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ROYAL BOTANIC GARDENS
KEW

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C. E. CHERRY, N.D.H.,**President 1975-1976**

Our President was born in 1912 and is well-known as a prominent manager in Local Government Horticulture.

He began his distinguished career in 1929, when he became an Apprentice Gardener in the Harrogate Parks and Gardens Department under the late J. G. Besant. In 1933 he became a Journeyman Gardener at Lowther Castle Gardens (the estate of the Lord Lonsdale) where he worked under glass, gaining valuable experience prior to his student training periods.

These were spent at the John Innes Horticultural Institute in London, from 1934-1936, and at Kew from 1936-1938. Whilst at Kew he gained his N.D.H. and at Kew he gained Distinction Certificates in six subjects.

After completing his student course he remained at the Gardens as Sub-foreman in the Flower Garden, under the late Sydney Pearce.

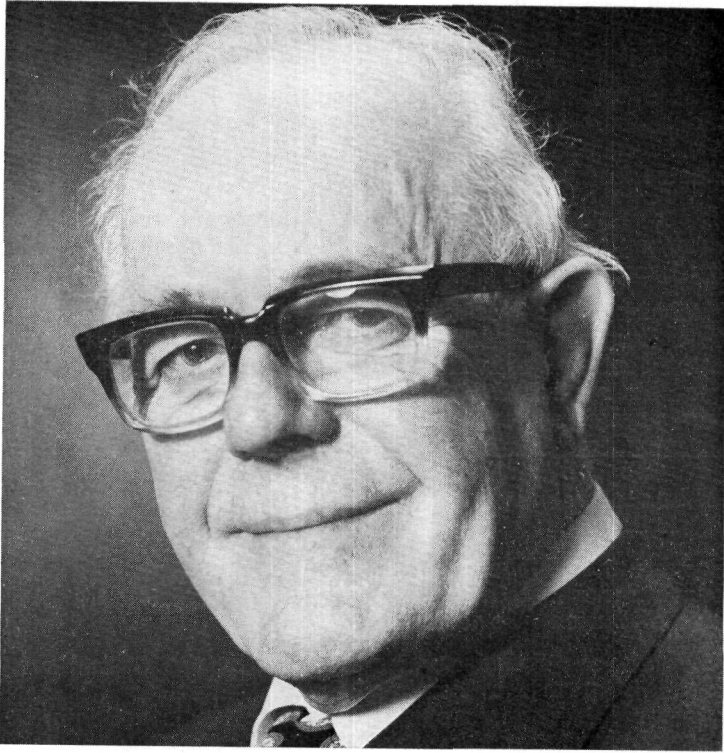
1938 saw our President entering the field of Public Service, when he became Assistant Parks Superintendent at Hastings, becoming Acting Parks Superintendent in August 1939, on the death of his superior. He was elected a Fellow of the Institute of Parks Administration in 1939. Due to the second world war he was not confirmed as Parks Superintendent until 1941, a position he held until 1947, when he left to become Superintendent at the City of Leicester.

In 1953 he left Leicester to return to the London area, when he was appointed Parks Superintendent at Sutton and Cheam. This position was modified in 1964, when, at re-organisation, the London Borough of Sutton was formed.

In 1973 our President was awarded by the Civic Society of Sutton and Cheam the Manor of Sutton Award for his contributions to the Environment of the Borough. He is a Senior Circuit Steward of the Sutton Circuit of the Methodist Church.

A happily married man with four children, our President lists his hobbies as the British Flora, Gardening, Archaeology and Painting.

We wish him every success during his year of office.



D. V. WELLS
Vice-President

D. V. WELLS, VICE-PRESIDENT, 1975-1977

Don Wells was born in Portsmouth on the 17th April, 1911, and after education and two years at a Commercial College, served a five-year apprenticeship with the Portsmouth City Corporation. This was followed by one year at the Hampshire County Agricultural Institute, Sparsholt, Winchester, and a further two years at Portsmouth when Don gained a First Class R.H.S. Certificate and the R.H.S. Preliminary and "Advanced" Teaching Certificate.

1933 saw Don Wells accepted as a Student at Kew where he served for three years in the Temperate, Decorative, Alpine and Arboretum departments under some of the great names of Kew such as Sir Arthur Hill, W. W. Dallimore, Charles Raffil, J. Coutts and A. Osborne. Whilst at Kew he met Evelyn Turner, who was to become his wife at Surbiton three years later. They have a son Peter and a daughter Vivienne.

The experience at Kew was followed by two years as a Foreman with the Metropolitan Borough of Finsbury and this in turn was followed by two years as a Foreman in the County Engineer's Department of the Middlesex County Council.

The onset of war saw Don seconded to the newly created Middlesex War Agricultural Executive Committee for special duties in connection with food production and distribution, a reserved occupation post he held until 1948 when he was accepted for a permanent appointment with the N.A.A.S., and served with the Ministry of Agriculture and for four years with the Ministry of Transport working on the landscaping of Trunk and Arterial Roads.

In 1953 Don Wells joined the Middlesex County Council where he served as Horticultural Adviser and Arboriculturist in the County Engineer's Department.

It was during the early 1950's that he accepted an invitation to join the Advisory Committee of the Roads Beautifying Association and he remained in an advisory capacity with the Association until it ceased to exist in 1964.

1965 saw the disappearance of Middlesex County Council as a result of the re-organisation of Local Government and Don Wells accepted the position of Landscape Architect with the London Borough of Harrow.

Donald Wells is a founder member of the Arboricultural Association and was its Chairman for the first five years. He is a member of the British Standards Institute's parent Committee and has served on several Committees dealing with trees and landscaping. He is also Chairman of the Standing Committee on Arboricultural Education, Chairman of the Publications Committee of the Arboricultural Association and also the Association's Honorary Treasurer, as well as a member of the "Britain in Bloom" Committee of the British Tourist Authority.

Don Wells was awarded the A.H.R.H.S. in 1967.

ANNUAL GENERAL MEETING OF THE KEW GUILD

The day after the Students' Prize-giving has to be devoted to the Kew Guild A.G.M. for various administrative reasons, and in 1975 the two occasions were earlier than usual being 12th and 13th September respectively. Members were able to view the fine display of students' project work and other exhibits, including one devoted to the Guild, in the Jodrell Laboratory. Some members also had the opportunity to look round the splendidly refurbished Gumley Cottage which had just been opened for the accommodation of nine student gardeners.

The meeting itself was opened by the Hon. Secretary, Mr. F. Nigel Hepper, who explained that the President, Mr. G. R. Groves, was, of course, unable to come over from Bermuda, and unfortunately both Vice-Presidents, Mr. G. H. Preston and Mr. G. E. Brown, and the retiring Hon. Treasurer, Mr. A. J. Hale, were also unavoidably absent. It was therefore proposed and agreed that the election of President and Treasurer be brought forward. Mr. C. E. Cherry and Mr. R. Hughes were elected with acclamation, whereupon Mr. Cherry took the chair.

