

THE
Camellia
REVIEW

A Publication of the Southern California Camellia Society



We salute Descanso Gardens as it celebrates its 50th anniversary as
a public garden!

This is a view of the Tea House in spring.

Some show winners for 2008



How many of these blooms do you recognize?
Check your answers on page 19.

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January -March, 2008

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COVER PHOTO

Tea house at Descanso Gardens
in the springtime

Cover Photos by Bradford King

Have you visited our new website
www.socalcamellias.org
Kristina Hooper has done a great
job!

AN INVITATION TO JOIN THE SOUTHERN CALIFORNIA CAMELLIA SOCIETY

Southern California Camellia Society will welcome you as a member.
Annual membership — \$25.00 Includes subscription to *The Camellia
Review* (three issues per year).

New Member	\$25.00	Sponsoring Member	\$50.00
Regular Member	\$25.00	Sustaining Member	\$100.00
Patron Member		\$150.00	

Send payment for dues to the Treasurer/Membership Chairman.

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2006 Camellia Nomenclature with over 150 pages describing more than 4,000 varieties is available at a cost of \$12 per copy mailed to United States address and \$14 per copy if mailed outside the US. Copies can be ordered by sending a check payable to

Southern California Camellia Society
c/o Bobbie Belcher,
40641 Via Amapola, Murrieta, CA 92562.

THOUGHTS FROM THE EDITOR

It is interesting to stroll through the archives of *The Camellia Review* and see how often we come face-to-face with those iconic men (Boddy, Lammerts, Asper, Peer and others) of the 30's, 40's and 50's who made such an impact on the world of camellias and, of course, planted the seeds for Descanso Gardens.

Now. Some 50 years later we enjoy the beauty and majesty of one of the world's most notable gardens. It seems appropriate that the Review stand at attention and salute as Descanso Gardens celebrates its 50th anniversary as a public garden. You will appreciate Dr. King's article entitled "Under the Oaks at Descanso" as he bridges historical Descanso with the beauty of today's Camellia Forest nestled under the gigantic California live oaks.

To complete the celebration, Wen Wang has written a most interesting paper on his current research related to irrigation parameters for more healthy camellias. He is also scientifically investigating methods of reducing the number of closely planted camellias in order to have a beneficially balanced canopy.

While we have not yet assigned "icon status" to Wayne Walker, Chief Horticulturist at Descanso Gardens, he is a great friend to all camellia hobbyists. Four of the nine camellia shows in Southern California are held at Descanso and Wayne and his guys are ever-ready to help in whatever way they can. We offer our heartfelt thanks to Wayne and his team.

Now a word to my fellow competitive camellia hobbyists—try to schedule any surgeries at times other than during the camellia show season. I don't know how you handle emergency surgery but, let me assure you, it takes the spice out of the competition I have always enjoyed. Being an optimist—just wait until next year!

—Mel Belcher, Editor

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THANKS FOR OUR GENEROUS MEMBERS

Patron Members

Al Latham
Dean and Susan Turney
Christy Walters

Sustaining Members

James Oates

Sponsoring Members

Dudley and Lois Boudreaux
Travis and Mary James
Frank and Barbara Jameson
Ruth Lavine
Rodger and Vivian Skirvin
W. T. and Sally Slick
Gene Snooks
Jim and Dorothy McQuiston

UNDER THE OAKS AT DESCANSO GARDENS

Bradford King
Arcadia, California

Did you know that Descanso Gardens in La Canada/Flintridge has the largest collection of camellias in North America?

The more than 30,000 camellia plants are in a California native habitat growing under a canopy of Coastal Live Oaks.

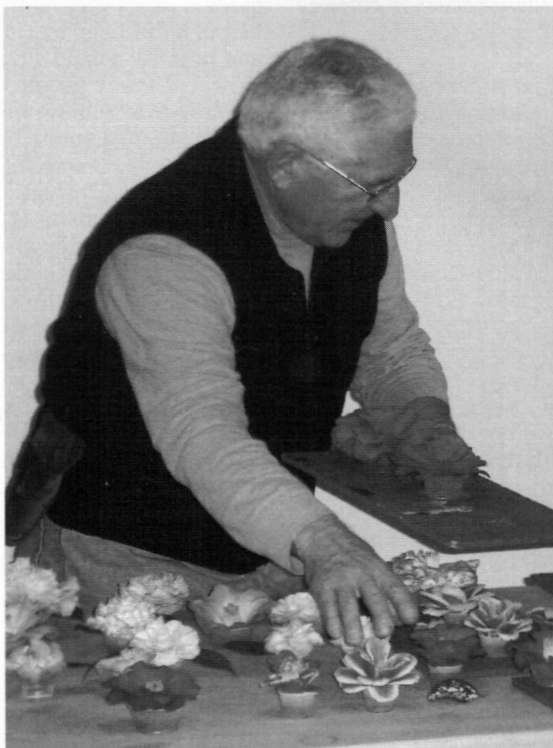
The Camellia Forest is the signature collection at Descanso Gardens with a blooming season from fall to sprig, peaking in February. However, the gardens offer its 300,000 visitors a year much to enjoy through out the year. In spring, the tulips and daffodils poke their heads sunward giving locals a taste of an East coast spring. The nine acre California Garden is

planted with tough native plants against a backdrop of chaparral covered hills. Theodore Payne, a noted horticulturist, designed it to illustrate what Southern California looked like before it was developed for ranching, citrus crops and homes.

The Rose Garden was begun by Dr. Walter Lammerts in the mid 1940 s. He and Manchester Boddy, the owner

of Rancho del Descanso as it was called then, envisioned a rose garden that reflected the history of the rose. The five acre rose garden was revitalized in 1994 with new rose arbors, additions to the collection such as the Austin roses, keeping the historical theme intact.

However, the camellia is Queen of the Descanso Gardens. In 1937 Manchester Boddy purchased 125 acres of land in La Canada where he raised cattle and began planting camellias with the intention of developing them for the cut flower industry. By 1941 he had amassed a collection of 600 camellias. He and his family lived in a 22 room mansion built in the then popular Regency style.



We see Southern Cal President Brad King in this position a lot during the camellia shows in Southern California.

As the camellia collection continued to expand, Boddy hired J. Howard Asper, a camellia specialist, as curator and chief propagator. Together they developed a commercial camellia plantation to serve the cut flower industry. Camellias became the flower of choice for corsages for the well-dressed ladies of the time.

Boddy added 60,000 camellias to his inventory during the forced relocation of Japanese Americans to internment camps during World War II. Boddy was an admirer of Asian culture and the Japanese in America. He purchased the entire inventory of two Japanese camellia growers when they were forced into the camps. J. W. Uyematsu owned and operated Star Nurseries which was the largest and most successful in California and F. W. Yoshimura whose Mission Nursery continues today as San Gabriel Nursery.

Howard Asper supervised the planting of thousands of these camellias beneath the oaks of Rancho del Descanso. He grafted dozens of varieties onto Eureka rootstock to enlarge the camellia plantation that served their cut flower business.

In 1945 Dr. Walter Lammerts, of rose hybridizing fame, joined Boddy and Asper at Descanso. They admired the giant flowers of camellia reticulata varieties of 'Pagoda', 'Captain Rawes', 'Shot Silk' and 'Lionhead'. They envisioned hybridizing with them but none were available outside of China.

Dr. Lammerts was able to identify a botanist in the Yunnan Province of China who might be able to help. In early 1948, Professor T. Tsai, at Kuming Institute, wrote that 20 different cultivars of *C. reticulata* were available. These 20 varieties were shipped to San Francisco, but only 15 survived.

Ralph Peer of Los Angeles also imported twenty plants of which only three survived. Fortunately, two of these that made it were cultivars that Descanso didn't have. Apparently, some of the fifteen original survivors were duplicates so Descanso Gardens imported a further shipment of

reticulata that resulted in fourteen new and different cultivars available in the west.

C. reticulata thrived in Southern California and today Descanso Gardens maintains many of the original *reticulatas* from Yunnan China.

