

The *Camellia* Journal



'Noonie Carroll'—*Camellia japonica*

ACS Reg. No. 2099

Nature creates beautiful imbricated petals in 5 swirl design. Rosy pink lined lighter pink, sixty formal double petals, medium size, mid-season, long lasting abundant bloomer. Chance seedling of Feroi and Sam Zerkowsky. Available Tatunia Nursery, November 1988.

AN OFFICIAL PUBLICATION OF THE AMERICAN CAMELLIA SOCIETY
VOL. 43, NO. 4 **PRICE \$2.00** **NOVEMBER 1988**



ANNABELLE FETTERMAN

President's Message

'Mona Jury Var.' was the STAR of the Gulf Coast Meeting on August 5th in Mobile. She amazed everyone with her crisp yet delicate loveliness in early August. She measured 6" while her ungibbed sister measured 4". The smaller one was a full anemone form with slightly richer color and was very appealing. Something about her said, "Hey, look me over." Seeing the two together caused a lot of conversation. Everyone got excited

discussing our likes and preferences for each of them, and we were reminded of the coming camellia season.

These unusual blooms were grown by Dr. Claude L. Buerger, Jr. of Mobile, who is relatively new to camellias. He has two greenhouses 20' x 100' with many camellias showing color and buds opening in early August. He has blooms 12 months a year. I've noticed that many blooms are floppy in hot weather. His had good color and form. Here is a grower to watch!

A great time was in store for those attending the Buck Mizzell's Santee Camellia Fest at their summer home on Lake Marion August 13th. The Atlantic Coast Camellia Society meeting on October 1st draws camellia buddies together from the southeast, the south and even the far west. A warm welcome is extended to everyone who attends delightful get-togethers.

Summer get-togethers like the above are more relaxing for us. The host club is not scurrying around setting up for a show and exhibitors are not busy cutting and preparing blooms for a show. It's a fun time for all with culture and research programs added for good measure.

All of us have been thinking about and getting ready to attend fall shows. Using gib assures that we will have more blooms for the early shows. Early blooms are special—maybe because we haven't seen any during the long lazy days of summer. Maybe you are one who has forgotten about exhibiting and/or attending a camellia show.

You may be missing some wonderful camellia friends you have not met be-

cause you failed to attend a show. First, we have our families to love and to cherish. Then we have circles of friends where we live, where we work, and at church who are special to us. Then we have camellia friends—another caring, loving group who are very close to us. Take Donna and Bill Shepherd of North Charleston—they never seem to tire of giving of themselves to benefit others. They make those beautiful paper flowers everyone admires. They put on seminars showing how to make their flowers. They give away untold numbers of their flowers to clubs for fund raisers. The proceeds of their sales are donated to the ACS. As board members of many different societies, they do more than is expected. Reports are turned in before the due date. As historians, they take snapshots and have made large scrapbooks about the Atlantic Coast Camellia Society. They unselfishly share their garden and expertise on growing camellias with anyone interested. These two special people celebrated their 50th Wedding Anniversary last year. Bill says Donna has lots of grandchildren and 4 great-grandchildren, but he doesn't have any—he is too young. Let's remember to say "Thank you, Lord, for wonderful camellia friends."

The new Educational Museum at Massee Lane is coming along so very well. It is beautiful and so practical. A visit to the headquarters of ACS on completion of the building will make you proud to be a member of the American Camellia Society.

With best wishes for beautiful camellias all season.



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The *Camellia* Journal

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Volume 43

Number 4

November, 1988

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Field Resistance in Camellias to *Glomerella cingulata*

LUTHER W. BAXTER, JR.

Plant Pathology and Physiology Department
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Many camellia cultivars are susceptible to the disease dieback and canker, caused by the fungal pathogen *Glomerella cingulata*. This pathogen is a typical anthracnose-type fungus that produces conidia (spores or seed of the fungus) that are spread by splashing water. Normal rainfall, especially accompanied by wind, and overhead irrigation, such as rainbirds, are typical means by which conidia are spread. The fungus is typically a wood pathogen (twigs and stems of camellias) but under certain environmental conditions it affects young expanding camellia leaves. The camellia strain of *G. cingulata* normally is a wound parasite. Its mode of entry is through newly formed leaf scars. Apparently healing of leaf-scar regions is completed within about 24 hours after leaf fall, depending somewhat on weather conditions, such as temperature and moisture. Temperatures lower than 59°F and high moisture conditions may prevent rapid healing of leaf scars.

Most *Camellia sasanqua* cultivars and seedlings are susceptible to infection by the dieback and canker fungus. A few *C. sasanqua* cultivars, such as 'Cleopatra' and 'Rosea' and a few seedlings, are very susceptible to infection by *G. cingulata*. However, occasionally a *C. sasanqua* cultivar or seedling that grows alongside very susceptible *C. sasanqua* cultivars or seedlings remain free of dieback and canker.

One such cultivar is 'Dawn'. Ackerman (personal communication) suggests that 'Dawn', with 45 chromosomes, is really a hybrid between *C. sasanqua* and *C. japonica* and that the resultant plants hybridized with another *C. japonica*. At any rate, plants of 'Dawn' have the general appearance of *C. sasanqua*, but the flowering habit (time of year) more closely approaches that of *C. japonica* plants rather than that of most *C. sasanqua* plants.

The only two 12- to 15-year-old 'Dawn' plants in my camellia collection are free of cankers although they are growing alongside two *C. sasanqua* seedling plants that are severely cankered. A *C. sasanqua* seedling in my collection is also free of cankers even though its branches are interspersed with branches of two other *C. sasanqua* seedlings that have many cankers and much dieback.

Plants of the *C. japonica* cultivars, 'Debutante' and 'White Empress', are growing among severely cankered *C. sasanqua* cultivars or seedlings and they, too, are free of dieback and cankers.

There are many other examples of plants, particularly those of *C. japonica* cultivars, free of cankers and dieback that are growing alongside severely cankered *C. sasanqua* plants.

However, when plants of 'Dawn' are wound-inoculated with *G. cingulata* they are susceptible to infection. Pencil-sized branches die within a few months after wound-inoculation. Pencil-sized branches of 'Debutante', 'White Empress', and other canker-free *C. japonica* plants that are wound-inoculated with *G. cingulata* form cankers or develop the dieback phase (death of stem portion distal to canker).

Apparently plants of 'Dawn', 'White Empress', 'Debutante', and others have morphological resistance, such as quick healing of leaf scars while very susceptible *C. sasanqua* cultivars, such as 'Cleopatra' and 'Rosea', and seedlings lack this characteristic. Since all plants mentioned are susceptible to wound inoculation with *G. cingulata*, they are protoplasmically susceptible.

On the basis of the above, 'Dawn', a *C. sasanqua* seedling, 'White Empress', and 'Debutante' (two *C. japonica* cultivars) have field resistance. That is, under normal outside growing conditions these plants do not become infected by spores of *G. cingulata*, but if wound inoculated

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they are susceptible to this fungus.

It must be realized that these plants are growing under conditions at Clemson, South Carolina and that these same plants may or may not be affected similarly when exposed to the dieback and canker fungus in plant nurseries or in private gardens (including homes) in areas with different environmental situations. For example, the rainfall amount and distribution pattern, length of growing season, etc. may differ considerably at places, such as Charleston, SC, Mobile, AL, and New Orleans, LA, compared to environmental conditions at Clemson.

An additional factor needs to be mentioned. Stems of plants of these field-resistant cultivars have suffered from frost or freeze injury, hail injury, and other injuries through the years without developing dieback and canker. Several *C. sasanqua* plants have become severely diseased during these conditions. Therefore, this factor most likely must be considered as part of field resistance in camellias.

During grafting operations it should be realized that scions of these cultivars

should be given the same care as that provided camellia cultivars that are highly susceptible to *G. cingulata* because scions and stock are severely injured during grafting. This practice (grafting) may expose scions and stock to wound-inoculation by spores of *G. cingu-*

lata and result in death of scions, or scions and stock.

ACKNOWLEDGMENT

Appreciation is expressed to Dr. O. J. Dickerson for critiquing the manuscript.

About Our Front Cover Camellia

'Noonie Carroll'

SAM ZERKOWSKY

This camellia is named for the wife of Harry R. Carroll. After 42 years of marriage, 4 children and 5 grandchildren, Harry wants to honor the many years of faithful marriage that has been shared. Noonie is a nickname she obtained as a little girl from her family and is the term of endearment in the love letters exchanged during World War II. Her full name is Margaret H. Carroll and she especially loves the camellia as well as all flowers that grow in profusion around

their home in Slidell, the Camellia City. They became involved with the camellias by being close to Tammia Nursery, which is the largest of its kind in the United States. The pure, pink and unusual petals are a symbol of the unique style of Noonie's personality and her affection for her neighbors, friends and community. She has accepted the name of Carroll which her famous Irish/American ancestors immortalized in the forming of the Declaration of Independence and the Constitution of the United States. Participating in the many camellia shows here in the South, photographing, displaying, and talking to the many other lovers of this beautiful and prolifically varied blossom is their consuming passion.

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My First 'Captain Rawes'

BILL DONNAN

In the course of my volunteer work at the Huntington Gardens I have seen and observed the three specimens of the *C. reticulata* 'Captain Rawes' which are growing in the North Vista of the grounds. They are all nice plants and several of them are over 18 to 20 feet tall. But they are nothing compared to the first 'Captain Rawes' I ever saw and that event took place in England. Mrs. Donnan and I have been to Europe many times in connection with my overseas consulting assignments. Each time we would fly to Europe we would stop off in London for a few days and take one or two day trips out of London to see the cathedrals, castles and countryside of England, Scotland and Wales. In fact—England has become our favorite country—next to the good old USA. I subscribe to the quotation attributed to Cecil Rhodes when he was in South Africa. He said: "In the lottery of Life, if you have been born an Englishman, you have already won first prize!" I will go Mr. Rhodes one better and say: "To have been born in the United States of America, and in California, you have won first prize with two Oakleaf Clusters!"

Well, I have strayed from my subject! The biggest and grandest 'Captain Rawes' camellia plants I ever saw were located at Chatsworth Manor House, the ancestral home of the Dukes of Devonshire. We happened to be in London on one of my trips to Hungary in the early 1960s and decided to take a day trip to see Chatsworth House. We spent most of the day wandering around the huge manor house and then I took a peek into one of the glass houses which had been built up against a 25 foot high stone wall. This glass house was about 30 feet long and about 10 feet wide with doors on either end. Inside, there were three camellias growing in the ground. In the center, in sort of an alcove, was a large specimen of 'Alba Plena'. On either side, trained against the wall, was a *C. reticulata* 'Captain Rawes'. These two *reticulata* plants were at least 25 feet high and they had trunks which were an estimated 8 inches in diameter. I was as-

tounded and, as you might guess, overcome with curiosity.

I had read all of those fantastic stories about 'Captain Rawes'. It was one of the first of the *C. reticulata* species to be brought from China to Europe in 1820. It was so unusual and sought after that the specimen planted in the Berkeley Botanical Gardens at the University of California had to be guarded by a chain link fence. They had sold scions from this plant for \$50 per scion. Hybridizers had attempted, for a hundred years, to cross this *reticulata* with other species of camellia, with no luck. Yes, I was very curious about those two huge 'Captain Rawes' plants at Chatsworth. I wanted to know who planted them. I wanted to know when they were planted; how old they were; and about a hundred other questions.

My questions were not answered until I was able to obtain two fine books on the Dukes of Devonshire and the Manor house known as Chatsworth. They are as follows:

- (1) THE HOUSE—Living at Chatsworth, by Deborah, 11th Duchess of Devonshire. Published in 1982.
- (2) THE SERPENT AND THE STAG—The saga of England's Powerful and Glamorous Cavendish Family—The Dukes of Devonshire, by John Pearson. Published in 1984.

These two books have the information which answers my questions and I would like to share this knowledge with you. First—a little history about the Devonshires. Sir William Cavendish (1505-1554) was the Treasurer of The Chamber for King Henry VIII. As a result, he became rich due to the dissolution of the Church and monastery lands and he married a rich widow—Bess Hardwick. They built the first Chatsworth Manor House and their son became the First Earl of Devonshire. In 1684 the Fourth Earl succeeded to the Earldom and in 1694 was made the First Duke of Devonshire. He completely rebuilt Chatsworth and he had inherited

three other manor houses together with much more land.

In 1811 the Sixth Duke of Devonshire ascended to the title. He inherited Lismore Castle in Ireland; the Manor Houses of Hardwick; Chiswick; Burlington; Eastbourne and Chatsworth, together with Devonshire House in London and 200,000 acres of land. At 21 years of age he was the wealthiest man in England. He spent much of his wealth over the years rebuilding Chatsworth and its gardens, and it was this Duke who built the glass houses and planted the 'Captain Rawes' camellias. How do I know this? It is all surmise—but the factors seem to point to him as the perpetrator. The Sixth Duke had a passionate interest in building and gardening. He tore down much of the then Chatsworth Manor House and rebuilt it, creating a library, a theater and a vast hallway which he filled with tons of marble statuary from Italy. In 1826 he hired a young, 23 year old, gardener named Joseph Paxton and gave him instructions to improve the gardens and surrounding parks. Even though the income from the vast estate was over 125,000 pounds a year much more than that was spent on buildings, fountains, glass houses, and conservatories. Water was diverted high up on the moors and down to "the World's highest fountain" which shot 268 feet into the air in front of the manor house. Paxton built "the World's largest glass house"—the famous Great Conservatory at Chatsworth to be high enough to house palm and banana trees and all kinds of citrus and tropical fruit trees. This building became the engineering marvel of Europe. Paxton was sent to the far corners of the world on expeditions of botanical discovery. No expense was spared! Thus why not obtain some of those exotic "chinese rose" camellia plants which had come into favor among the gentry in England? Why not buy one of those "double white" camellias ('Alba Plena') such as Lord Petre had in his glass house in Surrey? Why not see where we could obtain two of those extra exotic *C. reticulata* camellia plants called 'Captain Rawes' and build a separate little glass house just for these three camellia near the Manor House? Yes! I am telling you that that is exactly what Paxton would have done to please the Sixth Duke and it

was Paxton who did it!

