAF MARGINS**



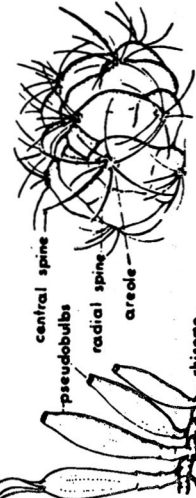
Single Head Umbel  
**CACTI**



SECTION - PETALS SUPERIOR Ovary superior

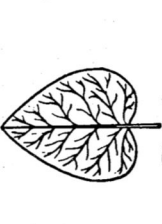


Irregular (Orchid)  
**FERNS**



central spine  
pseudobulbs  
radial spine  
areole  
rhizome

**LEAF VENATION**



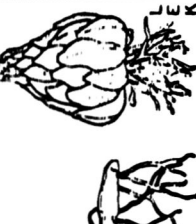
Bell-shaped Bilabiate  
**INFLORESCENCE FORMS**



Salverform  
**INFLORESCENCE FORMS**

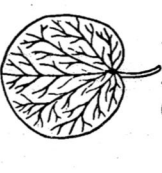


Poinsettia  
**INFLORESCENCE FORMS**

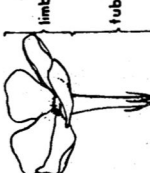


Vriesia spike

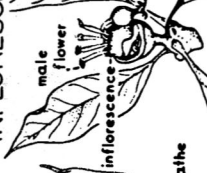
**LEAF VENATION**



Salverform  
**INFLORESCENCE FORMS**



Poinsettia  
**INFLORESCENCE FORMS**

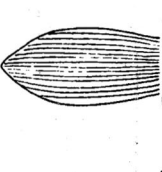


Vriesia spike

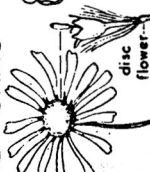


Rhizome

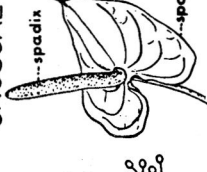
**LEAF VENATION**



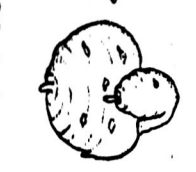
Tuber



Bulb



Rhizome



Fibrous roots

**pistil** — the female organ of a flower, consisting of ovary, style and stigma

**pistillate** — flower having pistils only; female

**pollen** — the fertilizing powder contained in the anther

**procumbent** — lying along the ground; leaning

**prostrate** — lying flat on the ground

**prothallus** — first stage of germination of fern spore into flat shield, bearing the sexual organs

**pseudobulb** — thickened and bulb-like portion of stem in epiphytic orchids

**pubescent** — covered with short, soft hairs, downy

**punctate** — having tiny translucent glands, appearing like dots

**raceme** — elongated simple inflorescence with stalked flowers

**rachis** — axis bearing flowers or leaflets

**ray** — marginal portion or floret of a Compositae flower when distinct from the disk

**recurved** — bent backward or downward

**regular flower** — with the parts in each set alike

**reniform** — kidney-shaped

**rhizome** — creeping rootstock, on or under the ground

**rhombic** — irregularly slanting rectangle

**rosette** — a cluster of leaves radiating in a circle from a center usually near the ground

**rosulate** — bearing a rosette, or basal cluster of spreading leaves covered with wrinkles

**rugose** — covered with wrinkles

**runner** — a slender prostrate shoot, rooting at the end or at joints

**saccate** — bag-shaped

**sagittate** — arrow-shaped, with basal ears turned downward

**salverform** — slender tube abruptly expanded into disk-like flat limb

**scabrous** — rough or harsh to the touch

**scale** — usually small, dry leaves or bracts

**scaly rhizome** — a rhizome with closely appressed, much modified leaves, scale-like in appearance

**scandent** — climbing, in whatever manner

**scape** — leafless flower stalk arising from the ground (root)

**scorpioid** — curved or coiled at the end

**segment** — one of the divisions into which a plant organ may be cleft

**sepal** — each segment of a calyx, or outer floral envelopes

**serrate** — notched like saw; finely toothed

**sessile** — sitting close, without stalk

**setose** — covered with bristles

**simple leaf** — one blade; opposite of compound

**single flower** — flower with one set of petals

**sinuate** — with a deep wavy margin, curved

**sinus** — the curve between two lobes of a leaf

**slipper-shaped** — tubular ventricose

**sori** — spore masses (in ferns)

**spadix** — a fleshy spike bearing tiny flowers as in aroids

**spathe** — partly surrounding the inflorescence a flower-like bract often colored or showy

**spatulate** — oblong, broadly rounded at tip but tapering to narrow base

**spike** — elongated flower stem, with flowers not stalked

**spine** — a sharp woody outgrowth from stem

**sporangium** — a