

## Plant Hunting in Morocco (continued)

Dr. Robert Ornduff, Garden Director, will give an illustrated lecture on his recent trip to Morocco. Parking available adjacent to Morgan Hall at nominal charge payable at West Gate Entrance to the Campus, reached from Oxford and University Avenue, Berkeley.

### BOARD OF TRUSTEES NAMED BY FRIENDS OF THE BOTANICAL

Lincoln Constance, Howell V. Daly, Jr., August Frugé, Elizabeth W. Hammond, Alice Q. Howard, Mary Lee Jefferds, Robin Parer, Marvin Schmid, and George Wasson are now members of the Board of Trustees. They join ex-officio Board members Chancellor Albert Bowker, Botany Department Chairman O'Neil R. Collins, Garden Director Robert Ornduff and officers Jerome Carlin, President; Fitzhugh S. Rollins and Marjorie Schmidt, Vice-Presidents; Nancy R. Wilson, Secretary; and Vincent A. Clemens, Treasurer to complete the Board of Trustees roster.

## FINANCIAL SUPPORT

### GRANTS RECEIVED

The Botanical Garden has received a two-year grant of \$15,000 from the Stanley Smith Horticultural Trust that will support collections of seeds and cuttings of plants in southern Mexico, particularly those of potential horticultural merit. During the first year of the grant Dr. Dennis Breedlove of the California Academy of Sciences, will spend three months in southern Mexico making the collections, which will then be established at the Garden. The second year of the grant will support various horticultural activities of the Saratoga Horticultural Foundation, which will screen the accessions for various desirable characteristics and ultimately introduce choice woody species into the horticultural trade.

Prytanean Alumnae, Inc., Berkeley campus, to fund publication of a trail guide for the Mather Grove, with grant of \$500.

### PLANT SALE SUCCESS

The Docents netted in excess of \$10,000 at their May 1 plant sale. Held in Memorial Stadium in the enclosed area adjacent to the bleachers along Rim road the site offered special advantages in terms of set-up, traffic pattern, and viewing and the Docents have enthusiastically accepted the invitation of Mr. David Maggard, Inter-collegiate Athletic Director, to use the same site for their plant sale on Saturday, May 14, 1977. They voted to allocate \$10,000 to the Garden to be used for the following projects: (1) to cover the salary of Annie Hannan, Educational Assistant, in excess of the amount funded; (2) to provide necessary facilities to accommodate the Docents' potting activities; (3) to develop, in a modest way, the area where the old propagation house stood as an assembly site for tours and possibly as the site of a kiosk for sale of booklets; (4) to fund several additional outdoor markers and the printing of several additional booklets; (5) to start the development of a Himalayan area to accommodate the plants brought back by Bruce Bartholomew from Bhutan and those grown from seeds and cuttings secured from other collectors and Botanical Gardens.

Special thanks for the success of the plant sale are due to the Chairperson, Jean Vogt; Treasurer, Margaret Mitchell; Poster Designer, Nancy Bechtle and most particularly to those Docents who faithfully showed up to pot each Tuesday and Thursday.

## STAFF NEWS

### APPOINTMENTS AND RECOGNITION

Director Ornduff has been appointed to the Scientific Advisory Committee of the Pacific Tropi-

## APPOINTMENTS AND RECOGNITION (continued)

cal Garden, Kauai. Horticulturist Wayne Roderick accepted an appointment as Supervisor, Tilden Botanic Garden, East Bay Regional Park District, leaving the Garden staff August 20 after 16 years of service. Mrs. Pamela Reis joined the staff as Administrative Assistant succeeding Ms. Gloria Gamblin now with the U.C. Press.

## SUMMER ASSIST TO GARDEN STAFF

This summer we have had working in the Garden 3 on the Work Study Program, 3 from the Youth Employment Services (YES), 3 from the Work Incentive Program (WIN), 4 from the Spanish Speaking Unity Council, as well as 2 volunteers. Each has worked under the supervision of a regular Garden staff member.

## COMINGS AND GOINGS

In April, Director Robert Ornduff visited Crete, Tunisia, and England. In Crete he collected about 30 accessions of *Ophrys* spp., *Cyclamen* spp., *Iris* spp., *Muscari* spp., *Allium* spp., and a few woody plants for the Garden. In late July and early August he travelled to the southeastern United States for field studies connected with his research but also managed to acquire a few desiderata for the Garden collection.

## CURATOR REPORTS

### NOTABLE ACCESSIONS

For the first time we have obtained seeds from the Kunming and Lushan Botanical Gardens of the People's Republic of China. Both of these gardens are in areas of considerable pytogeographic interest. Kunming in Yunnan Province of southwestern China is in an area that probably has the richest temperate woody flora in the world, and this region is the source of many plants of horticultural value. Lushan Botanical Garden in Kiangsi Province of central China is in an area of Mixed Mesophytic Forests which have many species that should grow very well in our area.