Wayne Walker, chief horticulturist, provides a very lively and interesting walking tour of the camellia forest. When he was my guide, I saw a very large salmon pink bloom hybridized by Howard Asper and proudly named after himself. However, many people believe that the crowning achievement of Asper's career was 'Valentine Day', a large formal double bloom that also is salmon pink. The legacy of Boddy, Asper and Lammerts as camellia growers and hybridizers continues today at Descanso Gardens. This is illustrated by the following *C. japonica* found in the gardens. 'Bernice Boddy' is named for Manchester Boddy's wife. It is a lovely medium semidouble pink with deeper pink tones under the petals. 'Mrs. D.W. Davis Descanso' is a sport of 'Mrs. D.W. Davis' discovered in 1970 at Descanso Gardens. It is a blush pink very large peony flower that continues to be seen at camellia shows today.

Descanso Gardens has earned accreditation as a museum of living collections from the American Museum Association. In 2001 The International Camellia Society recognized Descanso Gardens as an International Camellia Garden and this year Descanso is celebrating its 50th anniversary of its founding as a public garden.

Descanso Gardens is a peaceful place to visit and enjoy a stroll through its acres of camellia forest.

Every garden is unique with a multitude of choices in soils, plants and themes. Finding your garden theme is as easy as seeing what brings a smile to your face.

- —Teresa Watkins, *Gardening With Soul*

A PILOT PROJECT FOR PROMOTING TREE HEALTH IN DESCANSO'S CAMELLIA/OAK FOREST

A Camellia Thinning and Irrigation Study Descanso Gardens

Wen P. Wang

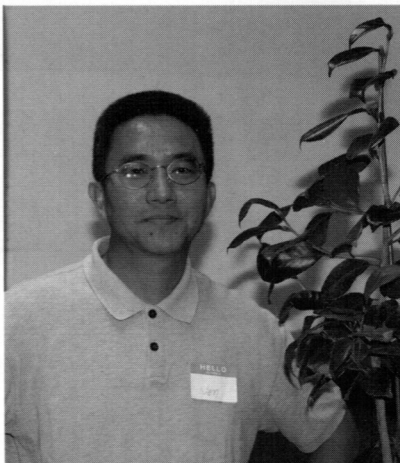
Curator of plant collections, Descanso Gardens

Descanso Gardens is well known for its world famous camellia collection which was established by the newspaper publisher and horticultural entrepreneur Mr. Manchester Boddy back in the 1940's. At present, an estimated number of 30,000 camellia plants are growing in the approximately 20 acres of the garden property under the canopy of coast live oak (*Quercus agrifolia*). Over the decades, after the garden ownership was transferred to the county of Los Angeles and placed under the management of its park service, the camellias have been allowed to grow freely, partly due to a change of nature in the camellia planting from a plantation type to a park setting. Naturally, as a result of high planting density and competition for light, many of the camellias are not in good health condition. Over crowded growing condition has caused many camellias to become weak and lanky and has negatively affected their flowering performance. Another horticultural issue affecting the health of the camellias, and potentially the live oaks, at Descanso is irrigation. Over irrigation can promote soil-bourn diseases caused by some species of *Phytophthora* to the camellias and the oaks. On the other hand, camellias can suffer but can survive to bloom again.

In order to promote the health condition of the camellias, and possibly the oaks, a pilot project has

been initiated by the Descanso Garden Guild to investigate ways to optimize cultural practices for growing healthier camellia.

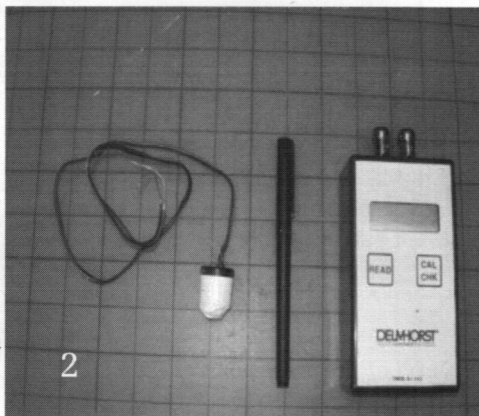
This pilot project has two main goals. The first one is to see if a thinning practice will invigorate the stressed camellias. One hundred and thirty-five camellias, primarily 'Pink Perfection', 'Purity', and some unknown seedlings, have been removed from a total of four hundred and forty-eight camellias at the study site which is located south of the Japanese Tea Garden and is approximately 14,000 square feet.



Fifteen of the remaining camellias are selected for evaluation. Yearly photographic comparison will be used to evaluate the camellias' growth response to increased growing space and light on their bare stems (see picture 2). The other goal for this study is to test a soil water monitoring method which might be practical and useful in fine tuning the current irrigation practice in the forest. The soil water monitoring method has three components - gypsum blocks, soil probe, and human judgment. Gypsum block sensors are used for measuring soil water potential and to help setting irrigation frequency and duration.

The selected gypsum blocks for this study are read by a handheld meter, and it takes only a few seconds

to read each of the sensors (see picture 1. The sensors will be installed at two depths. One depth is 6 inches below soil surface, and the other depth is 24 inches. For each of the fifteen camellias, a total of six sensors will be planted, with three of them at 6 inches and the other three at 24 inches below soil surface. The ones planted at 6 inches deep are used to aide the irrigation scheduling, but the ones planted at 24 inches deep are intended for learning about the soil water status during the summer months at that particular depth resulted from our winter precipitation. Soil probing with a soil coring tool and observation



on growth performance will be used in conjunction with the sensors in setting irrigation schedule.

This pilot project is a learning process and will last for three to five years. Hopefully at the end of this study some practical information will be gained and useful knowledge employed in the future to better care for the precious horticultural assets which make Descanso special.

CAMELLIA STATIONERY

Our beautiful camellia notecards are still available in sets of eight for \$6.00 including tax and shipping. Folks who use them and re-order tell us how truly lovely they are. They make wonderful gifts for your fellow camellia lovers or those you are trying to get interested in this great hobby! You can even order them for your own use. They also look beautiful in frames. Cards can be ordered through Dorothy Grier, 13229 Pipeline Avenue, Chino, CA 91710 (909) 628-1380. Make your check payable to SCCS.

If any camellia society would like to use these cards as fund raisers, orders for 25 or more sets are priced at \$5.00 each, including tax and shipping.

PACIFIC CAMELLIA SOCIETY
43rd Annual Camellia Show
Descanso Gardens
January 12 and 13, 2008

Japonica—Large/Very large

Best Single	'Showtime'	Victor & Linda Rodriguez
Runner-up Single	'Han-Ling Snow'	Les & JoAnn Brewer
Court of Honor Single	'Tata'	Linda Troyer
Best Tray of 3	'Tiffany'	Bob & Marilee Sheriff
Runner-up Tray of 3	'Snow Chan'	Joe & Linda Turner
Court of Honor Tray of 3	'Kramer's Delight'	Mel & Bobbie Belcher

Special Culture

Best Single	'Miss Charleston Var.'	Don & Marilee Gray
Runner-up Single	'Royal Velvet'	Jac Fagundo
Court of Honor Single	'Mathotiana Supreme'	Don & Marilee Gray
Best Tray of 3	'Miss Charleston Var.'	Don & Marilee Gray
Runner-up Tray of 3	'Grand Prix'	Brad & Lynn King
Court of Honor Tray of 3	'In The Red'	Don & Marilee Gray

Japonica—Medium

Best Single	'Betty's Beauty'	Steve & Ann Dashsiell
Runner-up Single	'Margaret Davis'	Jac Fagundo
Court of Honor Single	'Wildfire'	Brad & Lynn King
Best Tray of 3	'Happy Harlequin'	Don & Marilee Gray
Runner-up Tray of 3	'Betty's Beauty'	Steve & Ann Dashsiell
Court of Honor Tray of 3	'Firedance Var.'	Dale & Mary Kay Mittag

