Even in torrents of rain, the annual plant sale and auction was a well-staged show of more than 4,000 rare and unusual plants. Serious gardeners and staunch supporters in rain slickers and rubber boots were good to themselves and to the Arboretum, spending more than $25,000 on hard-to-find woody plants, houseplants, books, specialty items, and lunch from the harvest table.

For the first time, the Arboretum Associates, the volunteers who have organized and hosted the spectacular rare-plant auction and silent auction for the past five years, offered for sale a selection of perennial plants grown from seed. These were selected by the well-known British gardener and author, Beth Chatto.

Her perennials included *Bupleurum falcatum*, noted for its green coloring; *Campanula lactiflora*, with splendid powder-blue, bell-shaped flowers; the Welsh poppy, with single flowers of clear vivid lemon; and *Plantago rosularis*, reminiscent of a green zinnia.

Director Peter Ashton introduced the afternoon’s auction. Managing Horticulturist Gary Koller and propagators John Alexander and Peter Del Tredici described and auctioned the rare and unusual plants. A *Tsuga canadensis* 'Minuta' was auctioned for $410, an *Acer triflorum* for $340, and a dwarf *Rhododendron mucronulatum* for $250.

Plant sales, gift shop, and membership grossed over $16,500. The auction grossed $18,000.

A SPECIAL THANKS TO THE ARBORETUM ASSOCIATES

We Couldn't Do It Without the Docents!

Although the Arboretum is arranged for scientific study and research, it also serves as a horticultural and educational resource for the public. Docents, the well trained volunteer guides, are a large factor in the success of the public outreach.

Last year, 48 docents provided guided tours for more than 100 groups, including garden clubs, college botany classes, visiting dignitaries, groups from other museums, travel writers, senior citizen groups, and the general public.

The docents introduce scheduled groups to the riches of the Arboretum through typical tours of the grounds or special, or "theme," tours. These tours, which include, among many others, an introduction to the Olmsted design and the conifer, dwarf-conifer, bonsai, and maple collections.

For new guides, the Arboretum offers a Docent Certification Program in the fall and spring. This is described in the course brochure.

The Program's core curriculum includes courses on the Arboretum's history, trees, plant hunters, and management. Certification requires two additional, elective courses. The fee for the course curriculum is $25, and a reduced "docent" fee is available for all elective courses.

Docents attend year-round monthly educational meetings and are encouraged to take additional training, which leads to advanced certification. To become part of this program vital to the Arboretum, contact Jeanne Christianson, Volunteer Coordinator, at (617) 524-1718.

XIV International Botanical Congress

Three members of the Arboretum's faculty and staff delivered papers at the XIV International Botanical Congress, which was held in August in Berlin, Germany. They were:

Peter S. Ashton and P. Hall—Patterns of Species Richness in Mixed Tropical Forests

R. B. Primack, Peter Ashton, and P. Hall—Maintenance of Rare Tree Species in the Dipterocarp Rain Forests of Borneo

David C. Michener—Structure and Distribution of Secretory Cavities in Leucophyllum (Scrophulariaceae)

N. K. B. Robson and Peter F. Stevens—Toward a Phylogenetic Understanding of the Bonnetiaceae—Clusiaceae—Hypericaceae


OUR SPECIAL THANKS TO LAST YEAR'S DOCENTS

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OUR SPECIAL THANKS TO LAST YEAR'S DOCENTS

“IN A MASTER’S HANDS”: IKEBANA DELIGHTS BOSTONIANS

Continuing its salute to Japan's horticultural treasures and traditions, which began in May with the rededication of the newly renovated bonsai house, the Arnold Arboretum sponsored a special program in November on the Japanese horticultural art known as ikebana. On November 5, in cosponsorship with the Japan Society of Boston, the Arboretum brought Professor Kazuhiko Kudo from Tokyo to demonstrate the art of ikebana—"living flowers"—the generic term for Japanese flower arranging. Gathering plant materials at the Arboretum and flower markets beforehand, Professor Kudo demonstrated ikebana for two hours in the ballroom of Boston's Four Seasons Hotel as three hundred fifty delighted observers looked on.