Further apologies for absence had been received from Mr. J. P. M. Brown, Mr. J. S. L. Gilmour, Mr. H. J. Kruger, Mr. R. E. Mason, Mr. G. Pattison, Mr. M. J. S. Sands and Mr D. V. Wells, but 43 members attended.

The Minutes of the 1974 meeting were approved without any matters arising from them.

The Committee reports were then brought forward, with Mr. R. Hughes reading the retiring Treasurer's comments on the accounts for the year ended 31st December, 1974, which were published in the 1975 *Journal*. He also made a statement on the financial position up to 30th June, 1975.

A laugh was occasioned by the announcement that a mouse family had been caught nesting in the stock of Guild scarves! Unfortunately this had proved to be an expensive mouse-house for the Guild as the damaged scarves had had to be sold off at a loss. Only 2 scarves had been sold and seven ties.

Membership stood at 708 of which 223 were life and 270 ordinary members, 50 of whom were on the staff at Kew, as well as 15 students. 62 deeds of covenant had been taken out which represented a bonus to the Guild of some £40 at no cost to the members. Mr. Cherry moved a hearty vote of thanks on behalf of all the Guild members for the tremendous amount of work Mr. Hale had put into the accounts during the years he had acted as Treasurer: it was the most encouraging financial report he had ever heard at a society meeting, and that at a time of rapid inflation when so many societies are facing difficulty.

The new editor of the *Journal*, Mr. M. J. Dawes, said that he was most grateful to the publication committee for their help: Mr. Brown (obituaries), Mr. Hepper (Wakehurst Place booklet), Mr. Hart (editing articles), Mr. Sands (compilation of News of Kewites). He felt this year would be a good time to launch a

new-look *Journal* with a modern type-face and interesting articles from Kewites taking preference over Guild affairs. He hoped that Kewites abroad would send him articles. The Chairman thanked Mr. Dawes for his fine first effort and Mr. Hepper for the interesting Wakehurst Place booklet which was selling so well.

The *annual dinner* was once again organised by Mr. J. Woodhams who was now handing over to Mr. Graham Patisson. The opportunity was therefore taken to thank John and his wife for all they have done in successfully booking the dinners and teas for so many years.

No *photographs* of Kewites were added to the collection which is now housed in the Herbarium and an appeal was made for members to send in to the Secretary any that they have, however ordinary they may be.

The Students' Prize-day was attended by Mr. G. E. Brown who spoke briefly about the Guild and its donation of prizes. Professor Hudson presented the prizes

For the election of officers and committee members there were no further nominations proposed in time to be valid, so the committee nominations were accepted. The full list appears at the beginning of this *Journal*. The outgoing members were thanked for their services.

Mr. Brian Lowe, Chairman of the Awards Scheme Sub-committee, reported the progress of the scheme. He said that in the first year their objective had been to accumulate capital in various ways. First there was an appeal to members via the dinner notices, which yielded over £300, then a raffle at the Students' Fête. The Guild was grateful to the students for this facility and co-operation, but in the event a £19 over-all profit represented a meagre return for the hard work devoted to it and lessons had been learnt for the future. Two more appeals were imminent: to overseas Kewites and to industry by personal letter, and it was hoped that even in these times of financial stringency sufficient capital would accrue to provide reasonable annual interest in a short period. Several members present asked for clarification over the type of project that might win an award and that only interest would be used. It was confirmed that interest not capital would be used for awards, and that the residue of £100 annually voted from Guild general funds would also be added.

The Secretary reported on the splendid accommodation in Gumley Cottage on Kew Green just opened for nine students. Several members had been able to look round Gumley Cottage before occupation by the students and remarked on the notable step forward in the annals of Kew. It was hoped that pressure on the relevant authorities would continue to provide further accommodation.

Mr. Stock offered a vote of thanks to the President and officers.

The afternoon concluded in traditional manner with a family tea party when about 70 members and friends assembled in the Lower Nursery.

F. NIGEL HEPPER, *Hon. Secretary.*

NOTES FROM KEW, 1975

The old Quarantine House has been demolished to make way for the new Alpine House. The new house will be pyramid-shaped, and constructed from standard glasshouse components to keep costs low. The house will have a landscaped display of alpine and cool house herbaceous plants, and areas with under-bench cooling which will be used to grow arctic and tropical mountain alpiners.

The saving in heat consumption will enable a start to be made earlier than anticipated on a new Quarantine House and the next phase of the science support glass.

Hanover House is now being refurbished to provide additional bedsitter accommodation for Kew diploma students.

The Temperate Fern House (No. 3) is being remodelled. A central pathway will give easier access to invalid chairs, and the landscaped house will provide a diversity of habitats to accommodate both moisture loving and arid subjects, while retaining the tree ferns originally in the central planted area.

The lake has been edged with a noggin path, which follows the natural contours and margin of the water. Beds are being constructed for *Cornus* and *Salix spp* and other moisture loving plants.

The Gardens staged an exhibit of *Heliconia spp* at the Royal Horticultural Society's show on 8th-9th July, 1975, which was awarded a silver Lindley (Educational) medal. The flowers were flown in specially from Guyana.

Four large granite blocks, each weighing several tons, and formerly part of the old London Bridge built to the design of Sir John Rennie in 1831, and demolished in 1967, have been presented to Kew via John Mowlem & Co. Ltd. They will be used to form a bird feeding platform on the lake, which is, of course, supplied via "the crocodile" from the River Thames.

A new perfumed garden, sited adjacent to House No. 4, is under construction. It takes the form of a simple patio area, and is paved with concrete slabs, edged with tiles. Seats have been incorporated and the plants all bear sweetly scented flowers or have aromatic foliage.

The *Buddleia* collection has now been resited near the Broad Walk, and will form an interesting grouping on the Crab Mound Lawn.

A *Dahlia* border has been sited near the sundial on Sundial Lawn. Foundations of buildings and walls found during preparation are thought to be of ancillary buildings to the White House.

A new circle bed, with a Coade stone edging, has been made at the junction of walks from the main gate to the Orangery and the Broad Walk. The bed forms a pivot for the Broad Walk, and has as its centre one of the vases formerly outside the Orangery.

The planting of the Grass Garden is now complete. "The Sower" statue now stands as a focal point, flanked with woody grasses, and fronted with economic grasses. Strategic positions are occupied by specimens of *Cortaderia selloana*, some of which weighed half a ton on moving from the original layout. The most ornamental grasses are to be found in those beds closest to the main path, and there are plantings of lawn grasses and lawn mixtures, and also classification of grasses.

NEWS OF KEWITES

Peter Brazier resigned from his post as Gardens Supervisor at Wakehurst Place in July 1975 to take up a post as Farm and Nursery Manager of Langley House Trust Rehabilitation Centre for Homeless Offenders at Wing Grange, Leics.

J. P. M. Brenan (Keeper of the Herbarium and Deputy Director) flew to Iran in June to advise on the installation of a herbarium at the University of Mashhad. He also attended a symposium on Conservation at Tehran. In July he went to Leningrad for the XII International Botanical Congress. At the end of the year he left for field work in South America.