sac producing spores — a spore-case in ferns

**spore** — in ferns a reproductive cell, somewhat corresponding to seed in flowering plants

**sporangium** — a spore-case in ferns

**spur** — a tubular projection from the base of a petal or sepal

**stamen** — the pollen-bearing or "male" organ

**staminate** — flower wholly male

**stellate** — star-form; stellate hairs have radiating branches

**stigma** — that part of the pistil or style which receives the pollen

**stipule** — a leaf-like appendage at base of petiole

**stipulate** — with appendages at base of petiole

**stoloniferous** — sending out, or propagating itself by stolons

**style** — the connecting stalk between the ovary and stigma

**sub-cordate** — indented a trifle

**subtend** — to extend under, or be opposite to

**subulate** — owl shaped, tapering from broad or thick base to a sharp point

**succulent** — juicy, or storing water in stems or leaves

**sulcate** — grooved or furrowed

**superior ovary** — when all petals and sepals are inserted below it

**synonym** — a name rejected in favor of another

**tendrill** — a thread-shaped shoot used for climbing

**terete** — circular, rounded in cross section; cylindric and usually tapering

**terrestrial** — plants growing in the ground

**tetraploid** — having four sets of chromosomes

**throat** — the opening of the flower

**tomentose** — densely covered with matted wool

**transverse** — directed across (as on a leaf); crosswise

**transversely oblong-peltate** — long target-like leaf lying crosswise

**trapeziform** — no two lines parallel

**trifoliolate** — with three leaflets, as in clover—commonly, but incorrectly, termed "trifoliolate"

**trifoliolate** — three-leaved

**truncate** — as if cut off at the end

**tube** — the united portion of calyx or corolla

**tuber** — thickened portion of subterranean stem provided with "eyes"

**tubercle** — a wart-like or knobby projection

**tubular** — having form of a hollow cylinder

**turgid** — inflated; swollen

**umbel** — inflorescence in which flower stalks or cluster arise from same point

**undulate** — wavy, or wavy-margined

**vaginate** — sheathed; surrounded by a sheath, usually of leaf stems

**ventral edge** — belly side

**ventricose** — swollen on one side

**whorled** — leaves in circle around stem (above)

**woolly** — clothed with long and entangled soft hairs

**xerophyte** — plant which can subsist with little moisture

**xerophytic** — growing in dry situation, subsisting with little moisture

## EXPERTS . . .

*(Continued from Page 115)*

little more salt than ferns and fuchsias.

If you want to be sure something will grow, find begonias with thick leaves, hairy, fuzzy, or with large rhizomes. These are least apt to die. Species are difficult plants to grow.

Begonia plants will not grow big if they are not in large containers. Put them in containers with a large amount of mix, and they will grow larger. Unless a plant has oxygen, it will rot and die. You must allow the soil to have air.

Sinking a lanky begonia down in the pot, covering one or two nodes with mix, will automatically send up good basal growth which is what you need to have a good plant.

Shrubby begonias planted in the garden in garden soil grow very nicely; they sometimes grow to huge proportions. Do not keep them too damp in the winter.

Begonia growth can vary when planted in different places in your yard. Move the plants around to where they will be happy.

It is a good idea to take cuttings now and then, growing them in a cold-frame or flat that is covered with plastic, so that you have plants to replace any that might be lost during the cold and rainy season.