A graduate of the Peking Engineering School, Professor Kudo is a Grand Master of the Ohara School of Ikebana. He began his studies of ikebana thirty-five years ago under his mother, the late Mrs. Keon Kudo. Grand Master Kudo has conducted workshops, demonstrations, and exhibits of ikebana in China, Australia, and South America; this was his first visit to the United States. He travelled to Boston by way of Los Angeles and was scheduled to present similar demonstrations in Chicago and Honolulu.

The Ohara School was founded in the 1897 by Un-
March Offers Botanical Tour of Southern Florida

Join Dr. Richard A. Howard on a botanical tour of southern Florida, March 23 through March 29. The tropical landscapes and gardens on this tour provide a pleasant contrast to the New England flora, and an introduction to both native and exotic plants.

Participants will visit the Fairchild Tropical Garden, a scientific botanical garden whose palm and cycad collections are of note, the Montgomery Foundation’s research facilities, the Jennings Estate, with its interesting ornamentals, and the Subtropical Horticultural Research Station of the U.S.D.A.

Through the courtesy of the present owner, a visit has been arranged to the Kampong, where David Fairchild wrote The World Was My Garden. Group members will also tour Vizcaya, the estate of the late James Deering, with its ten acres of landscaped grounds, formal gardens, and pools, explore the Everglades National Park, and spend a day visiting a classic limestone sinkhole and hammock and a demonstration planting of tropical fruit-, nut-, and spice-producing plants.

MARCH 23 TO MARCH 29, 1988
$1,095 per person (plus Arboretum Association membership fee and airfare)

Leader: Richard A. Howard, Professor of Dendrology, Harvard University.

For reservations, call or write Education Registrar, Arnold Arboretum, Jamaica Plain, MA 02130, (617) 524-1718.

Arboretum Volunteer Coordinates Perennial Favorite

When Al Haskell retired from 36 years with Procter & Gamble, he didn’t reckon his volunteer association with the Arboretum would be a day-and-night assignment. But he found coordinating the Arnold Arboretum and the New York Botanical Garden’s two-day symposium at Harvard University took two months of more-than-full-time caretaking. Because of his managerial acumen and artistry, however, the symposium came to full bloom successfully.

Al’s wife, LaVerna (“L.V.”), was already a volunteer at the Arboretum when he joined her here a year and a half ago upon his retirement. Avid amateur gardeners, they live in Cohasset, Massachusetts, where they raise herbs, vegetables, and small fruit to nourish their other hobbies—cooking and canning. After training in the Docent Program, Al has led special tours of the Arboretum’s grounds. When asked about his favorite Arboretum site, he said, “I think the oaks up on Bussey Hill are really something to see in the springtime. When the sun shines through the grove and the flowers are cascading down the branches, it’s breathtaking.”

Early last summer, Jeanne Christianson, Volunteer Coordinator, and Nan Blake Sinton, Director of Public Programs, who oversaw the symposium, asked Al if he’d accept a new assignment—the coordination of the symposium on perennials and flowering shrubs on October 16–17. He would be responsible for all the details of transportation, housing, lecture facilities, seating, and feeding the speakers and 900 registrants. He went about his difficult assignment with equanimity, recognizing, he said, “I needed to handle it all in a way so people would say everything went so well that it must have been a simple project.” In fact, that is what speakers and participants did say, because the symposium’s production went so smoothly.

“The symposium is an elaborate undertaking,” said Executive Director Lydia Kowalski. “Having such a wonderful volunteer take charge was the vital ingredient in the success of this program.”

“Landscaping with Perennials” was the topic for the first day. Speakers included Marco Polo Stufano, Director of Horticulture at Wave Hill, The Bronx; J. Kenneth Burras, Superintendent of the University Botanic Garden, Oxford, England; garden-design author Jane Brown; Elsa Bakalar of the Hillside Gardener; and Kurt Bluegel, President of Kurt Bluegel, Inc.

The Saturday session on “Landscaping with Flowering Shrubs” featured John Bond, Keeper of the Gardens at Windsor Great Park; French gardening writer Anita Perreira; Peter Del Tredici, Assistant Propagator at the Arboretum; Carolyn Marsh Lindsay, President of the American Horticultural Society; and Roy Klehm of Charles Klehm & Son Nursery.

