

Dendrological Union, the Scottish Garden Society, and the International Camellia Society.

### Exhibits and Displays:

For the first time in a number of years the Arboretum did not participate in the Spring Flower Show of the Massachusetts Horticultural Society. Impending changes in the physical plant necessitated commitment of labor and the requirements of greenhouse space for research materials and experiments in progress did not permit the forcing of trees and shrubs in time for the Spring Show. A demonstration of mulching materials similar to that shown at the Massachusetts Spring Flower Show last year was exhibited for the 19th American Horticultural Congress held in the Commodore Hotel in New York in September.



Opening Plenary Session of the X International Botanical Congress held in Usher Hall, Edinburgh, Scotland, August, 1964. Jalmar photograph.

Open houses were held in Weston and in Jamaica Plain during the spring. The Massachusetts Horticultural Society, in awarding a gold medal to the Arnold Arboretum, requested our participation in a program of open gardens of award winners. For this two-day activity the staff prepared special exhibition cases, including new kodachrome transparency displays and demonstrations relating to plant exploration, the preparation of herbarium specimens, and techniques of plant identification.

Mr. Heman Howard prepared a special set of display photographs of the Larz Anderson collection of *bonsai* of the Arnold Arboretum. The set of photographs, showing individual specimens, as well as the methods of housing and displaying the *bonsai*, is available on loan. During the year these photographs were displayed for a special exhibit of the Garden Club of America in the Goldsmith Civic Garden Center in Memphis, Tennessee.

Dr. Hu prepared and exhibited a colorful demonstration concerned with



the lines of evolution in the genus *Ilex*, the hollies, at the X International Botanical Congress at Edinburgh.

### Travel and Exploration:

The X International Botanical Congress in Scotland afforded staff members attending the opportunity of taking part in tours to various botanical gardens and of visiting herbaria and botanical institutions. Mr. Green worked at the herbaria of Kew and the British Museum (Natural History) both before and after the Congress. Dr. Howard travelled to Denmark, Germany, France, and Belgium following the Congress, visiting gardens and herbaria in each country before returning to the institutions in London en route home. Dr. Hu received a special grant from the research funds of Sigma Xi which permitted her to study material of *Ilex* in herbaria in London and Edinburgh, as well as Munich, Vienna, Berlin, Göttingen, Leiden, and Brussels. Dr. Nevling received a travel grant from the National Science Foundation through an award committee of the American Institute of Biological Sciences which enabled him to observe curatorial procedures at the major herbaria in England and Scotland, the Netherlands, and France. Dr. Schubert worked in the herbaria in London, and in Edinburgh during the Congress. Dr. Wood made an extensive trip through Europe before the Congress visiting gardens in Italy, Germany, Austria, France, and Switzerland and making photographs of plants to be used in his course in plant taxonomy. He examined material in the herbaria in



Field work in the Luquillo Mountains in eastern Puerto Rico. Sir George Taylor, Director, Royal Botanic Gardens, Kew; Dr. Richard Howard; and Mr. Roy Woodbury, of the University of Puerto Rico. October, 1964. From a Kodachrome by Anstiss B. Wagner.



London, Paris, Geneva, and Copenhagen, and solved many problems which had arisen from his studies of the flora of the southeastern United States.

Drs. Howard, Nevling, and Wood made trips to Puerto Rico in programs of teaching and research. Materials for anatomical and cytological studies were collected as well as specimens for special illustrations. Dr. Howard attended a meeting of the Council of the Association for Tropical Biology in Caracas, Venezuela. With the cooperation of botanists of the Instituto Botánico materials for petiolar studies were collected in the Parque Henri Pittier and in the Botanical Garden.

Mr. Hosmer was able to collect material of plants worthy of trial in the Boston area in several locations in Afghanistan.

During the spring and early summer of 1965 Dr. Wyman is spending several months in Europe to obtain plants thought to be new to the United States and to be hardy out-of-doors at the Arnold Arboretum. These plants have been sought from the native floras, as well as in introduced and cultivated collections in botanic gardens, arboreta, private gardens, and nurseries.