We have received two shipments of seeds from Thomas Veblen of Valdivia, Chile and one shipment from Evaristo Lopez of Peru. Both of these people were given grants to collect seeds for us from money raised during the first plant sale.

One of the very interesting plants collected by Dr. Ornduff in Chiapas, Mexico is *Gunnera killipiana*. This is a much smaller plant than the enormous *G. manicata* that we have in the Dell Pond and has been planted in a moist area among our collection of Mexican Fuchsias.

An interesting addition to our new Tropical House that Bruce Bartholomew brought back from Hong Kong last winter is *Durio zibenthinus*. The Durian is a large tree from Southeast Asia that has five to ten pound fruit that are covered with heavy sharp spines. The light brown fleshy arils that surround the egg-sized seeds have a texture that is like a mixture of custard and library paste with a flavor of ripe cheese, rotting onions, and turpentine. Durians are highly esteemed by many in Southeast Asia although some people find the smell nauseating.

### HIMALAYAN AREA

One of the projects that has been funded with money from this year's plant sale is the development of a Himalayan area using the bed at the lower side of the lawn. This bed is one of the most conspicuous parts of the Garden but has been one of the least attractive and botani-

## HIMALAYAN AREA (continued)

cally least interesting. We already have many plants for this area that were collected by Bruce Bartholomew in Bhutan and India as well as other Himalayan plants obtained through our exchange program. We plan to add drains to part of the bed that is always too wet and will then bring in additional soil to mound up the center of the bed. The bed will then be landscaped with rocks, and the plants that we are already holding in the lath house will be established. The renovation of this bed will not only be an attractive addition to the Garden but will add a new dimension to the geographic areas represented in the Garden.

## EDUCATION PROGRAM

### TEACHER WORKSHOP

A Teachers' Workshop involving twenty-two teachers from seven nearby school districts was held at the Botanical Garden on July 15 and 16. Annie Hannan, Education Assistant, and Trix Machlis, Education Coordinator, guided the teachers through three half days of a mini Docent-training program in which they surveyed those parts of the Garden most often covered in school tours. The final half day's workshop convened in the Mather Grove amphitheatre when Garden Director Robert Ornduff, Associate Director Nancy Vivrette, and representatives from the U.C. Department of Education, Richard Ponzio, and Kenneth Peterson, and Paula Skene, Coordinator Instructional Laboratories, met with the teachers and with Annie and Trix to map out possible curriculum projects which could be developed by the teachers for their own classes using the resources of the Botanical Garden. The group had another all-day workshop at the Garden on Aug. 24 and will meet at regular intervals throughout the year with the resource representatives from the Garden and from the campus Education Department to develop their curriculum units and to package them so that they can be utilized by other teachers.

### SOS SUMMER PROGRAM

The Special Opportunities Scholarship program (SOS) ran a six week program in Ecology from June 21 to August 6 for ten high school students using the Garden meeting room for lectures and formal laboratory and the full range of the Garden, the Mather Grove, and field facilities as an extended laboratory. This is the second year in which John Matsui, M.A. in Zoology from U.C. Berkeley, has conducted this course but this is the first summer it has been based in the Botanical Garden. John focuses on the problems plants and animals face in their daily struggle to survive and to reproduce and on the adaptation they have evolved to cope with crucial environmental factors affecting them. The Garden staff and the SOS program welcomed the opportunity to cooperate on using the Botanical Garden for this program which encourages students of high academic ability who may lack adequate preparation and motivation for realizing their potential.

### SATURDAY GARDENING PROGRAM

The Saturday Gardening Program, running from May 15 to Oct. 16 is in full swing with 25 enrolled. Ruth Halbach is in charge and is assisted by Docents Karen Davis, Linda York, Carole Schemmerling and Education Coordinator, Trix Machlis. Special demonstrations on mulching, composting, edible weeds, and a visit to Integral House have been sandwiched in between the development of individual plots and a small community plot.

### SPECIAL ELEMENTARY SCHOOL PROGRAMS IN THE GARDEN

During the past school year, the Botanical Garden and the Mather Grove ponds were used by professional biologist and Docent Erika Kunkel for elementary school programs involving the Orinda and Berkeley school districts.