Let us conjecture further that this camellia glass house was built in about 1840 and the camellias were planted at about that time. If so, they would have been about 125 years old when I saw them in the 1960s. If they are alive today, they would be about 150 years old. Thus—if you are still reading this, you will see that I have—by deduction—answered some of the questions raised in the forgoing. One further interesting note about Paxton. He became famous as the designer

and builder of the Crystal Palace of the Great Exhibition of 1851 in Hyde Park, London. For this work he was knighted and became Sir Joseph Paxton. One further note about the Dukes of Devonshire which has repercussions here in California. When the Eighth Duke of Devonshire died in 1908 there was over half a million pounds (\$1,425,000) of death duties—inheritor taxes to be paid to the British Government. In order to be able to pay for these taxes the Ninth Duke sold—out of the Chatsworth Library—

25 books printed by the famous printer William Caxton (1422-1491) together with one thousand, three hundred and forty seven volumes of plays which the Sixth Duke had purchased. These included the first four Shakespeare folios and thirty-nine Shakespeare Quartos. These items together with many other manuscripts of English literature were purchased by Mr. Henry E. Huntington and now reside in the Huntington Library here in San Marino.

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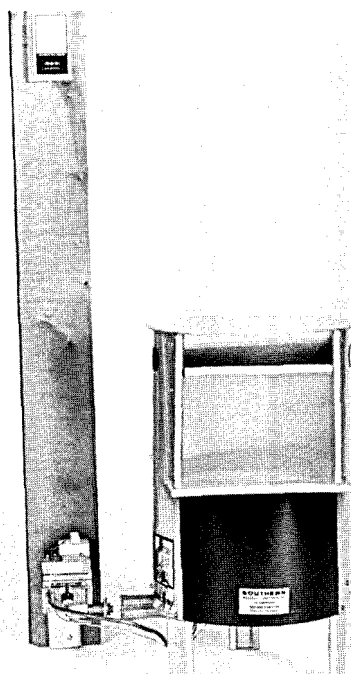
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HORTICULTURALLY SPEAKING

The Show Camellia—Its Preparation and Presentation

You do not have to be an ACS accredited judge to know a good looking camellia flower when you see it—but it helps. Being a judge, you mix with other judges at the shows and you soon learn what they look for both in assets and debits in judging the flowers, which cultivars seem to go to the honor court time after time and which varieties never seem to make it.

It is one thing to be a good horticulturist, have bushes with an abundance of blooms, but quite another to get that beauty to the show table uncompromised by the wear and tear that can so easily happen. Camellia flowers are delicate creations and more fragile than eggs. The “show stopper” flower may have involved a rather lengthy and complex procedure from the first selection of the flower to its placement at the show. This may involve looking over the garden situation weeks before the show and taking preliminary steps to protect and remove competition from selection blooms. For those who start harvesting well in advance, there is the storage and refrigeration involving special containers, the pros and cons of using Easter grass, orchid tubes, etc. Then there are the details of transporting the flowers from home to show without damaging them, etc. What types, colors, and size of blooms are best liked and the best keepers.

From Barbara Butler, Modesto, CA

Selection of Individual Flowers:

Start with only the best blooms. Mediocrity will not do. The successful exhibitors begin preparation for next year's entries the day after the last camellia show is over. Their effort is focused on pruning, fertilizing, watering, maintaining a protective habitat, constant disbudding, and tender loving care of each cultivar. They graft all the outstanding new introductions. They keep only outstanding camellias whose blooms are of show quality. Gibbing flowers is a must.

These outstanding sweepstakes exhibitors and professional camellia show entrants all have their individual formulae for trophy success. They have abundant refrigeration sources. They have the latest in plastic containers. They have the newest of floral preservatives. These exhibitors bring a large choice of perfect flowers from which to choose the best entry flower. They get up early the morning of a show. They carefully load the car and drive only in the fast lane. They avoid any sudden stops or sharp turns. They arrive at any given show just as the doors open. They are ready, eager, and well prepared for all eventualities. All equipment is double checked. Entry cards filled out and alphabetized at home. Nothing is left to chance. They expect to win and they do. These exhibitors are the best at what they do. The local, first-time exhibitor, with his blooms of ‘Purity’ and ‘Debutante’, becomes merely a table filler. Which is a sad commentary on our camellia shows when camellia societies are hoping to attract new membership.

Types, Color, Flower Size, Best Keepers:

These areas change yearly. All the large exhibitors seem to decide among themselves what is really going to be hot this year. Which current releases have enough bud-set to enable these exhibitors to compete against each other. Or, perhaps, that one has something big, red, and new that no one else has. This show competition is a hard fought game.

I, personally, like the whites for sheer beauty. The yellows and the fragrant flowers for their form, color, and scent. I enter trays of three and fives as works of art. These entries must be perfect. The flowers must be the same match in size, form, and color. These multiple entries demand perfection. There is no tolerance for imperfection. All flowers must match one another. No difference is allowed. These entries must be perfect. There is no allowance for a weak bloom.

The Best Keepers:

Freshly picked flowers, not cold stored left-overs. Camellia flowers that have the most substance to their petals. Single and formal flowers forms of medium to small size.

There is now a new product from Floral Life of the florist trade. It is called Mumtite. This product, when sprayed on the back of a flower, will keep the petals from falling. It is widely used on Chrysanthemums. It smells until dry. It must be used with care in an open area. But, this glue-like fixative keeps all the petals high standing. It aids in keeping the blooms in perfect condition when transporting flowers over long distances.

The new deep large square covered plastic boxes (the kind used in the restaurant trade to bus dishes) work great. Their cost is moderate. The boxes can be stacked one on top of each other in an empty refrigerator with its shelves removed.

The current choice of bedding material is foam plastic. These large sponge sheets can be cut to any size. When laid in the bottom of boxes it will absorb overflow moisture from plastic flower cups. Holes can be cut and spaced to receive the plastic flower cups. The spacing is dependent upon the size of the bloom to be placed in a given box. A liquid flower preservative is added to distilled water. This mix is chilled and ready to receive the chosen picked bloom.

Leaves are no longer attached to the bloom. Leaves tend to pull moisture from the flower. Leaves are groomed and placed in a separate plastic bag. The leaves are added to the bloom at placement time. The flower boxes are checked after arrival at a show. The best bloom from a group of the same cultivar is then selected. The flower is benched, in the middle of the table, second row from the top. It is here that the judge's eye will first see this flower. This flower will stand out above all others, as it is the focal point above the judge's bifocals. The judge will

remember this flower when making his final award selection.

Conclusion:

It takes a very devoted camellia grower to become a top show-flower exhibitor. It takes even more time, effort, and money to become a show winner. The top eager beaver workers are the sweep-stake entrants and the exhibitors of groups of nine and multiple flower entries. It is the competition among this elite exhibitor group that provides the major source of camellia flowers exhibited. These camellia enthusiasts are the backbone of any successful camellia show. They merit our congratulations.

**From Marvin Jernigan,
Warner Robins, GA**

A winning bloom in a camellia show is started months before it is placed in a show. To have winning blooms, one must severely prune the plant before new growth starts, along with fertilization. In late July or early August, the plant should be disbudded with no more than one bud

left on each terminal end of a branch. These buds should be hanging head down if possible to keep the bloom from holding moisture when it begins to open. Several days before the show the blooms should be inspected 2 or 3 times a day and, should be cut as near the peak as possible. Let the moisture dry off the bloom if it has high petals, placing cotton between the petals to keep them up. Then place them in an orchid tube containing a mixture of one tablespoon of bleach and one tablespoon of sugar to one quart of water. Next place them in a Tupperware container and store in the refrigerator, if it is several days before the show. These blooms are surrounded by cotton or orchid grass on plastic peanuts to keep them from becoming bruised or damaged. We transport them to the show in styrofoam boxes which we obtain from pet shops (used to transport live tropical fish). When we get to the show, blooms are inspected and each receives a fine misting of water and is then placed in show containers. For seedlings we go one step further. Before placing a seedling bloom in its container, we take a

small paint brush and paint the foliage and stem with a mixture of one tablespoon of 2-4-D and ½ gallon of water. This is a precaution, since many times we carry the blooms home after the show and graft them.

**From Lois Boudreaux,
Port Neches, TX**

Since we do not have facilities for storing blooms, our entries in camellia shows are generally not cut until the day before or the day of the show, depending upon the distance of the show from home. Of course, the blooms are vulnerable to the weather conditions, which occasionally are terrible, and whether or not the blooms were gibbed at the proper time to produce an ample number of competitive blooms. In order to grow show quality blooms, a grower must practice good horticulture practices to the best of his ability.

Disbudding is the factor that makes one feel as though he must start preparing to do all in his power to produce show quality blooms. This includes an ample amount of water during the summer

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growing season. Disbudding starts in June or July, depending upon when the bloom buds are large enough and when there is enough time available. We do not disbud nearly as stringently as many camellia exhibitors because all our plants are grown outside in the ground and are used in landscaping.

Beginning around Labor Day, depending on the outside temperatures, gibbing commences. If the temperatures are still quite high, gibbing is delayed a couple of weeks or so.

All plants are thoroughly watered about two weeks before a show and on Wednesday prior to a show date, the camellia beds are flooded. This seems to push partially open blooms to their peak by cutting time.

A day or so before cutting time, a survey is made to see which blooms are developing and may be tip-top at cutting time. If the weather should be rather cold, blooms can be cut more than a day ahead and stored in thick styrofoam boxes with stems in a small cup of water with the outer edges of the blooms resting on fluffed Dacron pillow stuffing. This cushions the blooms against any vibrations or jolts during travel.

Naturally, the blooms that travel best are those of medium or smaller size and with the most substance or thickness of petals. Whites, as everyone is aware, are probably the most difficult to transport and enter in a show as even a tiny stroke or brush of any object against the bloom while placing it for travel or removing it for entry in a show will result in a discolored streak or bruise, which is detrimental to the bloom during judging. Of course, some of the very large blooms with less substance are rather difficult to transport and place in a show without injury.

From Jim Randall, Sacramento, CA

The first prerequisite in good bloom preparation and presentation is to pick your flowers at their peak. Cut your flowers the morning of the show if possible. Place blooms in plastic cups or orchid pics and transport in boxes containing material that will not bruise your blooms. Also, place a damp towel in the very bottom of your boxes for added humidity. You might try a few ice cubes to each box for additional cooling.

A flower that peaks two or three days prior to the show can be refrigerated and still bring home the silver. Place the bloom in a plastic cup (do not use orchid pics) covered with tin foil so only the stem is in contact with the water. Use a flower preservative in warm water. Store in a plastic box with no additional moisture added. Then seal the box with masking tape to make it air tight. Blooms can be easily held for up to five days.

To prepare and present your blue ribbon Camellias, you will need a few basic tools and aids to become a successful exhibitor.

Basic Tools Needed

1. A portable table for staging your bloom entries.
2. Cotton or cotton balls to elevate flowers.
3. A towel to mop the water you always manage to spill.
4. A small pair of scissors.
5. Tweezers.
6. Small pruning shears.
7. A tray (cafeteria type) for carrying several single bloom entries, it saves a lot of walking.

8. Two camel hair brushes (wet & dry).
9. Pencils.
10. Extra entry cards (pre-stamped).

Presenting Flowers

With your scissors or tweezers, remove any small petaloids or damaged small petals that would detract from the beauty of the bloom. Remove all dirt and pollen from the petals using your camel hair brushes. Don't forget to clean and polish the leaf or leaves. Elevate your entry in the cup using some cotton, but don't overdo. This prevents the bloom from sinking down into the container and allows you to stage the flower to present its best attributes.

Try to place your entry in the middle of the show table if possible. Turn the flower until its best "face" is forward so that it will be looking right at the judges. If the bloom is an extra good entry, try to place it next to the best flower that is already benched to show off its superiority.

Refrigerated blooms should be the last ones that you enter so they will be at their best during judging.