Dick Brummitt (Herbarium) and **Roger Polhill** joined together for a botanical expedition to Zambia during January and February. In July Dick attended the XII International Botanical Congress in Leningrad. He was appointed secretary of the Committee for *Spermatophyta* and *ex-officio* member of the General Committee.

Mark Coode (Herbarium) made another visit to the Mascarenes in January in connection with the Flora. He transferred to the Herbarium staff in December.

John Cox (1972) visited Trinidad, Tobago and Guyana while on a study course with the Commonwealth Institute during July 1975.

Phil Cribb (Herbarium) spent five days in January at the Paris Herbarium studying the orchid genus *Calanthe* in Africa. He also attended the 8th World Orchid Conference at Frankfurt in April and went to the Berlin Book Fair and Herbarium in November.

David Cutler (Anatomy, Jodrell Laboratory) attended the XII International Congress in Leningrad.

Dr. Dennis retired from his post as mycologist in the Herbarium in July, but continued to train his successor, Dr. Brian Spooner, until the end of the year. He was elected Corresponding Member of the Botanical Society of the Argentine and also to the Swiss Society of Mycology as a Honorary Member.

John Dransfield (Herbarium) joined the Herbarium staff in January as a senior research fellow to work on palms. During the summer he visited Malaga to advise on the rattan industry and in December went to East Africa in pursuit of wild palms. He gave one of the Tuesday Lectures in October on "Sumatra and its threatened flora".

Keith Ferguson (Herbarium) visited Leiden in connection with his studies on pollen.

David Field (Herbarium) had his first tropical experience during his visit to Kenya and Tanzania in April and May. However, he said that he had never been as cold as he was when camping on Mt. Kenya on the equator, but at 11,000ft.

Leonard Forman (Herbarium) visited Aarhus, Denmark, in June to attend a meeting of the Editorial Board of the "Flora of Thailand".

Chris Grey-Wilson (Herbarium) spent five days in the Paris Herbarium during January studying African *Impatiens*. Chris was awarded a gold medal for his Dolpo Valley Expedition exhibit at an RHS show.

Brian Halliwell (Alpine and Herbaceous Dept.) visited the Sierra Nevada and adjacent areas of Spain from 20th June to 15th August to collect living wild source material for the collections at Kew.

Ray Harley (Herbarium) visited Bulgaria to study *Mentha* during August, then in September he went to the USA and Western Mexico to study *Salvia* and *Hyptis* species.

Robert Hebb (1968) of the Cary Arboretum of the New York Botanical Garden lectured at the Kew Conservation Conference in September. He also consulted Kew arboretum records in connection with his work on the plant collections of J. Rock and E. Wilson.

Nigel Hepper (Herbarium), our Secretary, had quite an unusual year in 1975. During April and May he and David Field had a botanical collecting tour of Kenya and Tanzania and in October he visited the Yemen after the wettest season on record in order to fill a large gap in the Herbarium collections. He also made seven short Thames TV programmes entitled "Frankincense and Myrrh" on plants mentioned in the Bible, which were filmed in the Queen's Garden at Kew.

The Director, Prof. J. Heslop-Harrison, spent nearly a month in China after attending the XII International Botanical Congress in Leningrad in July.

Tony Hitchcock (1960) has joined Errol Scarr as Chief Horticulturist in the Parks, Recreation and Beaches Dept. at Durban, Natal, on leaving the University of Botswana, Lesotho, Swaziland, at the end of December 1975.

Pamela Holt (1974) who is working at St. Gilbert's Boys' School, Worcs., went to Peru for three months. During 1974 she gained a Supplementary award from the Bentham-Moxon Fund as runner-up to the Thornton-Smith prize winner. The full trip was made possible by an additional award from the Studley College Trust. She sent live plants of the crocus-like *Haylockia andina* from near Lake Titicaca.

Professor Holttum's 80th birthday was celebrated with a sherry party and a reception which was followed by a dinner in the Gardens restaurant for many botanical celebrities. Later he was awarded the Robert Allerton Award for excellence in tropical botany by the Pacific Tropical Garden. He went to Hawaii for the presentation in October and returned via Australia and Singapore.

David Hutchings (1974) and his wife travelled through S.E. Asia before looking for a job. They visited Malaya, Thailand and the Himalayas.

Francis Jarrett (Fern Herbarium) was re-appointed to the Committee for *Pteridophyta* and its sub-committee for family names.

Keith Jones (Keeper of the Jodrell Laboratory and our President Elect) attended the XII International Botanical Congress in Leningrad.

Dr. Andrew Kanis of the Herbarium Australia, Canberra, on 1st September succeeded Don Blaxell as the Australian Liaison Officer in the Kew Herbarium for one year.

Jim Keesing (Gardens Division) won a Civil Service Further Education award for his B.Sc. with Honours at Birkbeck College.

R. W. King (Secretary) won a Civil Service Further Education award for his article on the "Ferme ornée".

Gren Lucas (Herbarium) heads up the Conservation Unit that was established at the Herbarium from 1st January. He has been elected a full member of the Survival Service Commission of the International Union for the Conservation of Nature and the Commission's Alert Group, whatever that may be! In July he attended the XII International Botanical Congress in Leningrad.

Brian Mathew (Herbarium) gave two of the Tuesday Lectures, one on bulb hunting and the other on his trips to Turkey, one of which was made during April in search of *Crocus* species.

R. D. Meikle (Herbarium) gave a Tuesday lecture on his visit to Cyprus. In July he attended the XII International Botanical Congress in Leningrad. He was re-appointed to the Editorial Committee to prepare the new edition of the International Code and appointed to the Committee for Hybrids.

Patrick Nutt (1953) who is in charge of the Tropical Plant collections at Longwood Gardens, USA, visited Kew last November.

V. T. H. Parry and Mrs. McMillan attended the special Easter meeting of the Society for Bibliography of Natural History and presented a mounted display on the production of the "Kew Record of Taxonomic Literature". He has also been elected Hon. Editor of the Society and a member of its committee.

Graham Pattison (Gardens Division) accompanied Martin Sands on a botanical expedition to New Guinea and New Zealand, July-December.

Brian Perkins (1950) writes of his work since retiring from Nairobi Parks Department. He has designed some forty gardens and recently completed his largest project, landscaping the grounds of the Mahe Beach Hotel in the Seychelles. Most of his projects have been either hotel or lodge gardens in Serengeti and Tsavo Game Reserve, and all have been tremendous fun, he says.

David Philcox (Herbarium) departed on 26th March for Trinidad to continue collecting towards completion of the Flora of Trinidad and Tobago.

Sadly **Don Pringle** (1956) has been killed in a car crash in Nairobi. When he left Kew he married Doris Newton who was an assistant in the Herbarium working with Mr. F. Ballard.

John Roberts (1968) has been appointed a landscape architect for the Government of Singapore.

