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Roots

“Far too long roots have lain hidden away in the ground. No one seems to have considered it worth while to dig them out of their obscurity, to give them more than a passing thought.”

With these sentences Vernon Quinn in 1938 introduced his book, *Roots—Their Place in Life and Legend*. Now, more than half a century later, the picture has changed considerably. Roots and root systems have attracted the attention of a diverse and expanding group of biologists and horticulturists.

The stereotypical view of a root is that of an underground, randomly branching network of tissue that functions to anchor the plant; to absorb nutrients from the soil; and, in some instances, as in carrots and radishes, to serve as a storage organ. Because roots usually grow underground, variations in their structure and habit are not easy to observe. But with careful excavation, it is possible to discover much about the root “life-style”. Depending on the species and the soil environment, root number and distribution can vary greatly. For some species most roots grow downward, often at a steep, nearly vertical angle. For other species most roots grow more or less horizontally, often near or just below the soil surface. These differences in root habit are exploited by humans. For



Recently germinated radish seedling.

Photo by L. Feldman

example, after fires, grass seeds are scattered on the burned hillsides. Roots of grasses grow near the soil surface and hence “knit” the soil together, preventing erosion when winter rains fall on the burned hillsides.

The relationship in the size (biomass) of the root system to the shoot system changes with the age of the plant. In young seedlings the size of root system is usually larger than the shoot, which is important for the establishment of the new plant. As the plant matures the ratio of root to shoot becomes almost equal. Thus, when gardeners “transplant” plants, they necessarily leave behind a large portion of the root system. This represents a real shock to the plant and is best overcome by restoring the root shoot ratio, which

is accomplished by pruning the shoot system at the time of transplanting.

The lifespan of individual roots has rarely been studied, but it can range from a week or two to several years.

While we tend to think of roots as only growing under-
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ROOTS *(continued from page 1)*



Photo by PLight

Prof. Feldman continues his lecture in the Tropical House.

ground, close inspection reveals that many roots do grow in the absence of soil. This circumstance is frequently encountered in roots specialized for a particular function, such as the roots of climbing ivy which secrete a substance that allows the plant to adhere to buildings and other surfaces. A particularly impressive example of root specialization is seen in tropical orchids. In these species the roots not only anchor the plant to the tree, but the roots also are specialized to absorb water which comes from heavy, but usually short downpours of rain. To capture and absorb the water in such a short time, the root has modified its outer surface with dead cells that function as a reservoir that fills rapidly with rain water, which is then gradually absorbed into the body of the plant long after the downpour has ended. Try pouring some water on these aerial roots, and you'll notice that they change color as the water is rapidly sequestered.

Gardeners know that crop rotation is important to maintain the fertility of soils. Crop rotations usually involve planting a member of the legume (pea) family alternating

with the main crop of interest. But why does soil fertility increase, and why do we plant members of the legume family? The answer can be had by looking at the roots, which on close inspection are "decorated" with little pink bumps, called "nodules". Within the nodules are found bacteria that are given a "home" and sugar by the plant, and in return, provide the plant with so called "fixed" nitrogen that can be used for the continued growth and development of the plant. While the nitrogen-fixing association between roots of legumes and bacteria is perhaps the best-known example of a beneficial relationship between roots and microbes, biologists have come to appreciate that roots of most plants have likely developed beneficial associations with soil microbes. Most widespread are mycorrhizal associations, which are an association between roots and soil fungi. The benefit of this association to the plant appears to be in increasing the supply of phosphate and micronutrients, such as copper and zinc.

We know that plant shoot systems compete for light. Is there competition between roots in the soil? Not unexpectedly, when resources are limited, competition increases, causing the plant to apportion more biomass to the root system, and often causing a change in the direction of root growth, with more roots growing downward, rather than horizontally. So in a garden of closely spaced plants, there is likely fierce competition going on below ground. The root is often out of sight; but to be a successful gardener, the root system cannot be ignored.

—Prof. Lewis Feldman

Prof. Feldman's research interests include plant growth and development, especially in pattern development in roots. He also has an interest in where and how gravity is perceived in roots, and for this effort has focused his attention on the root cap, the terminal-most region of the root.

See Prof. Feldman's web site for additional information about his research.
http://plantbio.berkeley.edu/faculty/faculty_pages/Feldman.html

NEW *email* OPPORTUNITY

If you would like to receive e-mail notices of upcoming plant sales, special plant promotions or the availability of unusual plants, please send us your name, phone number and e-mail address by e-mail to Michael Rimar at mrmr@berkeley.edu and we'll let you know of all the exciting plant offers here at the Garden.

—Alan Porter

DIRECTOR'S COLUMN

My first year has come to an end, and what a wonderful whirlwind adventure it has been. Despite continued budget cuts—related to the state's economic woes—we have not only kept our heads above water but have so far maintained all the staff and continued to make inroads into a number of infrastructure problems that have long plagued the Garden. I've alluded to many of the improvements that we have been able to accomplish in past *Newsletters*.

