Happy New Year
from The Arboretum Staff

We all wish you a New Year of much joy and celebration and hope that you will visit us often at The Arboretum in 2003.
WINTER AT THE ARBORETUM

It's difficult to believe that the winter season with its turbulent weather is passing us by. I view the gusty, whipping wind and torrential rainstorms as Nature's way of cleaning out the withered, dead and decayed, with promises of a beautiful spring renaissance around the corner.

Many things are happening at The Arboretum at this time:

Gilbert N. Resendez has joined our Board of Trustees. He is Executive Vice President of Monrovia Growers. Gilbert joins the Board at a time when his knowledge and experience will be a great asset to our very ambitious future.

Russ Guiney, Chief Deputy, and Donald Allen, Assistant Director of the Regional Facilities Agency, have become part of the Los Angeles County's Department of Parks and Recreation. We look forward to working with them as invaluable partners of our institution.

Board member Alan Teklerkus and his wife Chumi Paul have graciously accepted the positions of co-chairs of the committee coordinating The Arboretum's 33rd Baldwin Bonanza Party. The party will take place on the evening of Friday, May 2nd. Please reserve this date for what promises to be a fabulous evening.

We have begun implementing a recent allocation of funds from Los Angeles County in order to modify our facilities in becoming more ADA compliant. The $175,000 is initially going towards design, bathroom modifications, and drinking fountain changes. Additionally, we have identified other necessary changes. Some are being implemented and others are planning for in scheduled phases.

The conceptual long-range plan is almost finalized. The Arboretum certainly has a bright future, with lots of exciting changes, expanding programs, as well as additional garden features and buildings to better house our offerings. We plan to have an inviting entrance which will increase visitors' expectations as they approach and enter our beautiful grounds. We have much to do in order to make this a reality and it will require everyone's assistance to attaining our rightful place in the botanic garden world.

So, please visit our garden soon. The Arboretum is constantly changing and we invite you to stop by to say hello, ask questions, or take a closer look at our plans for our future.

SAVE THE DATES
MAY 3 & 4
BALDWIN BONANZA PLANT SALE

FOUNDATION PRESIDENT, GEORGE BRUMDER

DEAR ARBORETUM FRIENDS,

There are two things I'd like to say to you:

First, we urge you to give your attention to the conceptual long-range plan for The Arboretum. We want the plan to be the best that it can be, and your input can be invaluable. Please be in touch with Peter, or with me, with any comments, questions and suggestions you have. We hope to hear from you.

Second, please be on the lookout for information about this year's Baldwin Bonanza. You've probably noticed that it's been getting bigger and better each year. This year will be no exception, and the Preview Party, co-chaired by Chumi and foundation trustee Alan Teklerkus, promises to be quite something. We hope you'll want to participate, and look forward to seeing you at The Arboretum the first weekend in May.

On behalf of the foundation trustees, I thank you for your continuing interest, support and involvement. With all good wishes,

George
FEBRUARY, MARCH AND APRIL 2003
CLASSES AND ACTIVITIES
PLEASE CALL (626) 821-4623 FOR RESERVATIONS

THURSDAY MORNING
SEMINAR SERIES
FOR ENTHUSIASTIC GARDENERS
AND GARDEN DESIGNERS

Winter Series
8 Thursdays,
Jan. 9 - Mar. 6:
Spring Series
8 Thursdays,
March 27 - May 15:
9:45 - 12 noon
Lecture Hall A
$120 for all
8 seminars / $90 for 4 seminars / $35 for a single seminar

January 9th: Chris Rosmini will lead a discussion of 'What Is a Garden?'
January 23rd: Clair Martin will speak on choosing roses.
January 30th: a field trip – possibly to Nuccio’s in Altadena, grower of camellias and azaleas.
February 6th: Sean O’Hara, ‘Our Mediterranean Climate’
February 13th: Nan Sterman, ‘Plant Soup - Lesser-known Native, Mediterranean and Southwest Desert Area Plants’
February 20th: Jan Smithen, Gardening Under Mediterranean Skies
February 27th: Lili Singer, ‘Who’s That In My Garden?’ – a focus on pests, and pest management.
March 6th – to be announced.

FRESH:
CELEBRATING THE TABLE!
Thursday classes from 3-5 pm.
Saturday classes 10 am-noon.
$45 / $50 non-members per class
This Arboretum series encompasses all things wonderful about the kitchen table - from the garden that grows the food to recipes, seasons, and festive decorations that celebrate our love for eating - this series is very popular so sign up early as the classes often sell out completely!
Join cookbook authors, restaurant chefs, caterers, florists, gardeners and other “foodies” as they instruct two-hour workshops. Demonstrations, tastings and loads of ideas and information to use at home are included.

WINTER DINNER WITH STEVEN MARY OF THE GRILL AT THE RITZ-CARLTON
Thursday, February 20
Join Steven as he brings to our table a three-course meal to take the chill out of winter. He will create a soup, main course, and a scrumptious dessert, all with the freshness and flair for which he is famous!

MOUTH-WATERING DINNER PARTY WITH ALEXANDRA POER SHERIDAN
Thursday, March 6
Alexandra is known for her flair and unique presentation of interesting cuisine - join us as she presents a simple yet elegant menu for a spring dinner. As always with Alexandra, you will leave with the confidence to try many new ideas and recipes in your own kitchen.

ELEGANT AND INNOVATIVE MEXICAN CUISINE WITH HUGO MOLINA
Saturday, March 22
Taste delicious food from various regions of Mexico as prepared by Hugo. He has recently opened his new restaurant, The Spanish Kitchen, on La Cienega, that features his own style of Mexican food that originates in areas of Pueblo, the Yucatan and elsewhere.

CELEBRATING SPRING - A FLORAL FANTASY
Thursday, April 3
Create (and take home!) a wonderful arrangement of spring flowers for your table! Bring clippers and gloves.
Instructor to be announced.

SUMMER FRUIT PASTRIES WITH JOAN COLLINS OF WILDFLOUR BAKERY
Thursday, May 15
Joan Collins’, owner and baker for Wildflour Bakery, newest venture is a wonderful bakery in Sierra Madre that features fresh breads, tarts, pastries and other delicious treats. This program highlights baking with summer fruits, and will also feature some pastry cooking basics. Joan will make a fruit tart, a cherry clafouti, and a savory herb twist.