The Arboretum has agreed to share the expenses of several expeditions or to purchase herbarium collections or seeds from botanists of other institutions. During the year support was afforded expeditions in Turkey, Guatemala, Puerto Rico, South Africa, and Western Australia.

### Gifts and Grants:

During the fiscal year 1963-64, property belonging to the Bussey Institution was taken by the Commonwealth of Massachusetts by right of eminent domain. On this property were the old buildings forming the greenhouse complex of the Arnold Arboretum. The value of the buildings alone was credited to the Arboretum shortly before June 30, 1964, when the sum of \$14,806.69 was added to the principle of the Bussey Fund for the Arnold Arboretum (1903), for that portion of the net proceeds of the Bussey Institution land settlement. This transaction was not recorded in sufficient time to be included in the Director's Report of the appropriate fiscal year.

The Friends of the Arnold Arboretum renewed their gifts during the year, and these funds were assigned as usual to an account for work on the grounds in Jamaica Plain or for activities in the horticultural department and the greenhouses. We are grateful for the generous and loyal financial support of the Friends for the work of the staff. A record of the gifts is published quarterly in the "Gifts to Harvard," and the complete fiscal review is published annually in the Financial Report to the Board of Overseers of Harvard College.

Gifts of materials for the horticultural collections, the library, the herbarium, or special research purposes were many and have, in general, been noted in the appropriate section of this report. Special gifts included a collection of orchid plants from Mr. and Mrs. Robert Preston for research projects and for teaching; a number of plants or propagation materials



from the hollies of the late Wilfred Wheeler made possible through the Massachusetts Audubon Society; a large gift of special lily bulbs from the Ofuna Botanical Garden in Kanagawa-Ken, Japan; a very old and large *Taxus baccata* 'Adpressa' from Mr. Harry W. Fowle; a large number of books from the estate of Mrs. Susan McKelvey; many kinds of records



An old specimen of *Taxus baccata* 'Adpressa' prepared for transplanting to a location near the Dana Greenhouses in Jamaica Plain. This plant was the gift of Mr. Harry W. Fowle, shown in the photograph by Heman Howard.

and files from Mr. Seth Kelsey. We are grateful for these and smaller gifts of similar nature.

### Publications:

Four numbers of the *Journal of the Arnold Arboretum* were issued during the fiscal year under the editorial direction of Dr. Schubert. The numbers contained 462 pages and 21 articles, primarily by members of the staff. We welcome the first half of the series of letters from Charles Sprague Sargent to the Louisiana botanist, Reginald Somers Cocks, which have been edited by Professor Joseph Ewan of Tulane University. Publication of the remainder of the series of letters will be in the current volume of the *Journal*. The full series will be available as a single bound reprint.

Two large manuscripts were completed during the year and submitted for publication as independent studies. A cumulative index to the nine volumes comprising Urban's *Symbolae Antillanae* was prepared by Miss Sutton and Miss Carroll. It will be published in August by the Arboretum. An encyclopedic bibliography of the medicinal and poisonous plants of



southeastern Asia was completed by Dr. Perry and is being considered by a private publisher.

Since volumes 1-10 of the *Journal of the Arnold Arboretum* have long been out of print and the supply of many single numbers has been exhausted, the available back numbers were sold during the year to the Kraus Reprint Corporation, 16 East 46th Street, New York, N.Y. 10017, under a contract to reprint the first twenty volumes and all out-of-print numbers, and to offer all for sale.

The bibliography which follows lists 76 articles and books by members of the staff which were published during the past fiscal year.

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RICHARD A. HOWARD, *Director*



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## Staff of the Arnold Arboretum

1964-1965

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IRVING WIDMER BAILEY, S.D., Professor of Plant Anatomy, *Emeritus*.

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ALFRED JAMES FORDHAM, Propagator.

PETER SHAW GREEN, B.Sc., Horticultural Taxonomist.

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\* Appointed jointly with the Gray Herbarium.



