## SOUTHERN CALIFORNIA



## CAMELLIA SOCIETY

A Non-Profit Corporation

Volume VII, Number 3

OFFICIAL BULLETIN

September, 1946

#### THE STAGGERED LATH ROOF

The March 1946 issue of this Bulletin carried an article analyzing several designs lath roof, from the standpoint of the amount of sun to which they gave entrance and the amount of shade they produced. Type No. 1 was the old design in which all the roof laths were laid in one plane. Type No. 2 introduced ½-inch of vertical entration between alternate laths by nailing them alternately above and below a strip of ½-inch wood. In Type No. 3, vertical separation between the two planes increased to one inch, while in Type No. 4, a vertical separation of one and twe-eighths inches was introduced.

A copy of that Bulletin was sent to Dr. Gustav A. L. Melquist, formerly Assistant Professor of Floriculture at University of California and now Horticulturist at the Missouri Botanical Garden in St. Louis. Since he had introduced the staggered ppe of lath roof in this area, Dr. Melquist was asked to comment on the article; sind enough to do so and to offer an important suggestion, under date of March 1946.

Dr. Melquist wrote: "Thank you very much for the March number of the Sulletin of the Southern California Camellia Society. Your diagrams of the stagged lath roof are very interesting and instructive.

"I think your statement concerning my having recommended putting the laths structed above and below a 1x4-inch drip is incorrect. When I first started to mak about this type of lath house and discuss it with my friends, I did so in so for a 1x4 because using a member of this size would materially strengthen lath house. However, when I made up diagrams just as you have in your sticle I realized that the most useful distance of the layers of laths would be proximately the same as the width of laths used. I therefore wished to build it in a strip 1½ inches between the two laths, but being unable to buy anything 1/8 lumber at the moment (this was during the war) we built the lath house my what we could get. I think your diagram definitely shows the desirability this type of construction.

"My own reason for becoming interested in this type of design which was not but I did not know it at the time, was that I had learned through experience at most shade-loving plants apparently do better if exposed to considerably more shlight during the early morning hours than they will get during those hours in a the house of standard construction. On the other hand, I have no evidence indiating hours, but since the design, as shown in your diagrams, allows for the same bount of sun in the afternoon as in the morning that becomes a practical consequence.

"At present I am so busy trying to get my materials in order so that I can mend the scientific meetings to be held here the latter part of this week that I have not had an opportunity to check your diagrams too carefully and indicate if any provements could be made. However, it strikes me that while you are at it might see what happens when you shift the upper layer slightly toward the set, for I am sure it will be desirable for experimental purposes to ascertain the plants would not do better when they are exposed to more sunlight ming the early morning hours and mid-morning than at the corresponding hours mid-afternoon. Whether such a design is feasible or not I could not say until have seen the diagrams.

## Southern California Camellia Society

Roster of Officers

President:

DR. LLOYD J. TAYLOR 810 Highland Drive, Flintridge SYlvan 0-2088

Vice-President: DR. J. WALTER REEVES 893 South Gainsborough Drive, Pasadena RYan 1-6242

Secretary: C. ELMER PEAK STate 4-0426

Treasurer: JAMES C. WRIGHT 1971 Sherwood Road, San Marino ATlantic 2-4069

Directors:

MRS. CARLO GALLI—SYcamore 9-2108
South Pasadena
J. HOWARD ASPER—SYlvan 0-1998 La Canada MRS. J. W. MILLER, JR.—Citrus 1-1819 Glendale MRS. WILLIAM VINEY—Covina 161-02

Covina DR. WESTON W. SHAY—REpublic 4581

Los Angeles WM. F. HUFF—Glendale, CITRUS 2-2286 Official Bulletin:

Editor, DR. DAVID W. McLEAN ATwater 7-2703 Business Manager, ROY M. BAUER ATlantic 1-2183

Honorary Members William Hertrick, Huntington Botanical Gardens, San Marino, Calif. Dr. H. Harold Hume, University of Florida

"One thing you failed to point out in your article is that this design requitant the laths be run essentially north and south. Of course everyone who st to think for a moment will not build a lath house with the laths running in oher direction, but I know of at least two people who after looking at our house U.C.L.A. went home and built theirs with the laths running east and west. results were anything but good."