A SPRING CELEBRATION WITH JIMMY MARTINEZ
Thursday, May 29
Currently the chef at Café Citron in Monrovia, Jimmy has also worked at Spago’s of Beverly Hills and is a graduate of Le Cordon Bleu Culinary Art Program in Pasadena. He will prepare dishes for a delicious spring dinner including a fabulous first course, an entrée and an irresistible dessert.

KIDS’ COOKING CLASSES
Thursday, June 26 and Thursday July 31
Topic and time to be announced.
GARDEN SPROUTS: SATURDAY KIDS GARDENING CLUB!
1st Saturday of each month through June 2003
Winter: Jan. 4th, Feb. 1st, Mar. 1st
Spring: Apr. 5th, May 3rd, June 7th
9:00am - 11:00am
Roots and Shoots Garden at the Old Ranch Rd. entrance to The Arboretum (off Colorado Blvd.)
Cost: Members $25/quarter, or $10/Saturday
Non-Members $30/quarter, or $12/Saturday
Hey, Kids! It’s that time again! Just for you! (Kids ages 5-8) Parents - This is a “drop off” program.
Plant and tend our garden, play nature games, and learn crafts! Plant flowers to take home!...and much more!

FAMILY ADVENTURES
First Saturday of the month BEGINNING January 4, 2003
2:00 pm
Under the BIG Oak Tree in front of Ayres Hall

Lisa Beach, Adventure Guide
$10 per family for members; $14 per family for non-members
Pre-registration preferred; walk-on registration accepted while supplies last.
In the event of rain, the program is cancelled.
Each Saturday will have a different theme relating to nature or the environment, and will include a variety of activities such as a short story or talk, a walk to a special part of The Arboretum, and a take-home naturecraft activity.

FEB 1ST
PAPER OLD AND NEW!
Learn how paper was made from papyrus a long time ago; see it growing near the lake. Then, learn to make your own paper! Make your own Valentine to send!

MARCH 1ST
MORE TREES PLEASE!
Take a walking tree tour around The Arboretum! Learn tree folklore, take time for storytime, and make leaf magnets!

MARCH 5TH
BAKU TO YOUR!!
Hike through the bamboo forest at The Arboretum! Learn how bamboo grows. Make a bamboo rain stick!

BOTANICAL WATERCOLOR WORKSHOP
Winter: 8 Mondays, January 6 - February 24
Spring: 8 Mondays, March 17 - May 5
9:30 - 11:30 am
Education Greenhouse
$35 / $42 non-members
Enjoy painting flowers from The Arboretum with watercolor enthusiasts. This self-directed workshop (no official instructor) provides a supportive environment to concentrate on painting.

COMPULSIVE GARDENERS
8 Fridays, Jan. 10 - Feb. 28
8 Fridays, Mar. 28 - May 16
9:30 - Noon
Lecture Hall A
Self-directed by members of the class
$40 / $48 non-members per 8 week session
Calling all passionate and committed gardeners. The first hour will be a “show and tell” facilitated by a class member, a general sharing of garden experiences, questions, book reviews and gardening news. A presentation will follow. Winter session topics include a slide tour of East Coast gardens, using unique materials from the garden, a tour and talk on The Arboretum Herb Garden, Designing Your Dream Garden, Plant Research Resources, Irrigation Systems, Plant Profiles and a field trip.

WATERCOLOR PLEIN AIR (OUTDOORS)
6 Saturdays,
Jan. 18 - Feb. 22
9 am - Noon
Meet at Lecture Hall C, then the grounds
Jennifer Cunningham, Instructor
$180 / $200 non-members
Paint the magnificent vistas and historic treasures of The Arboretum. The instructor will lecture, give demonstrations and critique students’ work. Drawing, composition, color, perspective, texture and design are covered.

GARDENING 101: A WEEKEND SERIES
The 3rd Sunday of each month (except Easter)
2 - 4 pm
Scott Daigre & Catherine Downes, formerly of Hortus
Winter Series 2003:
Jan. 19, Feb. 16, March 16
Spring Series 2003:
April 27 (instead of April 20), May 18, June 22
$45 / $52 non-members for each series
$18 / $20 non-members per single class
Learn the ABCs of great gardening! We are thrilled to have Scott and Catherine at The Arboretum. Even great gardeners sometimes forget the basics - or need a quick brushup. Basic gardening principles will be emphasized. A great way to spend Sunday afternoon!

BOTANICAL WATERCOLOR TECHNIQUES
6 Saturdays, February 1, 15, March 1, 15, 29, April 5
9:30 am - 4:30 pm

BOTANICAL DRAWING AND ILLUSTRATION
6 Sundays: Feb, 2, 16, Mar, 21, 28, April 6
9:30 am - 4:30 pm
Olga Eysmontt, Instructor
Contact: Otis College of Art and Design Evening College (310) 665-6850 or (800) 527-6847 for information/registration.

IKEBANA
Winter:
8 Fridays,
Jan. 10 - Feb. 28
Spring:
8 Fridays,
March 28 - May 16
9:30 - 1:30 am
Lecture Hall B
Reiko Kawamura, Instructor
$65 / $80 non-members per 8-week session
$24 materials fee payable to the instructor
Learn Japanese cultural traditions with Reiko

INFORMATION: Call (626) 821-4623 or (626) 821-4624 for information or to register for a class. Please fax to (626) 821-4642 or mail your registration form with your payment to: Los Angeles Arboretum Foundation, 301 N. Baldwin Ave., Arcadia, CA 91007-2697, Attn: Jill Berry
Reservations are required for most classes, programs and events.
Registration on the day of the program is allowed if space is available.

NO CONFIRMATION IS SENT. ALL FEES ARE NON-REFUNDABLE AND NON-TRANSFERRABLE. However, classes may be cancelled due to low registration. Canceled classes are fully refunded.
Special assistance is available for people with disabilities. Call the Program Manager at (626) 821-4624 at least one week prior to the program for specific requests.