ACS

Show Dates

(ACS Cooperative Shows)

<i>Place, Location, Sponsor</i>	<i>Date</i>
Columbia, SC; South Carolina State Fair; Mid-Carolina Camellia Society	October 22, 1988
Nacogdoches, TX; Lá Quinta Inns; Texas Camellia Society	October 29, 1988
Fresno, CA; Camellia-Rama; Central California Camellia Society	
(In conjunction with ACS Fall Meeting)	November 5, 1988
Greenwood, SC; Inn on the Square; West Carolina Camellia Society	November 5, 1988
Fort Valley, GA; Masee Lane; Middle Georgia Camellia Society	November 12-13, 1988
Thomasville, GA; Thomasville Garden Center; Thomasville Garden Clubs	November 12-13, 1988
Portsmouth, VA; Tower Mall; Virginia Camellia Society	November 12, 1988
Waycross, GA; Trust Company Bank; Waycross Federated Garden Clubs	
& Trust Co. Bank	November 16-17, 1988
Valdosta, GA; Valdosta Garden Center, N. Patterson Street; Valdosta Camellia Society & First State Bank & Trust	November 19-20, 1988
Gulfport, MS; Harrison County Court House; Gulfport Area Camellia Society	November 19-20, 1988
Charleston, SC; First Federal of Charleston; Coastal Carolina Camellia Society & First Federal	November 19-20, 1988
Port Arthur, TX; Central Mall; Southeast Texas Camellia Society	November 19-20, 1988
Fort Walton Beach, FL; Westwood Retirement Center; Fort Walton Camellia Society	November 26, 1988
Jacksonville, FL; Grande Blvd. Mall, Camellia Society of North Florida	December 3-4, 1988
Jacksonville Beach, FL; Community Center; Island of Beaches Camellia Society	December 3-4, 1988
Lafayette, LA; Natural History Museum; South Louisiana Camellia Society	December 3-4, 1988
Slidell, LA; Ozone Camellia Club	December 3-4, 1988

Houston, TX; Houston Garden Center; Houston Camellia Society	December 3-4, 1988
Brookhaven, MS; State Bank & Trust Co.; Brookhaven Camellia Society	December 10, 1988
Pensacola, FL; The Wright Place, 80 East Wright Street; Men's Camellia Club of Pensacola	December 10-11, 1988
Gainesville, FL; Gainesville Camellia Society	January 7, 1989
Tallahassee, FL; Camellia & Garden Club of Tallahassee	January 7-8, 1989
Baton Rouge, LA; Baton Rouge Camellia Society	January 7-8, 1989
Ruston, LA; Holiday Inn; Ruston Men's Camellia Society	January 7-8, 1989
New Orleans, LA; Ganus High School Gymnasium; Camellia Club of New Orleans	January 14, 1989
Orlando, FL; Olympia Place, 800 Magnolia Avenue; Camellia Society of Central Florida	January 14-15, 1989
Conroe, TX; Holiday Inn; Couthatta Camellia Society	January 14-15, 1989
Dallas, TX; Dallas Civic Garden Center at Fair Park; Dallas Camellia Society	January 21, 1989
Mobile, AL; Springdale Mall; Camellia Club of Mobile	January 21-22, 1989
Aiken, SC; University of S. C.; Aiken Camellia Club	January 21-22, 1989
Charleston, SC; Citadel Mall; Coastal Carolina Camellia Society	January 28, 1989
Tuscaloosa, AL; Central High East; West Alabama Camellia Club	January 28-29, 1989
Lakeland, FL; First Federal Florida; First Federal Florida	January 28-29, 1989
Shreveport, LA; Barnwell Center; Shreveport Camellia Society	January 28-29, 1989
Tampa, FL; Eastlake Square Mall; Tampa Bay Area Camellia Society, Inc.	February 4-5, 1989
Jackson, MS; Deposit Guaranty National Bank Plaza; Jackson Camellia Society ...	February 4-5, 1989
Charlotte, NC; Eastland Mall; Charlotte Camellia Society	February 4-5, 1989
Birmingham, AL; Eastwood Mall; Birmingham Camellia Society	February 11-12, 1989
Columbia, SC; Columbia Mall; Mid-Carolina Camellia Society	February 11-12, 1989
Tyler, TX; First City National Bank, Main Lobby; Tyler Camellia Society	February 12, 1989
Cloverdale, CA; Cloverdale Citrus Fair	February 18-19, 1989
Atlanta, GA; Day Hall—Atlanta Botanical Garden; North Georgia Camellia Society	February 18-19, 1989
Monroe, LA; Central Bank-Downtown; Northeast Louisiana Camellia Club	February 18-19, 1989
Wilson, NC; Parkwood Mall; Wilson Garden Club	February 18-19, 1989
Fort Worth, TX; Conservatory, Botanic Garden, Fort Worth Camellia Society	February 19, 1989
Santa Clara, CA; Community Recreation Center; Santa Clara Camellia Society ..	February 25-26, 1989
Wilmington, NC; Independence Mall; Tidewater Camellia Club	February 25-26, 1989
Chattanooga, TN; Eastgate Mall; Chattanooga Camellia Club	February 25-26, 1989
Fayetteville, NC; Cross Creek Mall; Fayetteville Camellia Club	March 4-5, 1989
Nashville, TN; Tenn. Botanical Garden, Cheekwood; Middle Tennessee Camellia Society	March 4-5, 1989
Fresno, CA; Fashion Fair Mall; Central California Camellia Society	March 11-12, 1989
Greensboro, NC; Piedmont Camellia Club	March 11-12, 1989
Modesto, CA; E. J. Gallo Administration Bldg.; Modesto Camellia Society	March 18-19, 1989
Norfolk, VA; Norfolk Botanical Garden; Virginia Camellia Society	April 1-2, 1989
Washington, D.C.; National Arboretum; Camellia Society of the Potomac Valley	April 8-9, 1989

* Changes since last Journal.

Additional Judges Appointed

Terms of all Judges and Novice Judges
listed herein expire December 31, 1993.

ALABAMA

Daphne:

James T. Oates
Dolores C. Oates

CALIFORNIA

San Diego:

Leslie R. Baskerville
Edalee Harwell

FLORIDA

Brandon:

Mrs. Allena W. Halliday (Novice)

MISSISSIPPI

Biloxi:

Alfred A. Breeland (Novice)
Doris Breeland (Novice)

SOUTH CAROLINA

Lugoff:

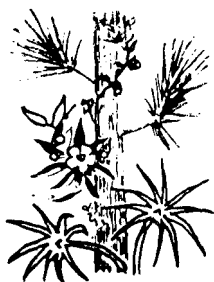
M. S. McKinnon (Novice)
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In Memorium

Mr. Camellia David L. Feathers 1899-1988

KEN HALLSTONE

Dave led a full and rewarding life which was centered around his family, his garden, the stock market and camellias, but not necessarily in that order. My association and friendship with Dave, which was centered around the camellia part of his life, started in 1955. I will never forget the many conversations we enjoyed together in his den, which generally included such topics as hybridizing, fragrance, petal blight and growing seedlings, followed by sports and sometimes the stock market. During the blooming season we concluded with a walk through the garden evaluating his new seedlings. Dave's accomplishments and contributions to the Camellia World were many but I would like to recall for you just a few.

He was one of the founding fathers of the Northern California Camellia Society on December 9, 1945 and over the years served in every office of the Society. He served as Chairman and was a member of the N.C.C.S. Research Committee for 43 years. He has been a member of the A.C.S. Research Committee since its formation in 1977.

His skill in writing coupled with his knowledge of camellias is evident in the many articles he wrote for the A.C.S. Yearbook and Journals. He edited N.C.C.S.'s "CAMELLIA BULLETIN" from 1954 to 1965. It was one of the first publications with colored covers and along with his interesting, well written articles became the standard for the present camellia publications.

He expressed to me many times that he wanted to write a book, one that would cover all phases of camellia culture and could be afforded by everyone. He satisfied this desire in 1978 when he wrote "THE CAMELLIA" in cooperation with the American Camellia Society and his

friend the late Milton Brown as associate editor. This 'how to' book containing many color plates has become the 'Bible of Camellia Growers' everywhere and still sells for only \$12.50.

Dave's forte was hybridizing and he had few equals. He named and introduced over sixty cultivars and his 'Arch of Triumph' won the coveted Aubrey Harris Hybrid Award in 1974. His latest introduction, 'Lauretta Feathers', which will be available soon, is a 'Lasca Beauty' seedling and is almost as charming a flower as the lady and his wife for which it was named.

With his steadfast desire to promote the camellia that he loved, he soon came to realize the far reaching detrimental effects that petal blight *sclerotinia camelliae* Hara was having on camellia culture here in the United States. In 1977 he decided to do something about it and established a "Fight Blight" program. Along with his generous donation the \$20,000 goal was quickly reached. During the meantime the fund has grown and for the past few years the interest from the fund has been used in research for petal blight and other camellia diseases.

In 1971, Dave was made a Fellow of the American Camellia Society. This prestigious award is bestowed on a person who has been recognized as having made a substantial and new contribution to scientific knowledge in the culture, care and knowledge of camellias.

Over the years hundreds of camellia growers from all over the world have visited Dave and Lauretta's garden at Number One, Camellia Lane, Lafayette, California. It is our understanding that this twelve acre garden and home has been placed in Trust for the next ten years. Thus the general public and particularly camellia lovers will still have the opportunity to enjoy this magnificent garden with its many species, hybrids and seedling camellias.

His many accomplishments and contributions to the camellia world have led us to fondly refer to Dave as "Mr. Camellia." His generous support of the Northern California Camellia Society, the Oakland Men's Garden Club, the Heather Farm Garden Center and the new wing on the A.C.S. building will

keep alive fond memories of Mr. Camellia, David L. Feathers.

—ACS—

David L. Feathers

WOODFORD F. HARRISON

The death of David L. Feathers on July 9, 1988 was a loss that is felt around the world among his many friends, but nowhere so much as among those in the San Francisco Bay area who were closely associated with him through the Northern California Society. My own acquaintance with Dave began over 40 years ago when he, together with Harold Paige and E. O. Hopfer, called together about a dozen garden lovers who had a particular interest in camellias. One main purpose of the meeting was to make plans for putting on a camellia show. Out of this meeting grew the Northern California Camellia Society. Working together in putting on the first shows created strong bonds among the small group of early members. Dave was the first secretary and the second president of the society, and at the first show in February 1946, the winner of 10 awards in 14 classes, as well as sweepstakes. With characteristic generosity Dave ceased competing for that award in order to give others a chance.

During the 1950's interest in camellia culture expanded with a great deal of enthusiasm, and Dave was in the forefront. Introduction of new species and new hybrids proceeded rapidly in the United States and many other parts of the world. Dave moved from Oakland on San Francisco Bay, to Lafayette on the other side of the East Bay hills which give protection from the cool winds off the Pacific Ocean and therefore provide a superior climate for growing more and better camellias. There, on a very pleasant hillside, he built a home and planted a beautifully landscaped garden which became not only a camellia showplace but also had many other varieties of plants. His place became a mecca for camellia enthusiasts from around the world, who will be happy to know that before his death he made provision for the garden to be maintained for another

10 years after he was gone.

Dave's interest in horticulture, and particularly in camellias, led him to the introduction as well as the creation, through hybridization and careful cultivation, of many new varieties. His camellia hybrids are among the most beautiful and admired wherever camellias are cherished. He had the kind of experimental mind that led to success. At one time it was thought that it was impossible to cross camellia species with widely differing chromosome counts. Dave was one whose pioneering experimentation disproved this theory, leading to successful crosses between different species such as Japonica, Reticulata, Sasanqua, Granthamiana and others, resulting in a tremendous expansion in the possibilities of new varieties. Among the qualities which Dave was interested in developing were fragrance and cold-hardiness. His generosity in sharing with other hybridizers both his expertise and scions and pollen from his new camellia cultivars helped to further the improvement of the flower so

dear to his heart. His concern extended to all facets of camellia culture and he offered a substantial sum as an award for a successful result to research on ways of combating the worst enemy of the camellia—petal blight.

Dave had a talent for expression which was evidenced in the position which he long held as the first and only editor of the highly regarded Bulletin of the Northern California Camellia Society and in his numerous contributions to other camellia publications. In 1978, at an age when intellect is often diminishing, he demonstrated his unflagging powers by editing a monumental work, "The Camellia," which so ably fulfills the intention stated in his foreword: "To reflect the knowledge and history of the Camellia and its culture accrued over a period of 40 years or so."

To his host of friends Dave was not only an inspiration in the field of horticulture, but also a fine gentleman and a friend whose memory will always be cherished.

Alfred Gamper

Aug. 26, 1912-May 19, 1988

Al was born in Geneva, Switzerland and entered the United States at the age of three. He lived in Minnesota until he was 14 years old and moved to California where he was soon exposed to the Tool and Die trade by his capable Father. Taking advantage of every opportunity working in the trade, he was interested in owning his own business. He was fortunate in founding Paragon Tool, Die and Engineering and Volpar, Inc.—specializing in high precision Manufacturing of Aerospace Components and aircraft modification.

Being exposed to the excellent fishing in Minnesota in his youth, he became an avid fisherman and enjoyed game hunting and bird shooting throughout his life. He traveled to his native Switzerland and other places in the world for recreation and fun.

His interest in horticulture came at an early age and he was fortunate in having Howard Asper, who was associated with Descanso Gardens in La Canada, as a neighbor to introduce him to Camellias

in 1941. He enjoyed many challenging hobbies, however in his years after retirement, he felt that Camellias were the most rewarding. He joined the Pacific Camellia Society in 1947 and became actively involved after retirement in 1979. He was President for three years.



Alfred Gamper

His greatest fulfillment was the association with the ACS in which he held several offices. At the time of death, Al was serving the ACS as Pacific Coast Vice President and a Director of the Endowment Board. He was a Life Member.

He is survived by his wife Frances, two daughters, Shirley Porter and Donna Didden and three grandchildren—Brad, Brian and Kimberly.

—ACS—

Membership

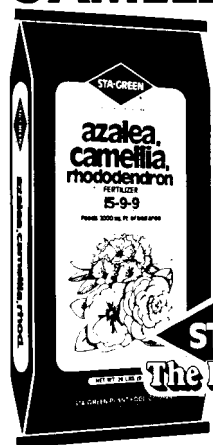
C. DAVID SCHEIBERT

As promised, the following is a list of camellia clubs that obtained the most new members at their annual shows during the 1987-88 season.