Be especially sure to take cuttings of those plants you have that are not seen too often in other yards, and be sure to label them correctly. This should be done at the sign of new growth. It is done for insurance so that you will have plants, because your friends just might lose theirs also.

By taking bad leaves off our begonias daily, the strength goes into the healthy leaves and the plants always look well-groomed. Keep your plants clean.

You will not have leaf burn when watering foliage if you really water thoroughly.

It has been noted by one authority

that foliar feeding with Spoonit helps prevent mildew, while another advocates the use of a Hydromix for feeding our plants.

A booster of Humisite, blood meal, and hoof and horn for all plants has been advised by a well-known speaker. She suggests doing this at three-month intervals (1 teaspoon to a 6" pot).

Staking of tall plants should be done all the time they are growing so that the leaves will cover the stakes and present a better plant for entering in shows. Stakes should not be seen. If you have not already done so, stake the plant at least a month before show time.

Cut the bad leaves as close as possible just before entering your plant in the show and any leaves that have holes in them should be taken off. There should not be any dark spots on the tips of the leaves. Plants should be nice and even. After your plants have been pruned and trimmed, water them thoroughly. Pack them with sphagnum moss to keep them moist. The pots must be clean.

It is better to have the plants down low in the show so that the judges can look into them, not up to them.

Malathion kills mealy bug, scale, et cetera. Use once a week on the undersides and not on a foggy day. The plants must be watered heavily first. Have the plants full of water — sun out — spray them then. Malathion  $\frac{1}{4}$ " in the pot if you have soil mealy bug.

Do not spill Malathion on your skin. It is vicious. Use it once for what you need it for, next time going to a less poisonous insecticide. This information, we feel, is very important.

Ferns—Collector's Items  
Adiantums and Other Varieties

**TALNADGE'S FERN GARDENS**  
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## 1964 AWARDS NOMINATIONS

"The time has come," the Walrus said, "To talk of many things: of shoes — and ships — and sealing wax — of cabbages and kings. . . ."

The above quotation is not meant to be flippant but to arrest your attention and to assure you that the following subject need not be that complicated.

The time has come to speak of two important awards presented by the American Begonia Society each year at the convention in September.

Please do not put this aside in your mind thinking it is so far in the future. It is later than you think! Begin now to think and act so that this matter can have proper consideration not only by you but by the Awards Committee.

Each year these two awards are explained. They are not difficult to understand, but to help with your deliberation the following is offered:

**THE EVA KENWORTHY GRAY AWARD.** This is an award to the memory of Mrs. Eva Kenworthy Gray who during her lifetime contributed so much of her practical knowledge to others.

It is given to a person for a high standard of achievement as contributed to the American Begonia Society. These contributions are as follows:

1. Original literary material aiding members in their study of begonias.
2. Outstanding service in the furtherance of the American Begonia Society and promoting interest in the culture of begonias.
3. For promoting better understanding between members in their quest of the knowledge of begonias.

Please study these rules carefully regarding this high award and note that actually the nominee should be someone contributing outstanding, original study material which pro-

notes interest, goodwill, and knowledge of begonias and the Society.

**THE ALFRED D. ROBINSON MEMORIAL AWARD.** This is an award honoring the late Alfred D. Robinson of San Diego, California, who was known throughout the world as an authority on growing begonias.

This award is given to a Begonia Hybrid or Cultivar. High standards are set but first the following qualifications must be met:

1. Nominee must be registered with the American Begonia Society Nomenclature Director.
2. Originator of nominee must be a member of the American Begonia Society, either amateur or commercial.
3. Nominee must have been offered to the public for five years prior to nomination.

The committee thanks all members and Branches for their interest and cooperation. Please send in your nomination.

Members of the Awards Committee for 1964 are Mrs. Margaret B. Taylor, Chairman, Anaheim, Calif., William Meyn, Whittier, Calif., Mrs. Lester H. Fox, Dracut, Mass., Mrs. C. E. Cooper, Houston, Texas, Herbert Fitch, Sacramento, Calif., Mrs. Alva Graham, Pasadena, Calif., Nomenclature Director, ex-officio member.