Special Culture

Best Single	'Betty Foy Sanders'	Brad & Lynn King
Runner-up Single	'Nuccio's Pearl'	Don & Marilee Gray
Court of Honor Single	'White Bouquet'	Brad & Lynn King
Best Tray of 3	'In The Red'	Don & Marilee Gray
Runner-up Tray of 3	'Cloisonne'	Mel & Bobbie Belcher
Court of Honor Tray of 3	'Magnoliaeflora'	Brad & Lynn King

Japonica—Miniature/Small

Best Single	'Red Hots'	Jac Fagundo
Runner-up Single	'Tama Peacock'	Brad & Lynn King
Court of Honor Single	'Maroon and Gold'	Jac Fagundo
Best Tray of 3	'Red Hots'	Lindsey Brewer
Runner-up Tray of 3	'Tama Peacock'	George & Karen Harrison
Court of Honor Tray of 3	'Kewpie Doll'	Don & Mary Bergamini

Special Culture

Best Single	'Man Size'	Don & Marilee Gray
Runner-up Single	'Little Michael'	Mel & Bobbie Belcher
Court of Honor Single	'Ann Clayton'	Don & Mary Bergamini
Best Tray of 3	'Man Size'	Don & Marilee Gray
Runner-up Tray of 3	'Maroon and Gold'	Brad & Lynn King
Court of Honor Tray of 3	'Kewpie Doll'	Don & Mary Brgamini

Reticulata or Reticulata Hybrid

Best Single	'Ruta Hagmann'	Mel & Bobbie Belcher
Runner-up Single	'Betty Ridley Var.'	Don & Mary Bergamini
Court of Honor Single	'Frank Houser'	Brad & Lynn King

Non-Reticulata Hybrid

Best Single	'Buttons 'N Bows'	Bob & Mary Sheriff
Runner-up Single	'Waltz Time Var.'	Mel & Bobbie Belcher
Court of Honor Single	'Joe Nuccio'	Steve & Anne Dashiell
Best Tray of 3	'Paper Dolls'	Les & JoAnn Brewer
Runner-up Tray of 3	'Freedom Bell'	Tom & Dody Gilfooy
Court of Honor Tray	'Spring Daze'	Jac Fagundo

Special Culture

Best Single	'Island Sunset'	Brad & Lynn King
Runner-up Single	'Nicky Crisp'	Don & Marilee Gray
Court of Honor Single	'Coral Delight Var.'	Don & Mary Bergamini

Species

Best Single	'Shibori Egao'	Les & JoAnn Brewer
Runner-up Single	'Egao'	Mel & Bobbie Belcher
Court of Honor Single	'Shishi Gashira'	Don & Marilee Gray
Best Tray of 3	'Egao'	Brad & Lynn King
Runner-up Tray of 3	'Yuletide'	George & Karen Harrison
Court of Honor Tray of 3	'Shibori Egao'	Don & Marilee Gray

Collector's Tray of 3 Mixed Varieties

Best Tray	'Han-Ling Snow', 'Nuccio's Pearl', 'Paper Dolls'	Les & JoAnn Brewer
Runner-up Tray	'Elegans Splendor', 'Nuccio's Pearl', 'Kewpie Doll'	Don & Marilee Gray
Court of Honor Tray	'Steve Blount Var.', 'Rudolph Var.', 'Marchioness of Salisbury'	Don & Mary Bergamini Don & Mary Bergamini

Trays of 6

Best Tray	'Happy Harlequin', 'Elegans Splendor', 'Debutante', 'Elizabeth Weaver', 'Can Can', 'Mrs. George Bell'	Don & Marilee Gray
Runner-up Tray	'C. M. Wilson', 'Elegans Champagne', 'R. L. Wheeler', 'Katie', 'Patricia Ann', 'Tata'	Joe & Linda Tunner
Court of Honor Tray	'Coral Delight Var.', 'Herme', 'Shiro Chan', 'Betty Roy Sanders', 'Red Hots', 'Buttermint'	Lindsey Brewer

Old Timers Bloom

Best	'Herme'	Lindsey Brewer
Runner-up	'C. M. Wilson'	Joe & Linda Tunner
Court of Honor	'Debutante'	Dale & Mary Kay Mittag

Seedling

Best		Don & Mary Bergamini
Runner-up		Adele Arrowsmith

Novice

Best 4" or more	'Elizabeth Dowd Silver'	Joe & Lynne Thompson
Runner-up 4" or more	'Nuccio's Bella Rossa Var.'	Carly Fagundo
Best less than 4"	'Debutante'	Joe & Lynne Thompson
Runner-up less than 4"	'Magnoliaeflora'	Joe & Lynne Thompson
Court of Honor less than 4"	'Nuccio's Gem'	Joe & Lynne Thompson

ORANGE COUNTY CAMELLIA SOCIETY
8th Annual Camellia Show
January 19 and 20, 2008

Japonica—Large/Very Large

Best Single	'Chow's Han-Ling'	Carol Stickley
Runner-up Single	'Kramer's Supreme'	Victor & Linda Rodriguez
Court of Honor Single	'Henry E. Huntington'	Joe & Linda Tunner
Best Tray of 3	'Han-Ling Snow'	Les & JoAnn Brewer
Runner-up Tray of 3	'Snow Chan'	Joe & Linda Tunner
Court of Honor Tray of 3	'Dody's Delight'	Tom & Dody Gilfoy

Special Culture

Best Single	'Elegans Splendor'	Don & Marilee Gray
Runner-up Single	'Miss Charleston Var.'	Don & Marilee Gray
Court of Honor Single	'Mrs. D. W. Davis'	Carol Stickley
Best Tray of 3	'Miss Charleston Var.'	Don & Marilee Gray
Runner-up Tray of 3	'Mathotiana Supreme'	Don & Marilee Gray
Court of Honor Tray of 3	'Grand Prix'	Brad & Lynn King

Japonica—Medium

Best Single	'Rudy's Magnoliaeflora'	Les & JoAnn Brewer
Runner-up Single	'Firedance'	Les & JoAnn Brewer
Court of Honor Single	'Firedance Var.'	Don & Marilee Gray
Best Tray of 3	'Firedance Var.'	Dale & Mary Kay Mittag
Runner-up Tray of 3	'Magnoliaeflora'	Beth Stone
Court of Honor Tray of 3	'Happy Harlequin'	Don & Marilee Gray

Special Culture

Best Single	'Cherries Jubilee'	Don & Marilee Gray
Runner-up Single	'Rudy's Magnoliaeflora'	Carol Stickley
Court of Honor Single	'Black Magic'	Don & Marilee Gray
Best Tray of 3	'Nuccio's Carousel'	Brad & Lynn King
Runner-up Tray of 3	'Cherries Jubilee'	Don & Marilee Gray

Japonica—Small

Best Single	'Red Hots'	Les & JoAnn Brewer
Runner-up Single	'Maroon and Gold'	Jac Fagundo
Court of Honor Single	'Tinsie'	Don & Mary Bergamini

Special Culture

Best Single	'Dahlohnega'	James Fitzpatrick
Runner-up Single	'Maroon and Gold'	Brad & Lynn King
Court of Honor Single	'Red Hots'	James Fitzpatrick

Japonica—Miniature

Best Single	'Walker's Pink'	Don & Mary Bergamini
Runner-up	'Tinsie'	Don & Mary Bergamini
Court of Honor Single	'Grace Albritton'	Carol Stickley

Special Culture

Best Single	'Mansize'	Don & Marilee Gray
Runner-up Single	'Trinket'	Don & Marilee Gray
Court of Honor Single	'Flynn Sans'	Don & Mary Bergamini

Japonica—Miniature/Small

Best Tray of 3	'Buddy Variegated'	Don & Mary Bergamini
Runner-up Tray of 3	'Tama-No-Ura'	Julius & Dorothy Christinson

