Vol. 29, Numbers 3 & 4 Published by the UNIVERSITY OF CALIFORNIA BOTANICAL GARDEN at Berkeley Summer/Fall 2004

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 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 underground (continued on page 2)
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

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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 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)
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

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 cristagalli*.

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 tetrathyphlus* 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, tropicaIs, succulents, grasses, perennials, California natives, vines, trees and shrubs on the Garden’s web site, http://botanicalgarden.berkeley.edu

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**FALL SEASON IS THE BEST TIME FOR PLANTING MOST SPECIES IN CALIFORNIA.**
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.

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 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 teachers 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 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:


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 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 be 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
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.

B
genches 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

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 picnic 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.
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August 1, 2004

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Ms. Krista Glickman
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Tracey Goldberg and Paul Pierson
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Danielle Goldman and Daniel Zach
Phyliss Goldsmith and John Link
Robert Goldstein and Anna Mantell
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Suzanne and Jean Good
Howard and Reka Goode
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Hebert and Susanna Goodman
Ms. Mildred Goodman
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Mr. Gordon Gould
Linda Ann and Greg Gowan
Mr. Hammond David Gowan
Ms. Doris Graesser
Grand Lake Ace Garden Center
Ms. Heather Graves
Carol and Michael Gray
Mr. David Gray
Ms. Katherine Greenberg
Kathy and Peter Greenstein
Ms. Denise Gregory
Tim and Julie Gregory
Ms. Letitia Grenier
Laura Griswold Nelson and Charles Nelson
Sylvaine and Randy Griffin
Martha Griswold and Laurence Elias
Eliane and Arnold Grossberg
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Mr. Paul Grunland
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Guerero Street Gardens
Sophie Guillen and Larry Haynie
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Dolly and George Gurrola
Ms. David Gutierrez
Michael and Margaret Gutierrez
Dr. Laurel Habib
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Dr. Jeffrey Hagenah
Ms. Constance Hale
Dennis and Jane Hall
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Perry Hall and Larry Kass
Mr. Ian Hallwell
Dina and Adrian Halme
Ms. Elaine Halnan
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Ms. Chizu Hamada
Darlene and Joel Harnady
Eugene and Joan Hammad
Charles and Laurel Hammon
Jane Hammon and John Skonberg
Mr. Harold Hanham
Maureen Hanlon and Ricardo Charles
Happy Valley Garden Club
Garden Greenduff day campers try their hand at a "Math in the Garden" activity. The Garden leads this multi-institutional curriculum development program funded by the National Science Foundation.
M. Karen LeGault
Prof. James Leby
Ms. Kathryn Lenhart
Dr. Anthony Lepire
M. Richard Lerner
M. Roger Leventhal
James Lewis and Tamara Attard
James Lewis and Lisa Hales
Ms. Patricia Lewis
M. D. Y. Liao
Ms. Laura Licciardone
Martin and Charlotte Lichterman
William Lidicker Jr and Louise Lidicker
Ines and Robert Likuski
Sasha and Kathleen Lilley
M. Tze-Hsiou Lin
M. Richard List