Margaret B. Taylor, Chrmn.,  
111 Evelyn Drive,  
Anaheim, California,  
Phone: 535-2652

### THIRTY-SECOND ANNUAL CONVENTION

September 5-6-7

At Los Angeles Arboretum

WATCH FOR DETAILS

## ROUND ROBIN NEWS

There are eleven Round Robins in flight on April 27, as I write this column. Number eleven was started just recently with Mrs. Phyllis A. Wright of Seattle, Washington, as chairman. Number twelve is being assembled with Mrs. Anne W. Stiles of Medford, New Jersey, as chairman.

The response to this program has been excellent so far. Members and volunteer chairmen have written to me in considerable numbers and the distribution of the United States has been very wide-spread. We also have one Robin member from Ottawa, Canada, and another from Victoria, Australia.

We now have eighty-five members in this program. Of these, eleven are men. Let's keep adding new Flights. Every member of the American Begonia Society is urged to join a Flight. Just write to me for an assignment.

Here are some news items from the Flights that arrived this month. Sorry that we can use only a few from the dozens that appear.

Marie Wood, Caledonia, Wisconsin, Flight #4, reports that she has written in Round Robins since 1940, when all she knew about begonias was that hers were called 'wax begonias.' Has anyone been in the Round Robin program longer than this? Some of the members in independent Robins may exceed this. Please let us know.

Virginia Withee, Coventry, Rhode Island, Flight #4, reports that the New England area seems to have exceptional success with Calla begonias. Who can explain why this is so? They grow some specimens up to "wash-tub" size.

Mamie Claggett, Houston, Texas, Flight #3, suggested that this Round Robin select a different begonia on each cycle about which each member should include all of his or her experiences. This is an excellent idea for all Flights. Begonia 'Credneri' seemed to be the plant that sparked the idea

in this Flight because its identification and culture caused a lot of discussion. Bee Olson suggested *B. goe-goensis* for the next cycle in Flight #3.

As Research Director, Bee can summarize all of the information and present it in *The Begonian*.

Mary Crist, Mercersburg, Pennsylvania, Flight #3, told us a story that shows her devotion to her plants. She is a widow and has to hire help or do all of her own gardening work. She hand-fires the two coal-burning furnaces that separately heat her greenhouse and her home. Many of us gripe about a few problems with our oil or electric heaters, but it looks as though Mary's difficulties in cold weather far exceed ours. When she gets a little discouraged with life's problems, a pleasant little walk through that greenhouse restores her spirits.

HERB WARRICK  
*Round Robin Director*  
6543 - 26th Ave., N.E.  
Seattle, Wash., 98115.

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## REPORT FROM RETIRING LIBRARIAN

It was with mixed emotions that I announced that I must give up the library because we are moving to Vista, in San Diego County, California, to become avacado ranchers.

In the sixteen months that I have been your Librarian, it has been my pleasure to answer requests from 188 interested begonia enthusiasts.

Many of your letters have requested more than the allowed two books and your back orders are on file and, as time and the availability of the books permit, they will be sent to you. I want to express my appreciation to most of you for your promptness in returning books, for your care in packaging them, and for your sending postage. Since postage is the largest expense of the Library, please remember to refund the amount of the postage on the package sent to you. This will help your new Librarian.

Many of our books have not been returned. Will you look through your book shelves to see if, by chance, returning a book you borrowed may have slipped your mind?

To date, the Librarian has been able to turn over to the Treasurer the sum of \$250.08 from the sale of the *Buxton Check List* and the Brilmayer book, *All About Begonias*. These are the only books available for sale by the Library.

I have enjoyed corresponding with many of you and it has been a real pleasure to serve you.

LOLA E. FAHEY,  
Librarian, A.B.S.

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## NEW LIBRARIAN READY

As your new Librarian, I realize that this office is an obligation to every member of the American Begonia Society. I will try to be as efficient and prompt as Mrs. Lola Fahey, who has done such wonderful work in setting up the library in alphabetical order.

I hope that each member will use these books and magazines. Perhaps many members will ask, "What do you have?" In the November, 1963 issue of *The Begonian*, is a complete list of books and magazines in the library, with instructions for ordering. The only cost to members is for postage.