- | | |
|------------------------------------|----|
| 1. Ozone Camellia Club | 15 |
| 2. Fort Walton Camellia Society | 8 |
| 3. 3-way tie for third place: | |
| a. Baton Rouge Camellia Society | 7 |
| b. Fayetteville Camellia Club | 7 |
| c. Middle Georgia Camellia Society | 7 |

We've garnered less than 10% of the 719 delinquent 1987 ACS members since April 1, 1988. Spouses of ACS members and non-ACS members of camellia clubs are our best source of new members. Extend an invitation. There's nothing to lose and some of your friends would also appreciate your invitation. If you are proud of ACS, it will *favorably* influence others.

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ANN BLAIR BROWN

Mark your calendar to be a part of the exciting ACS Annual Meeting and Convention April 5-9, 1989 at Massee Lane Headquarters and the Holiday Inn in Perry, GA. Your staff has been very busy making interesting plans for your enjoyment. It will be a return visit for many of you and we look forward to greeting many "first time" visitors as well. The welcome mat will be out for you and it will be our pleasure to make your visit a memorable one.

The Convention will officially open on Wednesday, April 5th at 6:30 P.M. at the Holiday Inn. The Middle Georgia Camellia Society will host a cocktail buffet in your honor. This will be the beginning of renewing old friendships and greeting new participants.

On Thursday, April 6th, a trip to Callaway Gardens is planned. The azaleas should be in bloom and two new facilities will be visited, the Sibley Horticultural Center and the Day Butterfly Center. The Sibley Center, built at a cost of over 4 million dollars, is a spectacular complex. Large amounts of glass create an immense indoor garden for yearround enjoyment. The sliding glass doors to this massive structure remain open most of the year to extend this unique garden to the adjoining garden. Many of the plants in the covered areas of the complex are evergreen and highly compatible with the natural environment. Major seasonal displays of flowering plants are featured. There is also a gift shop and a display area included. A number of seating areas and overlooks are incorporated in the center to encourage visitors to relax and enjoy the many sensory perceptions.

The other new facility is the recently open Day Butterfly Center. This new attraction, an 8,000 square foot glass enclosed tropical butterfly garden, is the largest in North America. Adjacent to

1989 ACS Annual Meeting April 5-8, 1989 Perry/Massee Lane, GA Schedule of Events

Wednesday, April 5, 1989

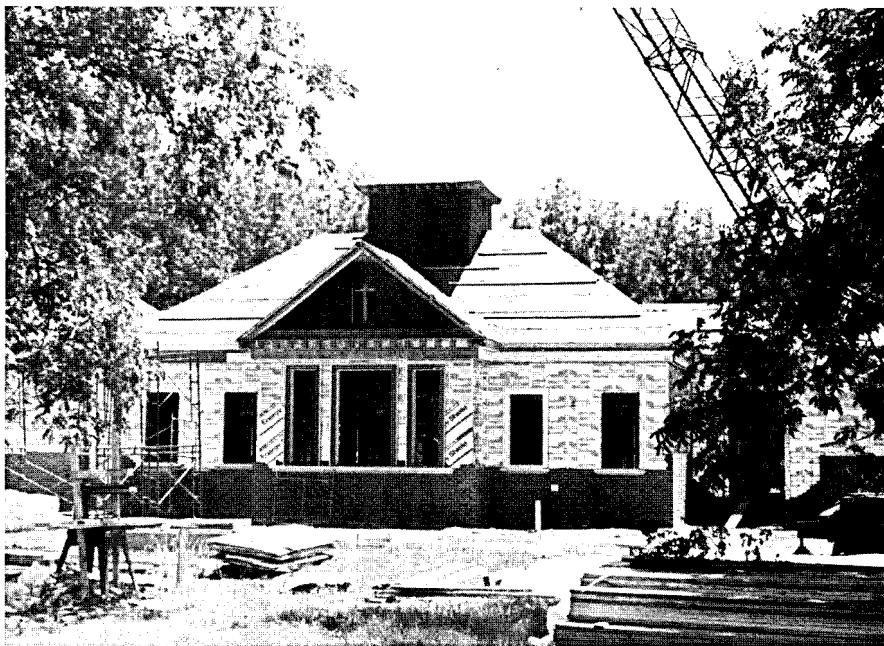
- 9:00 A.M. ACS Judging School (*Will be held only if 20 people register by March 1, 1989.*) Holiday Inn.
to
4:00 P.M.
12:00 Noon Lunch on your own
6:30 P.M. Cocktail Buffet—Middle Ga. Camellia Society—Holiday Inn

Thursday, April 6, 1989

- 8:30 A.M.
Board Bus for Callaway Gardens, Pine Mountain, GA
Tour the lovely gardens ablaze with colors of native and cultivated azaleas; gaze in wonder at the beauty and splendor of the Sibley Horticulture Center—a new concept of indoor display gardens; enjoy Callaway's newest attraction, the Day Butterfly Center—the largest glass-enclosed tropical butterfly garden in North America.
12:00 Noon Lunch at Callaway
3:00 P.M. Leave Callaway for Perry
5-6:30 P.M. Hospitality Room—Holiday Inn
7:00 P.M. Dinner on your own

Friday, April 7, 1989

- 8:30 A.M. Committee Meetings
10:00 A.M. ACS Board Meeting
12:30 P.M. Lunch on your own
2:00 P.M. ACS Endowment Board Meeting
4-6:00 P.M. Hospitality Room—Holiday Inn
7:00 P.M. Hospitality and Tour of Gardens and Home of Edwina and Emmett Barnes of Macon.



A mid August photo of the center section of the Annabelle Lundy Fetterman Educational Museum. The crossbar in the small upper window and several similar windows prompted some visitors to think that a church was under construction. Photo courtesy of Dave Scheibert.

Friday, April 7, 1989 (COST \$15.00—Must be paid by March 1.)

(Optional tour planned for anyone wishing to go other than those involved with the board meetings listed above.)

- 8:30 A.M. Board bus for Atlanta
- 10:30 A.M.- Tour Carter Presidential Center
- 12:00 P.M.
- 12:00 P.M. Board bus for Lenox Square for
Lunch on your own and shopping
- 2:30 P.M. Board bus for Perry

Saturday, April 8, 1989

- 8:15 A.M. Board buses for Massee Lane
- 9:00 A.M. Massee Lane
Dedication of Annabelle Lundy Fetterman Educational-Museum
Building. Speaker—Helen Boehm.
- 10:00 A.M. President's Reception
- 12:00 Noon Barbeque Luncheon—Barn at Massee Lane
- 1:30 P.M. President's Report and Educational Programs
Annabelle Lundy Fetterman Educational-Museum Building
- 3:00 P.M. Return to motel for rest and relaxation
- 6:00 P.M. Hospitality Hour
- 7:00 P.M. Farewell Banquet

REGISTRATION FEES (Per person)

	<i>On or before March 1, 1989</i>	<i>After March 1, 1989</i>
Full Convention	\$100.00	\$110.00
Thursday Only	35.00	40.00
Friday Only	25.00	30.00
Saturday Only	50.00	55.00

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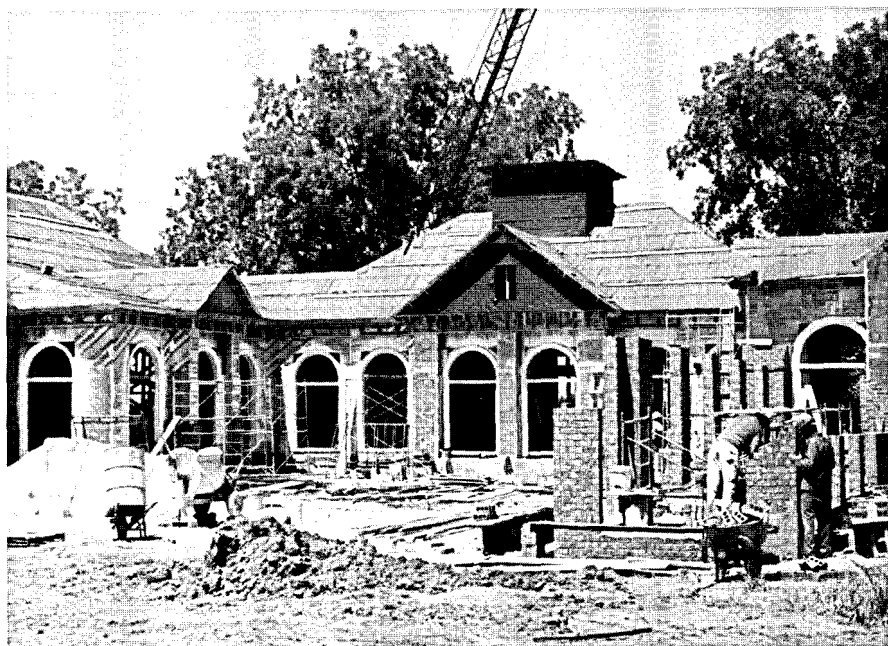


Photo shows a rear view of the building in mid August. The brick pillars are being constructed for the covered walkway from the parking area. Photo courtesy Dave Scheibert.

this is an outdoor native butterfly garden designed to attract local butterflies. At present there are 60 types of native butterflies that call Callaway Gardens home. Educational exhibits, a theater and a butterfly oriented gift shop complete this exciting complex.

On Friday, members will journey by bus to Atlanta for a tour of the only Presidential Center in Georgia. The Museum of the Jimmy Carter Library provides a glimpse of the American Presidency, from life in the White House to complex decisions made in the Oval Office. Visitors also may view the more personal aspects of the Presidency embodied in handmade gifts from the American people, elegant objects from foreign leaders, a formal dinner setting from the White House, and video-taped events at the executive mansion. This lakeside complex also features a Japanese Garden. From the Carter Center, you will travel to Lenox Square for lunch on your own and some shopping in some of the finest shops in the United States.

On Friday evening, Mr. and Mrs. Emmett Barnes III will entertain you at their lovely home in Macon. Mr. and Mrs. Barnes, Life Members of the ACS, are well known for their gracious hospitality. Those attending will thoroughly enjoy the many fine art objects found in this beautifully appointed home. There are many fine collections including antique dolls and Boehm porcelain sculptures. Camellia lovers will be especially pleased with the display of the 'Emmett Barnes' camellias. A special treat will be the beautiful display of water in the majestic fountain.

On Saturday morning, members will gather for the dedication of the Annabelle Lundy Fetterman Educational Museum. Members of the Fetterman family will be joined by members of the Fayetteville Camellia Club for this event. Mrs. Edward Marshall Boehm has graciously consented to be the dedication speaker. The President's reception will follow.

An excellent educational program will follow lunch. After a brief rest, members will assemble for cocktails and the farewell banquet. We hope that this convention will remain a pleasant memory for years to come.



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There is Still Time . . .

ANN BLAIR BROWN

Yes, there is still time for you to be a part of the Fortieth Anniversary Campaign and more specifically, a part of the Annabelle Lundy Fetterman Educational Museum Building. This new addition to the present facilities at Headquarters is a much needed structure. When the beautiful Headquarters building was constructed in 1968, the tour bus industry had not become a reality.

In 1988 this has become a very prosperous industry and continues to increase each year. I have just returned from the Governor's Conference on Tourism at Athens and tourism in Georgia is the Number Two income producer in the state.

Our Headquarters was not designed to cater to the 45 plus persons traveling on a tour bus. The new structure has been designed with this in mind and should be a tremendous help to our staff for catering to our many visitors. Included in the building will be a gift shop featuring camellia and garden related items for sale. The auditorium will be the setting for the many workshops and programs that are held at Masee Lane. Visitors will receive an orientation with a brief history and the attractions in the garden. There will be storage and a small kitchen. This will be most helpful for catered parties and dinners. Many have inquired about the renting of this building for special events. The Board of Trustees will address this at the Fall Board Meeting.

In April 1988 the Board voted to begin construction with completion within eight months. The building is still *not fully funded* so there is still time for you to become a part of this venture. If you have already been a part of the campaign and would like to increase your participation, your gift would be most welcome. If you have not participated, there is still time. If you would like more information, please contact Stuart Watson, Endowment Board Chairman, Albany, GA or Ann Brown at the ACS Headquarters.

Gulf Coast Camellia Meeting 1988

C. DAVID SCHEIBERT

A jovial group gathered at the Admiral Semmes Hotel in Mobile, Alabama on August 5, 1988. Joanne and Pat Ryan's arrangements were as flawless as ever and at 6 p.m. we gathered at the Mobile Botanical Garden. All Seasons catered another delicious seafood buffet with a record 126 hearty appetites. Vice President at Large, Nick Kooney, engineered an efficient and productive silent auction. Roscoe Dean again had beautiful camellia grafts for sale and contributed five to the auction. Dr. Claude Buerger, Jr. proudly exhibited a gibbed and an ungibbed bloom of 'Mona Jury Var.'.

After Saturday morning's business meeting a coffee on the mezzanine was enjoyed followed by the membership and educational meeting. Betty Hotchkiss ably brought us up to date on Dr. Luther Baxter's experimental work in his absence. Tom Perkins, President of ICS,

showed beautiful garden slides and told of their recent trip and meeting to Naples, Italy.