Court of Honor Tray of 3	'Red Hots'	Les & JoAnn Brewer
Special Culture		
Best Tray of 3	'Maroon and Gold'	Brad & Lynn King
Runner-up Tray of 3	'Little Michael'	Don & Marilee Gray
Court of Honor Tray of 3	'Tama-No-Ura'	Don & Mary Bergamini
Reticulata/Reticulata Hybrid		
Best Single	'Ruta Hagmann'	Carol Stickley
Runner-up Single	'Frank Houser'	Jac Fagundo
Court of Honor Single	'Valentine Day Var.'	Gene Snooks
Best Tray of 3	'Valley Knudsen'	Joe & Linda Tunner
Runner-up Tray of 3	'Royalty'	Dean Turney
Court of Honor Tray of 3	'Frank Houser'	Jac Fagundo
Special Culture		
Best Single	'Frank Houser Var.'	Don & Marilee Gray
Runner-up Single	'Ruta Hagmann'	Carol Stickley
Court of Honor Single	'Hulyn Smith'	Carol Stickley
Non-Reticulata Hybrid		
Best Single	'Waltz Time Var.'	Tom & Dody Gilfof
Runner-up Single	'Buttons 'N Bows'	Robert & Mary Sheriff
Court of Honor Single	'Coral Delight Var.'	Jac Fagundo
Best Tray of 3	'Freedom Bell'	Tom & Dody Gilfof
Runner-up Tray of 3	'Coral Delight Var.'	Brad & Lynn King
Court of Honor Tray of 3	'Paper Dolls'	Jac Fagundo
Special Culture		
Best Single	'Nicky Crisp'	Don & Marilee Gray
Runner-up Single	'High Fragrance'	Don & Marilee Gray
Species		
Best Single	'Shibori Egao'	Les & JoAnn Brewer
Runner-up	'Egao'	Tom & Dody Gilfof
Court of Honor Single	'Shiro Karako'	Victor & Linda Rodriquez
Best Tray of 3	'Grady's Egao'	Tom & Dody Gilfof'
Runner-up Tray of 3	'Egao'	Brad & Lynn King
Court of Honor Tray of 3	'Shibori Egao'	Don & Mary Bergamini
Collector's Tray of 3 Mixed Varieties		
Best Tray	'Han-Ling Snow', 'Nuccio's Pearl' 'Paper Dolls'	Les & JoAnn Brewer
Runner-up Tray	'Mrs. George Bell', 'Nuccio's Pearl' 'Buttons 'N Bows'	Don & Marilee Gray Don & Marilee Gray
Court of Honor Tray	'Fashionata', Mrs. George Bell', 'Little Michael'	Les & JoAnn Brewer
Best Seedling		Don & Mary Bergamini
Best Fragrant Bloom	'High Fragrance'	George & Karen Harrison
Old Timers		
Best	'Magnoliaeflora'	Beth Stone
Runner-up	'Herme'	Lindsey Brewer
Court of Honor	'C. M. Wilson'	Joe & Linda Tunner

Novice

Best Single	'Kanjiro'	Melanie Little
Runner-up Single	'Carter's Sunburst'	Tom Towey
Court of Honor Single	'Kramer's Supreme'	Tom Towey

Intermediate

Best Single	'Nuccio's Bella Rossa'	Peggy Rushing
Runner-up	'Kanjiro'	Melanie Little
Court of Honor Single	'Rudy's Magnoliaeflora'	Peggy Rushing

Opportunity is missed by most people
because it is dressed in overalls and looks like work.

—Thomas A. Edison

SOUTHERN CALIFORNIA CAMELLIA SOCIETY

60th Annual Camellia Show, Descanso Gardens

January 26 and 27, 2008

Japonica—Large/Very Large

Best Single	'Carter's Sunburst'	Dale & Mary Kay Mittag
Runner-up Single	'Charles Bettes'	Carol Stickley
Court of Honor Single	'Elizabeth Weaver'	Tom & Dody Gilfoy
Best Tray of 3	'High, Wide 'N Handsome'	Tom & Dody Gilfoy
Runner-up Tray of 3	'Nuccio's Bella Rossa'	George & Karen Harrison
Court of Honor Tray of 3	'C. M. Wilson'	Bill Lynn

Special Culture

Best Single	'Lady Laura'	Brad & Lynn King
Runner-up Single	'Elegans Supreme'	Don & Marilee Gray
Court of Honor Single	'Grand Prix'	Carol Stickley
Best Tray of 3	'Mathotiana Supreme'	Don & Marilee Gray
Runner-up Tray of 3	'Miss Charleston Variegated'	Don & Marilee Gray

Japonica—Medium

Best Single	'Mrs. George Bell'	Dale & Mary Kay Mittag
Runner-up Single	'Margaret's Joy'	Les & JoAnn Brewer
Court of Honor Single	'Margaret Davis'	Jac Fagundo
Best Tray of 3	'Firedance Variegated'	Dale & Mary Kay Mittag
Runner-up Tray of 3	'Herme'	Lindsey Brewer
Court of Honor Tray of 3	'Candy Apple'	Carol Stickley

Special Culture

Best Single	'Nuccio's Carousel'	Jac Fagundo
Runner-up Single	'Prima Ballerina'	Don & Marilee Gray
Court of Honor Single	'Glen 40 Variegated'	Brad & Lynn King
Best Tray of 3	'Nuccio's Carousel'	Brad & Lynn King
Runner-up Tray of 3	'In The Red'	Don & Marilee Gray

Japonica—Small

Best Single	'Demi-Tasse'	Julius & Dorothy Christinson
Runner-up Single	'Alison Leigh Woodroof'	Carol Stickley
Court of Honor Single	'Red Hots'	Les & JoAnn Brewer

Special Culture

Best Single	'Johnny's Folly'	Don & Mary Bergamini
Runner-up Single	'Fairy Fountain'	Don & Mary Bergamini
Court of Honor Single	'Maroon and Gold'	Brad & Lynn King

Japonica—Miniature

Best Single	'Flynn Sans'	Don & Mary Bergamini
Runner-up Single	'Cotton Tail'	Joe & Linda Tunner
Court of Honor Single	'Kewpie Doll'	Don & Marilee Gray

Special Culture

Best Single	'Kewpie Doll'	Don & Mary Bergamini
Runner-up Single	'Tinsie'	Don & Mary Bergamini
Court of Honor Single	'Trinket'	Don & Marilee Gray

Japonica—Small or Miniature

Best Tray of 3	'Red Hots'	Carol Stickley'
Runner-up Tray of 3	'Tama-No-Ura'	Julius & Dorothy Christinson
Court of Honor Tray of 3	'Tinsie'	Don & Mary Bergamini

Special Culture

Best Tray of 3	'Maroon and Gold'	Brad & Lynn King
Runner-up Tray of 3	'Tinsie'	Don & Mary Bergamini
Court of Honor Tray of 3	'Confetti Blush'	Don & Mary Bergamini

Reticulata or Reticulata Hybrid

Best Single	'Frank Houser'	Jac Fagundo
Runner-up Single	'Frank Houser Var.'	Brad & Lynn King
Court of Honor Single	'W. P. Gilley Var.'	George & Karen Harrison
Best Tray of 3	'Frank Houser'	Jac Fagundo
Runner-up Tray of 3	'Francie L.'	Gene Snooks
Court of Honor Tray of 3	'Valley Knudsen'	Joe & Linda Tunner

Special Culture

Best Single	'Frank Houser'	Don & Marilee Gray
Runner-up Single	'Queen Bee'	Don & Marilee Gray
Court of Honor Single	'Miss Tulare'	Jac Fagundo
Best Tray of 3	'Frank Houser'	Brad & Lynn King
Runner-up Tray of 3	'Dream Baby'	Don & Mary Bergamini

Non-Reticulata Hybrid

Best Single	'Waltz Time Var.'	Dale & Mary Kay Mittag
Runner-up Single	'Island Sunset'	Brad & Lynn King
Court of Honor Single	'Joe Nuccio'	Stephen & Anne Dashiell
Best Tray of 3	'Freedom Bell'	Carol Stickley
Runner-up Tray of 3	'Nicky Crisp'	Gene Snooks
Court of Honor Tray of 3	'Demure'	Joe & Linda Tunner

Special Culture

Best Single	'Nicky Crisp'	Don & Marilee Gray
Runner-up Single	'Pink Dahlia'	Don & Marilee Gray
Court of Honor Single	'Coral Delight Var.'	Don & Mary Bergamini