As your Librarian, I am ready to serve you.

Mrs. J. A. (Muriel) Perz,  
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Long Beach, Calif. 90810.



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## FUCHSIA AND SHADE PLANT SHOW IN ANAHEIM

The Orange County Branch of the California National Fuchsia Society will present its third annual Fuchsia and Shade Plant Show on Saturday and Sunday, June 13 and 14, in the Football Stadium, La Palma Park, located at Harbor Boulevard and La Palma, in Anaheim, California.

Show hours will be 1 to 8 p.m. on Saturday, and 10 a.m. to 6 p.m. on Sunday.

Competitive entries will be open to everyone, except judges or members of their families. Displays by other societies will be welcomed. Further information can be obtained from Mrs. Daisy Austin, show chairman, 1510 Kimberly Avenue, Anaheim, California; phone PR 4-1170.

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## CALENDAR

June 4 — Whittier Branch: Jack Mannell, Rosedale's Nurseries, La Habra, will conduct a plant forum on new introductions and will give pointers on landscaping.

June 11 — Orange County Branch: Rudolf Zieschenne will speak on "Begonias in General". Pot-luck dinner at 6:30 p.m.

June 11 — Missouri Branch: Hostess will be Mrs. Victor Rackers. Luncheon at 11 a.m. — flower sale at 12:30 p.m. — meeting at 1 p.m. Program: Mrs. Dulcie Whelchell, chapter 15, *Summer Flowering Tuberous Begonias*; Mrs. Lynn Wood, George Olten's *Tuberous-Rooted Begonias and Their Culture*. Discussion of tuberous begonias and June problems. Visitors are welcome.

June 13-14 — Fuchsia and Shade Plant Show, in La Palma Park, Anaheim, California.

June 18 — Long Beach Parent Chapter: Guest speakers will be Mrs. Jean Kerlin, who will talk on "Begonia Care".

June 19 — San Gabriel Valley Branch: Note that this meeting is not on the regular day. The meeting will be at the home of Gordon Baker Lloyd — a pot-luck dinner at 7 p.m. — by reservation only. Phone Mrs. Small at HI 6-9318 or Mrs. Blough at ED 5-7656.

June 19 — North Long Beach Branch: Meeting will be membership participation.

June 24 — Glendale Branch: Bert Slatter will speak on "Plant Culture".

July 2 — Westchester Branch: A Plant Show of members' plants will be judged by qualified judges who will give their opinions and comments.

July 9 — Orange County Branch: Mrs. Margaret Harding, past president of the Orange County Bird Club and Audubon Society, will show colored slides and give information on birds and shrubs that will attract birds.

## Report of National Board Meeting

The regular meeting of the National Board of the American Begonia Society was called to order at 7:30 p.m., April 27, by the President, Mrs. Terry Olsted.

Roll call showed eighteen officers and chairmen present.

Mrs. Mabel Corwin, President-Elect, made a follow-up report on the request from the Japan Begonia Society for identification of twenty-two rex leaves from pictures they had sent. She reported that she was able to identify several but not all of them, and had written accordingly.

The Vice-President of the Japan Begonia Society expressed interest in organizing a Branch of the A.B.S. Mrs. Naumann, Public Relations Director, was instructed to write and outline the requirements for forming a Branch.

The report of the Treasurer, Earle Budd, was read by the Secretary. It showed a balance on hand of \$609.37.

Mrs. Daisy Austin, Membership Secretary reported that 2287 *Begonians* were distributed.

Mrs. Bee Olson, Research Director, reported that a croton grower in Colombia is anxious to establish an outlet for croton wood-stock in the United States, possibly through the A.B.S. Seed Fund. Vice-President Howard Small moved that the Society try to do this if a suitable arrangement can be made, and the motion carried.

Mrs. Edna Korts, Business Manager, presented a bill for \$68.64 for the printing of 5,000 begonia cultural bulletins, which are now ready for distribution. She also presented bills for renewal of insurance. Insurance on the library, due May 1, is \$15.00 for three years. Workmen's compensation insurance, due June 1, is \$35.00 for one year. It was voted that these policies be renewed.