Ms. Kathie Longinotti
Ms. Lyn Longley
Dr. Mary Loomis
Fabio Lopez-Lazaro and Gwenyth Claughton
Ms. Kay Loughman
William and Pamela Lucke
Ms. Sandy Lundgren
M. Kevin Luo
Ms. Sandi Lutsko
Ms. Suzanne Lutz
Ms. Lauren Lyle
Ms. Barbara Lyss
Ms. rahylvan Mcack
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Ms. Dorothy Jane Mack
Ms. Bonnie Mackenzie
Anne Macchilian and Johan van der Zande
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Ms. Karen Mahishi
Dr. Eugene Magerowicz
M. D. Dan Mallach
M. Tony Mandel
M. Suzanne Manguis
Mr. Edward Mann
David Marcus and Karen Friedman
Frank and Manetta Marcus
M. David Margolis
Marilyn and Harry Margulis
Claudine and Stephanie Marquet
Ms. Meredith Marschak
Ms. Jacqui Marshall
Ms. Rebecca Marthinsen
Christopher Martin and Kimberly Cross
Ms. Toni Martin
Ms. Veronica Martin
Joseph Martin and Dianne Wozniak
Rani Marx and Jim Kahn
George and Doris Masaich
Ms. Masha Maslan
Carrie Mason and Walter Rockholt
M. Pradeep Mathew
M. Jane McLean Mathis
Ken and Moolleen Matsumura
John and Valerie Matzger
M. Delle Mawell
Ms. Phillips May
Roland and Gwen Mayne
Rebecca McCree and Ronald Macaruso
M. Mary MCitty
M. Ernest Mc Cormick
M. William McCoy
M. Anna McDiitt
M. Richard MCrew
Dr. Terri McGinnis
M. James McGrew
M. Helen McKinley
M. Patricia MCnight
M. Sylvia MCLaughlin
M. rs. Pamela MCnab Lifshay
M. Shirley MCPheeters
M. rs. Callie MCRoskey
Terry and Lois Maud
M. rs. Paula Mader
Dahesh Medora and Robin Webster
M. Caren Megrablain
M. Michelle MEhron
Dr. William MERedith
James and Patricia Merrill
Paul and Deana MErez
M. Kathleen MDtz
Christine MEurs and Andrew Lovell
M. Robert MICHelsen
M. Elisa MKiten
M. Kathy MIl
M. rs. Jane Mller
M. Laurel Mller
M. Marie Mller
M. Peter MLler
Robert and Janice Mller
M. Sam Mller
Nick and Alison Mllls
M. Beth Mline
Carolyn Min and Nancy Min
Miniature Plant Kingdom
M.rs. Diane MIsaka
M. Carolyn Miyashita
M. Giaconsa Molinari
Dominic MONTagu and Diep Ngoc Doan
M. Mary MONTgomery
Bruce and Judith Moorad
Everett and Julia Moore
M. Leba Morimoto
M. Elisa Mork
Kenneth Morris and Elizabeth Robinson
M. Dolores Morrison
Gloria and Glenn Morrison
M. rs. Florence Morrison Clark
M. s. Eleanor Moses
Mostly Natives Nursery
M. Suzanne MOUNT
M. Ellen MOyer
Joanne and Dean Muench
John and marilin Muenchow
M. Nancy Mulvany
Richard and Martin Murray
Bettina Mutter and David Atkins
Joel Myerson and Peggie Radil
Jamie and Robert Narberes
M. s. Hope Nathan
M. Sarah Nathie
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M. rs. Juanita Nielands
M. s. Lisa NELbach
M. r. Leonardo Nelson
M. Nancy Ann Nelson
M. r. Tom Nelson
M. Jane Neville
Lucinda and Steven Newcomb
M. r. Leon Newton
Marlowe Ng and Sharon Ulrich
Robert Ng and Aihwa Ong
M. s. Mira Nichols
Julie Niedermayer and Steven Singer
Palle Nielsen and Amy Carta
M. Carol Noble
Anita Noennig and Ingrid Martin
M. r. Charles Nold
M. r. John Norheim
M. Betty Nostrand
Jacqueline and Gareth Noyes
The Nursery at Emerisa Gardens
Alan Unns and Mary Rogen
M. George Nutting
Ron Nyren and Sarah Stone
M. s. Lois Oakes
M. r. Kurt O’behrus
M. r. Michel O’beeter
Diana and Donald Obrinsky
M. Patricia O’Gillooly
Ginger Ogle and Wayne Christopher
M. s. Lynn O’Hara
M. s. Beatrice O’Keefe
M. rs. Amor Olavario
M. r. Matthew O’Reilly
M. s. Jayne Oshiro
M. s. Sharon Osmond
M. s. Louise Ostrom
M. s. Dianne Oswald
Esther and Robert Oswald
Wayne and Elaine Ove
Jennifer and Mohamad Ouzer
M. Marc O’zh
M. s. Mary Charles Page
M. s. Sarah Pallo
Tom and Mai Panas
M. s. Robin Parer
M. r. Amos Parker
Ann Parker and Lisa Chrisman
Evan Parker and Lloyd Hierce
M. r. Ivan Parr
M. rs. Betty Parsons
M. s. Anne-Marie Pastor
Leslie Patterson-Werner and Stuart Werner
M. s. H. Ileigard Passon
Bonnie Payton and Doug Earp
M. s. Julie Peer
Richard and Joanna Pearlman
M. s. Ruth Peizer
Claire and Jerry Pendleton
M. r. Elena Perez
M. r. Malcum Perkins
M. r. Lucas Pernetti
M. s. Marilyn Perry
M. r. David Peters Shell
Larry and Madeline Petersen
M. s. Carollee Peterson
M. s. Ellen Peterson
Wendy Peterson and Arthur Abraham
M. r. David Pickell
M. s. Cheri Plies
M. s. Lisa Pine-Schoonmaker
Kay and Jan Pinkava