First of all, our thanks to Dr. Melquist for the courtesy of his reply; for correction of our misstatement tying his original suggestion to a vertical separat of 7/8 inch between the layers of lath. We knew from reliable authority to Dr. Melquist had built a house at U.C.L.A. with that vertical separation; had seen the house nor talked with Dr. Melquist about it, therefore did not know to the 7/8 separation was a wartime necessity used on the principle that half a limb that there have a procession of the principle of the second of the principle that half a limb that there have a procession of the principle of the second of the principle of the is better than none. We are also grateful to the Doctor for emphasizing the necessity for running

lath roof north and south, to avoid continuous bands of sun and shade instead alternate bands of sun and shade which travel across the lath house through the day. In a house with east-and-west lath roof, some leaves would be in sunli continuously all day, others in continuous shade. In a house with north-and-so lath in its roof, alternate bands of sun and shade pass over all the leaves through the day as the sun moves from east to west.

Now for Dr. Melquist's suggestion, which in this writer's estimation offers outstanding improvement in lath roof design. Taking a shot in the dark, we madiagram similar to those in the previous article, moving the top row of la 3/8 inch to the west. This, you will readily see, gives the same amount of sunshade beneath the vertical rays of the noon sun, the only difference being to one band of light (that on the west) will be 3/8 inch narrower and that on the west) will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and that on the west will be 3/8 inch narrower and the same are well as the same are

3/8 inch wider; the total of each two bands of sun will be the same as before.

The amount of morning sun is definitely increased, since the diagonal rays gacess to the house through the increased space created by moving the top I westward. By the same token, the burning sun of the afternoon is reduced narrowing the space through which it must enter.

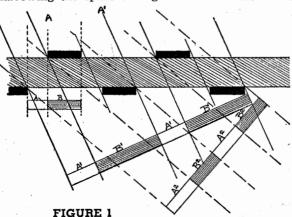
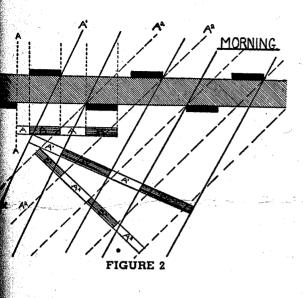
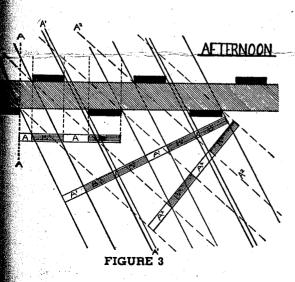


Figure 1 was "Figure in the article in the Ma issue; it shows the symn rical arrangement of top: bottom laths, the rows h ing a one and five-eight inch vertical separation.

Figures 2 and 3 show asymmetrical designs gested by Dr. Melquist, h an eccentric arra ment of the top laths whare placed 3/8 inch wes centre. In viewing figure and 3 you are facing no viewing the south end the house; therefore the rises at the right. broken diagonal lines Figure 2 (A2) represent





low slanting sun rays of early morning; the solid diagonal lines  $(A^1)$  the higher rays of mid-morning. The dotted lines (A) show the vertical sun at noon. In Figure 3, the solid lines  $(A^1)$  again represent the sun rays in mid-afternoon and the broken lines  $(A^2)$ , the lower rays of late afternoon.

At the top of the draw-

ings is the cross section of the lath layers and the separating strip 1% inches thick. The alternate bands of sun and shadow are labeled similarly to the sun's rays which produce them (A, A<sup>1</sup>, and A<sup>2</sup>). These areas of sun and shade were measured in units of 1/16 inch on the original drawing (here greatly reduced in size), and the percentage of light and shadow computed. In listing the percentages, and in the graphic chart of them shown in Figure 4, we have arbitrarily clocked the low diagonal rays as of 8:00 A.M., the higher diagonal rays as of 10:00 A.M., the high rays of early afternoon as of 2:00 P.M. and the lower rays as of 10:00 A.M., the 4:00 P.M. This timing is purely arbitrary and the rays of these angulations might not fall at the stated hours of any single day in the year.

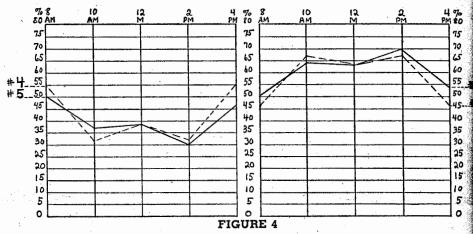
the low morning rays enter the lath house to the tune of 54.8%, whereas in the asymmetrical Type 5, they are reduced to 50%. From that point on, the percentage of sun in Type 5 progressively increases over the amount admitted by Type 4 until 10:00 A.M. it has risen to 37.2% as against 331/3 % in Type 4. At 2:00 P.M. the symmetrical Type 4 roof admits 331/3 % sun as it did at 10:00 A.M.; in the asymmetrical Type 5, however, sun rays at 2:00 P.M. have been reduced to 30.2%. At 4:00 P.M. the new Type 5 admits 46.6% light as against 54.8% in the symmetrical Type 4 house. These percentages are

graphed in Figure 4.