A two-semester Biology program, set within an ecological framework, and given to two fifth-

## SPECIAL ELEMENTARY SCHOOL PROGRAMS IN THE GARDEN (continued)

grade classes from the Wagner Ranch in Orinda focused on materials collected from the ponds in the Mather Grove area. The ponds provided the students with a basic stock of producers, consumers, and decomposers. They learned to grow, culture, and observe these organisms in the classroom as a basis for developing the general concepts of the Science Curriculum series involving Organisms, Life Cycles, Populations, Communities, Environment and Ecosystems.

Another course entitled "The Role of the Plant in the Ecosystem" was given by Erika to 14 gifted children in the fourth, fifth and sixth grades of the Berkeley Public School System during the months of April and May. The students started with a study of the pond community and progressed during the eight class meetings through the more complex plant phyla as they develop in terrestrial ecosystems.

## DOCENT TOUR PROGRAM

Very special thanks are due to Ruth Halbach who, as a Docent volunteer, handles the time-consuming job of lining up the Docents to lead our scheduled tours. During the fiscal year ending June 30, 338 scheduled tours accommodating 4602 individuals were led by Docents. About 25% requested a general tour of the Garden. A popular alternative to the tour of the California area is a combination tour in which a contrast is drawn between Life in the Forest and Life in the Desert. About 75 special tours were given covering such topics as the herb garden, the succulent collection, the pond community, plant adaptation plant diversity and a sensory awareness tour especially for primary school children.

## DOCENT OFFICERS

Ruth Hendrix will continue for a second year as Chairperson of the U.C. Botanical Garden Docents. Other officers include Karen Davis, Vice-Chairperson; Mary Moffatt, Secretary; and Margaret Mitchell, Treasurer. Jean Vogt who did such a magnificent job as Chairperson of the Docent Plant Sales in 1975 and 1976 has turned over this job to Mary Schroter for the 1977 spring sale.

## DOCENT TRAINING AND CONTINUED ACTIVITIES

Thirty-two Docents, who began their training in mid-January, with a three hour meeting each week, completed their course in mid-June swelling to approximately fifty the number of active U.C. Botanical Garden Docents. Trix Machlis, Education Coordinator, and Annie Hannan, Education Assistant, collaborated on running the program assisted by many specialists who gave lectures, special tours, or demonstrations. These included members of our Garden staff: Drs. Ornduff, Vivrette, and Bartholomew, and Wayne Roderick, Al Irving, John Domzalski and Gary Malm. Docents Joey Clark, Nancy Markell, Ruth Voss, Florrie Milligan, Dollie Dreiman, Ruth Hendrix, Nancy Bechtle, Mary Schroter, Ellen Howells and Iris Gaddis led tours in areas of their special interest. Julie Bell and Winnie Lewis of the Oakland Museum and Seward Whitehead and a half dozen members of the Golden Gate Audubon Society participated in special programs as did Dr. Dennison Morey, Susan Fruge, Marvin Schmid, Glenn Keator, and Sally Joy. For all their help, the education staff presents its warmest thanks.

The grand finale of the course involved John Olmstead's multi-media show on a transect of California followed by a two-day bus tour covering the ecology of a California transect with an overnight stop at the Tappan Sierra Lodge. John Olmstead's intimate knowledge of the flora, fauna, and geology of each area made this trip the highlight of the training program. Two sumptuous "pot lucks" followed in mid-June in which the Docents decided on how the profits of the plant sale were to be used in the Botanical Garden and the graduation of the new Docents was celebrated. Throughout the summer, a small corps of Docents meet to pot each Tuesday and Thursday in preparation for the next plant sale and other Docents continue to lead public tours.

GRADUATION CEREMONY

The 27 graduating seniors majoring in Botany held a formal graduation ceremony in the Townsend Amphitheatre on June 19. Following the ceremony a reception was held in the meeting room.

FOR ADDITIONAL INFORMATION

Inquiries about the Garden or its educational program should be directed by mail to the Botanical Garden, University of California, Berkeley, Ca. 94720. The phone weekdays is (415) 642-3343.

Inquiries about the Friends should be addressed to that organization in care of the Botanical Garden. The phone is (415) 642-0849 or 843-5061.

FLASH

GARDEN EXHIBIT ON VIEW IN ROWELL CASE IN LIBRARY ANNEX ON CAMPUS

The University Archives has created this exhibit to mark the Garden's 85th year and the 50th anniversary at its present location in Strawberry Canyon and also to acquaint the campus community with the present Garden and its predecessor. The exhibition is in the Joseph C. Rowell Case in the second floor hallway of the Library Annex facing the Loan Hall where it will remain on view through November. Special thanks go to J.R.K. Kantor, University Archivist.

Botanical Garden  
University of California  
Berkeley, Ca. 94720

Non profit Org. U.S. Postage PAID Berkeley, Calif. Permit No. 1
---

TIME VALUE