We assembled at Rosamay and Greg Davis' mid-afternoon President's reception at the best spot ever on the hotel mezzanine. After a delicious and elegant seated banquet an afghan by Vi Stone and a camellia painting on porcelain by Gladys Menard were won by Mrs. James Oates and Dr. Alvin Johnson. ACS President, Annabelle Fetterman, then presented the banquet address with slides and a description of attractions at Masee Lane as well as the progress on the partially finished Annabelle Lundy Fetterman Educational Museum. Kay Berridge pointed out that Florida had the most members of any state at the meeting and banquet. Thus ended the excellent 27th annual meeting of the GCCS which is growing and healthy.



Hilery Hanna, ACS Arkansas Director with daughter, Isabel Finnel and Tom Perkins, ACS Mississippi Director at the Gulf Coast Meeting. Photo courtesy Greg Davis.

Some Thoughts and A New Observation on Camellia Dieback and Canker

LUTHER W. BAXTER, JR., SALLY B. SEGARS, and SUSAN G. FAGAN

Department of Plant Pathology and Physiology
Clemson University, Clemson, SC 29634-0377

Dieback and canker of camellia is caused by the fungus, *Glomerella cingulata*.⁵ All *camellia* species thus far tested are susceptible to the dieback phase, usually accompanied by the canker stage.⁵ Some examples of camellia cultivars and seedlings that have been tested for susceptibility to this disease are *Camellia japonica*, *C. sasanqua*, *C. reticulata*, *C. saluenensis*, *C. chrysantha*, and many camellia hybrids.^{1, 3}

Our screening procedure to identify camellias resistant to this disease involves the use of a knife or scalpel to wound stems and then apply 6- to 8-mm-disc portions of 7-day-old Petri-dish cultures of *G. cingulata* to these wounded camellia-stem surfaces.

There are at least two problems associated with this procedure: 1) age of camellia wood inoculated such as current growth, last year's wood and wood from growth that occurred two years ago; 2) wounding camellia stems automatically allows the fungus ingress to the wood. Bark is a natural barrier to infection of camellia stems by *G. cingulata*. This fungus is unable to penetrate non-wounded, mature camellia-stem tissue.⁵ Non-hardened, current-season-growth, when wound-inoculated, is usually killed quickly before cankers form. Therefore any resistance in cultivars usually fails to be expressed before death occurs to young succulent stems and therefore it cannot be identified. It has been found that it is better to inoculate three-year-old camellia stems so that any resistance possessed by the cultivar or seedling can be identified. Some *C. japonica* cultivars, such as 'Ville de Nantes', have little resistance to *G. cingulata*, while 'Governor Mouton', another *C. japonica* cultivar, has excellent resistance.⁵

For several years observations of *C. sasanqua* plants affected by dieback and canker revealed that a disproportionate number of infections occurred through



Figure 1. Canker on *Camellia sasanqua* stem which developed at base of *Exobasidium* leaf gall. Infection occurred through leaf scar.

leaf scars where subtended vegetative buds developed into galls (Fig. 1). This disease, caused by the fungus, *Exobasidi-*

um camelliae var. *gracilis*, is commonly called *Exobasidium* leaf gall (Fig. 1). This disease is extremely common on *C. sasanqua* but fairly rare on *C. japonica*. Recently it has been found to occur on other camellia species and hybrids.⁴

Fig. 2 illustrates the dieback phase caused by *G. cingulata*. Dieback is somewhat of a misnomer since infection normally occurs through wounds created by leaf scars. This type of localized infection, resulting from infection by *G. cingulata* through a leaf scar (Fig. 3) cuts off the water supply to stem parts distal to infection sites. The fungus can be isolated (recovered) by laboratory techniques from discolored wood near the point of ingress but not from wood several millimeters terminally distal to infection sites, or from stem tissue several millimeters distal to the infection site toward the stem base. It is unknown why infection occurs so frequently through



Figure 2. Dieback phase of disease on *Camellia sasanqua*, caused by *Glomerella cingulata*. Left side, healthy; right side (light colored) dead.

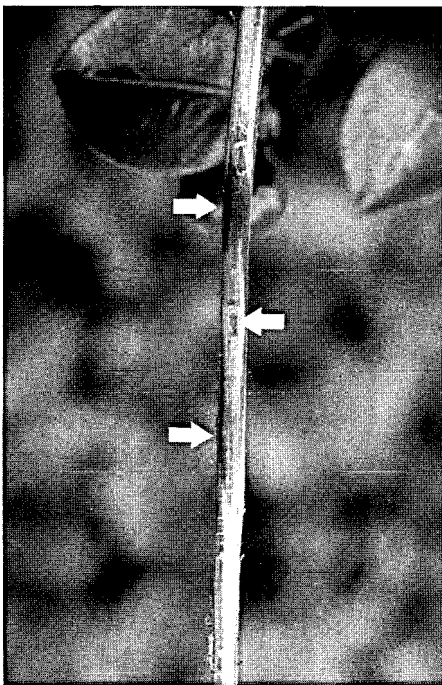


Figure 3. Result of stem canker. Note dead tissue (dark) showing after stem bark scraped off. Healthy stem tissue (distal to lesion top and bottom) shows beyond the dark lesion (double arrows). Note leaf scar region (arrow) through which infection occurred.

leaf-scar regions where *Exobasidium* leaf galls occur, but the scars may remain vulnerable longer to infection (in other words, they may not heal as quickly as leaf scars subtending healthy buds) or stem tissue in these areas (leaf scars subtending infected buds) may be especially rich in available food that encourages growth of *G. cingulata*. Normally leaf scars are vulnerable to infection for only 24 to 48 hours, depending on moisture levels and temperature.⁵ However, low temperatures (50-60°F) may prevent rapid healing of leaf-scar wounds.

C. sasanqua cultivars and seedlings are much more susceptible to dieback and canker than cultivars and seedlings of *C. japonica*.² Therefore *C. sasanqua* plants growing in warmer regions of the South, especially highly susceptible cultivars, such as 'Rosea' and 'Cleopatra', need to be protected against infection by *G. cingulata* during leaf-fall periods. A mixture of benomyl and captan, supplemented with a surfactant, such as Joy or Ivory Liquid, sprayed onto plants at 14-day intervals during the leaf-fall period should provide adequate protection against infection. It might be desirable to separate highly susceptible *C. sasanqua* cultivars, such as 'Cleopatra', 'Narumi-

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'Silver Cloud'
'Snow Drop'
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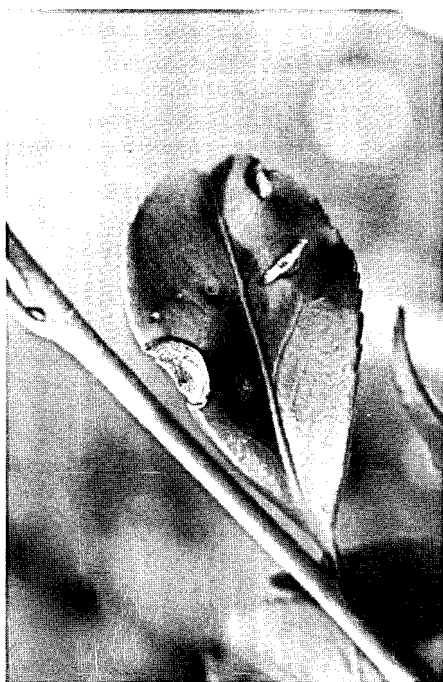


Figure 4. Lesion on leaf of *Camellia sasanqua* caused by *Glomerella cingulata*. Young leaves of *C. sasanqua* cultivars are susceptible to infection by *Glomerella cingulata* when environmental conditions are favorable (warm temperatures, 60-75°F with long wetting periods).

Gata' and 'Rosea', from less susceptible *C. sasanqua* cultivars and seedlings since spread by rain is facilitated by closeness of plants. In areas more humid than the Clemson area, more *C. sasanqua* cultivars may need to be protected by chemical means.

Leaves of some *C. sasanqua* seedlings, highly susceptible to the dieback and canker fungus, become infected when they are young and immature. Fig. 4 shows a typical leaf lesion, caused by *G. cingulata*, on a highly susceptible *C. sasanqua* seedling. Laboratory isolations made from leaves of this type yielded pure cultures of this fungus which caused death or cankers on wounded stems of a *C. sasanqua* seedling, 'CESP'. CESP is an acronym for Clemson Early Single Pink. It is a vigorous seedling, easy to root and grow, but very susceptible to *G. cingulata*. In fact, CESP is used to test all isolates of *G. cingulata* for their ability to cause camellia dieback and canker.

G. cingulata sporulates profusely on camellia-leaf lesions under warm, moist conditions. These lesions provide sources of spores that can cause infection on other susceptible leaves or branches during the camellia-leaf-fall season.

ACKNOWLEDGMENT

Thanks are extended to Dr. O. J. Dickerson for critiquing the manuscript and to Dave Lewis for the photographs.

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—ACS

Further Observations on Camellias

LUTHER W. BAXTER, JR.

Plant Pathology and Physiology Department
Clemson University, Clemson, SC 29634-0377

One plant each of two *Camellia sasanqua* cultivars, 'Cleopatra' and 'Rosea', were among a collection of *C. sasanqua* plants in the author's yard. These two cultivars are extremely susceptible to the disease dieback and canker, caused by *Glomerella cingulata*. Prior to January 1985, an occasional canker was seen on each of these two plants but, by selective pruning, the disease was fairly well controlled. On January 21, 1985 a severe cold front caused the temperature in our yard to fall to -5 F. This unusual cold weather caused much damage to camellias throughout our region, killing some plants of *C. sasanqua*, *C. japonica* and camellia hybrids to the ground. Most of these plants sprouted from the base and now, after 4 seasons of growth, have recovered satisfactorily.

These two plants, one 'Rosea' and one 'Cleopatra' (both *C. sasanqua* cultivars), have died from the disease, dieback and canker. They were not killed to the ground by the freeze but suffered from bark splitting. Apparently there was adequate inoculum (spores of the fungus) available to cause infection through frost cracks. Laboratory isolations from affected tissue resulted in recovery of virulent cultures of *G. cingulata* as confirmed by wound inoculations made on several plants of a known susceptible *C. sasanqua* seedling (CESP).

While the freeze injury was sustained

during mid-winter, apparently there was little healing until after infection had occurred, since the fungus is not active during cold weather. This report covers a small sample but these observations suggest that if this type of injury occurs again to camellias that are highly susceptible to dieback and canker, spraying affected plants soon afterwards with a mixture of benomyl (½ tablespoonful per gallon) and captan (2 tablespoonsful per gallon) might help to prevent this disease.

The more resistant *C. sasanqua* cultivars and seedlings (compared to 'Cleopatra' and 'Rosea'), though severely affected by the freeze, have recovered.

Incidentally, one *C. sasanqua* seedling showed no evidence of cold injury and no dieback and canker has been observed on it. However, its flower leaves much to be desired although flower buds and seed set well. Also, the plant is extremely vigorous but it is straggly. While this seedling most likely would not be selected as a specimen plant for the yard, it might serve as a good grafting stock. One other thing, although it is susceptible to the disease, *Exobasidium* leaf gall, very few galls have been found on it compared to galls found on several *C. sasanqua* seedlings growing nearby. More work is planned with this plant, such as wound inoculation with *G. cingulata*, rooting capabilities and its grafting performance compared to other known cultivars.

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'Black Opal'	'Dr. Alvin Johnson'	'Fred Lee'	'Maggie Bush'	'Scarlet Glory'	'Trophy'
'Blair Brown'	'Dr. Emil Carroll'	'Gene King'	'Marion Edwards'	'Silver Lace'	'Virginia Mathis'
'Buddy Garrett'	'Dynasty'	'Grand Marshal'	'Midnight Magic'	'Silver Shadows'	'Winner's Circle'
'Burgundy Boy'	'Ealon Magee'	'Hall's Pride'	'Miss Houston'	'Sparkler'	'Woodford Harrison Var.'
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'Bethany Fatherree'	'Dr. Reeves Wells'	'Jean Toland'	'Mary Kay'	'Rickwood'	'Tomorrow Park Hill Blush'
'Betty Drews'	'Dr. R. P. McDonald'	'John Movich'	'Mona Jury Var.'	'Robert's Jewel'	'Tomorrow's Dawn's Bessie'
'Blissful Dawn'	'Elsie Hughes'	'Jo-Jo'	'Moonlight Bay'	'Rose Bouquet'	'Tomorrow's Dawn Blush'
'Carvain's Silk Moire'	'Happy Days'	'Juanita Walker'	'Mrs. D. W. Davis Special'	'Roy Stringfellow'	'Violet Bouquet'
'Cherries Jubilee'	'Happy Holidays'	'June Atkins'	'Nancy Reagan'	'Rudolph'	'Wally Freshwater'
'Col. R. D. Hicks'	'Harold Paige'	'Lacy Love'	'Nell Watson'	'Sara Dunham'	'Walter Dunn'
'Curtain Call'	'Hilda Jamieson'	'Lasca Beauty Var.'	'Nuccio's Ruby Var.'	'Sara Oliver'	'Woodford Harrison'
'Dawn's Early Light'	'Hody Wilson'	'Little Michael'	'Our Kerry'	'Something Beautiful'	'Zell Boyce Var.'
'Delta Dawn'	'Hulyn Smith, R & Var.'	'Lovely Lady'	'Paul Harkey'	'S. P. Dunn'	
'Dick Goodson Var.'	'In the Purple'	'Margaret Bernhardt'	'Pleasant Memories'	'Spencer Walden'	
'Donnan's Dream'	'Janet Smith'	'Margaret Davis Picotee'	'R. L. Brent'	'Stuart Watson'	
'Dr. Clifford Parks Var.'	'Jean Comber'	'Margaret Hilford'	'Red Crystal'	'Sweet Dreams'	