Briefly, some of the major items include building a new retaining wall at the Conference Center, a new retaining wall along the road leading to the Hammond Bird Deck in the Californian Area, repairing the floors in the staff building, and building the new state-of-the-art Jane Gray Research Greenhouse. All of these were made possible by generous donors. They were not without some "glitches". For example, the Jane Gray Greenhouse was completed in January but could not be turned on until July, because it was discovered that the power transformers in the Garden could not handle the anticipated electrical load; the campus had to upgrade the transformers.

Another major project (funded by the University) involved partial replacement of our antiquated irrigation system and bringing in potable water to the Conference Center; the original scope of the project was to do this for the whole Garden. To say that this project was disruptive is truly an understatement. It involved tearing up the entrance and trenching the entire road from the entrance to the Conference Center, making the Californian Area almost inaccessible at times. It was to be completed by May 9, well in advance of our rental season. To summarize, they missed the May 9 deadline, at least for 2004, and we suffered through the mess during our big June 19 Annual Garden Party, which, incidentally, was a great success. The project was completed and the promised new paved road was finally installed by the end of August. Two large back-flow preventer



Robert Ferber, shown here with Paul Licht, donated the Garden's new electric passenger vehicle.

valves will remain as a reminder near the entrance; they will be in a planting bed where we can hide them when we build the new Entrance.

The Conference Center face-lift is still in progress. So far, major changes are visible in the removal of large cabinets that blocked the windows, removal of the nasty corkboard from the walls and improving the look of the boards and projection screen. All this was done in-house with our very talented Gerald Ford, and his able student assistants. Future plans call

for new drapes and most importantly, new overhead lighting (to replace the current industrial fluorescent lamps); unfortunately, these require that we raise private funds. The effect will be to make the Garden a significant venue for rentals, conferences, etc.; in fact, I hope you will all keep this in mind as a great place for your events.

The Garden is not all about construction. Two major events since the last *Newsletter* were the annual Spring Plant Sale and the

Garden Party. I am pleased to announce that both were extremely successful; in fact, the best on record. Not only did they generate significant funds that are so precious, but the consensus was that a great time was had by all (the real measure of success for me). Neither of these would have been remotely possible without the dedication of the staff and a very large number of volunteers who participated in every phase of the work. While we continue to need more volunteers to support and expand our efforts, we certainly do not need better volunteers; we already have the best. These events also point out the value of having volunteers who have only limited time and who may be willing to work only on specific events. If you enjoy this kind of success, please contact us.

We are moving ahead with plans to start construction on the new **Entrance**. We have almost reached our funding target. In order to make the best Entrance possible, I urge you

(continued on page 4)

FIRST YEAR'S REPORT

...what a wonderful whirlwind
adventure it has been.

DIRECTOR'S COLUMN *(continued from page 3)*



Lively silent auction at the Garden Party.

to consider contributing toward completion of this project, the long held dream of our Garden community. Additional support will fund the smaller details that will make the Entrance even more welcoming and befitting of this

wonderful collection.

Finally and most important is the health of the collection itself. I'm very pleased to report that the Garden has never looked better. Having recently attended my first meeting of the professional society dealing with such things (American Association of Botanical Gardens and Arboreta), my own feelings about the collection were constantly reinforced by the opinions of others. Data I have been collecting over the past year, and feedback from visits to the other major gardens, reveal our standing in the world at large. It has become increasingly evident to me that we have one of the most diverse plant collections in the country and that we are unique in the quality of our collection: while 60% or more of our collection is of wild origin (collected from their native habitats), other similarly diverse collections typically have well under 50% and down to only 5% from the wild (they rely on "store-bought" plants and have a large proportion of cultivars). Our collection is very special and we must, therefore, strive all the harder to preserve our precious charges. I also think it imperative that we spread the word since full appreciation of what we have will help us better support it.

—Paul Licht

GARDEN WISH LIST

The Garden is in need of equipment and funding for specific projects. Please consider contributing toward the following:

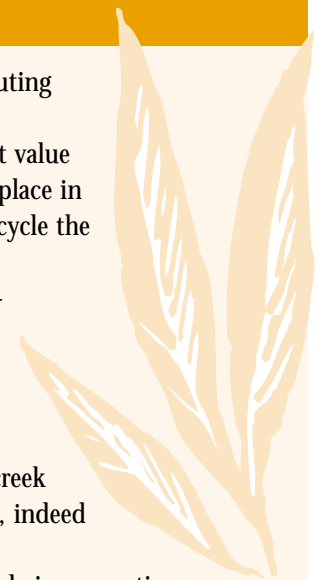
Chipper /Shredder: We have identified a specific piece of equipment that would be of great value to our horticultural operation: a portable chipper/shredder. It will allow us to chip plants right in place in the Garden, saving the effort of dragging branches up to the corporate yard, and allowing us to recycle the chips right into the beds. *The cost of a new chipper/shredder is about \$2,000.*

Wall in Asian Area: The old stone wall above the Strawberry Creek is slowly but surely succumbing to the forces of age and gravity. Donation of a new wall presents an excellent opportunity to name a significant Garden feature in someone's honor. *Cost of rebuilding the wall is estimated at \$50,000.*

Bridge over Strawberry Creek: In the interests of safety and in developing the aesthetic appearance of the Garden, a wooden, Asian style bridge is proposed for the lower crossing of the creek near the beautiful dawn redwood glade. This presents an opportunity to sponsor a most charming, indeed unique, named object in the Asian Area of the Garden.