REGISTRATION ONCE CLASS PER FORM PLEASE

Class/Event

<table>
<thead>
<tr>
<th>LAAF Member</th>
<th>No. of people</th>
<th>Total</th>
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<thead>
<tr>
<th>Non-member</th>
<th>No. of people</th>
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Exp. Member No. (if applicable)

Name Address City State Zip Telephone

Please make checks payable to: Los Angeles Arboretum Foundation (LAAF)
Signature required for all credit card charges

Discover/MC/Visa/Amex #
The Baldwin Bonanza 2003 Festival of Plants Sale will be open to members only on Saturday, May 3 from 8:00-9:00 am and will be open to the public on Saturday, May 3 and Sunday, May 4 from 9:00am to 4:30pm each day.

Thousands of plants from the Arboretum collection will be available. Among the unique treasures are Clausena lanana, Combretum fruticosum, Graftophyllum excelsum, and Leucophyllum Zacagoza.

**Orchids**, propagated from The Arboretum's extensive collection of species orchids, will also be available including Pholidota imbricata, Cymbidium aloifolium, Eria javanica, Isoclinus major, Dendrochilum uncatum, and Stellis argentina.

A complete listing follows. Come to the members' only sale so you can be sure to get your first choice in plants.
<table>
<thead>
<tr>
<th>Genus</th>
<th>Species</th>
<th>Variety</th>
<th>Cultivar</th>
<th>Common Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hakea</td>
<td>leucotheca</td>
<td>Pincushion Tree</td>
<td></td>
<td></td>
<td>Evergreen shrub to 6', open habit, gray-green needle-like leaves (W/A)</td>
</tr>
<tr>
<td>Harpaliya</td>
<td>arborea</td>
<td></td>
<td></td>
<td></td>
<td>Evergreen tree to 35', large glossy green leaves, showy orange fruits open to reveal glossy black seeds in fall &amp; winter</td>
</tr>
<tr>
<td>Homalanthus</td>
<td>populifolius</td>
<td>Queenslander Poplar</td>
<td></td>
<td></td>
<td>Evergreen tree to 15', large dark green leaves with coppery venes/petioles, lowest leaves are red-orange all year, milky juice used as black dye for rattan (A/U)</td>
</tr>
<tr>
<td>Homalocladium</td>
<td>platycladum</td>
<td>Ribbon Plant</td>
<td></td>
<td></td>
<td>Novelty shrub to 6', dark green flat stems give this plant its name, flowers inconspicuous, tiny red fruits in fall (C/W)</td>
</tr>
<tr>
<td>Hymenosporum</td>
<td>flavum</td>
<td>Sweetshade</td>
<td></td>
<td></td>
<td>Evergreen tree to 8', upright structure, large fragrant yellow flowers in summer (A/S)</td>
</tr>
<tr>
<td>Ilex</td>
<td>paraguassensi</td>
<td>Yerba Mate</td>
<td></td>
<td></td>
<td>Evergreen shrub to 20', prone to keep small, dark green leaves on straight upright stems, red-brown fruit, source of Argentina's naturally caffeine-rich mate (U)</td>
</tr>
<tr>
<td>Iochroma</td>
<td>cyanescens</td>
<td>Violet Tubeflower</td>
<td></td>
<td></td>
<td>Evergreen shrub to 8', large dark green leaves, large clusters of deep purple, tubular flowers in summer (B)</td>
</tr>
<tr>
<td>Jasminium</td>
<td>sambac</td>
<td>Grand Duke</td>
<td>Double white Arabian Jasmine</td>
<td></td>
<td>Evergreen shrub to 5', added to tea to make jasmine tea, very fragrant, white, double flowers used to make perfume (C/S/U)</td>
</tr>
<tr>
<td>Justicia</td>
<td>chinsonsis</td>
<td>Mint Julep</td>
<td></td>
<td></td>
<td>Perennial shrub to 5', drooping branches bear terminal racemes of long tubular orange flowers in spring-fall, epiphytic in Peru, grow in moist well-drained garden (C)</td>
</tr>
<tr>
<td>Justicia</td>
<td>aurea</td>
<td>Juniper</td>
<td></td>
<td></td>
<td>Evergreen shrub to 8', vase shaped growth habit, mint green foliage</td>
</tr>
<tr>
<td>Justicia</td>
<td>austrocarpa</td>
<td>Incar Queen</td>
<td></td>
<td></td>
<td>Herbaceous perennial to 6', large light green leaves, terminal spikes of yellow flowers in summer-fall</td>
</tr>
<tr>
<td>Justicia</td>
<td>sericea</td>
<td></td>
<td></td>
<td></td>
<td>Perennial shrub to 3', long velvety leaves, tubular orange flowers spring-fall (W/B)</td>
</tr>
<tr>
<td>Leucophyllum</td>
<td>Zaragoza</td>
<td>Chihuahuan Sage</td>
<td></td>
<td></td>
<td>Evergreen shrub to 7', round dense growth habit, white felted leaves show off the display of deep purple flowers in summer-fall (W)</td>
</tr>
<tr>
<td>Leucophyllum</td>
<td>laevigatum</td>
<td>Chihuahuan Sage</td>
<td></td>
<td></td>
<td>Evergreen shrub to 5', round dense growth habit, display of deep purple flowers in summer-fall (W)</td>
</tr>
<tr>
<td>Lonicera</td>
<td>hildebrandiana</td>
<td>Giant Burbese Honey suckle</td>
<td></td>
<td></td>
<td>Evergreen vine, fast growing, large plant with large dark green leaves, 7&quot; tubular yellow flowers in summer are fragrant (S/B)</td>
</tr>
<tr>
<td>Mairiana</td>
<td>sederifolia</td>
<td>Pearly Burburh</td>
<td></td>
<td></td>
<td>Evergreen shrub to 5', small white succulent leaves on arching branches (W/A)</td>
</tr>
<tr>
<td>Melaleuca</td>
<td>incana</td>
<td>Prostrata</td>
<td></td>
<td></td>
<td>Dwarf Wholly Honey Myrtle</td>
</tr>
<tr>
<td>Melaleuca</td>
<td>lirifolia</td>
<td>Snow-in-Summer</td>
<td></td>
<td></td>
<td>Evergreen shrub to 12', large leaves, many yellow centers, white daisy like flowers in fall, flowers smell of cookies (S/B)</td>
</tr>
<tr>
<td>Montanaea</td>
<td>grandiflora</td>
<td>Daisy-flower Tree</td>
<td></td>
<td></td>
<td>Evergreen shrub to 12', large leaves, many yellow centers, white daisy like flowers in fall, flowers smell of cookies (S/B)</td>
</tr>
<tr>
<td>Myoporum</td>
<td>parvifolium</td>
<td>Narrow Leaf</td>
<td></td>
<td></td>
<td>Creeping Rosebush</td>
</tr>
<tr>
<td>Muscari</td>
<td>macrescens</td>
<td>Mexican Tea</td>
<td></td>
<td></td>
<td>Evergreen shrub to 5', shiny, dark green leaves, used in tea (U)</td>
</tr>
<tr>
<td>Odontonema</td>
<td>calicostachys</td>
<td></td>
<td></td>
<td></td>
<td>Evergreen perennial to 6', medium green leaves, terminal spikes of pink-lavender 2-lipped flowers in winter-spring</td>
</tr>
<tr>
<td>Pelagophorum</td>
<td>hirsutum</td>
<td>Yellow African Flamboyant</td>
<td></td>
<td></td>
<td>Shade tree to 30' x 60' wide, leaves finely divided, showy yellow flowers in summer</td>
</tr>
<tr>
<td>Pedoceras</td>
<td>macrophyllus</td>
<td>Select Spreader</td>
<td>Dwarf Yew Pine</td>
<td></td>
<td>Evergreen spreading shrub to 3' x 5'wide, dark green narrow leaves grow spirally from stems giving a braided-like appearance, slow growing (C)</td>
</tr>
<tr>
<td>Pelliciaria</td>
<td>hastamannii</td>
<td>Mexican Oregano</td>
<td></td>
<td></td>
<td>Herbaceous perennial to 5', fragrant leaves smell like oregano, spikes of long, tubular light purple flowers in summer (W/S/B)</td>
</tr>
<tr>
<td>Prostanthera</td>
<td>rotundifolia</td>
<td>Round Leaved Mint Bush</td>
<td></td>
<td></td>
<td>Evergreen shrub to 8', dense, round growth habit, leaves mint scented, clusters of purple flowers spring (W/A/S)</td>
</tr>
<tr>
<td>Quernea</td>
<td>agrifolia</td>
<td>Coast Live Oak</td>
<td></td>
<td></td>
<td>Evergreen spreading tree to 20-30', dark green holly-like leaves, native to southern California, little or no summer water (W/E/U)</td>
</tr>
<tr>
<td>Quernea</td>
<td>engelmannii</td>
<td>Engelmann Oak</td>
<td></td>
<td></td>
<td>Evergreen spreading tree to 60', smooth, light green leaves, native to southern California, little or no summer water (W/E/U)</td>
</tr>
<tr>
<td>Rhododendron</td>
<td>macrantha</td>
<td>Christmas Pride</td>
<td></td>
<td></td>
<td>Perennial shrub to 4', multistemmed with large bell-shaped, purple rose flowers in summer</td>
</tr>
<tr>
<td>Senna</td>
<td>wilsonianum</td>
<td></td>
<td></td>
<td></td>
<td>Round shrub to 6', round light green leaves, yellow globe shaped flowers in summer-fall (W)</td>
</tr>
<tr>
<td>Stevia</td>
<td>nebuliana</td>
<td>Sweet Herb of Paraguay</td>
<td></td>
<td></td>
<td>Herbaceous perennial to 3' x 3', small leaves are very sweet, can be used as a fat free sweetener (S/U)</td>
</tr>
<tr>
<td>Streptosyne</td>
<td>jamesoni</td>
<td>Marmalade Bush</td>
<td></td>
<td></td>
<td>Evergreen vining shrub to 6', shiny, dark green leaves, large display of orange flowers nearly year-round (W/B)</td>
</tr>
<tr>
<td>Syzygium</td>
<td>paniculatum</td>
<td>Pearly Slower</td>
<td>Variegated Australian Brush Cherry</td>
<td></td>
<td>Evergreen shrub to small tree to 30', variegated leaves of green, red and yellow, showy purple fruits in fall (A/E)</td>
</tr>
<tr>
<td>Tagetes</td>
<td>lucida</td>
<td>Sweet Marigold</td>
<td></td>
<td></td>
<td>Herbaceous perennial to Z, scented dark green leaves smell of tarragon, small yellow flowers in fall (S/U)</td>
</tr>
<tr>
<td>Xanthorrhoea</td>
<td>quadrangula</td>
<td>Australian Grass Tree</td>
<td></td>
<td></td>
<td>Evergreen tree-like perennial to 12', slow growing, dense tufts of grass-like leaves out of the top of a woody trunk (W)</td>
</tr>
</tbody>
</table>