In the symmetrical Type 4,



## SHADE.



Please bear in mind that Dr. Melquist suggested this asymmetrical lath roof an experiment to be worked out on paper. It does not carry his recommend tion. He may not approve of it at all. Nevertheless, it seems sufficiently interest to pass on to you. When Dr. Melquist's comments have been received we will pathem on to you—and let's hope this writer's face will not be too red! We woulke to have gotten Dr. Melquist's reactions to this analysis before publishing however, we leave for the East September 30, to be gone throughout October. Bulletin is due in the mail about the middle of October; there was no lead article for it; swamped by other matters, the scribe is barely getting the mater to the printer in time to correct the galley proofs before leaving town. Time wof the essence.

#### THE BOARD OF DIRECTORS

The new Board of Directors met at the home of the President on September A Committee was authorized to investigate the matter of carrying advertise in the Bulletin. Committee: The Editor and Business Manager of the Bulletin, a Thor Petersen.

A Committee was authorized to investigate the possibility of putting on camellia show during the coming season. Committee: Howard Asper, William Huff, Robert Casamajor, Dr. McLean and Dr. Reeves.

It was voted that dues will remain unchanged. Admission to the meeting during the coming season will be by membership cards and guest cards. For guest cards during the year will be made available to members. The number guests who can be accommodated at a given meeting will be determined on a basis of past attendance; applications for guest cards for each meeting will be fill in the order of their receipt. The February meeting will be closed to guests; to necessity for this provision becomes apparent when you consider that the OFellows Temple seats 250 persons and our membership is now close to 500. Februartendance always tops the year; remember last year?

Membership applications received since last May have been delayed by incorporation of the Society. Such applications will be dated as of October 1 will cover the year 1947 in addition to the remainder of 1946.

#### THOSE ELECTED TO MEMBERSHIP WERE:

FLETCHER PEARSON CROWN
358 So. McDonough St., Decatur, Georgia
MR. AND MRS. WALTER KAELIN
716 W. Brockway St., El Monte, Calif.
MRS. PAUL EDWARD SCHNEIDER
11121 Valley Spring Lane, No. Hollywood, Calif.
MR. AND MRS. RICHARD A. GRANT
944 Wilshire Blvd., Los Angeles 14, Calif.

FLOYD R. BOULIER 6200 Merriwood Dr., Oakland 11, Calif. DR. ROYAL GICK
1038 Willamette St., Eugene, Ore.
J. P. ILLGES
P.O. Box No. 103, Columbus, Georgia
MRS. EVELYN GATHERCOLE
1512 Bentel St., Rosemead, Calif
WALTER G. HAZELWOOD, ESQ.
Effing, New South Wales, Australia

C. W. HERRICK 2516 Hermosa, Montrose, Calif. Test Garden Committee Reports that the Camellia crop is being harvested at the untington Gardens and Mr. Hertrich has again offered to distribute seeds to memers of the Camellia Society who have contributed plants to the Test Garden, or tyone who would like to do so now.

Last year over 6000 seeds were gathered. We do not know how many there ill be this year, and cannot apportion them until we know how many want them. In best results, they should be sown as soon after gathering as possible. So, please mmunicate by telephone or postal with Mrs. Galli (SYcamore 9-2108), 314 Arroyo iive, South Pasadena, if you have some plants to donate.

There are now about 309 varieties of Camellias in the Test Gardens, in most sees only one plant of a kind. The area set aside for the Camellias is large and e want several plants of the best varieties. There were about 60 varieties in the arden before the Test Garden was established. About 110 scions donated by memors of the S.C.C.S. were grafted, and most of them have grown well. Seventy-five lants were donated, 73 plants were bought, part with money generously allocated Mr. Hertrick for the purchase of Camellias, from funds at his disposal; the others are paid for by money raised at the plant raffles held at each meeting of the ciety. Nine members contributed scions, 17 members contributed plants.