Conference Center Renovation Project: Let there be light! Great strides have been made in renovating the Conference Center. The big white cupboards have been moved out – replaced by a more functional custom-built cabinet at the back of the room; all of the walls have been painted, and new curtains ordered. We still need funding to replace the old light fixtures in order to complete the renovation. *Ten new light fixtures are needed, each valued at \$500—please consider sponsoring a new light fixture.*

If you are interested in sponsoring a Wish List item, please contact Director Paul Licht, (510) 643-8999 or Janet Williams in the Garden Development Office at (510) 643-2937.



The Fall Plant Sale Is Coming!

Sunday, September 26, 2004
10 am to 2 pm

Silent Auction and
Member's Sale 9:00 am

Don't miss the Fall Plant Sale! Mark your calendar! It will be held on Sunday, September 26th from 10 am to 2 pm and will include a silent auction and a special Member's Sale at 9:00 am (memberships will be available at the door).

The sale will include a spectacular assortment of flowering *Lapageria rosea* (Chilean bellflower) and Gloriosa lilies. We will also offer a selection of potted bulbs including *Scilla natalensis* and several kinds of *Nerine* as well as bags of bare spring-flowering bulbs. You can also select from rare trees and shrubs from the Garden's collections including *Colletia paradoxa* and *Erythrina crista-galli*.

This year's sale will feature a dramatically increased selection of perennials, including extensive selections from the Garden's Mediterranean, South American and Australasian collections. For the adventurous we will offer several magnificent species of *Beschorneria* (Mexican lily). For those who love houseplants, we will feature *Aeschynanthus* from the Garden and wide selections of *Hoya* and *Begonia*. You can also select from several unusual grasses and restios from the collection including *Restio tetraphyllus* and *Chionochloa rubra*. We will also feature numerous choice cacti and succulents from the Garden's collections.

A special silent auction will include many gems for the plant and garden connoisseur. Just a few of the offerings include a very large *Sobralia leucoxantha*, two large *Lapageria rosea*, one white and one striped white and pink, the unusual hybrid *XChiranthofremontia*, large examples of *Passiflora parritae* and *Gunnera killipiana* and a dramatic *Helmholtzia glaberima*.

You can find a more complete list of plants to be offered at the sale, including orchids, tropicals, succulents, grasses, perennials, California natives, vines, trees and shrubs on the Garden's web site, <http://botanicalgarden.berkeley.edu>



Photo by Holly Forbes



Photo by Holly Forbes

TOP: This yellow *Sobralia leucoxantha* will be featured in the Silent Auction. BOTTOM: Flowering *Lapageria rosea* (Chilean bellflower)

GARDEN NOTES

NEW STAFF: Please welcome **Alan Porter**, new Volunteer Propagation Program Coordinator. Alan brings a wealth of propagation and organizational experience to this position. He retired from the practice of law in 2003, in which he was heavily involved in conservation easements and estate planning. Since then he has been volunteering in plant propagation and curation at the Garden, where his special skills quickly came to our attention. His predecessor, Lawrence Lee resigned in mid-June to pursue his private nursery business. We wish him the best of success.



Alan Porter

us with four years of experience from the California College of Arts in administrative support. Please also welcome **Jaime Scott**, our new Crops of the World garden manager. Jaime is a landscape architecture student at UCB and brings a keen interest in the special cultural significance of plants to her work. **Lauri Twitchell** continues in a new role, as School Garden Specialist. Last but not least, we welcome doctoral candidate **Elizabeth Baker** of Mills College, who has joined the Education team as a lesson study specialist. She will be working in schools with teach-

ers using the "Lesson Study" process as part of their professional development while they learn to use gardens to teach mathematics, science, and language acquisition.

NEW OFFICES: Former Garden director **Prof. Ellen Simms** and her students have moved out of the Plant Conservation and Research Center to their new space in the Valley Life Sciences Building.

The **Garden's Education Program** has moved into the Plant Conservation and Research Center, where they are now easily accessible to staff and volunteers.

EDUCATION PROGRAM STAFF: Please welcome **Dana Wellhausen** as a new administrative assistant, Dana comes to

NEW SHELVING...for the **Myrtle R. Wolf Botanical & Horticultural Library** will arrive in mid-September. Refurbishment of this new facility within the Plant Conservation & Research Center will combine the now separate staff and volunteer libraries into one excellent resource. The library will be open for reference use on Tuesdays and Thursdays of each week, as well as during the lunch hour Monday–Friday.