**TROPICAL & HOUSE PLANTS:**

- **Brighamia insignis:** Rare Hawaiian plant, waxy leaves atop a solitaire trunk, large tubular yellow flowers have a light scent (S)
- **Chelonodendron thompsonii:** Evergreen shrubs, sensitive, flowers on end of branches are bell-shaped red-pink and white
- **Coralline sp.:** Solitary trunk with spade shaped leaves, dark maroon leaves have a bright pink margin
- **Ludisia discolor:** Jewel Orchid
- **Philodendron glandiferum:** Evergreen tropical vine, 8" rounded leaves
- **Philodendron gloriosum:** Sprawling thick stemmed tropical evergreen, leaves with white veins make for a very ornamental tropical plant
- **Philodendron rugosum Pigskin Pigskin Philodendron:** Sprawling tropical evergreen, large heart-shaped leaves that have an unusual leather-like texture
- **Plumbago indica:** Sprawling perennial shrub, moundng to 2', bright coral flowers in sprays at ends of slender tubular branches
- **Zamioculcas zamiifolia:** Curious looking tropical plant to Z, evergreen perennial forming tubers at the base with erect, glossy divided leaves
The Botanical Artists Guild of Southern California
Presents a Botanical Art Exhibit

Spring Bouquet 2003
The Glory of Botanical Art

Saturday, March 29—Sunday April 6, 2003
Gallery Hours: Daily, 9:30am-4:30pm
Lecture/Demonstrations
Saturday, April 5, 11:30am-1:30pm

The Arboretum of Los Angeles County—Peacock Cafe Annex
301 North Baldwin Avenue, Arcadia, California 91007 626-821-4623
Kawamura and practice Moribana, Heika and landscape arrangement techniques. Individual instruction is given. Bring a 10"-12" shallow container, clippers and a needle holder (frog) to the first class.