The following list is only a small part of the varieties wanted. Do not hesitate offer something that does not appear here; we have purposely left off the newest most expensive ones.

iundance
ba Plena
indidissima
zabeth Boardman
ibriata
izzle White
ku-Rakuten
Cygno
aningham Smith
ura
Sawada

dy of the Lake
press Nobilissima
phosa
ward's White
blandia
tty McCaskill
butante
gnoliaeflora

ome antea llot Variegated Sweeti Vera Pink Ball Mrs. K. Sawada Queen Bessie

Queen Victoria's Blush Adah Pearl Barbara Lodge

Crepe Rosette
Cap. John Sutter
Christine Lee
Cameo Pink
Pink Star

Gr. Rosea (Empress) Lois Hill Kumasaka Marchioness of Exeter

Martha Brice Mme, Hahn Mme, Haas Pink Dawn Rosalinda Rosea Superha

Rosea Superba Governor Mouton Tricolor Dieboldi Salmon Queen Blood of China California

C. M. Hovey (Col. Fiery)

Crimson Sunset Daikagura Elena Nobile Flame

Lady Van Sittart
Lady Mary Cromartie
Mathatiana Rubra
Mathatiana Alba
Pope Pius
Ta Deum

Pope Pius Te Deum Aurora Borealis Brooklynia Monjisu

Monjisu
Duchesse de Cases
Duchesse of Sutherland
Elizabeth Arden
Eleanor Franchetti
Laurel Leaf
Variabilis

The Chairman of the Horticultural Research Committee, Robert Casamajor, ported to the Board that he and Mr. Tourje, member of the same committee, had at day attended a meeting of the Governor's Agricultural Research Committee in verside. This committee has been touring the State collecting information regard-research needed in the various fields of horticulture in California. The Hortitural Research Committee made a plea for research in Camellias and submitted following letter.

"Sept. 19, 1946.

to the Governor's Agricultural Research Committee.

### **n**tlemen:

"The Southern California Camellia Society, through its Horticultural Research mmittee, wishes to present the need for competent research with trained permel, on the subject of virus diseases of the Camellia and their effect on flower ality, general health and the danger of infection and spread through the grafting occess.

"Owing to the fact that many of the most costly plants marketed by the Camel industry are large grafted specimens, and that this type is being sold in increasi numbers, as against the rooted cutting type, we suggest the advisability of co ducting such a research program.

"While it is our opinion, based on check surveys, that the total capital inve ment in Camellia growing is substantial, and that the gross annual income fro cut flowers and plants is of major importance to the nursery trade, we believe the the magnitude of the intrinsic values involved is of minor importance as companyith the need for a more thorough knowledge of the nature of these virus disease which can only be gained through planned research.

"We therefore respectfully present our request that it be undertaken.

Yours very truly, "HORTICULTURAL RESEARCH COMMITTEE," Southern California Camellia Society. By Robert Casamajor, Chairman,

385 East Green Street, Pasadena 1, California.'

#### HERE AND THERE

R. J. Wilmot, Secretary of the American Camellia Society, writes that the Louisiana Society will soon be represented by almost 100% individual membership in the A.C.S.; nearly 100 have come in during the last six weeks. Membership the A.C.S. has now reached 1340, with \$10,660.00 in the treasury. The good which can be accomplished in the field of camellia culture and scientific research by organization of such size and means, is beyond computation. Are you a member The Editor hopes to spend a day with Professor Wilmot in Florida early October, visiting the Gerbing Nursery, the Glenn St. Mary Nursery, and the Gain wille camelia test garden of the University of Florida.

Professor Victor S. Stoutemyer is the recently appointed Professor of Orname tal Horticulture at the University of California in Westwood. It is whispered the Professor Stoutemyer is quite partial to camellias.

#### QUESTIONS AND ANSWERS

"What do you mean by 'plant hormones'?" asks one of our readers, referrito the article on planting camellias in the August issue. In human physiology hormone is a substance secreted by a ductless gland which exerts an influence some other gland or function of the human body. Plants, too, secrete substance not too well understood up to the present time, which influence the functions a particularly the development of plants. The term 'hormone' was first applied plants by H. Fitting in 1910.

"F. A. F. C. Went and his son, F. W. Went, have proved that a root-form material, which they call "rhyzocaline," is formed by the leaves; for defoliat green wood cuttings fail to form roots. In 1934, Thiemanns and Went reported the chemical nature of this hormone.

"Bouillene and Went found a root-forming substance in cotyledons, eviden stored in the seed. Their work indicates that photo-synthetic action on the lead is necessary to produce it. This is also apparent from the fact that leafy cutting root more freely than do those stripped of leaves." (Propagation of Plants, Kaland McQuestin.)

One such hormone is marketed under the name of Hormodin. However, to less scientific and more specific, the plant hormone so loosely referred to is Vitamin

> ₩ \$\$

"In your editorial on planting," comments another reader, "you speak of uneven mixture of a good soil formula concentrating an excessive quantity of consistuent in a can or pot in which a camellia is planted. How can one avoid t and get good distribution of the constituents of a soil mix?"