RESEARCH UPDATES

The Garden supports many research projects across the country and around the world. It often takes a few years for these projects to result in scientific publications. We were pleased to recently receive the following reprints:

Dortort, Fred, 2004. Under discussion: *Adromischus*. *Cactus and Succulent Journal* 76(1): 38-42.

Dortort, Fred, 2004. Under discussion: *Anacampteros*. *Cactus and Succulent Journal* 76(3): 108-113.

Freeman, C. Edward, J. Scott Harrison, John P. Janovec, and Ron Scogin, 2003. Inferred phylogeny in *Keckiella* (Scrophulariaceae) based on noncoding chloroplast and nuclear ribosomal DNA Sequences. *Systematic Botany* 28(4):782-790.

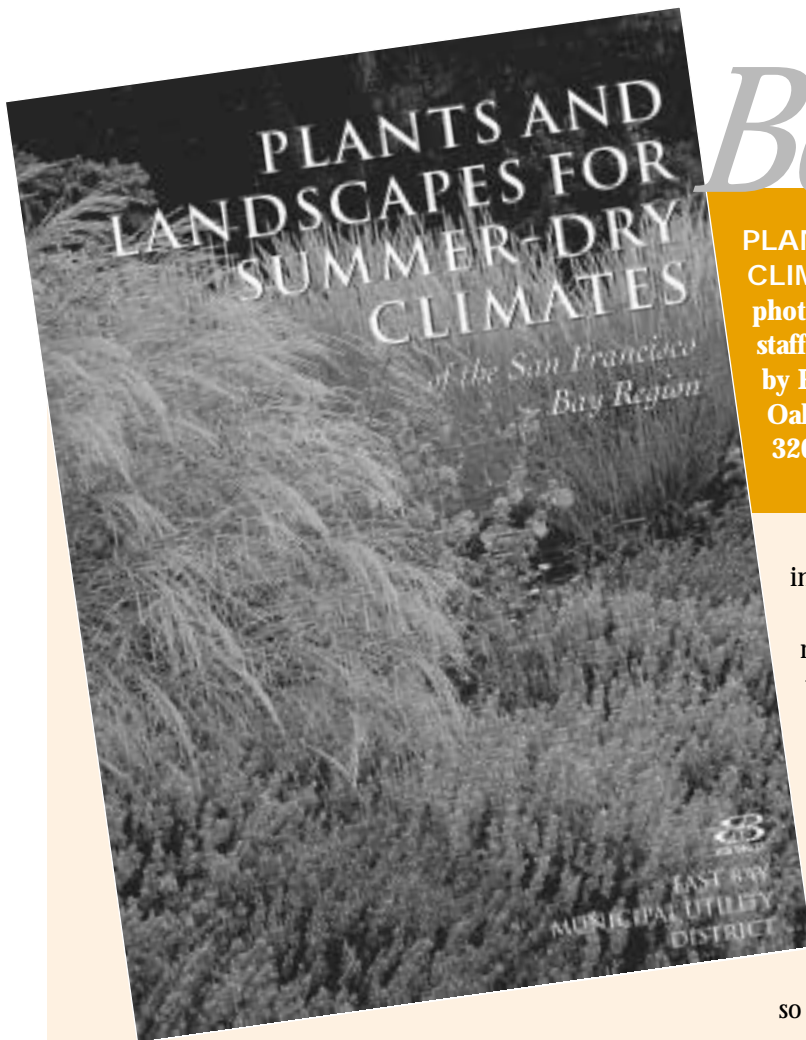
Guillon, Jean-Michel, 2004. Phylogeny of horsetails (*Equisetum*) based on the chloroplast *rsp4* gene and adjacent noncoding sequences. *Systematic Botany* 29(2): 251-259.

Koontz, Jason A., Pamela S. Soltis, and Douglas E. Soltis, 2004. Using phylogeny reconstruction to test hypotheses of hybrid origin in *Delphinium* Section *Diedropetala* (Ranunculaceae). *Systematic Botany* 29(2):345-357.

Oh, Sang-Hun and Daniel Potter, 2003. Phylogenetic utility of the second intron of *LEAFY* in *Neillia* and *Stephanandra* (Rosaceae) and implications for the origin of *Stephanandra*. *Molecular Phylogenetics and Evolution* 29: 203-215.

Schneider, Harald, Alan R. Smith, Raymond Cranfill, Terri J. Hildebrand, Christopher H. Haufler, and Tom A. Ranker, 2004. Unraveling the phylogeny of polygrammoid ferns (Polypodiaceae and Grammitidaceae): exploring aspects of the diversification of epiphytic plants. *Molecular Phylogenetics and Evolution* 31: 1041-1063.





Book Review

PLANTS AND LANDSCAPES FOR SUMMER-DRY CLIMATES OF THE SAN FRANCISCO BAY AREA; photos by Saxon Holt; prepared by the Water Conservation staff; Nora Harlow, ed.; design by Beth Hansen-Winter; illus. by Richard Pembroke; East Bay Municipal Utility District, Oakland, CA, 2004; charts; plant lists; bibliography; 320pp.; \$34.95, paper; \$49.95, cloth.

into the world we live in.