**BOTANICAL ILLUSTRATION I: BASIC DRAWING IN GRAPHITE**
4 Wednesdays, Feb. 19 - March 12
9 am - Noon
Lecture Hall B
Olga Eysymontt, Instructor
$120 members, $140 non-members
Learn to observe and to render form accurately. This class will help both beginner and experienced students, wishing to fine-tune their drawing skills.

**CREATING A BACKYARD HABITAT: BIRDS, BEES & OTHER CRITTERS**
Monday, March 10
10 am - Noon
Lecture Hall B
Marc Hall, California Certified Nurseryman, Instructor
$15 / $20 non-member
Learn about life cycles and how to provide a sanctuary for our valuable pollinators and fauna. Attract wildlife such as birds, butterflies, small mammals and other creatures to your garden.

**WATERCOLOR FOR BOTANICAL ILLUSTRATION**
Session I:
6 Thursdays
Feb. 20 - March 27
Session II:
6 Thursdays
April 3 - May 8
9 am - Noon
Lecture Hall B
Olga Eysymontt, Instructor
$180 members, $200 non-members
This intermediate/advanced course emphasizes more complicated subject matter, plant structure and composition. It builds upon the exercises done in Introduction to Watercolor for Botanical Illustration and focuses on form, light and color. Prerequisite: Introduction to Watercolor or Botanical Illustration I: Drawing in Graphite or by permission of instructor.

**GARDENING & COOKING IN A MEDITERRANEAN CLIMATE**
Tuesdays, March 11 - April 15
10 am - Noon
Ayres Hall
Jill Vig and Steven Mary, Instructors
$95 members / $115 non-members
Sponsored in part by Whole Foods Market in Hastings Ranch. We not only enjoy the rare beauty of a Mediterranean climate, but also the cuisine based largely on fruits, vegetables and nuts that thrive here. Instructors Jill Vig and Steven Mary look at a whole new palette of plants. Jill will discuss the history and culture of a particular plant and Chef Steven Mary from Pasadena’s Ritz-Carlton will demonstrate his unique recipes, and the class will sample his dishes for a light lunch.

**ETHNOBOTANICAL LECTURE SERIES:**
**Plants, Culture, and Religion in the Golden Land of Burma**
Wednesday, April 2
7:30 pm
Ayres Hall
$8 students/$10 members / $12 non-members
W. John Kress, Research Scientist and Curator, Head of Botany, United States National Herbarium, National Museum of Natural History, Smithsonian Institution

**COLOR PENCIL FOR BOTANICAL ILLUSTRATION:**
**TECHNIQUE AND APPLICATION**
6 Wednesdays
April 30 - June 4
9 am - Noon
Lecture Hall B
Olga Eysymontt, Instructor
$180 members, $200 non-members
Color pencil combines the sensuality of color with the impulsiveness of drawing. Color layering and understanding how colors interact with each other is emphasized.

**THE GREAT TOMATO SALE & TALK**
Tuesday, March 25
10 - 11:30 am
Lecture Hall A
Steve Goto, Instructor
Free to Members / Free to Non-Members with Arboretum Admission
Back by popular demand! Join us for a lecture, slide show and Steve Goto’s Top 25 Tomato Picks for 2003! Learn to plant and harvest the best tomatoes in our area. Then, attend THE GREAT TOMATO SALE. Don’t miss the large selection of heirloom tomato plants from Goto Nursery, a tomato supplier to many nurseries throughout Southern California.

**THE ABC’S OF PLANTS: TAUGHT IN KOREAN**
Saturday, April 19
2 - 4 pm
Lecture Hall A
Jae Soon Song, Instructor
$15 members / $18 non-members
Learn how a garden grows. View and identify plants in their environment. Learn basic tree structure, function, photosynthesis, and how trees relate to each other. This is the first in a series of classes taught in Korean about plant botany and planning and tending a successful garden.

**GARDEN PHOTOGRAPHY SERIES**
Wednesdays, April 23 & 30
7 - 9 pm Lecture Hall B
Sunday, April 27
8 - 11 am
in the Garden
Deidra Walpole, Instructor
$75 members / $85 non-members
Join garden and landscape photographer Deidra Walpole in a garden photo adventure. Learn to capture on film the beauty of flowers and gardens. The first session will cover garden photography basics including equipment, film, natural light, designing a garden photograph, and more. Next, spend a spring morning in The Arboretum taking pictures, which will be discussed during the final class slide show. Visit her website at: www.deidrawalpole.com.

**MAKE BEAUTIFUL BOOKS BY HAND**
Saturday, May 10
Wendy Poma, Instructor
**SAVE THE DATE:**

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**THE GREAT TOMATO SALE**
**Back by Popular Demand!**
**Join us for a lecture, slide show and Steve Goto's Top 25 Tomato Picks for 2003!**
**Learn to plant and harvest the best tomatoes in our area.**
**Then, attend THE GREAT TOMATO SALE.**
**Don't miss the large selection of heirloom tomato plants from Goto Nursery, a tomato supplier to many nurseries throughout Southern California.**
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Free Arboretum Admission: Tuesday of each month.

Bird Watching: First Sunday of each month, meet at the entrance (rotunda) at 8 am for a guided walk to identify birds in The Arboretum. Free with admission.

Santa Anita Depot: Open Tues. and Weds., 10 am-4 pm; Sundays, 1-4 pm. Free with admission.

Tai Chi: Every Tuesday and Friday from 7:30 - 8:30 am, meet on the lawn near Baldwin Avenue entrance. Free for members.
THE ALLSPICE TREE:
A FLAVORFUL MEMBER
OF THE ARBORETUM COLLECTION

On walking tours of The Arboretum, I like to engage the group by breaking off a small piece of the leaf of a small tree growing in our tropical greenhouse.

I crush it and pass it around and ask everyone “What does this smell like to you?” The enticing aroma is hard to identify. Some say cloves, others nutmeg, and some even think of cinnamon. In fact, these leaves have oils with hints of each of the above spices plus even the smell of juniper berries.