## INDEX

- Acacia angustissima*, 429  
*Acanthopanax*, 6  
*Acer*, 124  
   — *drummondii*, 25, 28, 31, 346–348  
   — *floridanum*, 20–22, 27, 127, 346, 348, 360, 420  
   — *leucoderme*, 17, 21, 22, 27, 140  
   — *negundo*, 28  
   — — *texanum*, 345  
   — *nigrum*, 21, 22, 349  
   — *rubrum*, 349, 418  
   — — *drummondii rotundata*, 346, 348  
   — — *tomentosum*, 347, 349, 351  
   — — *tridens*, 346  
   — *saccharinum*, 417  
   — *saccharum*, 127, 346, 360  
   — — *glaucescens*, 420  
   — — *glaucum*, 346, 360  
   — *tridens*, 348  
*Actaea alba*, 428  
*Adelia*, 412, 413  
*Adyseton calycinum*, 199  
*Aesculus austrina*, 7  
   — *discolor mollis*, 421  
   — *pavia*, 7, 15, 22, 420, 421  
   — *splendens*, 18, 22  
*Alder*, 26  
*Alfaroa*, 369, 372–373  
   — *costaricensis*, 373  
   — — *costaricensis*, 373, 407  
   — — *elongata*, 373, 374, 407  
   — *manningii*, 373, 408  
*Alyssum*: Near Eastern Representatives and Their Allies, Studies in, II. Section *Meniocus* and Section *Psilonema*, 181  
*Alyssum*, 181–217  
   — sect. *Meniocus*, 183–196  
   — sect. *Psilonema*, 196–212  
   — *aizoides*, 212, 213  
   — *algeriense*, 205  
   — — *montanum*, 205  
   — *alyssoides*, 197–203  
   — — *alyssoides*, 198–203  
   — — *conglobulatum*, 203  
   — — *depressum*, 198, 203  
   — — — *minus*, 203  
   — — *pumilum*, 203  
   — *arvaticum*, 199  
   — *aurantiacum*, 213  
   — *aureum*, 184, 191–192  
   — *betpakdalense*, 195  
   — *blepharocarpum*, 184, 194, 196, 212  
   — *Alyssum bungei*, 195  
   — *calycinoides*, 208  
   — *calycinum*, 198  
   — — *depressum*, 203  
   — — *minus*, 203  
   — — — *minus*, 203  
   — — *pumilum*, 203  
   — *campestre*, 198  
   — *cassium*, 213  
   — *chondrogynum*, 213  
   — *conglobulatum*, 203  
   — *corningii*, 212  
   — *corsicum*, 213  
   — *crenulatum*, 213  
   — *cupreum*, 188, 189  
   — *damascenum*, 197, 203–205  
   — *dasycarpum*, 197, 207–210  
   — — *dasycarpum*, 208–210, 212, 213  
   — — *minus*, 208, 210  
   — *desertorum*, 188, 213  
   — — *desertorum*, 212  
   — *eriophyllum*, 213  
   — *erraticum*, 199  
   — *filiforme*, 212, 213  
   — *floribundum*, 213  
   — *giosnanum*, 212  
   — *granatense*, 197, 205  
   — — *sepalinum*, 205  
   — — *weilleri*, 205  
   — *haussknechtii*, 213  
   — *heterotrichum*, 184, 195–196  
   — *hieronymii*, 205  
   — *hirsutum*, 192, 213  
   — *hispidum*, 205  
   — — *granatense*, 205  
   — *homalocarpum*, 197, 210  
   — *horebicum*, 211  
   — *huetii*, 184, 192–193, 212, 213  
   — *kermanshahensis*, 189  
   — *lepidotum*, 212  
   — *linearifolium*, 185  
   — *linifolium*, 183, 184–189  
   — — *cupreum*, 188  
   — — *linifolium*, 185–188  
   — — *teheranicum*, 185, 188–189  
   — *marisii*, 205  
   — *meniocoides*, 189–191  
   — — *aureum*, 191  
   — *minimum*, 188  
   — *minutum*, 212  
   — *murale murale*, 213  
   — *mouradicum*, 213





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