To give us a 'feel' for the natural environment surrounding our crowded cities, five plant communities with their signature plants are beautifully pictured and described. These communities are the foundation we are urged to use when we build our gardens and landscapes. In doing this we incidentally conserve energy and water, provide habitats for birds and butterflies, and establish urban sanctuaries for ourselves.

The many Bay Area experts—quite a few of whom are staff and volunteers at UC Botanical Garden—who have worked on this beautiful book for so long, have given us many tools with which we can make our garden plans. There is a fine plant catalog of more than 650 carefully chosen native California and other suitable plants to choose from, with recommendations on where to plant them, how to plant them, and how to care for them. The selected California plants will be happy in our gardens, and the non-natives will not become noxious weeds in our natural landscapes. There are outstanding pictures of the plants themselves and of the gardens they are growing in.

The writers, editors, artists, gardeners, horticulturists, nursery owners, educators, and especially the photographer, Saxon Holt, have every reason to be proud of this stunningly beautiful reference. All the experts are so well known in their communities that anyone using this book will find it much the same as talking with a well respected neighbor about their garden plans.

—Elly Bade

For many years EBMUD has urged its home subscribers to conserve water. They have put household hints in our water bills and built demonstration gardens for us to visit. They have employed landscape advisors to help us and they have published brochures and books for us to refer to. Now, in this long anticipated 2nd edition to their 1986 *Water-Conserving Plants and Landscapes for the Bay Area*, they have assembled a virtual *Who's Who* of Bay Area experts to produce a new, useful, and handsome reference for us to turn to.

Gardeners living in the nine San Francisco Bay Area counties experience warm, dry summers and cool, wet winters, the Mediterranean climate we all must work with when we garden. This 2d edition, with every piece of advice, every chart, every picture and every plant selected and described, is meant to guide us as we plan or renovate our gardens and landscapes so that they will fit seamlessly

All the Garden Has to Offer *Rental of Garden Facilities*

Whatever the occasion for the joyous gathering of family and friends at the celebratory event you are planning, we urge you to consider the Garden as the location to hold that special event. Events held at the Garden this spring and summer have included a 75th birthday, a wedding anniversary, a Bar Mitzvah celebration, and many weddings.

Every effort is being made to upgrade the facility for the enjoyment of renters. Recent renovations to the Garden's Conference Center have included: removal of the old cork board and repainting throughout, removal of the big white cupboards at the front of the Mirov Room which were replaced by custom-built cupboards at the back of the room, the installation of new curtains and reorganization of the white board. New canopies have been purchased to provide shade for those renting the

Terrace for events held there against the beautiful background of the cycad and palm collection. Still in the works is more modern lighting in the Mirov Room which will further improve the ambience of the room, making it all the more attractive, especially as a site for weddings (see Wish List this issue).

The Conference Center is definitely available for rental, despite ongoing construction projects at the Garden. The irrigation project, providing new pipes to the Conference Center, is almost complete and the new entrance project is slated to commence in October. Every effort will be made to accommodate renters during this construction and members are assured that the Garden continues to appreciate their renting the facilities during this period.

GARDEN BENCHES

Benches provide an enjoyable interlude during visits to the Garden, and are much appreciated by our visitors. Each bench donation also benefits the area in which it is located by providing funds for improved collection maintenance and redevelopment in its vicinity. Recent improvements facilitated by new bench placements include tree work, path re-routing, rock wall construction, soil amendment additions and the planting out of new accessions. We greatly appreciate the support of those who have contributed to the placement of these benches.

The bench program was reactivated in 2002 after several years' hiatus. These benches have been sponsored in the Garden since 2002, dedicated to the following individuals:

- Herbert Baker Tropical House
- John and Ginnie Chin Tropical House
- Alice and David Fong Southern Africa
- Ada and William Harrison Mather Redwood Grove
- Marianne Loring Australasia
- Keiko Morimoto Hentell Asia
- Dorothy V. King Asia
- Dorothy Nyswander California
- Herbert Phillips Australasia
- Carmella Tellone Mediterranean
- Benjamin Ulrich New World Desert



Photo by J. Williams

This new bench in the Australasian Area was dedicated to Marianne Loring.

Near the front entrance, in a shaded section in the Mexican & Central American Area, a large custom-built table was recently dedicated in honor of Sylvia Edeglass Bonnell. This table provides a great meeting or picknicking place and is already much appreciated by visitors.

Several new bench locations are currently available for sponsorship. The Garden would welcome your interest in supporting a new bench or table—please contact Janet Williams in the Garden Development Office at (510) 643-2937.