CORRECTION

Mrs. Melville Chapin was incorrectly identified as Barbara Epstein in the photograph on Page 1 of the Summer Issue of News. We apologize to both of these faithful Friends for our error!
Borneo Trip Was a Botanical Tour de Force

This summer, 22 Friends of both the Arboretum and the Museum of Comparative Zoology (MCZ) followed tour leaders Peter S. Ashton of the Arboretum, Milan G. Bull of the Connecticut Audubon Society, and John D. Constable of the MCZ on a two-week tour of Borneo, the third-largest island in the world and one of the last unspoiled places on Earth.

The group's first important stop was Borneo's Mount Kinabalu, a treasure of fauna and flora. Vegetation zones on Kinabalu's slopes range from lowland jungle to montane oak, conifer forests, and dwarf rhododendron thickets.

Willard Hunnewell, a rhododendron aficionado, said Borneo proved a botanical wonderland. "But," he said, "the highlight of the trip was Peter Ashton's talks on tropical forests."

"It was a fabulous trip," agreed another participant, Sally Cheffy. Cheffy, one of the group's determined hikers led by Mary Ashton, climbed to the top of Mount Kinabalu (14,455 feet). She found the changing vegetation intriguing as she hiked in the early morning hours to view a spectacular sunrise. Kinabalu is one of the richest floral areas in the world.

From Mount Kinabalu, the tour went to the Sepilok Orangutan Sanctuary, whose objective is to reintroduce captured or orphaned orangutans into the wild; Gaya Island, with its 13 miles of graded nature trails and a large number of birds, including the megapode, white-bellied sea eagle, and pied hornbill; the Niah Caves, Borneo's archeological treasure; and Bako National Park. The coastline of this park has seven major vegetation types typical of Sarawak: mangrove forest, sandy-beach forest, sandstone-cliff vegetation, alluvial forest, peat-swamp forest, lowland dipterocarp forest, and kerangas (heath) forest.

Arboretum’s Summer Workshop Propagates Science Knowledge

Two years ago science-oriented museums in Boston, including the Arnold Arboretum, formed the Museum Institute for Teaching Science (MITS). This consortium designed summer programs to give elementary teachers information, skills, and projects that the teachers could duplicate for their pupils in the classroom.

During three weeks in July, 107 elementary teachers began the MITS program with a four-day orientation session at the Museum of Science. Then, teachers were divided into groups of 15, and each group spent the next eight days at one museum for a series of workshops.

At the Arboretum, Diane Syverson, Children's Program Coordinator, led teachers through many hands-on activities designed to reinforce the scientific-inquiry method. In one activity, teachers hammered chlorophyll out of leaves onto cloth, following a lesson on photosynthesis; in another, they watched the grounds crew cut down a tree and used the tree in a lesson on how paper is made from trees.

Arboretum guest speakers included Gary Koller, Managing Horticulturist; Peter Del Tredici, Assistant Plant Propagator; and Ida Hay, Curatorial Associate, as well as Dr. Holly Bedell of the Harvard University Herbaria.

Dr. Bedell lectured on the cellular make-up of a cross-section of a tree. "It's something that's really dry in a textbook, but comes alive when you hear Holly describe it," Syverson said.

After the Arboretum's intensive workshop, teachers participated in one-day mini-workshops at the other museums, which included the Children's Museum, the New England Aquarium, the Stoneham Zoo, the Massachusetts Audubon Society, and the Museum of Comparative Zoology at Harvard.

The MITS program is sponsored by grants from the National Science Foundation and the U. S. Department of Education.

During the year, the Arboretum offers Field Studies for third- through sixth-grade classes. These are Plants in Autumn: Seeds and Leaves; Hemlock Hill; Around the World with Trees; and Flowers. The Field Studies were designed to meet specific science-curriculum objectives, create an outdoor learning experience with the Arnold Arboretum as classroom, and integrate skills in reading, writing, mathematics, art, and poetry in an interdisciplinary approach to teaching science.