Species

Best Single	'Shibori Egao'	Les & JoAnn Brewer
Runner-up Single	'Egao'	Brad & Lynn King
Court of Honor Single	'Grady's Egao'	Don & Marilee Gray

Best Tray of 3	'Egao'	Carol Stickley
Runner-up Tray of 3	'Shibori Egao'	Don & Mary Bergamini
Court of Honor Tray of 3	'Star Above Star'	Brad & Lynn King
Old-Timers Bloom		
Best	'Debutante'	Dale & Mary Kay Mittag
Runner-up	'Magnoliaeflora'	Brad & Lynn King
Court of Honor	'Herme'	Steve & Nancy Mefford
Collector's Tray of 3 Mixed Varieties		
Best Tray		Don & Marilee Gray
Runner-up Tray		Brad & Lynn King
Court of Honor Tray		Les & JoAnn Brewer
Best Seedling	'Peachy'	Don & Mary Bergamini
Novice		
Best Medium, Miniature, Small	'Ave Maria'	Jason Flick
Intermediate		
Best Medium, Miniature, Small	'Ave Maria'	Jason Flick

SAN DIEGO CAMELLIA SOCIETY

61st Annual Camellia Show
February 2 and 3, 2008

Japonica—Large/Very Large

Best Single	'Snow Chan'	Don & Marilee Gray
Runner-up Single	'Guilio Nuccio's Variegated'	Michael Mathos
Court of Honor Single	'Han-Ling Snow'	Les & JoAnn Brewer
Best Tray of 3	'Tiffany'	Robert & Mary Sheriff
Runner-up Tray of 3	'Tata'	Julius & Dorothy Christinson
Court of Honor Tray of 3	'Guilio Nuccio'	Michael Mathos

Japonica—Medium

Best Single	'Grand Marshal Variegated'	Brad & Lynn King
Runner-up Single	'Betty Foy Sanders'	Brad & Lynn King
Court of Honor Single	'Nuccio's Pearl'	Les & JoAnn Brewer
Best Tray of 3	'Firedance Variegated'	Don & Marilee Gray
Runner-up Tray of 3	'Margaret Davis'	James Fitzpatrick
Court of Honor Tray of 3	'Betty Foy Sanders'	Brad & Lynn King

Japonica—Small

Best Single	'Red Hots'	Les & JoAnn Brewer
Runner-up Single	'Tama Electra'	Les & JoAnn Brewer
Court of Honor Single	'Baby Pearl'	Julius & Dorothy Christinson

Best Tray of 3	'Dahlohnega'	Don & Marilee Gray
Runner-up Tray of 3	'Red Hots'	Julius & Dorothy Christinson
Court of Honor Tray of 3	'Tama-No-Ura'	Julius & Dorothy Christinson
Japonica—Miniature		
Best Single	'Grace Albritton'	Les & JoAnn Brewer
Runner-up Single	'Kitty'	Julius & Dorothy Christinson
Court of Honor Single	'Something Beautiful'	Julius & Dorothy Christinson
Best Tray of 3	'Men's Mini'	Julius & Dorothy Christinson
Japonica—Special Culture		
Best	'Betty Foy Sanders'	Brad & Lynn King
Runner-up	'Miss Charleston Variegated'	Don & Marilee Gray
Court of Honor	'Lady Laura'	Brad & Lynn King
Reticulata or Reticulata Hybrid		
Best Single	'Moonrise'	Don & Marilee Gray
Runner-up Single	'Frank Houser'	Les & JoAnn Brewer
Court of Honor Single	'Valentine Day'	Dean Turney
Best Tray of 3	'Frank Houser'	Les & JoAnn Brewer
Runner-up Tray of 3	'Cornelian'	Michael Mathos
Court of Honor Tray of 3	'LASCA Beauty'	Dean Turney
Reticulata and Reticulata Hybrid—Special Culture		
Best	'LASCA Beauty'	Brad & Lynn King
Runner-up	'Frank Houser'	Don & Marilee Gray
Court of Honor	'Linda Carol'	Don & Marilee Gray
Non-Reticulata Hybrid		
Best Single	'Joe Nuccio'	Robert & Mary Sheriff
Runner-up Single	'Coral Bouquet'	Brad & Lynn King
Court of Honor Single	'Nicky Crisp'	Larry & Diane Perry
Best Tray of 3	'South Seas'	Les & JoAnn Brewer
Runner-up Tray of 3	'Coral Delight Variegated'	Brad & Lynn King
Court of Honor Tray of 3	'Taylor's Perfection'	James Fitzpatrick
Species		
Best	'Egao'	Les & JoAnn Brewer
Runner-up	'Shibori Egao'	Les & JoAnn Brewer
Court of Honor	'Shishi Gashira'	James Fitzpatrick
Best Fragrant	'High Fragrance'	Don & Marilee Gray
Collector's Tray of 3 Mixed Varieties		
Best Tray	'Little Michael', 'Betty's Beauty', 'Frank Houser'	Les & JoAnn Brewer
Runner-up Tray	'Little Michael', 'Pink Wings', 'Delores Edwards'	Don & Marilee Gray
Court of Honor Tray	'Han-ling Snow', 'Mrs. George Bell', 'Little Michael'	Les & JoAnn Brewer
Best 1-2 Year Old Grafted Plant	'Frank Houser Var.'	Gene Snooks
Best Camellia Plant in Bloom	'Red Hots'	Gene Snooks

Best Seedling

Julius & Dorothy Christinson'

Best Sport

Robert & Mary Sheriff

Novice

Best Bloom	'Herme'	Paul Slysh
Runner-up Bloom	'Kanjiro'	Paul Slysh
Court of Honor Bloom	'C. M. Hovey'	Paul Slysh

Intermediate

Best Bloom	'Guilio Nuccio Var.'	Donald & Martha Beckman
Runner-up Bloom	'C. M. Wilson'	Sandy Finding
Court of Honor Bloom	'Mrs. Tingley'	Donald & Martha Beckman

Blooms grown in San Diego County

Best	'Maroon and Gold'	Alan Greenspan
Runner-up	'Onetia Holland'	Sharon Lee
Court of Honor	'Shishi Gashira'	Donald & Martha Beckman

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SOUTHERN CALIFORNIA CAMELLIA SOCIETY

36th Annual Camellia Show, Huntington Gardens

February 9 and 10, 2008

Japonica—Large/Very Large

Best Single	'Han-Ling Snow'	Les & JoAnn Brewer
Runner-up Single	'Snow Chan'	Tom & Dody Gilfof
Court of Honor Single	'Junior Prom'	Jackie Randall
Best Tray of 3	'Royal Velvet'	Jac Fagundo
Runner-up Tray of 3	'High, Wide 'N Handsome'	Tom & Dody Gilfof
Court of Honor Tray of 3	'Tata'	Les & JoAnn Brewer
Best Tray of 5	'Snow Chan'	Les & JoAnn Brewer
Runner-up Tray of 5	'Kramer's Supreme'	Don & Marilee Gray
Court of Honor Tray of 5	'Grand Prix'	Brad & Lynn King

Japonica—Medium

Best Single	'Mrs. George Bell'	Dale & Mary Kay Mittag
Runner-up Single	'Cherries Jubilee'	Don & Marilee Gray
Court of Honor Single	'Margaret Davis'	Don & Marilee Gray
Best Tray of 3	'Haru-No-Utena'	George & Karen Harrison
Runner-up Tray of 3	'Wildfire'	Tom & Dody Gilfof
Court of Honor Tray of 3	'Happy Harlequin'	Don & Marilee Gray
Best Tray of 5	'Frank Houser'	Brad & Lynn King
Runner-up Tray of 5	'Mandalay Queen'	Gene Snooks

Japonica—Small

Best Single	'Red Hots'	Tom & Dody Gilfof
Runner-up Single	'Marchioness of Salisbury'	Les & JoAnn Brewer
Court of Honor	'Maroon and Gold'	Les & JoAnn Brewer