CURRENT MEMBERS

*August 1, 2004***Member**

- Arlin Aasness and Philip Youngholm
 Jessica Abbott and Oho Williams
 Ms. Grace Abiko
 Dr. Beatrice Abrams
 Susan and James Acquistapace
 Adachi Florist–Nursery
 Ms. Larissa Adam
 Willy and Charles Adam
 Bill and Cynthia Adams
 Greg Adams and Anne Battersby
 Denise and Tim Aedan
 Ms. Margaret Alafi
 Mr. Peter Albin
 Alden Lane Nursery
 Mr. Earl Alexander
 Valentin and Mary Ann Alexeeff
 Ms. Kara Aley
 Mr. Jeffrey Allen
 Dr. Bayard Allmond
 Judith and Roy Alper
 Ms. B. Sonja Altena
 Ms. Rhoda Alvarez
 Ms. Ann Amer
 Ms. Ella Ancheta
 Brian Anderson and Leda Schulak
 Ms. Catherine Anderson
 David Anderson and Helen Matzger
 Mr. Dean Anderson
 Ms. Mary Anderson
 Mr. Paul Anderson
 Ms. Sharon Anderson
 Mrs. Shawna Anderson
 Tom and Tamia Anderson
 Ms. Patricia Angell
 Annie's Annuals
 Mr. R. Howard Annin
 Robert and Evelyn Apte
 Ms. Mary Arbogast
 Carl Arnoult and Aurora Pan
 Mr. James Atwood
 Mr. Richard Atwood
 Linda Aurichio and R. Ellen Pearce
 Jennifer and Bill Ayer
 Ms. Elizabeth Bacon
 Bill and Elly Bade
 Ms. Elizabeth Bade
 Ms. Nancy Bailey
 Susan Bainbridge and Bruce Baldwin
 Ms. Judith Baker
 Ms. Mary Baker
 Ray and Pat Baker
 Ms. Tanja Baker
 Dr. Joseph Balciunas
 Fred and Elizabeth Balderston
 Ms. Tamara Baltar
 Mrs. Ruth Bancroft
 Jillian Banfield and Peregrine Smith
 John Banks and San Tso
 Margaret Banner and Hillary Hecht
 June and Eric Bannister
 Paul Barale and Kathryn Kenworthy
 Ruth and Korkut Bardakci
 Ms. Carole Barlin
 Mr. Carson Barnes
 Mr. Billy Barrett
 Ms. Marge Barry
 Penny and John Barthel
 Ms. Natalie Barton
 Mr. Steve Batchelder
 Ms. Jeannie Battagin
 Colin Baxter and Aya Kasai
 Ms. Catherine Beauheim
 Marcia and James Beck
 Ms. Georgia Becker
 Steve and Sara Beckman
 Dorie and Herb Behrstock
 Richard and Linda Beidleman
 Phil Beilin and Carrie Dovzak
 Mrs. Noreen Bendetti
 Mrs. Margaret Benedict
 Benicia Garden and Nursery
 Ms. Linda Benjes
 Ms. Kate Benn
 Mrs. Debbie Bennett
 Ms. Michele Benson
 Ms. Kirsten Berg
 Arthur and W. Jane Bergen
 James Berger and Marian Feldman
 Deborah and James Bergfeld
 Wendy and Robert Bergman
 Berkeley Horticultural Nursery
 Mrs. Carol Berkenkotter
 Mr. Alan Berling
 Garry Bernhardt and Howard King
 Thomas Berninzon and Judy Huarte
 Joan and Donald Bernstein
 Mr. Joel Bernstein
 Karin and Constantinos Beros
 Ms. Jennifer Berry
 Stephen and Marsha Berzon
 Felicia Betancourt and Charles Ellik
 Chris Bezek and Grace Constantine
 Mr. George Bhalzhak
 Ms. Silvia Biasi
 Mr. Mark Biglieri
 Amy Billstrom and Damien Curry
 Ms. Linda Bily
 Ms. Andrea Biren
 Ms. Edith Black
 Nancy Blackstock and Rudolph Isaac
 Mr. Jack Block
 Ms. Beverly Bloodworth
 Carole Bloomstein and Arata Kobata
 Deni and Mark Bluestein
 Kathy and Dan Boardman
 Dr. John Bodle
 Mr. Scott Bohning
 Mr. Michael Boland
 Cathy Bolding and Joe Meresman
 Heidi and Todd Boley
 Vincent Bones and Alicia Faugier
 Mr. Fraser Bonnell
 Joyce and Richard Boothe
 Liz and Richard Bordow
 Ms. Jacklyn Bort
 Ari Bose and Susan Carroll
 Ben Bowen and Renee Kosslak
 Ms. C. Bowen
 Dr. J. Bowen-Williams
 Michael and Sandra Bowman
 Ms. Marilyn Boxer
 Ms. Chava Boyarin
 Mr. Robert Boyer
 Ms. Lynda Bradford
 Christopher Bragg and Chris Shaw
 Ms. Barbara Brandriff
 Peter Brantley and Ann Hirocawa
 Samuel and Helen Breck
 Ms. Martha Breed
 Ms. Cristina Breen
 Ms. Marion Brenner
 William and Betty Ann Breslin
 Mr. Roger Brett
 Ms. Eleanor Briccetti
 Mr. James Brice
 Ms. Christine Brigagliano
 Mr. Marcelle Bright
 Lisa and William Brinner
 Ms. Rachel Broadwin
 Wanda and Gordon Bronson
 Ms. Zelda Bronstein
 Mr. Gerhard Brostrom
 Ms. Ann Brown
 Ms. Gail Brown
 Greg and Kathy Brown
 Jeffrey and Cathy Brown
 Ms. Kathleen Brown
 Mr. Steve Brown
 Mrs. Kevis Brownson
 Theresa Bucci and Melinda Russell
 Traude and Michael Buckland
 Ms. Annabelle Buffo
 Adrianna and Michael Bukay
 Mr. David Bullock
 Diane Burgess and Jonathan Redding
 Ms. Christa Burgoyne
 Dr. Leonard Burkhardt
 Dr. Richard Burnett
 Robert and Diane Burnham
 Kaare and Patricia Bursell
 Ms. Harriett Burt
 Ms. Susan Bury
 Barbara and George Butko
 Brenda Buxton and Stephen Walsh
 Phyllis Cady and Susan Mc Allister
 Ms. Niki Caldis
 Ms. Phyllis Calechman
 California Carnivores Nursery
 Katherine and Rob Calvert
 Pamela and Stclair Cameron
 Ms. Cristina Campbell
 Ms. Rebecca Cannon
 Sharon Caplow Todd and Diana Todd
 Ms. Janet Caprile
 Ms. Nancy Caputo
 Ms. Joanne Carder
 Ms. Nancy Carleton
 Fran Carlson and Robbin Clark
 John and Margaret Carlson
 Leana and Leif Carlson
 Thomas Carlson and
 Jennifer Sowerwine
 Ms. Jean Carmichael
 Ms. Edna Carpenter
 Ms. Deon Carroll
 Ms. Kathryn Carroll
 Ms. Miranda Carroll
 Ms. Janet Carter
 Mr. Mark Castantini
 Erika Chaine and Anastasia La Pointe
 Stephanie Changeris and Bruce Bonar
 Ms. Kathleen Chapek
 Mrs. Margaret Chase
 Ms. Michele Chase
 Allan and Lynda Chasnoff
 Mr. Norden Cheatham
 Mr. Brian Chen
 Lena Chen and Jess Speidel
 Tien-Pao and Yau Kun Chen
 Leila and Peter Chesloff
 Mr. Caleb Cheung
 Ms. Connie Chiba
 Graham Chisholm and Kelly Cash
 Berbie and David Chu
 Mrs. Julia Chung
 Mr. John Chwistek
 Ms. Susan Ciriclio
 Ms. Mary Clancy
 Ms. Marie Cleasby
 Mr. Charles Clemens
 Ms. Marcia Cloutier
 Daniel and Robert Coates
 Ms. Patricia Coffey
 Ms. Betty Coggins
 Murray and Betty Cohen
 Roger Cohn and Patti Brown
 Ms. Margaret Colbert
 Mr. Thomas Colby
 Doug and Connie Cole
 Mr. Peter Colley
 Neil and Judith Collier
 Ray and Norma Colvig
 Ms. Helene Conant
 Tom Condit and Marsha Feinland
 Ms. Allison Connor
 Ms. Jo Ann Cook
 Cathleen and George Cooper
 Copacabana Gardens Nursery
 William and Susan Copeland
 Mr. Jeff Corbin
 Ms. Karen Cormier
 Ms. Leslie Correll
 Mr. Allan Cose