The report of the Advertising Manager, Mrs. Ruby Budd, was read by the Secretary. Receipts were \$45.92 and accounts payable were \$37.50.

Mrs. Verna Naumann, Public Relations Director, announced that a new Branch has been organized in Bellevue, Washington, and has requested a charter.

The outgoing librarian, Mrs. Lola Fahey, reported that books were in order, ready for the new librarian. The new librarian, Mrs. Muriel Perz, stated that she was ready for business.

Mrs. Margaret Taylor, Awards Chairman, discussed award certificates and the need for art work to complete them. It was voted that she have four sets of these certificates completed. Webster Willeford volunteered to do the art work.

Mrs. Alva Graham, Nomenclature Director, said that she has been putting the *Buxton Check List* on cards.

Bert Slatter, Show Chairman, said that he would put a booth in the Fern and Shade Plant Show, to be held May 16 and 17.

President Terry Olsted reported that A.B.S. pins are selling fast and she would order forty more.

The President appointed a ballot-counting committee: Carl Naumann, Mabel Corwin, and Perry Olsted. They will meet at Peggy McGrath's home on May 18 to count ballots.

The President appointed a nominating committee: Mrs. E. C. Arbuckle, Mrs. Pearl Benell, and Mrs. Irene Nuss.

Branches reporting were: Glendale, Inglewood, North Long Beach, Orange County, Pasadena, San Gabriel Valley, Westchester, and Whittier.

PEGGY MCGRATH,  
Secretary.

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# Branch Directory

VISITORS ARE ALWAYS WELCOME AT THESE MEETINGS

## BRITISH BRANCH

F. J. Bedson, Secy., Kent, England

## BUXTON, BESSIE RAYMOND BRANCH

3rd Saturday, Homes of Members  
Mrs. Daniel L. Comiskey, Secy.  
64 High Rock St., Needham, Mass., 02192

## DALLAS COUNTY, TEXAS BRANCH

3rd Monday, 10 a.m., Member's Homes  
Mrs. George Wilkins, Secy.  
3625 N. Fitzhugh St., Dallas, Texas

## EAST BAY BRANCH

2nd Thursday, 7:45 p.m., Willard School  
Telegraph at Ward, Berkeley, California  
Miss Dorothy F. Osburn, Secy.  
5015 Cochrane Ave., Oakland 18, Calif.

## EL MONTE COMMUNITY BRANCH

3rd Friday, Members' Homes  
Daisy Morrow, Secy.  
2821 Musgrove Ave., El Monte, Calif.

## FOOTHILL BRANCH

3rd Thursday, 8:00 p.m.  
La Verne Community Bldg.  
2039 Third St., La Verne  
Mrs. Isabel A. Hall, Secy.  
358 E. Arrow Hwy., Upland, Calif.

## FORT, ELSA BRANCH

1st Saturday, 1:30 p.m.  
Miss Lola Price, Secy.  
628 Beech Ave., Laurel Springs, N.J.

## GLENDALE BRANCH

4th Wednesday, 8:00 p.m.  
Tuesday Afternoon Club, 400 N. Central  
Mrs. Katherine Alberti, Cor. Secy.  
3322 Troy Drive, Hollywood, Calif., 90028

## GRAY, EVA KENWORTHY BRANCH

2nd Saturday, 1:30 p.m. (except Dec. & Jan.)  
Seacoast Hall, 3rd and E St., Encinitas, Calif.  
Mrs. Alice E. Roberts, Secy.  
523 Hermes Ave., Encinitas, Calif.

## GRAY'S HARBOR BRANCH

2nd Monday, 8:00 p.m.  
Hoquiam Public Library or  
Messingale and Rosenear Music Store  
Aberdeen, Washington  
Mrs. Jessie B. Hoyt, Secy.  
1013 Harding Road, Aberdeen, Wash.

## GRUENBAUM, MARGARET BRANCH

4th Tuesday, 10:30 a.m., Homes of Members  
Mrs. Adolph Belsler, Corr. Secy.  
Welsh and Veree Rd., Philadelphia, Pa.