GROUP NO. 2 — \$2.00

'Alabama Tide'	'Cissy Purvis'	'Evelyn Poe Pink Var.'	'Les Berg'	'Moonlight Sonata'	'Sheila'
'Al Gunn'	'Cornelia Walden'	'Evelyn Ramirez'	'Lilemac'	'Mrs. D. W. Davis Descanso'	'Shikibu'
'All American Var.'	'Courtney'	'Feathery Touch'	'Lipstick'	'Noble Pearl'	'Show Time'
'Aliene Gunn'	'Crimson Robe'	'Four Winds'	'Little Bo Peep'	'Nuccio's Cameo'	'Shuchuka'
'Amazing Graces'	'Dee Davis Var.'	'Frances B. Homer'	'Little Cheeper'	'Nuccio's Jewel'	'Silver Cloud'
'Ann Clayton'	'Descanso Mist'	'Gabbie Laver'	'Little Dixie'	'Nuccio's Pearl'	'Susan Jones'
'Anticipation Var.'	'Dr. Clifford Parks'	'George Priest'	'Little Ginger'	'Papoose'	'Suzanne Withers'
'Applause'	'Dream Boat'	'George Stewart'	'L. T. Dees'	'Pharaoh'	'Swan Lake'
'Arcadia'	'Dreamy Var.'	'Han-Ling Snow'	'Lucy Stewart'	'Pink Dahlia'	'Terrell Weaver, R & Var.'
'Betty's Beauty'	'Eleanor Martin Supreme'	'Happy Memories'	'Mandalay Queen'	'Pink Doll'	'Tomorrow's Lisa'
'Black Tie'	'Elegans Champagne'	'Helen G.'	'Mary Fisher'	'Pride of California'	'Valentine Day Var.'
'Buddy Bills, R. & Var.'	'Elise Winter'	'Hopkins Pink'	'Mary Love'	'Prima Ballerina'	'Valley Knudsen'
'Camellia City'	'Elizabeth Astles'	'Jean Pursel'	'Mary Stringfellow'	'Purple Gown'	'Veiled Beauty, R. & Var.'
'Cameron Cooper'	'Elizabeth Dowd Silver'	'Julia'	'Massee Lane Var.'	'Rachel Tarpy'	'Virginia Alter Var.'
'Campari White'	'Ernest McDonald'	'Kathryn Funari'	'Midnight'	'Red Chief'	'William C. Noell'
'Carter's Sunburst Blush'	'Eugene Stockman'	'Kevin Murphy'	'Minimint'	'Royalty'	'Wobby Boy'
'Charlotte Johnson Var.'	'Evelyn Poe Blush'	'Lasca Beauty'	'Miss Bakersfield'	'Ruthie Pope'	

GROUP NO. 1 — \$1.00

'Amabel Lansdell'	'Chow's Han-Ling'	'Fircone Var.'	'Junior Miss'	'Miss Charleston Var.'	'Sugar Babe'
'Angel Wings'	'Clark Hubbs Var.'	'Francie L., R & Var.'	'Jury's Yellow'	'Mouchang'	'Tom Thumb'
'Apollo 14 Var.'	'Desire'	'Funny Face Betty'	'Just Darling'	'Nuccio's Gem'	'Tomorrow Var.'
'Betty Sheffield Coral'	'Diddy's Pink Organdie'	'Glen 40 Special'	'Kramer's Supreme Var.'	'Our Betty'	'Tomorrow Crown Jewel'
'Betty Sheffield White'	'Dixie Knight Supreme'	'Grace Albritton'	'Lady In Red'	'Pink Frost'	'Tomorrow Park Hill'
'Blond Betty'	'Drama Girl Var.'	'Grand Britton'	'Lady Kay'	'Pirates Gold Var.'	'Tomorrow's Tropic Dawn'
'Bon Bon'	'Early Woodville Red'	'Grand Slam, R & Var.'	'Laura E. Greggs'	'Rena Swick'	'Tootsie'
'Bon Bon Blush'	'Easter Morn'	'Gullio Nuccio Var.'	'Little Man'	'Rosea Superba Var.'	'Ville De Nantes'
'Brushfield Yellow'	'El Dorado'	'Gwenneth Morey'	'Little Slam Var.'	'Rose Parade'	'Woodville Red'
'Campari'	'Elegans Splendor'	'Helen Bower'	'Little Susie'	'Ruth Seibels'	'Woodville Red Blush'
'Carter's Sunburst Pink Var.'	'Elegans Supreme'	'Howard Asper Var.'	'Magic City'	'Sabrina'	
'Carter's Sunburst Var.'	'Elizabeth Dowd'	'In The Pink'	'Man Size'	'Sawada's Dream'	
'Charlean, R & Var.'	'Elsie Jury'	'In The Red'	'Margaret Davis'	'Snowman'	
'Charlie Bettes'	'Fashionata'	'Jean Clere'	'Melinda Hackett'	'Stacy Susan'	

Please order from this ad. We have many varieties that are not listed. If you want something that isn't listed here, please ask for it. We also have plants of many of the above varieties.

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Existing Cold Hardy Camellias at Massee Lane

C. DAVID SCHEIBERT

This June at Massee Lane, American Camellia Society headquarters, Fort Valley, Georgia, the camellia foliage is a lustrous, rich green with early bloom buds and promise for the future. Three years ago after the January 20-21, 1985 freeze a few of the brown-leaved, partially defoliated plants were making a weak effort at sparse growth with split bark. Later the majority of multiple vegetative buds along the trunk and some branches of the 50% camellia survivors were destined to die as more sturdy growth came from the base. New growth from the roots of *C. japonica* is still coming up in the fourth growing season since the freeze. (Fig. 1 'Lady Vansittart Pink' new growth from roots in low center in June 1988). Some lessons have been learned from this catastrophe unequalled in the previous 100 years of weather records.

The last 40 years had 13 winters of 10°F or below and seven of 5°F or lower with no serious damage except January 1985. The other winters had been characterized by a normal period for plant dormancy and ground moisture except for the lack of dormancy on December 25, 1983. Then a sudden temperature drop to 4°F caused damage primarily to flower buds and tip dieback as did a sudden low of 9°F on November 25, 1950. Joe Pyron noted in the Spring of 1973 that there were more blooms at Massee Lane than in the previous five years in spite of 17 inches of snow February 9, 1973 and 10°F on February 11. The prolonged cold of winters of 1976-1979 hurt northern camellias by virtue of ground freezing up to 3 feet deep for up to two month periods. It was at this time that the cold hardiness of *C. oleifera* was appreciated at the National Arboretum.

It was Christmas 1983 when the temperature dropped to 4°F overnight with 20 m.p.h. winds. There had been no prior cool weather to establish plant dormancy but ground moisture was very adequate. Flower bud damage and tip dieback of

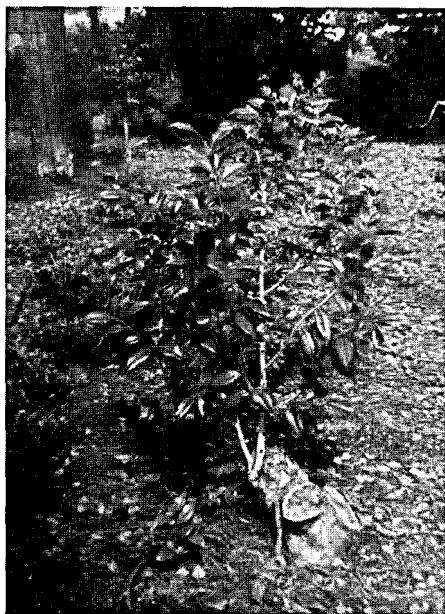


Figure 1. *C. japonica*, new growth from roots in low center in June 1988.

camellias resulted with no general defoliation.

Thirteen months later on January 20, 1985 there had been only 5½" of rain in the preceeding 5 months and no prior freezing weather with October-December 1984 averaging 6°F above normal. The "Siberian Express" struck with a drop to -5°F. On two consecutive winters the camellias were caught with "sap up" and sudden record cold with the addition of very dry ground in January 1985.

Twelve weeks later the garden at Massee Lane in 1985 was still barren with a few brown leaves on camellia skeletons, much split bark and a few vegetative buds on trunks and branches. Thus Massee Lane became a see-through garden again with only seven plants in 1988 looking untouched out of 2,000 and at least 50% loss of plants with up to 12" diameter trunks. An initial evaluation of 1,200 cultivars at Massee Lane and the middle Georgia area was completed by Betty Hotchkiss, Horticulturist.¹

The three important factors in camellia damage in January 1985 were: 1. se-

vere temperature drop to -5°F before dormancy was established; 2. serious lack of ground moisture; and 3. drying strong winds. Other factors listed by Hotchkiss² may be: 1. length of time exposed to cold; 2. frozen ground causing dehydration; 3. weak unhealthy plants; 4. camellias in containers with frozen roots; 5. severe pruning in spring before a freeze; 6. exposure to sun or wind; and 7. one year grafts are more susceptible to cold.

Good survivors of the cold at Massee Lane were *C. japonica* 'Grace Albritton', *C. vernalis* 'Star Above Star', *C. sasanqua* 'Miss Ed' and two unidentified sasanquas. *C. oleifera* from the National Arboretum strain from north China did well at Dr. Walter Homeyer's in Macon, Georgia.

Initially moderately damaged camellias in January 1985 with fairly good recovery are *C. sasanqua* 'Nannette' and 'Daydream'; *C. japonicas* 'Governor Mouton', 'R. L. Wheeler', 'Kumasaka', 'Paulette Goddard', 'Jarvis Red', 'Leucantha', 'Rose Hill Red', 'Pope Pius IX', 'Mini Pink', 'Mihata', 'Marjorie Magnificent', 'Thirty Drops', 'Jack McCaskill' and *C. hybrid* 'Tiny Princess'. *C. japonica* 'Governor Mouton' even bloomed and set seed after 4°F in December 1983.

How else might we enjoy camellia blooms before Christmas? Cultivars that bloom early without gibberellic acid include *C. japonicas* 'Are-jishi', 'Daikagura', 'Debutante', 'September Morn', 'Lady Clare', 'Kick Off', 'Touchdown', 'High Hat' and 'Conrad Hilton'. The cold resistant *C. sasanqua* and *C. vernalis* 'Star Above Star' and 'Dawn' will bloom early with *C. vernalis* blooming over a 3½ month period through February. It must be realized that early *C. japonica* cultivars are not quite as cold resistant and use of gibberellic acid makes a plant and buds more sensitive to cold.

There are other measures to insure plant survival from unusually cold weather, many of these learned in the last 12 years. We can't change failure of outside plants to obtain satisfactory dormancy, but we can:

1. Supply ground moisture before severe cold.
2. Mulch more heavily.
3. Create a favorable micro-climate with windbreak to the north and west.

Camellia Slide Contest 1988-89

We are sponsoring a slide contest for pictures taken of camellias. These slides will be used as a part of the Educational Program at the Annual Meeting to be held at ACS Headquarters April 1989 and will be available to be used for programs by local societies. The contest is divided into various categories and suitable camellia-oriented prizes will be awarded to the first place winners in each sub-category. The color slides should be mailed to the American Camellia Society, P.O. Box 1217, Fort Valley, GA 31030 and will become the property of the society. The slides must be received by March 1, 1989.

Category I (Slide of a single bloom)

- A) *Camellia japonica*
 - B) *Camellia sasanqua*
 - C) *Camellia reticulata* and *reticulata* hybrids
 - D) Non-reticulata camellia hybrids
- Category II (Camellia species bloom, spray, or bush)
 Category III (Camellia plant)
 Category IV (Camellias in a landscape)
 Category V (Club activity)
 Category VI (Creative use of camellias such as Christmas decorations, bonsai, etc.)

Rules:

- 1) Slides should be 2" × 2" transparencies with flower name printed on slide. Your name, address, and category entered should accompany each slide.
- 2) No slide or photograph will be returned, however, they become the property of the American Camellia Society and may be used in its publications.

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4. Have pine tree or other cover.
5. Avoid exposure to sun on freezing mornings.
6. Not use nitrogen fertilizer after early July.
7. Maintain plants in a healthy state.
8. Avoid severe pruning.
9. Avoid keeping small grafts outside and use cold hardy grafting stock of *C. oleifera* or *vernalis*.
10. If plants in containers must be outside, mulch adequately to prevent roots freezing.
11. Use a plant antitranspirant such as Wilt Pruf.
12. We anticipate more information from Dr. William Ackerman on his eight *C. hybrids*³ in a later *Camellia Journal* or the 1988 *Yearbook* which have survived -15°F weather. Milton H. Brown has further discussed the above cold hardy hybrids.⁴

In summary winters of the last twelve years and particularly December 1983 and January 1985 have given us information on cold hardy cultivars that have been with us for years. At this time it appears that *C. japonica* 'Grace Albritton' tolerates unusual -5°F cold better than any other *C. japonica*.

Early blooming cultivars will help us have most of our camellia blooms before year's end and gibberellic acid can help, but cold tolerance is somewhat decreased. *C. vernalis* 'Star Above Star' and *C. sasanqua* 'Miss Ed' did well in the -5°F of January 1985. Twelve other measures to combat unusual cold are outlined just before the summary.

Thus we already have camellia cultivars that are cold hardy and attractive. Along with the imminent introduction of Dr. Ackerman's cold hardy *C. hybrids*, camellias can survive unusually cold winters in the South and extend their range North becoming a more reliable flowering evergreen for landscape use.