Japonica—Miniature

Best Single
Runner-up Single
Court of Honor Single

'Man Size'
'Grace Albritton'
'Lemon Drop'

Victor & Linda Rodriguez
Les & JoAnn Brewer
Don & Marilee Gray

Japonica—Small/Miniature

Best Tray of 3
Runner-up Tray of 3
Court of Honor Tray of 3
Best Tray of 5
Runner-up Tray of 5
Court of Honor Tray of 5

'Red Hots'
'Aoi Saygosyo'
'Maroon and Gold'
'Red Hots'
'Maroon and Gold'
'Tama-No-Ura'

Dale & Mary Kay Mittag
Jim & Dorothy McQuiston
Brad & Lynn King
Tom & Dody Gilfoy
Brad & Lynn King
Jackie Randall

Japonica—Special Culture

Best
Runner-up
Court of Honor

'Mabel Bryan'
'Showtime'
'Elegans Splendor'

Don & Marilee Gray
James Fitzpatrick
Don & Marilee Gray

Reticulata or Reticulata Hybrid

Best Single
Runner-up Single
Court of Honor Single
Best Tray of 3
Runner-up Tray of 3
Court of Honor Tray of 3
Best Tray of 5
Runner-up Tray of 5
Special Culture Singles

'Philip Mandarinich'
'Frank Houser'
'Valentine Day'
'Frank Houser'
'Valentine Day'
'Emma Gaeta Var.'
'Frank Houser'
'Mandalay Queen'

Gene Snooks
Jac Fagundo
Dean Turney
Les & JoAnn Brewer
Dean Turney
Brad & Lynn King
Brad & Lynn King
Gene Snooks

Best
Runner-up
Court of Honor

'Frank Houser'
'Linda Carol'
'Emma Gaeta Var.'

Brad & Lynn King
Don & Marilee Gray
Brad & Lynn King

Non-Reticulata Hybrid

Best Single
Runner-up Single
Court of Honor Single
Best Tray of 3
Runner-up Tray of 3
Court of Honor Tray of 3
Best Tray of 5
Runner-up Tray of 5
Court of Honor Tray of 5
Special Culture Singles

'Hot Stuff'
'Joe Nuccio'
'Autumn Jewel'
'Freedom Bell'
'Coral Delight Var.'
'Paper Dolls'
'Demure'
'Spring Daze'
'Buttons 'n Bows'

Gene Snooks
Steven & Anne Dashiell
Don & Marilee Gray
George & Karen Harrison
Les & JoAnn Brewer
Les & JoAnn Brewer
Joe & Linda Tunner
Jac Fagundo
Beth Stone

Best
Runner-up
Court of Honor

'Island Sunset'
'Freedom Bell'
'Taylor's Perfection'

Brad & Lynn King
Don & Marilee Gray
James Fitzpatrick

Species

Best
Runner-up
Court of Honor

'Grady's Egao'
'Star Above Star'
'Egao'

Tom & Dody Gilfoy
Kathy Holmes
Brad & Lynn King

Collector's Tray of 3 Mixed Varieties

Best Tray	'Dr. Clifford Parks', 'Rudolph', 'Little Slam'	Les & JoAnn Brewer
Runner-up Tray	'Moonrise', 'Elaine's Betty', 'Hishi-Karaito'	Don & Marilee Gray
Court of Honor Tray	'Han-Ling Snow', 'Betty's Beauty', 'Little Michael'	Les & JoAnn Brewer

Best Seedling

Tom & Dody Gilfoy

Novice

Best Large/Very Large	'Kramer's Supreme'	Thomas Vanila
Runner-up Large/Very Large	'Ragland Supreme'	Jeffrey Thurnher
Best Medium, Small, Miniature	'Nuccio's Gem'	Jeffrey Thurnher
Runner-up	'Hot Stuff'	Emma Fagundo

Intermediate

Best Medium, Small, Miniature	'Ace 'O Hearts'	Alan Greenspan
Runner-up	'Maroon and Gold'	Alan Greenspan

POMONA VALLEY CAMELLIA SOCIETY**61st Camellia Show****February 16 and 17, 2008****Japonica—Large/Very Large**

Best Single	'Carter's Sunburst'	Dale & Mary Kay Mittag
Runner-up Single	'Swan Lake'	Robert & Mary Sheriff
Court of Honor Single	'Royal Velvet Var.'	Jac Fagundo
Best Tray of 3	'Royal Velvet'	Don & Marilee Gray
Runner-up Tray of 3	'Kramer's Supreme'	Don & Marilee Gray
Court of Honor Tray of 3	'Han-Ling Snow'	Les & JoAnn Brewer
Best Tray of 5	'Kramer's Supreme'	Dale & Mary Kay Mittag
Runner-up Tray of 5	'Grand Prix'	Brad & Lynn King
Court of Honor Tray of 5	'C. M. Wilson'	Joe & Linda Tunner

Japonica—Medium

Best Single	'Margaret Davis'	Dale & Mary Kay Mittag
Runner-up Single	'Firedance Var.'	Nancy Kress
Court of Honor Single	'Nuccio's Gem'	Marvin & Virginia Belcher
Best Tray of 3	'Happy Harlequin'	Don & Marilee Gray
Runner-up Tray of 3	'Nuccio's Carousel'	Les & JoAnn Brewer
Court of Honor Tray of 3	'Ragland Supreme'	Doris Dermody
Best Tray of 5	'Margaret Davis'	Dale & * Mary Kay Mittag
Runner-up Tray of 5	'Ragland Supreme'	Marvin & Virginia Belcher
Court of Honor Tray of 5	'Firedance Variegated'	Don & Marilee Gray

Japonica—Small

Best Single	'Red Hots'	Marvin & Virginia Belcher
Runner-up Single	'Tama Peacock'	Kristina Hooper
Court of Honor Single	'Demi-Tasse'	George & Karen Harrison
Best Tray of 3	'Hishi-Karaito'	Les & JoAnn Brewer
Runner-up Tray of 3	'Red Hots'	Jane Brady

Court of Honor Tray of 3	'Pink Perfection'	Dale & Mary Kay Mittag
Best Tray of 5	'Hishi-Karaito'	Tom & Dody Gilfof
Runner-up Tray of 5	'Red Hots'	Jane Brady
Court of Honor Tray of 5	'Maroon and Gold'	Brad & Lynn King

Japonica—Miniature

Best Single	'Man Size'	Dale & Mary Kay Mittag
Runner-up Single	'Something Beautiful'	Marvin & Virginia Belcher
Court of Honor Single	'Little Michael'	Carol Stickley
Best Tray of 3	'Fircone Variegated'	Carol Stickley
Runner-up Tray of 3	'Man Size'	Carol Stickley
Court of Honor Tray of 3	'Little Michael'	Carol Stickley
Best Tray of 5	'Fircone Variegated'	Brad & Lynn King
Runner-up Tray of 5	'Men's Mini'	Julius & Dorothy Christinson
Court of Honor Tray of 5	'Lemon Drop'	Jac Fagundo

Reticulata or Reticulata Hybrid

Best Single	'Harold L. Paige'	Nancy Kress
Runner-up Single	'Ruta Hagmann'	Carol Stickley
Court of Honor Single	'Frank Houser Var.'	Carol Stickley
Best Tray of 3	'Frank Houser Var.'	Carol Stickley
Runner-up Tray of 3	'Frank Houser'	Les & JoAnn Brewer
Court of Honor Tray of 3	'W. P. Gilley'	Tom & Dody Gilfof
Best Tray of 5	'W. P. Gilley'	Tom & Dody Gilfof
Runner-up Tray of 5	'Frank Houser'	Tom & Dody Gilfof
Court of Honor Tray of 5	'Valley Knudsen'	Tom & Dody Gilfof