These aromatic leaves come from the Allspice tree (Pimenta dioica), the source of the famous allspice berries as well as the aromatic leaves and wood. This tree is a member of the Myrtle family (Myrtaceae) and can be found growing wild from eastern and southeastern Mexico through Central America and the Caribbean. It is a small evergreen tree to 30 feet tall with oblong, leathery, aromatic leaves with glandular dots on its undersides.

The fruit is harvested while immature when it is considered most strongly flavored; the whole dried ground fruit constitutes the allspice powder of commerce. The pea-sized dried fruits are used to flavor pickles, sauces, ketchup, sausages, soups, ice cream, etc. The leaves may be used as a condiment or steeped into tea.

Jamaica is the main exporter and produces the highest quality berries. In Jamaica, the use of allspice as a seasoning has reached its highest level of development. Allspice is a primary ingredient in Jamaican jerk foods.

Meats marinated in a mixture of allspice, chili powder, garlic and onion, vinegar or lime juice, and other seasonings are barbecued or grilled, often over allspice wood. Also, soaking allspice berries in rum results in a traditional Jamaican liqueur called “Pimento dram.”

The Arawak Indians of the Caribbean used allspice to preserve meat and fish. It is said that their term for such cured meats ‘boucan’ gave rise to the term ‘buccaneer’ referring to the pirates who used the island of Jamaica as a base for raiding shipping. Pirates and other sailors adopted this tradition to help preserve meat and fish on long voyages.

Besides its value in cooking, allspice berries have been used in traditional healing in the Caribbean. Allspice is said to promote digestion and alleviate muscle pain. The main oil, eugenol, is effective in relieving toothaches. Jamaicans drink hot allspice tea for colds, menstrual cramps and upset stomach.

Allspice has been successfully grown outdoors in Southern California, although the berries are only produced when both male and female trees are flowering in proximity.

Besides the Tropical Greenhouse, another healthy specimen, a gift from David Oberman, can be found growing outdoors in the Tropical Forest exhibit. You, too, will be amazed when you encounter this most useful tree, one of the amazing array of ethnobotanically important plants in The Arboretum’s collections.

Contributed by Jim Bauml
Senior Biologist

WEDNESDAY, APRIL 2

ETHNOBOTANICAL LECTURE SERIES:
PLANTS, CULTURE, AND RELIGION
IN THE GOLDEN LAND OF BURMA

W. John Kress, Research Scientist and Curator, Head of Botany, United States National Herbarium, National Museum of Natural History. Smithsonian Institution will present a lecture on Burmese plants, culture and religion on Wednesday, April 2, at 7:30 pm in Ayres Hall. The cost for this fascinating lecture is $8 students / $10 members / $12 non-members.
THURSDAY, MAY 22, 3-6PM

BRITISH GARDENING EXPERT CHRISTOPHER LLOYD TO VISIT THE ARBORETUM

Rare North American tour features renowned English author and garden designer

Known for his amazing approach to garden design, color theory and the use of plants and architecture in the landscape, British gardening expert Christopher Lloyd has charmed horticultural fans around the globe with his books and appearances on BBC-Television.

To the delight of Los Angeles gardening enthusiasts, The Arboretum will host Lloyd for a lecture on Thursday, May 22, from 3:00 to 6:00 pm in Ayres Hall. Joining Christopher Lloyd will be Fergus Garrett, head gardener at Great Dixter and a well-known lecturer and author.

Christopher Lloyd is the genius behind the famous Great Dixter Home & Gardens in England, one of the most experimental, exciting and constantly changing gardens of our time. He has been awarded the Royal Horticultural Society’s Victoria Medal of Honor and is the celebrated author of countless garden design books, including Color for Adventurous Gardeners, Christopher Lloyd’s Gardening Year and The Well-Tempered Garden, among others. North American fans have read his articles in Horticulture, and now in The Gardener.

Fergus Garrett received a degree in horticulture at Wye College. He worked at The Beth Chatto Nursery and has designed and run gardens in France and Switzerland. His most recent design is a 290-foot mixed border on the grounds of White Flower Farm in Connecticut. Garrett joined the staff of Great Dixter in 1993. He contributes articles to Gardens Illustrated, The Gardener and Hortus. Garrett is especially interested in the history and preservation of the bulbs and plants of Turkey, where he spent much of his life.

In addition to the lecture at The Arboretum, The Christopher Lloyd-Fergus Garrett North American Lecture Tour includes Vancouver, B.C., Seattle, Portland, Denver and Chicago.

Tickets for the lecture are $25 for members and $35 for non-members, and can be purchased by calling 626-821-4624 or 821-4623. Seating is limited.

FRESH COOKING SERIES

FRESH HAPPENINGS

These photos were taken at the Fresh Cooking Class featuring Mark Gold, Executive Chef from Cafe Pinot, in his class "Sumptuous Seafood." Please see the calendar for a complete list of exciting classes for 2003.

MARK YOUR CALENDAR

February 8 & 9
SOUTH COAST CLASSIC MODEL HORSE EXHIBIT
10:00 am - 4:00 pm

February 16
WILD MUSHROOM FAIR
9:00 am - 4:00 pm

March 1-2
MONROVIA ROCK HOUNDS
THE 44TH ANNUAL GEM AND MINERAL SHOW
9:00 am - 4:30 pm

March 22-23
ORCHID SHOW
Sat. 9:00 am - 5:00 pm
Sun. 9:00 am - 4:00 pm

March 29-30
IKEBANA INTERNATIONAL
Sat. Noon - 4:00 pm
Sun. 9:00 am - 4:00 pm

March 29 - April 6
BOTANICAL ART EXHIBITION
10:00 am - 4:30 pm

April 2
ETHNOBOTANICAL LECTURE SERIES
DR. JOHN KRESS, THE SMITHSONIAN

April 5-6
SPRING IRIS SHOW
Sat. 12:30 pm - 4:30 pm
Sun. 9:00 am - 4:30 pm

April 19-20
AMARYLLIS & BULB SHOW & SALE
Sat. 9:00 am - 4:00 pm
Sun. Noon - 4:00 pm

April 26-27
ROSE SHOW
Sat. 1:00 pm - 5:00 pm
Sun. 9:00 am - 3:30 pm

April 26 & 27
FLOWER ARRANGING SHOW/LAS ARTISTAS DE FLORES
Sat. 11:00 am - 5:00 pm
Sun. 10:00 am - 4:00 pm
JUST FOR KIDS

FAMILY ADVENTURES
Beginning January 4, on the first Saturday of each month at 2:00pm in the afternoon, under the BIG Oak Tree in front of Ayres Hall, it’s Family Adventure time! Each Saturday will have a different theme relating to nature or the environment, and will include a variety of activities as well as a take-home nature craft activity.