Let us suppose the soil mixture is to consist of 1/3 soil, 1/3 leaf mold and peat moss. First, the peat moss should be moist. Open the bale, break up lumps, and then wet down the pile thoroughly, allowing it to stand long enough the moisture to penetrate and "equalize" throughout the mass.

When making the mix, spread 2 shovelfuls of soil on a clean area of ground; this spread 2 shovels of leaf mold, then 2 shovels of peat moss, and repeat til the pile is large enough for the purpose at hand. Starting at the base of one of the pile, shovel the pile to a new location nearby, spreading each shovelful before.

If the ingredients of the mix are not sufficiently damp, a helper should stand for the next operation, with a hose having a fine spray nozzle. The pile is now weled back to the first location, spreading each shovelful as it is deposited. As a shovelful is spread, the helper sprays it lightly with the hose; when each is moistened sufficiently, the hose is directed away until the next shovelful deposited. When the entire pile has now been spread back shovelful by shovelful to the first location, it is allowed to stand for 2 or 3 days, so that the moisture equalize throughout the entire pile.

☆ ☆ ☆

Mrs. E. H. McC., of Buena Park, writes: "Will you kindly advise me if the thern California Camellia Society has a pamphlet telling which camellias can do more sun and which require more shade?"

The first book of camellia varieties published by the Society contained infortion as to which plants can stand little sun, medium sun or more sun. After discussion, the committee decided to omit such information from the book dished last year, for the reason that the amount of sun which a plant can stand depend largely upon environmental conditions, such as the heat in the general a (whether coastal, inland, etc.); on the amount of humidity in the area, the sunt of reflection from light surfaces nearby; the portion of the day in which sun reaches the plant, whether in morning, at noon or in the afternoon; also, but not least important, the condition of the soil and the coolness and moisture the plant's roots. In view of all these qualifying conditions, it is risky to state a plant can or cannot stand sun.

**P.S.** Have **you** a question? If so, send it along. We will submit it to our private of experts and answer at the earliest opportunity.

\* \* \*

### MORE FAVORITE VARIETIES FROM EXPERTS

HERBERT SWIM, Ontario, California

Here is my list in the order of my personal preference:

Glen No. 40

Eleanor Hagood Pope Pius IX

Margarete Hertrich

Debutante

Mrs. Chas. Cobb

General George Patton

Pax

C. M. Hovey (Col. Firey)

Fimbriata Superba

- 11. Reticulata
- 12. Marchionesse of Exeter
- 13. Prof. Chas. Sargent
- 14. Te Deum
- 15. Gloriosa
- 16. Alba Plena
- 17. Purity
- 18. Gigantea
- 19. Francine
- 20. Fimbriata

#### A. P. CARLTON, San Diego, California

Pax

Eugene Lizzy

Donklaeri

Chandleri Elegans

**D**aikagura

6. High Hat

7. Flame

8. Matosi

9. Magnoliaeflora

10. Il Tramonto

# Bulletin CAMELLIA

Pasadena, California 175 M. Los Robles Ave. Camellia Society Southern California

### PAUL L. SCOTT, Arcadia, California

Many good camellia varieties are not tried enough as yet to realize their i vidual worth. Other highly advertised varieties will lose value when plent Because camellias are primarily corsage flowers my list contains mostly cor material.

To me a good camellia variety should:

- Grow on a reasonably thrifty plant.
   Be at least fairly floriferous.

3. Open well.

The early blooming varieties are most desirable for cut flowers. To rate color camellia against another for highest choice isn't quite fair, but my favori Alba Plena. I had considerable difficulty stopping at five varieties in each considerable difficulty stopping at five varieties and considerable difficulty stopping at five varieties and considerable difficulty stopping at five varieties at the considerable difficulty stopping at five varieties at the considerable difficulty stopping at five varieties at the considerable difficulty stopping at the considerable difficulty stopping at the considerable difficulty stopping a class, and must perforce leave out many excellent ones such as Chandleri Eleg Otome Pink, Prof. Chas. S. Sargent, Blood of China, etc.

- Pope Pius IX
   C. M. Hovey-Colonel Firey
   Te Deum
   Mathotiana

- 5. Ella Drayton-Climax

#### $\mathbf{WHITE}$

- Alba Plena
- 2. Purity
- 3. Pax-Úki Duruma
- Candidessima
- 5. Howard's White

#### PINK

- Debutante
- Francine
- 3. Pink Perfection
- Wilder's Rose-John Laing
- Il Tramonto-Laureleaf

#### VARIEGATED

- Dai Kagura
- 2. Herme-Jordan's Pride
- 3. Catherine Cathcart
- Otome Variegata Emperor Wilhelm