Non-Reticulata Hybrid—Medium/Large/Very Large

Best Single	'Hot Stuff'	Don & Marilee Gray
Runner-up Single	'Island Sunset'	Les & JoAnn Brewer
Court of Honor Single	'Joe Nuccio'	Robert & Mary Sheriff
Best Tray of 3	'Debbie'	Jac Fagundo
Runner-up Tray of 3	'Super Star'	Tom & Dody Gilfof
Court of Honor Tray of 3	'Waltz Time Var.'	Dale & Mary Kay Mittag
Best Tray of 5	'Super Star'	Tom & Dody Gilfof
Runner-up Tray of 5	'South Seas'	Les & JoAnn Brewer
Court of Honor Tray of 5	'Lucky Star'	Robert & Mary Sheriff

Non-Reticulata Hybrid—Small/Miniature

Best Single	'Spring Daze'	Jac Fagundo
Runner-up Single	'Buttons 'N Bows'	Don & Marilee Gray
Court of Honor Single	'Coral Delight Var.'	Don & Marilee Gray
Best Tray of 3	'Freedom Bell'	George & Karen Harrison
Runner-up Tray of 3	'Demure'	Joe & Linda Tunner
Court of Honor Tray of 3	'Coral Delight Var.'	Brad & Lynn King
Best Tray of 5	'Demure'	Joe & Linda Tunner
Runner-up Tray of 5	'Jackpot'	Brad & Lynn King
Court of Honor Tray of 5	'Bunny Ears'	Paul & Nancy Speaker

Special Culture

Best Japonica	'Miss Charleston Var.'	Don & Marilee Gray
Runner-up Japonica	'Elegans Splendor'	Don & Marilee Gray
Court of Honor Japonica	'Firedance Variegated'	Don & Marilee Gray
Best Reticulata	'Queen Bee'	Don & Marilee Gray

Runner-up Reticulata	'Harold L. Paige'	Brad & Lynn King
Court of Honor Reticulata	'Frank Houser'	Don & Marilee Gray
Best Non-Reticulata	'Pink Dahlia'	Don & Marilee Gray

Species

Best	'Egao'	Les & JoAnn Brewer
Runner-up	'Chekiangoleosa'	George & Karen Harrison
Court of Honor	'Star Above Star'	Brad & Lynn King

Collector's Tray of 3 Mixed Varieties

Best Tray	'LASCA Beauty', 'Cloisonne', 'Little Michael'	Carol Stickley
Runner-up Tray	'Showtime', 'Nicky Crisp', 'Buttons 'N Bows'	Nancy Kress
Court of Honor Tray	'Dr. Clifford Parks', 'Rudolph', 'Little Slam'	Les & JoAnn Brewer

Old Timers

Best	'Magnoliaeflora'	Beth Stone
Runner-up	'Tricolor Siebold'	Jane Brady
Court of Honor	'Herme'	Wayne & Valle Walker

Best Yellow Bloom

'Senritsu-Ko'	Brad & Lynn King
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Best Fragrant Bloom

'Sweet Emily Kate'	Steve & Nancy Mefford
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Best Sport

George & Karen Harrison

Novice

Best	'Pink Perfection'	Jeanne Walker
Runner-up	'Mathotiana'	Matt Grelling
Court of Honor	'Hishi-Karaito'	Jeanne Walker

Intermediate

Best	'Ave Maria'	Jason Flick
Runner-up	'Kramer's Supreme'	Douglas Purther
Court of Honor	'Covina'	Jason Flick



Gardening is a matter of your enthusiasm holding
up until your back gets used to it.

—Anonymous

I never had so many good ideas day after day as when
I work in the garden.

—John Erskine

How many blooms did you recognize?

1.	'Alison Leigh Woodroof'	7.	'Tama Electra'
2.	'Ave Maria Variegated'	8.	'Spring Daze'
3.	'Cloisonne'	9.	'Eleanor Martin Supreme'
4.	'Egao Corkscrew'	10.	'Francie L. Variegated'
5.	'Hara-No-Utena'	11.	'Freedom Bell'
6.	'Wildfire'	12.	'Grand Prix'

CLIMATE AND THE FLOWERING OF THE CAMELLIA

James Bonner,

California Institute of Technology, Pasadena, California

The camellia growing in the garden or lath house under natural conditions regularly alternates periods of flower-bud formation with periods during which these flower buds open to produce mature flowers. We will ask in this chapter: What are the precise factors of the environment which cause this alternation of flower bud formation and flower production? It is of obvious importance to know what environmental factors are of importance in camellia flowering, since by their recognition we may be able to hasten or delay flowering at will and be further able to interpret disturbances in normal flowering and correct the causes which had led to it.

Growth of the Plant

When a camellia seed germinates and produces a seedling, the young plant does not immediately proceed to produce flower buds. The bud at the apex of the growing shoot grows vegetatively for some time, producing a series of leaves as it grows. At the base of each of these new leaves is a bud which, if it develops, will produce more leaves and grow out into a branch. Such buds are therefore also vegetative buds. The seedling camellia must produce a fairly considerable number of leaves and attain a fairly substantial size before it becomes capable of producing flower buds. We do not yet know what it is that determines that the infant plant must attain this considerable size before it becomes capable of producing flowers. We do know, however, from the work of Lammerts that the production of flowers by seedling camellias can be greatly hastened if the plants are kept under warm conditions and illuminated by artificial light at night to maintain them under conditions of long day. In these circumstances the

seedling camellia grows continuously and rapidly and becomes capable of producing flowers within ten to eighteen months or so.

It is of interest to note that the growth of the camellia, the production of leaves, and the elongation of the stems are controlled by the length of day or daily exposure to light. Thus growth of most camellia varieties which have been investigated does not take place if the plants are maintained in sunlight 8 hours a day and then transferred to darkness for the remaining 16 hours. Under these conditions of short days, and regardless of the temperature, the plant remains in the dormant or winter like condition. On the other hand, camellias supplied with sunlight and illuminated with weak artificial light at night grow rapidly, producing long vegetative shoots and abundant leaves. This effect can often be noted with camellias grown out of doors and subjected to artificial light at night by accident, as by illumination by streetlights. This effect of length of day upon the growth of the camellia should be borne in mind by those who wish to grow camellia plants in the greenhouse, since to maintain rapid growth of the plant during the winter it is necessary to supply artificial light at night. This light may be supplied by ordinary incandescent lamps and need be only of low intensity. Much evidence indicates that 100 foot candles intensity, one hundredth that of full sunlight, is quite sufficient.

The influence of day length upon the growth of the camellia appear to be mediated through the plant growth substance, gibberellic acid. This material, which is essential to plant growth and which is normally manufactured in the plant, is apparently deficient in plants grown

under short days. Thus dormant camellia plants, in short day conditions can be caused to grow normally, just as though they were under day conditions, merely by the application of minute amounts of gibberellic acid to their leaves.

Flower Initiation

Flower initiation, the production of flower buds, consists of a disturbance in the regular succession of production of leaves and buds, characteristic changes occur in the buds which are produced at the base of each new leaf. These buds increase in diameter, remain short rather than elongated and, with time, produce the characteristic flower parts. The buds thus produced may remain quiescent for some time before they embark upon the further course of production of the visible flower. We know that two features of the environment, both climatic, determine the time of year at which flower buds are produced and the time of year at which the further development occurs. These two factors of the environment, which are of paramount importance to the flowering of the camellia, are the night temperature and the length of day. Other environment factors, such as the nutrition of the plant, the abundance of water supplied to it, and the light intensity during the day, all affect the vigor of the flowering of the camellia, and low light intensity in particular can serve to decrease greatly the number of flowers produced per plant. But these factors serve only to modify the response to temperature and day length, which are the all-important controlling factors in flower production.

Influence of Temperature on Flower Initiation

The initiation of flower buds by the camellia takes place, under otherwise favorable circumstances, only in relatively high temperatures. This has been shown by experiments

in which camellia plants were grown in greenhouses under conditions of controlled temperature. Thus, it was found that at a continuous temperature of 80° F. day and night, plants produce abundant buds. If the night temperature was lowered to 65° fewer buds were produced, while night temperatures of 60° almost completely suppressed bud formation. Temperatures lower than 60 completely prevented the formation of flower buds by the camellia varieties studied. That high temperature should be necessary for bud formation is in accordance with general observations on camellia culture. Thus, we know that flower buds appear in the late spring and early summer months and grow steadily through the summer, attaining in Southern California, for example, a diameter of 1/4 inch in August or September for the early flowering varieties, or perhaps by as late as October for the later flowering varieties.