Martin Sands (Herbarium and Kew Guild Assistant Secretary) left on 23rd July for a botanical expedition to New Guinea, not returning until March 1976 after further field work in the Philippines.

Errol Scarr (1967) has been appointed as Chief Horticulturist in the Parks, Recreation and Beaches Dept. at Durban, South Africa, and is being joined by another Kewite, Tony Hitchcock. He says that "there is still a severe shortage of trained staff and if any present or past Kewite is interested in working in South Africa for a year or two, or longer for that matter, we will be only too pleased to hear from him".

Tony Schilling (Assistant Curator, Wakehurst Place) led a Thomas Cook Adventure Club expedition to Nepal and the slopes of Mount Everest during October.

Peter Taylor (Orchid Herbarium) attended the 8th World Orchid Conference at Frankfurt in April, and in November visited the Rijksherbarium, Leiden, to work on bladderworts for "Flora Malesiana".

Cliff Townsend (Herbarium) went to East Africa on the third leg of the African Expedition. He and **Sheila Hooper** spent most of their time in Zambia.

Bernard Verdcourt (Herbarium) has been seconded for two years to work on the Leguminosae of Papua, New Guinea, and left Kew in December for a short visit.

Richard Ward (1963) returned safely from his tours during 1974-5. He travelled overland to India and then on to South Africa having the opportunity to meet up with many Kewites "and even managed to raise a few new subscribers"!

John Warrington, Assistant Curator, Tropical Dept., went on a study visit to the West Indies and Guyana in May 1975.

Gerald Wickens (Herbarium) attended a meeting on Desertification at Cambridge in September and spoke on "the ecological problems in the interpretation of palaeoenvironments", in other words habits of pre-history times. In November he went to Lake Chad for a few weeks as consultant on weed growth in an irrigation scheme.

Jeff Wood (Orchid Herbarium) accompanied Martin Sands on a botanical expedition to New Guinea, July-December.

Keith R. Williams (1963) says he was able to look after Clive Bulmer in Waimea Arboretum, Hawaii, during his stay there.

JOHN SMITH'S *HISTORIA FILICUM*

A Centenary Retrospect

In 1965, Mr. R. G. C. Desmond wrote a brief biography of John Smith, Kew's first Curator, in the *Kew Guild Journal* (Vol. 8: pp. 576-587). In it he referred to Smith's life-long study of ferns, which was too little recognised by his contemporaries owing to the eminence of W. J. Hooker, whose system of classification was very different from Smith's. It is just a century since Smith's final work on ferns (*Historia Filicum*) was published, and thus it seems appropriate to write an appreciation of it in conjunction with the restoration of his tombstone by the Kew Guild.* For some time past also I have wished to vindicate his memory on account of the very unfair treatment given to him by Mea Allan in her book *The Hookers of Kew* (1967); she makes several quotations from his manuscript history of Kew, and other comments, in such a way as to portray him as merely an incompetent grumbler. It is clear from his manuscript that he felt that his judgment on horticultural matters had been unjustifiably ignored or frustrated by the Hookers (Mr. Desmond quotes some instances). Mea Allan sets out to portray the Hookers as impeccable, and so has no room for anyone who disagreed with them.

The greatest pioneer of fern study in the present century, Carl Christensen, wrote this of John Smith, in 1938 (in Verdoorn's *Manual of Pteridology*, p. 523): "his work was overlooked for many years but it is now generally admitted that his ideas were sound and that he was really a pioneer of modern pteridology". And the American botanist E. B. Copeland wrote in the introduction to his *Genera Filicum* (the most recent book covering all the world's ferns, published 1947): "he knew his ferns as living things, and his judgments were entitled to a respect they have never received". He was, in fact, the only major pteridologist of the 19th century who studied tropical ferns as living plants (and it must be remembered that the very great majority of fern species are tropical); in 1866 he published an annotated list of all the species he had seen in cultivation, more than one thousand. The only comparable 19th century student of living tropical ferns was R. H. Beddome, whose publications on the ferns of southern India were entirely based on his own field work.

In contrast, W. J. Hooker relied almost entirely on herbarium specimens when preparing his *Species Filicum* (five volumes, 1844-1864). He was very proud of the great collection of living ferns tended and studied by John Smith, but Smith complained that Hooker rarely looked at them, though admitting that it was through Hooker's "powerful aid" that he was able to build up the collection. On several occasions Smith pointed out that living plants could often be distinguished as belonging to separate species, whereas dried specimens (especially if incomplete) did not clearly display the distinctive characters. He noted an extreme case in

* See Editor's postscript at the end of this article.

which Hooker entered eighteen specific names, in five genera, as synonyms of *Acrostichum sorbifolium*, a species originally described from the West Indies. In Malaya I saw several of these ferns and am sure that they are distinct species very different from the tropical American one with which Hooker identified them.

Hooker placed all ferns with round superficial sori lacking a protective indusium in one genus *Polypodium*. John Smith, studying growth-habits, saw that some of these were very different from true *Polypodium*, and that they should be placed in *Thelypteris*, along with the terrestrial ferns now placed in *Thelypteris*, *Dryopteris* and other genera. He was even more far-seeing in recognising that certain small epiphytes, which even in 1938 were still included in *Polypodium* by Christensen, were in fact very different and represented a separate group of genera. R. C. Ching was the first pteridologist to place these ferns in a separate family (in 1940); the separation is now generally accepted. Smith made some errors in his list of the ferns allied to *Grammitis*, but his basic idea was right. The same is true of many other aspects of his work of 1875; at that time no one had understood that characters of scales, hairs and spores could sometimes give truer evidence of relationships among ferns than indusia and venation. But though he made mistakes (as we all do) he recorded many new observations and expressed his thoughts upon them in ways that are still worth study.

He retired in 1864, after 42 years' service, owing to failing sight, and by 1875 he was blind, so that he could not see the plates which Walter Fitch prepared to illustrate *Historia Filicum*; he had the assistance of other people also in the preparation of the text, and in proof-reading, but his memory at the age of 77 must have been wonderfully well-stocked and well-ordered, and his mind still very active.

He also had a wide knowledge of other plants, as can be seen from his book *Records of the Royal Botanic Gardens, Kew*, published (in 1880) in his 82nd year, in which he gives lists of species cultivated in the early days, with notes on their origin and behaviour. His notes on early cultivation of orchids are interesting. His final published work was a list of popular names of plants, 1882.

R. E. HOLTUM.

Editor's postscript:

Professor Holtum is very well qualified to judge Smith's work as he himself has made a life-long study of living tropical ferns. Having attained his 80th birthday in 1975, the Guild wishes to be associated with the many congratulatory messages Professor Holtum received.

At his suggestion, the Kew Guild has refurbished John Smith's tombstone, which stands in St. Anne's churchyard to the right of the entrance, and further donations would be gratefully received by the Treasurer to defray the cost of £49 from general Guild funds.