CURRENT MEMBERS *(continued from page 9)*

- Ms. Francoise Costa
Cottage Gardens of Petaluma
Ms. Jane Coulter
Mr. L. Wm. Countryman
Richard Cowan and Kathleen Collins
Mrs. Barbara Cox
Mr. Harold Cox
Kirsten and Craig Cozzitorti
William and Marjory Craig
Janice and Kenneth Craik
Ms. Laurie Craise
Dr. Joanne Crawford
Dr. E. Patrick Creehan
Ana Cruz and Heath Silverman
Ms. Bena Currin
Marnie Curry and Steven Smith
Mr. Thomas Curry
Mr. Paul Da Silva
Dr. Mary Ellin D'Agostino
Orin and Winifred Dahl
Ms. Joy Dahlgren
Ann Dallman and Reynaldo Cordero
Ms. Cory Dalva
Mr. Lou Damerell
Mrs. Patricia Daniels
Ms. Dorothy Danielson
Mr. Paul Dannhauser
Mr. Stephen Danzer
Ms. Jeanne Darbinian
Mr. Philip Darlington
Mr. David Darr
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Photo by Garden Education Program

Jenny White and participant Peggy Storrs (Lawrence Hall of Science), discuss teaching tools during the Garden's Growing Learning Communities program this summer.