## HOLLYWOOD BRANCH

Meetings temporarily suspended.  
Mrs. Georgina Barton, Secy.  
2821 Herkimer St., Los Angeles 39, Calif.

## HOUSTON, TEXAS BRANCH

2nd Friday, 10:00 a.m.  
Garden Center, 1500 Herman Drive  
Mrs. Grant Herzog, Secy.  
12601 Broken Bough, Memorial Station  
Houston 24, Texas

## HUMBOLDT COUNTY BRANCH

2nd Monday, 8:00 p.m.  
Los Amigos Club, Loleta, Calif.  
Miss Margaret Smith, Secy.  
P.O. Box 635, Ferndale, Calif.

## INGLEWOOD BRANCH

1st Tuesday, 7:45 p.m., American Legion Hall  
3208 West 85th St., Inglewood, Calif.  
Mrs. Frances Jean, Secy.  
8212 Reading Ave., Los Angeles 45, Calif.

## KNICKERBOCKER BRANCH

2nd Tuesday, 7:30 p.m.  
Library, Horticultural Society of N.Y.  
157 West 58th St., New York  
Mrs. Phyllis Cherot, Secy.  
115-44 194th St.,  
St. Albans 12, N. Y.

## LONG BEACH PARENT CHAPTER

3rd Thursday, 7:30 p.m.  
Linden Hall  
208 Linden Ave., Long Beach, Calif.  
Mrs. Mabel Gage, Secy.  
3214 Delmar Ave., Long Beach 7, Calif.

## LOUISIANA CAPITAL BRANCH

1st Friday, Capitol Room  
1701 Main St., Baton Rouge  
Mrs. Elaine Wilkerson, Secy.  
5764 Robertson Ave., Baton Rouge 5, La.

## MIAMI, FLORIDA BRANCH

4th Tuesday, 8:00 p.m.  
Simpson Memorial Garden Center  
Mrs. Ray Rosengren, Secy.  
5530 N.W. 21 Ave., Miami, Fla.

## MISSOURI BRANCH

3rd Tuesday, 11 a.m.  
Member's Homes  
Kansas City, Mo.  
Miss Nina Austin, Secy.  
1104 Askew St., Kansas City 27, Mo.

## NORTH LONG BEACH BRANCH

3rd Friday, 7:30 p.m.  
3901 Atlantic Ave., Long Beach  
Ruby Tessier, Secy.  
3737 Gundry Ave., Long Beach, Calif.

## ORANGE COUNTY BRANCH

2nd Thursday, 7:30 p.m.  
Garden Grove Grange Hall, Century and Taft Sts.  
Garden Grove, Calif.  
Maybelle L. Woods, Secy.  
604 S. Helena St.,  
Anaheim, California, 92805.

## PASADENA BRANCH

Meetings on Call, Homes of Members  
Col. C. M. Gale, Secy.  
2176 N. Roosevelt Ave., Altadena, Calif.

## PHILOBEGONIA BRANCH

2nd Friday, Members' Homes  
Mrs. Anne W. Stiles, Secy.  
R.D. No. 2, Box 43B, E. Delaware Trail,  
Medford, N. J.

## REDONDO AREA BRANCH

4th Friday each Month  
Lincoln School Recreation Center  
Ernest and Vail Sts., Redondo Beach, Calif.  
Opal Murray Ahern, Secy.  
1304 N. Poinsettia Ave., Manhattan Beach, Calif.

## RHODE ISLAND BRANCH

1st Saturday, Homes of Members  
Miss Ruth Harrington, Secy.  
372 Lloyd Ave., Providence, R.I.

**RIVERSIDE BRANCH**

2nd Wednesday, 7:30 p.m., Shamel Park  
3650 Arlington, Riverside, Calif.  
Mrs. Lillian Maddox, Secy.  
7172 Mt. Vernon St., Riverside, Calif.

**ROBINSON, ALFRED D. BRANCH**

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

**SACRAMENTO BRANCH**

3rd Tuesday, 8:00 p.m., Garden Center  
3300 McKinley Blvd., Sacramento, Calif.  
Elmer A. Thomas, Secy.  
913 Sonoma Way, Sacramento 22, Calif.