MADEIRA—ISLAND OF CONTRASTS

Madeira, the largest island of an archipelago which bears its name, is situated nearly 600 miles off the North African coast on the latitude of 32°N. The island is governed by the Portuguese having been settled by them during the 15th century. Of volcanic origin it rises almost vertically from the sea in great cliffs often over 300m (1000ft) in height, with one cliff rising to almost 600m (2000ft). There is a central plateau from which a number of peaks arise to Pico Ruivo at just over 1800m (6000ft). These jagged peaks are probably the remnants of volcanic cones. Much of the rock of the island is granite but there are layers of a soft red volcanic rock in many places. Cloud covers much of this high land for long periods producing a relative humidity of about 85 per cent and the mist results in some of the precipitation. The prevailing wind is from the north or north east bringing between 100 and 120cms (40 and 48in) of rain to the north coast and between 20 and 100cms (8 and 40in) to the south coast each year. Summers are hot and dry at sea level with rain falling mostly during the winter.

There is little level ground on the island and the airport has been formed by blasting away a section of a hill but even so on landing it seems that the aircraft is likely to overshoot the runway and finish up in the sea. There is a narrow coastal strip of reasonably level ground with the hillsides terraced often to considerable heights. Water is collected on the wetter uplands and led down to the areas of cultivation by irrigation channels (levadas) and so there is always water available for cultivation. Centres of population are mostly along the coastal strip with some small villages clasping the hillsides at higher levels. Funchal, the capital, has a deep water harbour into which cruise ships of considerable size can sail and tie up almost in the middle of the town. The industry of the island is concerned almost entirely with tourism whilst wine and perhaps basket making seem to be the only industries which provide exports.

For two hundred years Madeira has been a wintering place for the English who have had their effect on the island even though it is a Portuguese possession. In and around Funchal are many Victorian villas with extensive gardens which have been developed attractively. Whilst there is a strong English influence plantings have wisely been of those suitable to a sub-tropical climate. Amongst trees to be seen are: *Magnolia grandiflora*, *Brassaea actinophylla*, *Sterculia acerifolia*, *S. plantanifolia*, *Jacaranda mimosiaefolia*, Scarlet Gum, *Eucalyptus ficifolia* and other species, *Tabebuia chrysantha* and several species of *Acacia*. Amongst the shrubs most commonly seen were many kinds of *Hibiscus rosa-sinensis*, species and hybrids of *Datura*, *Acalypha hispida*, *Cassia floribunda*, *C. didimobotrya* and *Plumbago capensis*. Climbers seemed to be draped everywhere and were often seen growing up,

over or through shrubs or trees: *Bougainvillea glabra* and *B. spectabilis* and their cultivars, *Pandorea jasminoides*, *Allamanda cathartica*, *Thunbergia natalensis*, some kinds of *Philodendron* and *Monstera deliciosa*. The more spectacular plants are *Strelitzia reginae*, *Anthuriums* of many sorts, and even more numerous kinds of *Begonias* whilst *Agapanthus* are almost classed as weeds so common and widely planted are they. As might be expected succulents are widely planted and many must have been self sown for they appeared frequently on waste and semi-derelict land (*Agave*, *Furcraea*, *Yucca*, *Euphorbia* and *Aloe*).

On the sub-tropical coastal strip the main crops are bananas and sugar cane whilst grapes are grown everywhere. There is extensive cultivation of vegetables around Funchal where there are also some flower crops grown. Of tropical fruits that were common there are custard apples, guavas, mangoes, avocado pears, various kinds of citrus and cucurbits whilst on the cooler uplands are the more temperate fruits such as strawberries, apples, pears, peaches, apricots, plums, chestnuts and some olives.

In the early days of colonisation in the fifteenth and sixteenth centuries the drier southern side of the island was burnt to clear the land which destroyed the natural forest which has never returned. The wetter side however escaped and much remains consisting of trees such as *Laurus azorica*, *Ocotea foetens*, *Clethra arborea*, *Ilex perado* and *I. canariensis*. The steepness of the central part of the island has preserved much of the natural vegetation and when one gets away from the areas of cultivation the flora is largely unspoilt with no invasion of aliens. The precipitous nature of the mountain sides and the vertical cliff faces have ensured the survival of many rarities even if they are out of reach of man who has to view them from afar or through binoculars. The flora of Madeira consists of 1,100 species of which about 120 are endemic. There seems to be more affinity with the European flora than with that of North Africa.

Climbing to any of Madeira's high country shows a startling change of vegetation from sub-tropical at sea level to sub-alpine on the mountain tops. Leaving the bananas, sugar cane, grapes, Hibiscus and bird-of-paradise flowers behind at sea level the road rises through planted forests of mixed trees of pines, gums and wattles until these are left behind and one emerges on to moorland. In places in steep ravines or perched on inaccessible ledges are remnants of native forest. My journey was made in late September and the roadsides were ablaze with blue and white *Agapanthus* and in many places were large drifts of naturalised *Amaryllis belladonna*. Where the side road branched off to Pico Arriero, the roadside plantings had disappeared but gorse had taken its place, both *Ulex europeus* and *U. gallica* are present and were extremely attractive in the autumn sunshine, their golden flowers filling the air with the faint scent of coconut.

As the road I was travelling rose higher it levelled off on to a kind of plateau covered with brown grass whose tones associated with the gold of the dying bracken to create a common autumnal scene. Over the moorland were thickets, often dense, of tree heathers of two species, there were occasional clumps of *Erica arbora* but in the main it was *E. scoparia*. These reached a height of about 2.15m (8 ft) but in sheltered places, isolated plants could be double this height with a trunk as thick as a man's thigh and with a large dense crown. In amongst the heather there were thickets of a billberry also about 2.15m (8ft) high. This was *Vaccinium maderensis* whose leaves were taking on rich red autumn tints before falling. The billberry of the North of England and Scotland, *V. myrtillus*, produces delectable fruits which are avidly collected by those who appreciate them to make into tarts and pies. It is a wearisome task which may explain why the fruit has never achieved wide popularity. Those growing in Madeira also produced delicious fruit but the job of picking was easy for the bushes were heavily laden and because of the height of bushes picking was easy. I lingered to cram my mouth full of succulent fruit and when I reluctantly left my lips were stained purple. To complete the autumn scene of browning grass, golden bracken, the red leaves and blue fruits of billberries there were scattered over the landscape a few small trees of a mountain ash heavily laden with bunches or orange red fruits set against the duller red of the leaves. It was very similar to the common mountain ash or rowan, *Sorbus aucuparia* of which for long it was considered a form but it has now been given specific rank and is called *S. maderensis*.

As the peak was approached mist began to roll down and soon the view was blotted out. Pico Arriero rises to almost 1800m (6000ft) and is Madeira's second highest peak. The viewpoint at the summit was enshrouded in mist so I took the narrow path along the ridge which had been paved and provided with rails for tourists. One was thankful for the rail for the path seemed to follow a knife edge and when the mist thinned in places sheer drops came into view. When not following the ridge the path clung to the cliff faces from which it had been cut out. When the slope became less precipitous the ground would be covered with a thin soil sometimes with patches of grass. Wandering a little way from the path I came across some plants of a rare endemic species of violet, *Viola paradoxa*, and nearby was another rarity also endemic, *Anthyllis lehmannii*. Perched upon ledges above the path and well out of reach were the occasional clumps of *Armeria maderensis* which has larger and broader leaves than most species in the genus although the pink flowers are not as spectacular as some.