Influence on length of Day on Flower Bud production

When camellia plants are placed under conditions otherwise favorable for flower-bud formation, including a suitable high temperature, they produce flower buds only when maintained under conditions of long day. In long days, but not in short days, the small buds at the base of the leaf begin to grow in length and to unfold the rudimentary leaves which are present in every bud. And on a certain proportion of such shoots the new buds become flower buds. Now let us ask how long a day is needed to cause the flowering response. Plants supplied with 8 hours of natural light a day and darkened for the remaining 16 hours produce few or no flower buds. Neither is 9 hours of light per 24 hours sufficient. McElwee has shown, however, that 13 hours of light per day causes abundant flowering. The day length optimal for flower-bud production by the

camellia has not been determined, but we may guess that it is somewhere above 12 hours and perhaps as high as 16.

That both high night temperatures and long day lengths are necessary to assure rapid and abundant flower-bud formation by the camellia is again in accord with general

experience, since we know flower-bud initiation in the camellia occurs normally during the summer when the days are long as well as warm.

Editor's note: The second half of Dr. Bonner's article will appear in the next issue of The Camellia Review.



CAMELLIA FERTILIZING

**Harvey F. Short, Coolidge Gardens
Pasadena, California**

June in Southern California brings us to the second lap on the fertilizer program for camellias. The April feeding has pushed plant expansion, along with very favorable weather conditions, to a record growth. Six to ten inch shoots are not uncommon.

The first feeding in our commercial growing here at Coolidge Gardens was of cottonseed meal only an average of a teaspoonful to a gallon container plant and a heaping tablespoonful, or a small handful, to a five-gallon container plant. The second feeding will be a balanced plant food of the following analysis: 4% nitrogen, 8% phosphorus and 4% potash, applied with approximately the same proportions as indicated for the cottonseed meal. The third feeding, which will follow about Aug. 1st to 10th, will be of cottonseed meal again. Note, of course, that all fertilizers are watered in well at the time of application.

As commercial growers, we find that we cannot deviate too much from a regulated feeding program that has proven successful through the years. We cannot afford to risk fertilizer burn, as it takes almost an entire season to clear damaged foliage on a plant; consequently the above plan usually withstands any sharp variations in weather as may suddenly descend upon us during the summer and fall months.

Our experience through many years of this feeding program has proven plants of hardy growth are developed, that it maintains a substantial, rich green foliage throughout the year, and produces plants nicely budded to please the trade. Regardless of care, following this type of feeding, a plant sold to the trade and transplanted in a garden continues to thrive in normal fashion without any setbacks. Plants developed with fertilizers producing soft, lush growth do not fare as well sometimes in their adjustment.

Studying the present appearance of all species Japonicas, Reticulatas and Sasanquas, we find all have responded equally well with this same timing at the first feeding.

Other factors, of course, enter the picture having a bearing on the reaction of the fertilizers applied. Adobe and poorly drained types of soil can make a plant resist any good results from fertilizing. Water high in alkalinity tends to check favorable results. Both problems require special treatment for correction.

The above outlined fertilizing program, based on my experience, is simple but effective.

From *The Camellia Bulletin*,
July 1956

DIRECTORY OF CALIFORNIA CAMELLIA SOCIETIES

ATWATER GARDEN CLUB & CAMELLIA SOCIETY; President—Kathleen Hill, 2419 Koehn Court, Atwater, CA 95301, (209) 357-0782. Meetings 3rd Tuesday, September-June, 6:30 p.m. St. Nicholas Episcopal Church, 1635 Shaffer Road, Atwater.

KERN COUNTY, CAMELLIA SOCIETY OF: President—Ben McMahan;; Secretary—Betty Wachob, 3324 La Cresta Dr., Bakersfield, 93305. For meeting dates and times, call Helen Maas (661)872-2188.

MODESTO, CAMELLIA SOCIETY OF: President—Bob Dorn; Secretary—Julie Entwia, 22005 Dayton Ave., Modesto, 95356. Meetings: 1st Sunday, October-April, 1:00 p.m., 220-A Standiford Avenue, Modesto.

NAPA VALLEY CAMELLIA SOCIETY: President—Nancy McGowen Russell; Secretary—Fran Kane fkane@sonic.net. Meetings: 2nd Monday, September-May. Napa Senior Center, 1500 Jefferson Street, Napa

NORTHERN CALIFORNIA CAMELLIA SOCIETY: President—Mary Bergamini; Secretary—Don Bergamini, 2023 Huntridge Court, Martinez 94553 Meetings: 1st Monday, November-April, 7:30 p.m., Oak Grove School, 2050 Minert Road, Concord. Final meeting in May is a dinner meeting.

ORANGE COUNTY CAMELLIA SOCIETY: President—Steve Mefford; Secretary—Bob Sheriff, 27333 Paseo Laguna, San Juan Capistrano 92675. Meetings: 1st Monday, October-April, 7:00 p.m. Tustin Senior Center, 200 S. "C" Street, Tustin.

PACIFIC CAMELLIA SOCIETY: President—George Harrison. Secretary—Dorothy McQuiston, 6212 Yucca St., Los Angeles 90028. Meetings: 1st Thursday, November-April, 7:00 p.m., Descanso Gardens, 1418 Descanso Drive, La Canada.

POMONA VALLEY CAMELLIA SOCIETY: President—Marilee Gray; Secretary—Dorothy Christinson; 3751 Hoover St., Riverside 95204. Meetings: 2nd Thursday, November-April, 7:00 p.m., La Verne Community Center, 3680 "D" Street, La Verne.

SACRAMENTO, CAMELLIA SOCIETY OF: President—Joan Lesmeisterl; Secretary—Julie Vierra, 1048 Longcroft St. West, Sacramento 95691. Meetings: 4th Tuesday, October-April, 7:30 p.m., Studio Theater, 1028 "R" Street, Sacramento

SAN DIEGO CAMELLIA SOCIETY: President—Gene Snooks; Secretary—Lew Gary, 11419 Cabela Place, San Diego 92127. Meetings: 3rd Wednesday, November-April, 7:30 p.m, Room 101 Casa del Prado, Balboa Park, San Diego.

SAN FRANCISCO PENINSULA CAMELLIA SOCIETY: President—Mike Ekberg; Secretary—Christina Isenberg, 240 Polhemus, Atherton, CA 94027 Meetings: 4th Monday, October-March, Veterans' Building Annex, 711 Nevada St., Rm. 20, Redwood City (formerly Peninsula Camellia Society)

SANTA CLARA COUNTY, INC., CAMELLIA SOCIETY OF: President—John Mendoza, 1025 Harrison Street, Santa Clara 95050. Meetings: 3rd Wednesday, October-April, 7:30 p.m., Lick Mill Park, 4750 Lick Mill Boulevard, Santa Clara.

SOUTHERN CALIFORNIA CAMELLIA SOCIETY: President—Brad King; Secretary—Bobbie Belcher 40641 Via Amapola, Murrieta, CA 92562 Meetings: 7:00 p.m., Ayres Hall, Los Angeles County Arboretum, 301 Baldwin Avenue, Arcadia. Call Marilee Gray for meeting dates (909) 624-4107.

Southern California Camellia Society, Inc.

An organization devoted to the advancement of the camellia for the benefit of mankind—
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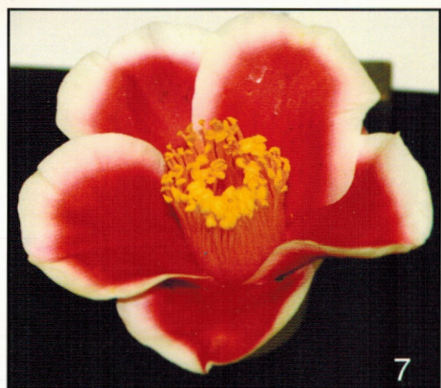
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