**SAN DIEGO BRANCH**

4th Monday, Barbour Hall  
2717 University Ave., San Diego  
Emma Engelbrecht, Secy.  
4562 Kensington Dr., San Diego 16, Calif.

**SAN FRANCISCO BRANCH**

1st Wednesday, 8:00 p.m.  
Garden Center, Golden Gate Park  
9th Ave. and Lincoln Way  
Lilian A. Beach, Secy.  
3006 Castro St., San Francisco 12, Calif.

**SAN GABRIEL VALLEY BRANCH**

2nd Friday, 8:00 p.m.  
Los Angeles State and County Arboretum  
501 N. Baldwin Ave., Arcadia, Calif.  
Mrs. William (Polly) Eilau, Secy.  
469 West Norman St., Arcadia, Calif.

**SAN MIGUEL BRANCH**

1st Wednesday, Youth Center, Lemon Grove, Calif.  
Mrs. Lucille Williams, Secy.  
1261 Concord St., El Cajon, Calif.

**SANTA BARBARA BRANCH**

2nd Thursday, 8:00 p.m.  
Santa Barbara Museum of Natural History  
2559 Puesta Del Sol  
Elnora Schmidt, Secy.  
3346 Calle Cita, Santa Barbara, Calif.

**SEATTLE BRANCH**

3rd Tuesday, 7:45 p.m.  
Loyal Heights Field House,  
21st Ave., N. W. and N. W. 77th St.  
Mrs. Janice W. Barnette, Secy.  
2735 N. E. 53rd St., Seattle, Wash., 98105.

**SHEPHERD, THEODOSIA BURR BRANCH**

1st Tuesday, 7:30 p.m.  
Alice Barlett, C.H., 902 E. Main, Ventura, Calif.  
Mrs. Clermont Morris, Secy.  
538 Jones St., Ventura, Calif.

**SMOKY VALLEY BRANCH**

3rd Thursday of each Month  
Mrs. Arthur Houlberg, Secy.  
833 Sheridan St.  
Salina, Kansas, 67401.

**SOUTHERN ALAMEDA COUNTY BRANCH**

3rd Thursday, 8:00 p.m.  
Lorenzo Manor School  
18250 Bengal Ave., Hayward, Calif.  
Jack Dunaway, Secy.  
1650 Plaza Dr., San Leandro, Calif.

**TALL CORN STATE BRANCH**

Mrs. Edna Monson, Secy.  
South Taylor, Mason City, Iowa

**TARRANT COUNTY BRANCH**

2nd Monday, 10:00 a.m.  
Members' Homes  
Mrs. F. E. Mahler, Secy.  
1815 Sixth Ave., Fort Worth, Texas

**TEXAS STATE BRANCH**

1st Tuesday Night in Members' Homes  
E. Weaver.  
1325 Thomas Blvd., Port Arthur, Texas

**TEXASTAR BRANCH**

3rd Thursday, 10 a.m., Garden Center  
1500 Herman Dr., Houston, Texas  
Mrs. J. L. Linkenhogger, Secy.  
11310 Hollden Way,  
Houston, Texas, 77024

**WESTCHESTER BRANCH**

1st Thursday, 7:30 p.m., Westchester Women's Club  
8020 Alverston St., Los Angeles, Calif.  
Mrs. Walter W. Pense, Jr., Secy.  
8101 Vicksburg Ave., Los Angeles 45, Calif.

**WESTERN PENNSYLVANIA BRANCH**

2nd Wednesday, 11:00 a.m., Homes of Members  
Mrs. Alex Nagy, Secy.  
R. D. #1, Box 3059, Altermoor Dr.  
Natrona Heights, Pa.

**WHITTIER BRANCH**

1st Thursday, 7:30 p.m.  
Palm Park Community Center, 1643 Floral Drive  
Mrs. Evelyn Shute, Cor. Secy.  
15344 E. Leffingwell Rd., Whittier, Calif.

**WILLIAM PENN BRANCH**

3rd Tuesday, 2:00 p.m., Homes of Members  
Mrs. Ernest C. Drew, Secy.  
635 Moreno Rd., Narberth, Pa.



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