Growing out of cracks in the rock or on some of the ledges were small plants of another heather. This is the Madeiran form of

Erica cinerea but it seemed very different from that which is widespread in Northern Europe. Here it formed small isolated plants: never the masses that one associates with this plant and yet when I saw some of this same plant in cultivation it was certainly colourful in a pinkish magenta shade. In some profusion young shoots of *Ranunculus cortusifolius* were just emerging from the soil and how colourful these slopes must be in early spring when their large golden yellow flowers open. When climbing up to ledges to examine plants the feet would be treading on close carpets of foliage causing the air to fill with a scent of lemons; on closer examination the plant proved to be *Micromeria*, probably the species *M. varia*. A fragrance of a different kind was noticed from the crushed leaves of *Origanum virens*. On several vertical cliff faces but always in shade were circular patches of a mossy saxifrage up to 30cms (12ins) in diameter. This was for a long time considered an alpine form of *Saxifraga maderensis* which produces masses of white flowers in late spring; it has since been given specific rank to commemorate its discoverer and is now *S. pickeringi*. On ledges usually in shade and often where it was wet were curtains of *Arabis caucasica* growing in conditions that one would not normally associate with this plant. As the path dipped below the ridge and there was some protection from wind, there were some small spectacular plants with intensely white hairy leaves which proved to be a *Sideritis sp* probably *S. massoniana*. Here the plant was small and compact about 23cms (9 ins) high with leaves not exceeding 2.5cms whilst the remains of the flower stems were probably no more than 10cms (4 ins) high. More than 900m (3000ft) lower growing in the dried up bed of a stream in a forest clearing what was almost certainly the same plant, was over 1.1m (4ft) with flower stems of nearly 90cms (3ft) and leaves of about 10cms (4in). This is a handsome foliage plant sometimes used in bedding during the summer or for decorating a cool glasshouse; if the dwarf form proved hardy and remained small and compact it would be a useful addition to gardens. It was surprising to find two species of *Aichryson*, short lived succulents, at this height for they had been common much lower, even at sea-level. *Aichryson villosum* which has yellow flowers with hairy leaves is more showy than *A. divaricatum* which has darker green, glabrous, loose rosettes of leaves also with yellow flowers. High above, way out of reach on a cliff face were the dinner plate sized compact regular rosettes of another succulent *Aeonium glandulosum*.

Holes began to appear in the mist and soon shafts of sunlight broke through and eventually the mist rolled away and all was bathed in strong warm sunlight. Spectacular views opened up in every direction with steep slopes dropping away into valleys far below and ridge upon ridge disappearing into the distance all bearing their wealth of varied plant material.

B. HALLIWELL.

A JOURNEY TO SOUTH AMERICA

Leaving a dark and rainswept London Airport for the warmth of the West Indian sun is something we may perhaps all dream of when winter closes on the Gardens and in 1974 I was delighted to make such a transition to join Clive Jermy of the British Museum in his quest for the ferns of Trinidad and Tobago as part of his work on the revision of the Flora. Following this part of my journey, I visited Venezuela at the invitation of the Maracaibo Botanic Garden Foundation to advise on their project and then continued to the Amazon in Brazil basing myself at the Institute of Tropical Botany (INPA) in Manaus.

Trinidad is all that is to be expected of a tropical island and I soon settled to the relaxing warm and friendly way of life. From where I was staying on the University Campus of St. Augustine the Northern Range dominated the skyline and as it happened much of my time, for in its rain soaked forests orchids and ferns abound, along with snakes (some thirty species in Trinidad), giant earthworms and tree frogs. Although only rising to 3,000 feet because of the tropical climate I found climbing these mountains quite a test.

On the north side of the Range, scattered plants of the national flower of Trinidad, *Warszewiczia* were in flower flecking the forest edge with their bright red bracts and I was pleased to see the location from where the now famous double *Conoclinium* originated. But I think of all the plants, I found the heliconias the most engrossing. There are only a few species in Trinidad although *H. wagneriana* the wild plantain, is a very abundant coloniser in areas cleared of forest. Later in Brazil I saw many other heliconias which were new to me and I believe to cultivation, some of which we now have growing at Kew in the hope that they will make useful ornamental plants.

Gesneriads have always been favourites of mine and I could not resist collecting from Trinidad the beautiful blue *Gloxinia perennis* and from Tobago *Chrysothemis (Tussacia) pulchella* with its orange and yellow flowers; although we have had these plants in cultivation at Kew for many years I convinced myself I had found superior forms!

The Central Range was perhaps less rewarding, but the whole island seemed filled with treasures, from the mangrove swamps with scarlet ibis; the Arima savannah with *Mauritia* palm islands on a bog with *Drosera* and *Utricularia*—and razor grass; the dryer western side of the island with more xerophytic plant associations; the brightly coloured butterflies and birds, humming birds sipping nectar from flowers above one's head; the warmth and colour of the people, all combine to create pleasurable memories.

Tobago is reputed to be the island upon which Daniel Defoe based his description of Robinson Crusoe's island and it is certainly a pleasant place for a holiday. The coastal scenery is reminiscent

in part of North Cornwall but with coral reefs and comfortably warm sands and sea. Being preoccupied with ferns, Clive Jermy and I spent most of our time in the Central Forest Reserve working at about 1,500ft, and at times even at this altitude it was decidedly cold when it rained. Though the flora has more Caribbean elements it is less well endowed than that of Trinidad which shares most of its flora with the nearby South American mainland. In remembering this island I think of coastal views with the soaring man-of-war frigate birds, diving audubon sheerwaters and pelicans, and again of friendly people, sundowning on their verandahs watching the world, and the occasional high speed European, go by.

In terms of active conservation there are many designated forest reserves on Trinidad and Tobago, a number dating back to colonial days, but with no really effective means of policing. The demands of the stewpot still outweigh aesthetic and scientific appreciation. The forestry policy is reasonable, enriching the natural forest by supplementary planting of some native and other introduced timber trees, however I felt rather sad to observe the native "low grade" trees and under-shrubs lying rotting on the forest floor making way for the "high grade" plants. Not much of Tobago is now as Columbus saw it, although fortunately there are still some areas of forest comparatively inaccessible to the Forestry Department. During the last century the island was famed for sugar production but there is now very little sugar left since the steeply sided valleys have proved unsuitable for large scale production.

Although Trinidad has a fairly large income from its oil wells and refinery, the wealth of Venezuela has to be seen to be believed. The life style is obviously strongly influenced by North America and life can in fact be one long air-conditioned bore unless you can escape from the rapidly expanding towns. I must confess to being surprised by the size and beauty of Caracas which of course has a well established botanic garden. Maracaibo on the other hand is just developing its garden on a site donated by Shell Petroleum. The garden is at this stage very largely privately financed but the project is being carried out in close association with the local University.