**CURRENT MEMBERS** (continued from page 11)

This image of the rare Magnolia sharpii (of southern Mexico) was used on the cover of the 2004 calendar produced by Campus Copy Service of UCB. Multiple images of the Garden, taken by staff and volunteers, were used on each succeeding page.
CURRENT MEMBERS (continued from page 13)

Reginald and Pat Ungern
M r. Chris Valentine
M s. Carol Valk
Don and Kay Van Acker
M s. Eileen Van Huit
Jon Van Huit and Loretta Koll
Connie Van Ness and
Claudette Robinson
Mr. Leon Van Steen
Jan and Tom Vargo
Kumar Vedantham and Carol Schaffer
M r. Ze’ev Vered
M s. Colleen Vetter
M r. Donnel Vicente
M s. Jean Vieth
Vintage Gardens
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Claudette Robinson
Alan Volpe and Connie Anderson
Emma and Micky VonRydingsvard
M s. Regina Vorhies-Dailey
Dr. Linda Ann Vorobik
Helen and Martin Wachs
M s. Anne Wagner
M s. Sarah Wagner
Lisa and Kenneth Wahl
M r. John Wakabayashi
David and Maraviee Wake
M s. Sandy Wals
M s. Julie Walman
John Walker and John Terry
M s. N. Kjersten Walker
Abbey and Alonzo Walker
Annie and Jean Walrand
Laurie Walters and Bill Littman
M s. Sharon Walters
M r. John Waks
M r. Robert Watts
Cecile and Harold Weaver
Carl and Karen Webb
M s. Patricia Webb
M s. Sarah Webb
M s. Cella Wedding
David and Jill Weed
Clarence and Carol Weinmann
M s. Herta Weinstein
Susan Weiss and Christopher Alonzi
Eric and Marni Welch
M s. Allison Wells
M s. Victoria Welsh
Kuniko Welton-Wu and Hung-Hsi Wu
M s. Xander Wessels
West End Nursery
West Teak Inc.
Western Garden Nursery
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Dr. Cerie Wetzal
M s. Idell Weydemeyer
M s. Christine Whalen
Baird and Mary Ann Whaley
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M s. Elise White
M s. Susan White
Catherine Whiteside and
Peter Mikkelsen
M s. Marilyn Whiteside
M r. Brian Whyte
M r. Richard Wigen
M s. Sarah Wilkander
M r. Terry Wilkens
M s. Miriam Wilkins
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Kathy and Lou Williams
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M s. Pamela Williams
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Ms. Veva Winkelstein
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M r. Charles Wiminer
M r. Richard Winninger
M r. Hartmut Wisch
Pamela Wittenberg and
Candace Fagerlin
M r. Evan Wolf
M s. Dee Shea Wong
M r. John Woodfill
Virginia and Joseph Woods
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M r. Robert Wright
M s. Linda Wroth
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Kenneth and Ellen Yomamoto
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M rs. Jessie Yasaki
M s. Gail Yeland
M s. Azusa Yoshikoka
Cathryn and Donald Yost
M . Janis Young
M s. Alison Zaremba
M s. Judy Zevler
M s. Janice Zeppa
M ichael and Suzanne Ziegler
M r. Mal Zirker
M s. Elizabeth Zuselain
M s. Mary True

Supporting
Arthur and Deborah Albin
Carl and Margo Anderson
Tom and Tamia Anderson
Dorothy and Richard Anneser
M s. Maureen Appel
Alan and Helen Appleford
Joseph and Clara Barbacca
David and Lorene Benning

Lee and Ervin H after
M s. Margaret H alland
Ross and Virginia Hambly
Amanda H amilton and Tim Hemmeter
M r. Charles Harrington
M s. Gene Hasian
M s. Virginia Havens
H arry and Kathleen Heckman
M s. Diane Henry
Robert and Maraviee Hicks
Hillside Gardeners of Montclair
M s. Elizabeth Hook
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Justine Hume and Uraula Schulz
Eleanor Jardine and Antonia O’Hare
M s. Elizabeth Kasak
Rose Katus and David Fyfe
Patricia and Elizabeth Kinman
M s. Toni Klassen
M r. Royal Kopperud
M r. Thomas Koster
M r. Neal Kramer
LaVerne and Douglas Leach
Dan Levin and Gayln Susan
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Jim Lovekin and Iris Tommelen
Peter Lyman and Barrie Thome
M s. Patricia Malango
M r. Bill Mohn
M s. Emily M琪宾
Barbara and John M cNeel
M s. Marian Merril
M r. Ron Morrison
M s. Deborah Mullican
Wahl
John and Barbara Nagle

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

Dr. Paul Licht, Director

ADMINISTRATION

Perry Hill, Programs Coordinator & Visitor Services
Rose Katsus, Management Services Officer
Afooz Naff, Administrative Assistant

Margaret Richardson, Tour & Rentals Coordinator
Michael Rimal, Administrative Assistant
Candice Schott, Volunteer & Business Services Coordinator

JAPEL WILLIAMS, MARKETING & DEVELOPMENT OFFCER

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Holly Forbes, Curator
Barbara Keller, Curatorial Assistant
Anthony Garza, Supervisor of Horticulture and Grounds

John Domzalski, Propagator
Bill Barany, Horticulturist
Colin Baxer, Horticulturist
Judith Finn, Horticulturist
Peter Klement, Horticulturist

Jerry Parsons, Horticulturist

Dr. Robert Raabe, Garden Pathologist
Eric Schulz, Horticulturist
Elaine Sedlack, Horticulturist

Garden Pathologist

Nathan Smith, Horticulturist

Gemma Von Knopka, Assistant Horticulturist

Gerald Ford, Building and Grounds Maintenance

Alan Porter, Volunteer Propagation Program Coordinator

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Lauri Twitchell, School Garden Specialist

Dana Wellhausen, Administrative Assistant

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Dr. John Taylor, Plant and Microbial Biology

NEWSLETTER

Holly Forbes, Editor

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642-0849

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643-2937

Director’s Office

643-8999

Education

495-2805

Entrance Kiosk

643-2755

The Garden Shop

642-3343

Plant Collections

643-8040

Tours/Rentals

643-3352

Volunteers

643-1924

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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, UC Botanist 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.
$135, $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. Margaret 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.

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 Mí 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.

WINTER BIRD WALK
Saturday, January 22, 2005 9 am to 12:00 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.

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.

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