REFERENCES

1. Hotchkiss, B.—Cold Injury to Camellias at Massee Lane and Fort Valley Area; *American Camellia Yearbook*, pp. 107-124, 1985.
2. Hotchkiss, B.—Winter of 1983-1984 Cold Damage at Massee Lane; *American Camellia Yearbook*, pp. 32-37, 1984.
3. Ackerman, William L.—History and Progress on Cold Hardiness in Camellia; *American Camellia Yearbook*, pp. 13-16, 1987.
4. Brown, Milton H.—Camellias for Colder Winters; *Organic Gardening*, pp. 56-59, Vol. 12, Dec. 1987.



Rosamay Davis, Pat and Nick Kooney and John Geiser are ready to enjoy the Saturday evening banquet at the Gulf Coast summer meeting. Can you name the camellia that Pat is holding? Give up? It was a very lovely dahlia. Photo courtesy Greg Davis.

Memorial Donations

(The name in boldface type indicates the person in whose memory the donation has been made as of September 19, 1988.)

Mr. Haig S. Ashuckian, Lafayette, CA (Died July 8, 1988)

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Future Meetings of the ACS

November 3-5, 1988 Camellia-Rama, Fresno, CA
April 6-9, 1989 Massee Lane, ACS Headquarters
October 18-21, 1989 Natchez, MS
Spring 1990 Open
Fall 1990 Open
Spring 1991 Descanso Gardens, Los Angeles, CA
Fall 1991 Open
Spring 1992 Walnut Creek, CA

—ACS—

Camellias Registered with the ACS Since the August 1988 Journal

Name and Description	Registry Number	Originator
'Carol Holland', large, magenta, semidouble <i>C. reticulata</i> chance seedling of 'Buddha', early to mid-season	2096	Robert Ehrhart
'Pincushion', small to medium, bright red, semidouble, <i>C. japonica</i> chance seedling, mid-season	2097	George A. Stewart
'Margaret Williams', medium, purple, formal double <i>C. japonica</i> chance seedling, mid-season	2098	John G. Williams
'Ernest Aycock', very large, deep pink semidouble <i>C. reticulata</i> hybrid, mid-season	2100	Joe Austin

PLEASE NOTE THE FOLLOWING CHANGE:

'Howard Dumas'—ACS Reg. #1876—change species information to read as follows: "*C. reticulata* hybrid (*C. japonica* 'Elizabeth Boardman' × *C. reticulata*)"

—ACS—

WORKSHOPS FOR 1989

A series of four workshops on various camellia topics will be held in 1989 at ACS Headquarters. These workshops will continue to enlighten the home gardener about the culture, upkeep, and use of camellias around the home. These workshops will be held in the NEW Annabelle Lundy Fetterman Educational Museum to be opened in 1989. Conducting the workshops will be Betty Hotchkiss, ACS Horticulturist, and other members of the society. The following workshops are available for your selection this year. Pre-registration is required. Simply send in the attached form or call American Camellia Society, P.O. Box 1217, Fort Valley, GA 31030 (912) 967-2358.

CAMELLIA GRAFTING WORKSHOP

Saturday, January 21, 1989
1:30 p.m.-4:00 p.m.

Learn to graft camellias and propagate the latest varieties. This technique is still the favorite method among camellia enthusiasts to obtain plants of your old favorite or the newest variety. Cost of the workshop includes a plant for participants to graft and take home.

\$ 8.00 members
\$10.00 non-members

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Mrs. John N. Sewell

Mr. Alfred Gamper, La Canada, CA
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Dr. C. David Scheibert

Mr. Al E. Johnson, Salem, OR
Mr. & Mrs. Andrew F. Sears

Mr. Henry C. Lunsford, Gainesville, FL
"Henry's Friends at the Gainesville Garden Club"

Mr. Charles T. May, Tyler, TX (This was mistakenly listed as Mrs. May in the August *Journal*)
Mr. William F. Barbish
Mr. Clair S. Gothard

Mrs. C. W. Melvin, Fort Valley, GA
Mrs. Milton H. Brown

Mr. Anthony F. Pinheiro, Modesto, CA (Died September 11, 1988)
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Mr. Philip Sanders, Atlanta, GA
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Mrs. O. V. Lewis

FLOWER ARRANGING WITH CAMELLIAS

Thursday, March 9, 1989

1:00 p.m.-3:30 p.m.

Camellias as cut flowers can be used in a variety of ways. This course is designed for beginning students and demonstrates the use of camellias in making corsages, massed arrangements (church), arrangements for the home, and Japanese arrangements. Cost of the workshop includes an arrangement to take home. (Bring your own vase.)

\$ 8.00 members

\$10.00 non-members

MAKING PAPER CAMELLIAS

Thursday, July 20, 1989

10:00 a.m.-3:00 p.m.

A repeat of a favorite program. Donna and Bill Shepherd of Charleston, SC will return to lead a workshop on making paper camellias. Participants will construct a lifelike camellia from typing paper to take home. Impress your friends with the beauty of these "year-round" camellia blooms.

\$10.00 members

\$12.00 non-members

IDENTIFYING CAMELLIA PROBLEMS

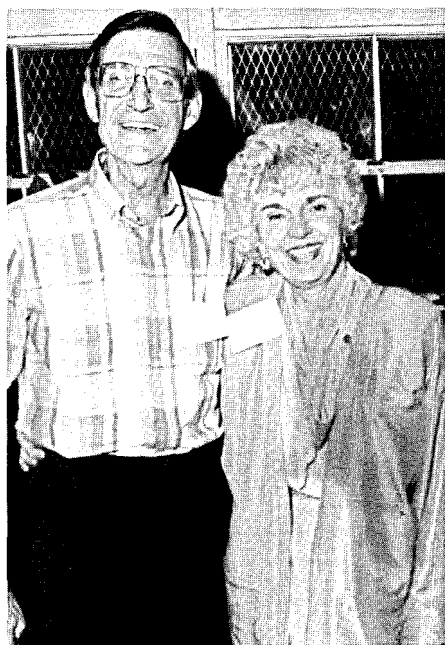
Saturday, October 21, 1989

1:30 p.m.-3:30 p.m.

This course is designed to help people learn to identify problems with camellias and how to correct these problems. Topics covered will include diseases, insects, proper planting, watering, and other cultural aspects. Dr. Luther Baxter of Clemson University will lead this workshop.

\$6.00 members

\$8.00 non-members



Al Breeland and President Annabelle Fetterman are "all smiles" at the Seafood Jamboree and auction in Mobile. Photo courtesy of Greg Davis.

CAMELLIA WORKSHOPS 1989

Name _____

Address _____

City _____ State _____

Zip _____ Daytime Phone _____

Please reserve space for me in the following workshops:

1. _____ Spaces \$ _____ Fee

2. _____ Spaces \$ _____ Fee

3. _____ Spaces \$ _____ Fee

Return this reservation form with your check or money order made payable to American Camellia Society. Mail To: ACS, P. O. Box 1217, Fort Valley, GA 31030

Growing Camellias in Retirement

WALLACE F. FRESHWATER, SR.

It is hard to realize that it has been one year since I made the decision to retire. So much has happened during this past year that it really is quite hard to take it all in. First there was the sale of our home where many of you have visited over the years. Coupled with this was the sale of most of our furnishings. It was very difficult to abandon the garden with the camellia collection, bulbs and trees. Leaving behind all my many friends in Fort Valley, after forty years, was a traumatic experience. However, this was not the end of the world. I knew that we were going to have to start over and so our plans have been made with this in mind.

After settling down and finally receiving those furnishings we had shipped, a fresh start was made. The first item, that we needed if we were to have any luck in growing camellias, was a greenhouse. After much looking around we finally settled on a Hall European Style structure. It is a 6' X 8' greenhouse with a sliding door. The advantage of having the 6 foot sides is that I can work without knocking my head on the top of the house every time I stand up.

Then came the decision about what to buy. Most of the garden centers had camellias for sale but at a price that would discourage even the most affluent. We had to pick and choose carefully as we wanted to obtain the best value for our money. Would you believe that this came from Woolworths? They had for sale a number of *C. japonica*, *C. hybrid* and *C. reticulata* hybrid cultivars. These plants were grown from leaf bud cuttings and those of you who read the November 1987 *Camellia Journal* will recall that there was an article concerning this method of propagation published as a reprint from the London Daily Telegraph. It is fascinating to see these plants in their 4 X 4 X 4 inch plastic cups. They are labeled as to variety, colour and include instructions as to how to care for the plant. The very best feature was that all the plants had FLOWER BUDS. Can you imagine my joy? I could start my camellia collection over and have flower

the first year.

How many of you have been able to do that? Better still, how many of you were like me, begging scions, grafting on dubious understock, praying that you'd get a "take" and then waiting two, three or more years to see the results of your labors. If you're in my age group and many of you are, we may wishfully think and hopefully wonder that we will be around to see the results produce, we have no guarantee and so the answer to our hopes is in leaf bud propagation.

I purchased several plants from Woolworths including "E. G. Waterhouse", "Elsie Jury", "Debbie", "Anticipation" and "Innovation", a *C. reticulata* hybrid developed by David L. Feathers and a *C. hybrid* "Joan Trehane". My *C. japonica* plants came from garden centers and naturally were much larger plants. I have "Betty Sheffield Supreme", "Kumasaki", "Mrs. K. Sawada", "Debutante", "Powder Puff" and "R. L. Wheeler".

I thoroughly enjoyed repotting and caring for these plants during the cold months and my work was well rewarded by a greenhouse full of beautiful blooms that lasted for a much longer period than blooms grown in the Southeast. Everyone who saw them was enamoured and I'm sure that quite a few went out and made purchases of camellias.

Greenhouse culture is a new venture for me. I learned a lot but I am only starting to scratch the surface. I had worrying thoughts about heating but I was able to find a kerosene heater that was capable of heating the size greenhouse that I have. For three pounds or about seven dollars a week, the greenhouse had adequate heat at night. For my watering procedure, I took my tips from what I learned at Massee Lane from the gardeners, Eif Girdner and George Fields. In the early days before the greenhouse at Massee Lane, there were pots of camellias in converted hen houses. The gardeners thoroughly soaked the foliage each day, taking care to only gently spray the blooms and allow the water to drip from the leaves and take care of the pot.



As for fertilization, I have used Phos Tabs, slow release tablets and a plant tonic Sequestrene which is applied to the soil only. This program has had very good results as my plants are showing 6 to 8 inches of new growth. This growth is now in the process of hardening off. All of these plants are now growing outdoors in what I hope will be the permanent location for them. The location has a southern exposure that has sunshine from 9 A.M. to about 3:30 P.M. when the sun shines. We have been very lucky and have enjoyed remarkably good weather. The plants appear to be enjoying their new location. My next job will be to locate and purchase more plants for the greenhouse this winter. I am keeping my eye on the Garden Shop at Woolworths. The next group of camellias hopefully will be *C. reticulata* or *C. reticulata* hybrids, preferably those with variegation. It is a known fact that only we Americans favor variegated flowers. The majority prefer the solid flowers.

To those of you who are thinking of retiring, don't wait any longer. You don't HAVE to move 4000 miles away but you can enjoy life without all the hassle of the business world. If I can find time between walking the dog, trout fishing and growing camellias, who knows, I might write another article for the *Journal*. Until then keep on grafting, growing and showing.

EDITOR'S NOTE: Wally served as the ACS Director for Georgia at the time of his retirement. Many will remember him as the Chairman of the ICS Convention held in Perry. He was a Past President of the Middle Georgia Camellia Society. He and his wife Marjorie now live in England.

Camellia Society of Central Florida

HELEN F. DALEY

All you camellia hobbyists, mark your calendar now for the Central Florida Camellia Show which will be held at Olympia Place, 800 Magnolia Avenue, on Saturday and Sunday, January 14th and 15th, 1989 in our beautiful "new" downtown Orlando. This will be our 41st show and we hope it will prove to be the best ever!

Our co-chairmen, Carmen Kolodney, Raymond Crawford, Robert Harmon, and James Young, are doing a super job this season. Each of these talented people have been show chairman in the past; some more than once. They have decided to expand our show by including a Camellia Art Show, a Photography Show, and a Camellia Honor Court.

An invitation has been extended to all the Florida Camellia Societies to sponsor a young lady and gentleman to represent their Society in our Camellia Honor Court. The couples will be our guests for the entire weekend and will be introduced to our members at the Judges' Dinner on Friday evening. They will also participate in all the show activities as our guest hosts and hostesses.

The Art Show is open to all Camellia artists in whichever medium they prefer to work with: Oils, Watercolors, or Acrylics.

The Photography Show is also open to all, but entries should be at least 8 x 10 in size and must be in color.

We hope many Camellia artists and photographers will honor us by their participation in our 41st Camellia Show.

Our Artistic Arrangements are done through the courtesy of Orlando-Winter Park Ikebana International, a worldwide organization of individual members dedicated to "Friendship through Flowers" with headquarters in Japan.

Set-up day for our show is on Friday and blooms can be entered between the hours of 7:30 a.m. and 10:00 a.m. on Saturday. Judging will then begin at 10:30 a.m. Show hours will be from 1:00 p.m. to 9:00 p.m. on Saturday and from 1:00 p.m. to 6:00 p.m. on Sunday.