Cost is $10 per family for members, $14 per family for non-members. Pre-registration preferred; walk-on registration will be accepted while craft supplies last. In the event of rain, the program for that day will be cancelled.

JANUARY 4
AMAZING CARNIVOROUS PLANTS!
See these amazing plants, tour the Tropical Greenhouse and make a Family Terrarium.
See article on this page about carnivorous plants.

FEBRUARY 1
PAPER OLD AND NEW!
Learn how paper was made from papyrus a long time ago, see it growing near the lake and learn how to make your own paper.

MARCH 1
MORE TREES PLEASE!
Take a walking tree tour around The Arboretum, learn tree folklore and make leaf magnets to take home!

APRIL 5
BAMBOO FOR YOU!
Take a hike through the bamboo forest and learn how bamboo grows, and how it is used! Make your own bamboo rain stick!

"GARDEN SPROUTS" - SATURDAY KIDS GARDENING CLUB!
Calling all 5-8 year olds! This class is just for you. No parents allowed! Join us on the first Saturday of each month, January 4, February 1, and March 1 from 9:00am - 11:00am.

Days are filled with planting and tending the kids-only garden, playing nature games and learning gardening crafts and folklore! Kids will plant their own flowers to take home, make garden art and enjoy the food that they have grown in their Arboretum garden!

Members - $25/quarter, or $10/Saturday; Non-Members - $30/quarter, or $12/Saturday.
Pre-registration for this event is required.

MARCH 8, 9:00 AM TO 3:00 PM
ENVIRONMENTAL EDUCATION FAIR

Kid’s will learn about the environment, conservation and ecology through hands-on natural science projects, free demonstrations and nature games. Free with admission to The Arboretum.
For more information visit www.cree.org

APRIL 11, 12, 13—9:00 AM TO 5:00 PM
THE ARCADIA INSECT FAIR
Fun for the entire family. Local and exotic insects, spiders, scorpions, educational displays, equipment, books and supplies, bug shirts and toys. Free with admission to The Arboretum.

Carnivorous Plants
You know that animals eat plants but did you know that some plants eat animals?

They attract, capture, kill, digest, and absorb their prey. Because they digest and absorb their prey, these plants are called carnivorous plants.

You have probably heard of the Venus Fly Trap, the best-known carnivorous plant. But did you know there are hundreds of other carnivorous plants in the world. Most are found in wetland areas of Asia and South America. In the U.S. they can be found in coastal areas of the Southeast and Pacific Northwest.

The largest of the carnivorous plants is the pitcher plant Nepenthes from Asia. It can grow to be 30 feet tall. Its urn style traps, called pitchers, can measure 12 inches in length and hold lots of digested insects. Pitcher plants also eat small mammals and reptiles that attempt to steal the insects from the trap.

Each “pitcher trap” has a lid and its inner surface is smooth with hairs that point down, leading prey into the trap.

Carnivorous plants use lots of tricks to attract and capture their prey. Some have brightly colored patches on their traps to attract prey, some have sweet scents, some have sticky and gummy parts, or are slippery and wet, or shaped in a way that prevents their prey from escaping. Enzymes and bacteria help break down the animals that get trapped.
Photosynthesis - We Don't Just Eat It, We Also Breathe It

Most people are aware of the fact of photosynthesis taking place all around them. Plants absorb light from the sun and use the energy in that light to convert carbon dioxide (CO₂) into new plant material.

There is also good general understanding that photosynthesis is the basis of all life on this planet.

Photosynthetic organisms, plants on land, and algae and photosynthetic bacteria in the oceans, are at the base of all food chains. Organisms eat them and are eaten by other organisms, and they, in turn, are eaten by yet other organisms in a food pyramid that ultimately gets to the level of humans, more quickly if you are a vegetarian and a bit slower if you are not.

At this level of understanding of the process, it is obvious that if photosynthesis were to stop tomorrow, almost all life on earth would cease to exist, the exceptions being a limited number of organisms that make a living on inorganic chemicals found in certain unusual environmental circumstances (e.g., hydrogen sulfide found in hydrothermal vents in the deep ocean).

It turns out that we owe even more to photosynthesis than that. Delving into a bit more detail, photosynthesis as carried out by all land plants and algae, and many photosynthetic bacteria, involves converting CO₂, light and water into sugar plus oxygen (O₂). The sugar is used to generate new plant material, and oxygen, a byproduct of the process, is released.

Going back 2 to 3 billion years ago, when this version of photosynthesis (known as "oxygenic" photosynthesis for oxygen-producing) first appeared, there was no free oxygen in the atmosphere. In fact, for up to 1 billion years after the appearance of oxygenic photosynthesis, the oxygen that was released was rapidly converted to water. At some point between 1 and 2 billion years ago, free oxygen began to appear in the atmosphere. That was bad news for many organisms because oxygen is a pretty toxic molecule (but that is another story) and mass extinctions clearly resulted from this development.

However, the appearance of oxygen in the atmosphere was a seminal event for other organisms because it allowed for the evolution of aerobic respiration. That is the process by which organisms metabolize sugars to produce the energy needed to carry out all the reactions that go on in a living cell. Chemically, aerobic respiration converts sugar and oxygen to CO₂, water and energy, the exact reverse of photosynthesis.

The significance of aerobic respiration to evolution results from the fact that it produces 18 times more energy per unit of sugar used than energy metabolisms that take place in the absence of oxygen (e.g., fermentations). This had a huge effect on evolution because organisms were no longer forced to live on the edge energetically speaking; they suddenly had struck it rich. This led directly to the evolution of the first multicelled organisms because organisms now produced enough energy to make specialized cells and tissues, a process that has continued on a line through to the appearance of our own species.