After the official and more formal duties of Maracaibo I went on to Brazil not really being sure of what to expect of the Amazon of which so much has been written in terms of adventure and excitement—it did not disappoint me. The huge river with its dolphins and piranha—really more of an inland sea, and the endless luxuriant forest. It was not long however before I realised that my preconception of the Amazonian forest was wrongly based because the forest is not at all uniform but has an amazing diversity of plants.

I was very lucky and able to travel on the newly constructed roads which are otherwise restricted to Government vehicles. These led to rich and scarcely botanised forests of plants. Camping on a white sand campina by a rippling clear stream, laying

under the trees in a hammock, looking at the land under open starlit sky, seen only otherwise by a few tribes of Indians was perhaps the richest and most memorable of all my experiences. Plant finds were altogether too numerous to mention. One I especially treasured was a new yellow *Mandevilla* but also the *Phenakospermum* (*Strelitziaceae*)—which is the South American counterpart of the *Ravenala*—was, although quite common none-the-less an exciting plant to find in flower. Unfortunately with the latter, the seeds which I collected had lost their viability by the time of my return to Kew.

On the river I travelled in both rubber boats and canoes and was lucky to meet up with Malcolm Leppard (Kew 1971) who was back in Brazil on a Stanley Smith Travel Award. The high point of my visit was in seeing *Victoria amazonica* in its native habitat and the inexpressible pleasure of floating on a flooded Varzea (the local name for a riverside meadowland which is seasonally flooded by the river) in a wooden dugout canoe amongst the hugh spiny leaves and ivory white flowers of this most famous of plants.

In contrast the saddest part of my visit was in witnessing the rather senseless destruction and burning of the forests by the settlers who had already moved in along the new roads. The forest soil in this area is so thin (technically a Kraznozem—a completely weathered clay over solid rock) that it can scarcely support any crop and most of these primary settlers seem devoid of any knowledge of reasonable agricultural practices and are reducing the land to a bare eroded desert without even producing a crop or using the timber. In some areas where people with agricultural knowledge have moved in crops of pepper (*Piper nigrum*) citrus and cashews have been cultivated with a skill and care that includes irrigation and fertilisers.

Perhaps the greatest pleasure of plant hunting is when the plants that one has collected come into flower at Kew for the first time. Their flowering evokes a host of memories of sweat, worry and mosquitoes but with them the total and exciting picture of the plant in its natural setting.

J. B. SIMMONS.

KEWITES IN AFRICA

In August 1975 my wife and I returned from a one-and-a-half-year, 38,000-mile car journey to India and Africa.

In early April 1973, ten months before our departure, I wrote to more than 70 ex-Kewites along our route, to see if they would be interested to meet. I received 18 replies, and made contact with 11 of those who wrote.

I thought it might be of interest to ex-Kewites to hear about some of their old colleagues, with whom they may have lost contact.

J. J. Aves (1939) is Director of Parks and Recreation in Pretoria (S. Africa). Unfortunately time did not permit a visit to his department but we did spend a night with **Mark** and **Bridget Theron** (1963). Mark is one of two Assistant Parks Directors at Pretoria. After leaving Kew, Mark spent three years with Johannesburg Parks Department and left in 1966 for the position of Parks Manager at Alberton. He has been at Pretoria since November 1973. Both Mark and Bridget have obtained their B. Administration in Public Administration and are currently studying for B.Admin. (Hons.). **Peter Benton** (1947) we met unexpectedly at Durban Parks Department—he has since returned to the United Kingdom. Also with Durban Parks Department is **Errol Scarr** (1967) who was unfortunately on holiday at the time of our visit. **F. J. Cook** (1921) is now retired and lives in Port Elizabeth. After leaving Kew he sailed to Capetown to take up an appointment with Kirstenbosch Botanic Garden. He recalled plant collecting expeditions in carts pulled by mules, and sleeping in the open for weeks at a time. In 1929 he moved to Port Elizabeth Parks Department as Park Keeper and soon after became Assistant Parks Superintendent and later Director of Parks until his retirement in 1959.

At Kirstenbosch Botanic Garden we met up with **John Winter** (1964) who is one of the Curators. In 1975 he visited Europe and the U.S.A. on a tour of Botanic Gardens.

P. C. D. Wood (1950) went to Kenya after attending the College of Park Administration. Later in 1955 he moved to Rhodesia and became involved in landscape gardening. In 1967 he opened his own nursery near Salisbury. He now employs 130 staff.

It was disappointing to miss meeting **Dr. Greenway**, President of the Guild 1970/71, due to a misunderstanding over dates. Dr. Greenway is now semi-retired and living in Nairobi.

Still in Kenya, **E. B. Kingi** (1966) is Parks Superintendent for Mombasa. Busy with preparations for the local Agricultural Show, he still found time to put us up and give us an interesting tour of his department. **Brian Perkins** (1912) is also living in Mombasa and is in private practice as a landscape architect.

This is a brief resumé of our contacts during our trip, which I hope will interest contemporary Kewites of those listed.

RICHARD C. WARD.

THE CHANGING FACE OF PLANT DISTRIBUTION FROM KEW

Historical background

In 1838/9 a report on the status and functions of the Royal Botanic Gardens, Kew, criticised the running of the Gardens in stating that "no communication with colonial gardens is apparent from the Garden Book of Delivery". John Smith, who was curator at the time of the report, published his Records of Kew Gardens, in 1880, and defended the activities of the Gardens against such criticism by recording in his preface the following:

"Much correspondence had been carried on from an early date with the gardens in the Colonies, as well as the Botanic Gardens in Europe; and the Botanic Gardens of St. Vincent, Jamaica, and Trinidad had early been supplied from Kew with all the most useful plants, suitable to the climate, and useful in domestic economy and commerce. The Mango, Clove and Nutmeg plants were early sent to these islands.

"With regard to Colonial gardens in the East, Mauritius, for instance, had received all the useful fruits and vegetables from the French West Indies and other countries before it became a British Colony; in 1818 a selection of useful plants was sent, and after that collections of the finest kinds of European fruits were sent from Kew. New South Wales was also early supplied with useful fruits suitable to its temperate climate, and there was a considerable intercourse with India and China through the East India Company's ships, in some cases on an extensive scale, as for instance, in the spring of 1806, fourteen boxes of plants were sent by the ship *Thames* to India, and to ensure their safety during the voyage two young gardeners and a carpenter were sent to place and see them properly secured on board the ship before sailing. In the same year a large collection of Succulents was also sent to Calcutta.

"With regard to European Botanic Gardens, their collections were from time to time increased by plants sent from Kew. In 1797, 230 species of plants were sent to the Grand Duchess of Russia.