Olympia Place, our co-sponsor, is one of several new buildings in the center of Orlando. Its location is between Magnolia and Orange Avenues near Lake Ivanhoe; we also refer to it as the Florida National Bank. There's plenty of free parking in a garage which has an enclosed walkway directly into the building. At night, when all the lights are on,

Olympia Place is quite an impressive sight. We consider ourselves very fortunate indeed to have our 1989 Camellia Show in such a lovely setting.

If you would like to enter some photography, or artwork, or just need more information on our show, please contact either Raymond Crawford, 5930 Dogwood Drive, Orlando, FL 32807, (407) 273-6277 or Helen F. Daley, 1205 Kumquat Court, Longwood, FL 32779, (407) 862-4070.

This promises to be an outstanding 41st Camellia Show and one I'm sure you won't want to miss! Hope to see you all in Orlando.

ACS

SPECIAL GIFTS

(As of September 19, 1988)

Honoring the Henry S. Stones on their 50th wedding anniversary with contributions to The American Camellia Society were Mr. William F. Barbish and Mr. Clair S. Gothard.

Dr. & Mrs. Robert F. Tarpy: Contribution honoring Evelyn Abendroth on her birthday.

Dr. C. David Scheibert: Contribution wishing a speedy recovery to Dr. Walter F. Homeyer, Jr. Mrs. Ed Mathews and Mrs. Douglas Miller: Paper camellias for gift shop.

Mrs. Milton H. Brown: Contributions wishing a speedy recovery to Dr. Walter F. Homeyer, Jr., Mrs. William F. Mann and Mr. Alfus Johnson and in honor of Mr. Thomas C. Evans on his birthday.

Dr. & Mrs. Daniel E. Nathan: Contributions wishing a speedy recovery to Mrs. William F. Mann and in honor of Mr. Thomas C. Evans on his birthday.

Brookwood Hills Garden Club: Contribution for program by Betty Hotchkiss.

Gulf Coast Camellia Society: Contribution to ACS Endowment Fund.



Liz Jeffares and Gulf Coast President Greg Davis enjoy a pre-dinner chat.



Gulf Coast officers and directors in attendance at the Gulf Coast summer meeting.



Beaufort Stew Picnic 1988

C. DAVID SCHEIBERT

After the last left turn, you're on a quiet shaded road on the south shore of Lake Marion. The cars and sounds of merriment pinpoint Tyler and Buck Mizzell's lakeside cottage. The Beaufort stew is bubbling with the serving table and trough ready. Each arriving guest is

warmly greeted. Groups stand around the large cookpot and bar or sit engaged in conversation overlooking the lake. A carved watermelon with assorted melon balls and a dessert table are invitingly ready. Conversation increases after Grace is said and a serving line forms. Only the lap of the waves is heard as the picnickers enjoy the delicious stew of smoked sausage, cob corn and shrimp in the shell. Conversation is again king as everyone resumes visiting. Such is a Beaufort Stew picnic at the Mizzells on Lake Marion.

Notes From The Horticulturist

BETTY HOTCHKISS

As I write this column it is EARLY in camellia season and the first blooms are beginning to open from the use of gibberellic acid. What a beautiful sight to behold; these first blooms of the season. Why not make an extra effort this year to gib flowers in a friend or neighbor's yard? This can be an excellent way to interest new people in the camellia hobby.

Many new camellia enthusiasts are often hesitant to cut stems along with the camellia blossoms. However, on larger plants this can be a good way to prune your plants throughout the blooming season and will reduce the need for as much pruning in the spring. Cuts may either be made at the point of junction with a larger branch or just above a leaf node. Good clean cuts rather than uneven breaks are better for the plant.

Scale insects can be a problem during this time of year and can be controlled by timely sprays. Many insecticides are labeled for use against scale as well as dormant oil sprays. Read the label carefully and apply when temperatures are below 85°F and above 32°F.

Fall is an excellent time for planting new shrubs and trees, including camellias, in all but the most northern areas of the camellia belt. Planting in the fall reduces stress on the plants and allows them to become established before the hot weather of summer. Although the upper plant is dormant during the winter season, the roots will grow and give the plants an advantage over those planted the following spring. After setting out new plants it is wise to apply a 2-3 inch layer of mulch as a protection for the plant roots. Pine straw, pine bark, or various other organic matter makes a good mulch. Organic mulches provide protection as well as nutrition for the plant as they decompose.

A nursery list of camellia sources is now available for ACS members who send a SASE to Headquarters. This list has been compiled over a period of several months. However, I am sure it is far from complete and I would love to add

additional nurseries when informed. Please keep me up to date.

Slide sets are available for local club programs. Check your August issue of the *Camellia Journal* for a listing of the available slide sets. They are available on a first come, first serve basis. It is helpful to include a second choice should your first already be booked for a program. Also on schedule is a Workshop entitled

"Camellia Care Through the Year". This course will cover all aspects of basic camellia culture from purchasing a plant to fertilizing, pruning, and grafting. The date of the workshop is November 19 and will meet at ACS Headquarters from 1:00 until 4:00 p.m. The cost of the workshop is \$10.00 for members and \$13.00 for non-members. All participants will receive a camellia plant to take home.

Please send in your registration early.

The gardens at Massee Lane have completed a beautiful summer although the drought was severe at times. Our irrigation system kept most of the areas well watered and much additional time was given to moving portable sprinklers. The camellias have a good bud set and are going into the winter season in good condition. The roses have been lovely and will soon be dormant as the camellias come into their glory. The Japanese Garden is quite an attraction all year and was the planned site for a Labor Day wedding until rain forced the wedding indoors. We hope that many of our members will plan to stop at Massee Lane whenever possible. We are open and active throughout the year although the gardens are their loveliest during the late winter and early spring. Hope to see you here!

—ACS—

40th Anniversary Campaign

The following have made pledges or contributed to the Campaign since the August 1988 *Journal*.

Yoshiaki Andoh
Avon Garden Club—Atlanta
Gainesville Garden Club
Gulf Coast Camellia Society
Dr. & Mrs. Hilery E. Hanna
Mr. & Mrs. W. Woodrow Harris
Gordon P. Howell
O. L. Jacobson
Mr. & Mrs. Alfus Johnson
Mr. & Mrs. Robert P. Kellas
Mr. & Mrs. Walter Krzymowski
Middle Tennessee Camellia Society
Mr. & Mrs. W. T. Shepherd
Mrs. C. E. Turner, Jr.
Spencer C. Walden, Jr.
West Carolina Camellia Society

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Guests relaxing under the shade trees after enjoying a delicious picnic at the lakeside home of Tyler and Buck Mizzell. Photo by Dave Scheibert.



Camellia lovers enjoying the hospitality of Tyler and Buck Mizzell on the shore of Lake Marion. The famous Beaufort Stew was enjoyed by all. Photo by Dave Scheibert.

ACS Gift Shop

(See photos, outside back cover)

BAVARIAN CHINA (Figure 1) Fine Bavarian China. Plates, mugs, cups and saucers sold in sets of six decorated with six different named camellia varieties.

8 inch Dessert Plates, set of 6	\$45.00 (\$7.50 each)	not pictured
10 inch Dinner Plates, set of 6	\$90.00 (\$15.00 each)	
12 inch Platter	\$25.00	not pictured
12 inch Cake Stand on Pedestal	\$32.00	not pictured
Bonbon/Coasters, set of 6	\$27.00 (\$4.75 each)	not pictured
Mugs, set of 6	\$50.00 (\$8.50 each)	not pictured
Cups and Saucers, set of 6	\$65.00	
6½ inch Cachepot	\$35.00	not pictured
8 inch Bowl	\$45.00	not pictured
Coffee Pot	\$35.00	
Sugar and Creamer	\$27.50	

CAMELLIAS (Figure 2)

Camellia on Oak Base, Pink	\$13.00
Glazed Camellia, White	\$8.00
Round Box with Camellia, 3 inch tall with Floral Potpourri	\$13.00

PLATE & NAPKIN RINGS (Figure 3)

Green Glaze Open Work Porcelain Plate Edged with Gold 2 Sculpted Pink Camellias & Bud 6 inch dia.	\$25.00
Camellia Napkin Rings	\$ 4.25

PLACE MATS & COASTERS (Figure 4)

Camellia Place Mats, Cork Backed, Clean with Damp Cloth, set of 4	\$28.00
Camellia Coasters, Cork Backed, Clean with Damp Cloth, set of 6	\$12.00

CAMELLIA GIFTWARE (Figure 5)

Red/Blue Covered Dish, 4¾ inch dia.	\$12.00
Red/Blue Plate, 7½ inch dia.	\$ 8.50
Red/Blue Bowl, 6 inch dia	\$ 8.00

HAND PAINTED PORCELAIN FROM PORTUGAL (Figure 6)

Floral Candlesticks, 7 inch pr.	\$20.00
Floral Finger Vase, 8 inch	\$18.00
Floral Pitcher, 7 inch	\$18.00

A Gift On The Occasion Of

Occasion _____

Name _____

\$ _____

Given by _____

Name _____

Address _____

Card to be sent to person designated above at

Address _____

Zip _____

Make check payable to:

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Christmas Ornament

New lead crystal Christmas ornament
with etched camellia. Comes beautifully
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box.

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Name on Card _____

Card Account Number _____

Expiration or "Good Thru" Date of Card _____

Signature of Authorized Buyer _____

PACKING & DELIVERY

For Orders Totaling Include

Up to \$9.99	\$2.15
\$10.00-19.99	\$3.50
\$20.00-29.99	\$4.35
\$30.00-39.99	\$5.25
\$40.00-49.99	\$6.55
\$50.00-74.99	\$8.00
\$75.00-99.99	\$8.80
\$100.00-149.99	\$11.00

Total Merchandise Price

Add applicable Sales Tax 5% for shipment to
Georgia.

Add Packing and Delivery charges (see left)
on **Total Merchandise Price** only.

TOTAL

Over \$150.00 actual cost will be added to bill
or credit card.

From the Desk of the Executive Director

All of us at Headquarters have been watching with pride as the Annabelle Lundy Fetterman Educational Museum progresses. It is truly going to be a fine structure and one that will add much to our existing facilities. It is a much needed building and I assure you, it will be put to good use. The Dedication will be on Saturday, April 8, 1989 as a highlight of the Annual Convention. I hope that you will make your plans to attend this meeting. We have been very busy making arrangements for this convention and many interesting events are planned.

I am happy to report that we have had a large number of visitors during the summer. At one time, as the camellia season ended, so did our visitors. ACS is very much involved in the Georgia Tourism program and this participation has increased visitation to the gardens. We especially enjoy having our members visit throughout the year. The addition of the Rose Garden adds much interest for the late spring, summer and fall visitor. Many annuals and hanging baskets have been added to give much color to the summer garden. The Headquarters, with its many treasures, the Stevens Taylor Gallery of Boehm porcelain and the Japanese Garden can be enjoyed all year. We are anxiously awaiting the camellia season when the gardens and the greenhouse will sport hundreds of blossoms of our favorite flower.

In late September, Georgia Governor and Mrs. Joe Frank Harris were hosts to twenty Southern Governors and their wives. ACS was well represented in the selection of gifts for these distinguished guests. Our lovely carry bags with the appliqued camellias held many of the gifts including our camellia and peach notepaper. Each room featured one of our decorative bowls with a beautiful paper camellia made by Donna and Bill Shepherd, Helen Miller and Mickie Matthews. Twenty fresh camellia blooms, grown at the Headquarters, were taken to the Cloister Hotel at Sea Island. We were delighted that Mrs. Harris made such wise choices for these guests.



ANN BLAIR BROWN

If you are an ACS accredited judge and are in good financial standing, you should have received your green ACS Judge's card. If you have not received yours, please let us know as soon as possible and we will send this card to you.

Congratulations to Dr. Herbert Raccoff, chairman of the Exhibition and Awards Committee and members of that committee for the fine job that they have done in reviewing and revising the ACS Rules and Regulations for Judging an ACS camellia show. These dedicated people have spent untold hours reading, writing, telephoning and revising this material. There are a number of changes which were recommended by members, approved by the committee and the ACS Board of Directors. The revised version of August 15, 1988 will be printed in the 1988 YEARBOOK. Since these newly revised rules will not be in the hands of the judges until well into the camellia season, it has been decided to print them in book form and send a copy to each ACS accredited judge and each currently enrolled novice judge. The booklet will be the size of the Roster and will have a green cover to distinguish it from the Roster. All changes will be in italics so that you might note the revisions or

changes easily. I urge you to read through the entire book as soon as you receive it. Since this was not included in the budget, we are asking for a small donation to cover the cost of the publication, the postage and handling. This is strictly a VOLUNTARY contribution. No one is obligated to send a contribution for this book. I think that you will find the Rules and Regulations in this form very helpful.

I hope to see you in California at the Fall ACS meeting and Camellia-rana and along the camellia trail. Here's hoping that this will be the best year ever for our favorite hobby.

ACS

Ante Bellum Shadows

JESSICA FREEMAN

Crescent City season
Amusive company
Begin the winter season
Nobly.

The women costumed
Tradition is conveyed
Glowing intonations
Camellia motif bade
Respectable strollers
Low crescent moon
Petal mirror image
Tenor's steady tune.

Radiated patterns of
Winter's finest flower
Southern circuit
end-of-season
advancing Time
perfect Reason
gradations; shadows
partial light noble
party Orleans bright.

EDITOR'S NOTE: Jessica Freeman was honored with the Golden Poet Award for 1988 by the World of Poetry's Board of Directors for her poem *Oakleaf Address*. Congratulations!

ACS GIFTWARE



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6