Life could exist on earth without free oxygen, but it would be relegated to a collection of single-celled organisms living in aqueous environments. Because humans still rely on aerobic respiration, we have become totally dependent upon oxygen in the atmosphere, and the continued production of that commodity requires continued photosynthesis. As an aside, free oxygen in the atmosphere also led to the appearance of the ozone layer, without which organisms could not live on land, except possibly somewhere like under a rock.

There is much else about the details of photosynthesis that is fascinating. However, the primary point I would like to get across here is that humans are totally dependent upon photosynthesis, not only as the basis for all of our food production, but also for continuing to produce the oxygen needed to allow us to convert that food into all the components that make up our cells and tissues. Remember that, not only when you sit down to breakfast, but also beforehand during your morning jog.

Contributed by James M. Siedow, Ph.D.
Vice Provost for Research
Duke University

APRIL 5, 2003

1st Annual Korean Garden Festival

Celebrating the 100th Anniversary of Korean Immigration to the United States

The First Annual Korean Garden Festival will be held on Ayres Hall lawn on Saturday, April 5, from 9:00 am to 4:30 pm. This all-day cultural event will highlight the Korean culture in a garden setting, sharing with the community at large Korean traditional gardens, music, art, dance, and food.

For the day, Ayres Hall lawn will be transformed into a Korean Village. Several Korean Garden displays, designed by local Korean landscape designers, will highlight the festival. The Korean Village will also feature a food court with traditional Korean foods, various forms of traditional Korean music and dance (including a children's choir), Korean art exhibition, Tae Kwon Do demonstrations, and informal demonstrations and lectures on gardening.

DON'T MISS THIS EXCITING CLASS: The ABC's of Plants taught in Korean by Jae Soon Song on Saturday, April 19, from 2:00-4:00pm in Lecture Hall A. The cost is $15 for members and $18 non-members.
GARDENING & COOKING IN A MEDITERRANEAN CLIMATE

As Southern Californians, not only do we enjoy the rare beauty of a Mediterranean climate, but also the flavorful cuisine that is characterized by fruits, vegetables and nuts.

In this class, the second installment of "Gardening & Cooking in a Mediterranean Climate," instructors Jill Vig, Curator of the Water Conservation Garden at The Arboretum, and Chef Steven Mary of Pasadena's Ritz-Carlton, will present a new palette of plants.

During the first hour, Jill will discuss the history and culture of the featured plant. In the second hour, Chef Steven will demonstrate his stunningly original recipes using the plant. Classes conclude with a light lunch to sample the dishes created.

CLASS FEATURES:
March 11  Fig
March 18  Pomegranate
March 25  Lavendar
April 1  Pinon (Pine) Nut
April 8  Artichoke/Cardoon
April 15  Persimmon

This is a series-only course. Cost is $95 for members, $115 for non-members. Reservations are necessary, as space is limited. To register, please call 626-821-4623.

ORIENTATION BEGINS IN MARCH

BECOME AN ARBORETUM VOLUNTEER

Warm up as winter wanes and put a spring in your step—join The Arboretum's volunteer team! The spring New Volunteer Orientation Series will be offered at The Arboretum on three consecutive Saturdays: March 15, 22, and 29, from 9:00am to noon.

These sessions are the first of two orientations offered annually by Los Voluntarios, The Arboretum's volunteer organization. The March classes are a condensed version of the six-week-orientation series, which will take place in the fall.

Participants will be treated to interesting behind-the-scenes tours of The Arboretum. Arboretum staff and volunteers will present lectures and discuss the diverse opportunities that are available to volunteers at the pastoral 127-acre botanical garden and wildlife refuge.

Los Voluntarios, over 250 strong, play a key role at The Arboretum. Volunteers can be seen in the charming gift shop, in the numerous theme gardens, in the offices, leading school tours, and assisting with special events. Last year over 270 adult and junior volunteers contributed approximately 2,000 hours to Baldwin Bonanza, The Arboretum's premier fundrais-

For more information and to obtain an application, please call Nancy Pirovano, volunteer coordinator, at (626) 821-4623.

Graduates of the fall Los Voluntarios new orientation series in The Arboretum's historical Coach Barn with fellow volunteers and Arboretum staff.
Please Join us for a Party on May 2!
Baldwin Bonanza
2003 Preview Party

As the prelude to Baldwin Bonanza Festival of Plants 2003, The Arboretum will host its Annual Baldwin Bonanza Preview Party and Silent Auction on Friday, May 2, 2003. This year's event is expected to be the most exciting gardening and botanical festival in Southern California.

Preview Party guests will have the opportunity to stroll through extensive plant gallery displays and visit beautiful landscape exhibits, designed by some of the most well known landscape designers in the Southern California area.

Most importantly, Preview Party guests will enjoy first pick of thousands of exciting and unique plants from The Arboretum collection and participating nurseries.

Wonderful cuisine from some of our community's finest chefs, along with an open bar for refreshments, will be featured and party goers will be able to partake in the excitement of a Silent Auction, featuring a tempting array of valuable gifts, trips, art, jewelry and other items.

The proceeds of the Baldwin Bonanza Preview Party and Silent Auction are to benefit The Arboretum. Tickets for this event are by reservation only and will be available for purchase through The Arboretum starting in March.

The Arboretum
of Los Angeles County

301 North Baldwin Avenue
Arcadia, CA 91007-2697
(626) 821-3222

AT THE ARBORETUM MAY 2, 3 & 4:
33rd FESTIVAL OF PLANTS
SALE & GARDEN GALLERIES
CELEBRATION

Preview Party Fundraiser
Friday, May 2 from 4:30 to 8:00pm

Members Only Plant Sale
Saturday, May 3 from 8:00 to 9:00am

Public Plant Sale
Saturday, May 3 and Sunday, May 4 from 9:00am to 4:30pm

Non Profit Organization
U.S. Postage
PAID
Arcadia, CA
No. 528

Admission
$5 Adults, $3 Students
and Seniors, $1 Children 5-12,
Free for children under 5
and Arboretum members

Hours
9:00 am to 4:30 pm daily
Closed December 25
www.arboretum.org