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Holly Forbes, *Editor*

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CALENDAR OF EVENTS

SICK PLANT CLINIC

First Saturday of every month. 9 am to 12:00 pm

UC plant pathologist Dr. Robert Raabe, UC entomologist Dr. Nick Mills, and their team of experts will diagnose what ails your plants. **Free. No reservations required.**

CHILEAN BELLFLOWER TOUR

Saturday, September 18, 2004 10 am to 12:30 pm

Celebrate Chile's 186th year of independence! Join Peter Klement, UCBG Horticulturist for the South American area, and Carlos Rendon, Lead Volunteer Propagator for Vines, on a tour to see copihues (*Lapageria rosea*). Learn the basics of their care. Enjoy Chilean music, dancing, and refreshments in the beautiful Mather Redwood Grove. **\$17, \$12 members. Registration required. Space is limited.**

FOODS OF THE AMERICAS EXHIBIT

October 7, 2004 through October 27, 2004 9 am to 5 pm

Feast your eyes on the vibrant textures and colors of the fall harvest in our Foods of the Americas exhibit. Schools may schedule a special 75-minute program for their classes.

Free with Garden admission.

SURVEY OF CALIFORNIA'S NATIVE TREES

Thursdays, October 7 through November 4, 2004 7 pm to 9 pm

Learn to identify many of California's famous trees with local native plant expert Glenn Keator. Illustrated slide lectures and a guided walk in the UC Botanical Garden's collection.

Walk is Sunday, October 10, 2004, 10 am to 1:30 pm.

\$155, \$135. Registration required. Space is limited.

FALL BIRD WALK

Saturday, October 9, 2004 9 am to 10:30 am

With Chris Carmichael, Associate Director of Collections and Horticulture, and Dennis Wolff, expert birder. Heavy rain cancels. **\$12, \$8 members. Registration required. Space is limited.**

RED TOMATOES, HOT PEPPERS, AND SWEET VANILLA

Saturday, October 9, 2004 2 pm to 5 pm

Discover the inner workings of the exciting food and medicinal plants native to the Americas with Dr. Margareta Sequin, chemistry professor at San Francisco State University, through an introductory slide lecture and walk through the Crops of the World Garden. Includes a tasting. **\$12, \$8 members. Registration required. Space is limited.**

CALIFORNIA INDIAN FOOD AND CULTURE PROGRAM

Sunday, October 10, 2004 12:30 pm to 2 pm

Learn how the Ohlone Indians make acorn soup, soap root brushes, and baked soap root bulbs in earth ovens. Taste manzanita berry cider and see how it's made. Craft activities for children—call for more information. **\$15, \$10 members, \$5 children. Adult must accompany children. Registration required. Space is limited.**

FOODS OF THE ANDES - POTATO FESTIVAL

Saturday, October 16, 2004 12:00 pm to 1:30 pm

Learn how potatoes are traditionally prepared from Peña Pacha Mama Bolivian restaurant. Event includes tastings and music. Children's activities include potato stamp art, make-your-own panpipes, and stories. **\$23, \$18 members, \$10 children. Adult must accompany children. Registration required. Space is limited.**

MAYAN AND AZTEC MEDICINAL PLANTS TOUR

Sunday, October 17, 2004 11 am to 12:30 pm

Explore the Garden's collection of Mayan and Aztec medicinal plants in the renowned Mexican and Central American Area with Horticulturist, Eric Schulz. Learn which ailments they were used to cure. **\$12, \$8 members. Registration required. Space is limited.**

DÍA DE LOS MUERTOS CELEBRATION

Saturday, October 23, 2004 12:30 pm to 2 pm

Explore the rich tradition and delicious foods of Mexico's Día de los Muertos celebration! Learn to make tamales from *Mi Tierra Foods*, and discover the history of the Mayan and Aztec uses of chocolate from Scharffen Berger Chocolate's Brad Kintzer. Includes tastings. Children's activities include paper marigolds and papel picado flags and stories. **\$23, \$18 members, \$10 children. Adult must accompany children. Registration required. Space is limited.**

AUTUMN IN ASIA

Sunday, November 7, 2004 10 am to 12 pm

A walk through the fabulous Asian Area to see the many hues of fall with Horticulturist and Asian plant expert Elaine Sedlack. **\$12, \$8 members. Registration required. Space is limited.**

WINTER BIRD WALK

Saturday, January 22, 2005 9 am to 10:30 am

With Chris Carmichael, Associate Director of Collections and Horticulture, and Dennis Wolff, expert birder. Heavy rain cancels. **\$12, \$8 members. Registration required. Space is limited.**

Call 510-643-2755 for more information or to register. Reservations are required for all programs and events, except the Sick Plant Clinic and Plant Sales. Parking is available in the UC lot across Centennial from the Garden Entrance. Program fees include Garden admission. Register early, class space is limited. Cancellations received at least two weeks prior to program date are subject to a \$10 service fee. Program fees of \$10 or less and cancellations received less than two weeks prior to the program are non-refundable. Program fees will be refunded if the Garden cancels the program.

GARDEN HOURS: The Garden is open from 9 am – 5 pm year round. Closed first Tuesday of each month.
The Garden Shop is open 10:30 am to 4:30 pm daily.

University of California Botanical Garden
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Public Tours are offered at 1:30 pm each Thursday, Saturday and Sunday. Call (510) 643-2755