"After the peace of 1814, when the communication with the Continent became free, it was common for the professors and Directors of those gardens from time to time to visit Kew, and make selections of plants; for instance, the selection made by Fischer, of St. Petersburg, in 1825, was forwarded in thirteen hampers . . . Besides these special exports to the Continent, it was the custom to send frequently by the King's messenger one or more boxes of selected plants for the special court he was for the time accredited to.

"A regular exchange of plants was also kept up between the Botanic Gardens of this country and amateur growers of special collections. The above is sufficient to show that Kew has not been backward in early supplying the Colonies and Botanic Gardens of Europe with rare plants."

In a critical vein also a local newspaper quoted last year from its own pages of one hundred years previously the following passage under the heading *The Secret Plants*:

"Now that a movement is on foot for opening Kew Gardens to the public at an earlier hour in the day, the following extract from Dean Herbert's description of Sir Joseph Bank's management of them in 1837 will be read with interest:

'The illiberal system established at Kew Gardens, whereby the rare plants collected there were hoarded with the most niggard jealousy, and kept as much as possible out of the sight of any enquirer, led to a feeling of satisfaction whenever it was known that the garden had been plundered and some of its hidden treasures brought into circulation.'

"It was the narrow-minded doctrine of Sir Joseph Banks that he could only render the King's collection superior to others by monopolising its contents; whereas, if he had made its contents easily accessible, it would have been a pleasure and pride to the nation.

"It is now nearly 20 years since I visited that odious and useless establishment. Formerly I went there often, but always in vain, for if I inquired for any rare plants, which I had reason to believe were in the collection—excepting those which from their size could not be concealed—my conductor always denied any knowledge of them.

"The multitude of rare plants that have flourished and perished there, unobserved, I believe to be very great."

Apparently, people who do not understand what Kew is about still have much the same ideas about the collections. The author of this present paper overheard two ladies (one the wife of an official visitor) discussing the Kew collections; one asked what Kew did with all its plants, and the other responded, "Oh, they won't give anything away; they're like little boys—I'll swap you one if you give me something'".

The recent past

The readers of this Journal no doubt know enough about Kew not to think in that way, but there have been changes over the last few years concerning the distribution of plants from Kew. Until the late 1960s a very large proportion of all the plant material sent out of Kew was used for purely ornamental purposes and a considerable amount of propagation work was involved in preparing such material. There were certainly many requests for material

for research use but the fulfilment of these was not as important as the supply of sometimes commonly available ornamentals or the distribution of plants of simply horticultural merit. Many plants were also sent out to schools and colleges for elementary project work.

The demand for plant material of all sorts for use in a wide range of advanced scientific research projects has increased very noticeably in recent years, and in order to meet the requirements for properly identified material of plants not readily available elsewhere it has become more and more important to concentrate on propagating worth-while subjects. Over the last few years also has come the recognition of the need to distribute to other research centres those species which are known to be rare or endangered in their wild state; such distribution reduces the pressure on the wild populations of such plants and also helps to ensure their survival in cultivation. This too has placed greater demands on the time and facilities available for propagation.

Present policy

Material of fairly common species still becomes available as surplus to the needs of the Kew collections and such material is offered to other centres for their use if required, but it is now essential to pay more attention to the propagation and distribution of material known to be less readily available and it is no longer possible to provide large collections even of popular teaching material to colleges, schools, etc. There are many centres which provide services of this sort and these centres do receive initial stock from Kew for further propagation and distribution.

From the records of the last three years for despatch of plant material it will be clear that provision of research material has increased and that the new field of providing conservation material to other gardens has been introduced and is increasing in importance. The widespread distribution of surplus plants has also become more important and the despatch of purely ornamental plants has been reduced significantly.

Batches of plant material despatched from Living Collections Division

Category	Year					
	1973		1974		1975	
	No.	%	No.	%	No.	%
<i>Conservation</i> —distribution of material of conservation importance	12	4	26	8.2	108	24
<i>Research</i> —material for specific scientific research work—mainly to universities, botanic gardens and experimental stations	131	47	139	44.5	180	40

<i>Surplus</i> —distributions by offer of material surplus to requirements of Kew collections	29	10	56	17.9	44	10
<i>Educational</i> —general experimental use, and inclusion in teaching collections of colleges and universities, etc.	109	39	36	11.5	61	13
<i>Amenity</i> —ornamental material for use in parks, nursery trade, etc.			56	17.9	59	13
Totals	281	100	313	100	452	100

Some batches comprise single items but most include considerably more and it is estimated that between 2,500 and 3,000 distinct taxa have been involved in such consignments during 1974 and 1975. In the three years tabulated above 53 different overseas countries have received plants from Kew.

Wherever possible plants and seeds of conservation significance are divided into multiple batches as soon as they are received, and are sent out to gardens all over the world. Every specialist grower knows and accepts the saying, "If you want to keep an important plant, give some of it away"; apart from ensuring survival in cultivation as far as possible, this also makes it possible to apply many variations in propagating techniques, and facilitates study from different points of view.

In order that effective distribution of plants can be rapidly undertaken it has been necessary to compile indexes of collections with special research interests, and lists of centres all over the world where particular taxa, genera and families are likely to be required. It is not always easy to decide where to send, for example, seeds of a rare species to give it the best chances of survival in cultivation, and where readers of this Journal are in a position to comment it would be helpful to receive information about specialist local interest.

J. L. S. KEESING.

February 1976.

F. RICHARDSON: AN APPRECIATION

(Jodrell Laboratory, 1934-1975)

Mr. F. Richardson, known to all of his many friends as 'Rich', joined the present writer to form the 2-man staff of the Jodrell Laboratory on May 14th, 1934. His appointment was in the capacity of a Laboratory Assistant and by the time he retired he had attained the rank of Senior Scientific Officer. There was a great shortage of vacancies in botanical laboratories at the time when he joined the Kew staff because economic conditions were then very much as they are to-day. There were consequently over 100, exclusively male applicants for the post. It was no easy matter to choose the most suitable candidate from amongst so many. However a short list of candidates was drawn up and they were interviewed by the then Director, Sir Arthur Hill, and the present writer. We were both impressed by 'Rich's' unassuming and down to earth outlook. Furthermore we felt that he was the type of man who would take root at Kew and become an invaluable member of the staff. Dr. B. F. Barnes of Birkbeck College, University of London, who had already seen something of 'Rich's' work as a botanical technician, strongly supported his application. And so 'Rich' came to Kew.

Those who knew 'Rich' only towards the end of his career will be interested to know that he was 19 years old when he joined the staff. He was physically very vigorous and his recreations included long distance cycling and football.

The new appointment involved a change in the status of the post, for 'Rich' succeeded the very popular Mr. J. Mingay (known to all as 'Mingy') one of the gardens constables who had been seconded to the laboratory many years previously and who had earned for himself the status of a well-known Kew character by performing his laboratory and other, less official, duties in his own distinctive way. However in facing the much greater technical responsibilities that were assigned to him, 'Rich', on coming to Kew, already had the advantage of a very good grounding in laboratory work at Birkbeck College. His arrival marked the beginning of an association between our two selves which, besides being technically fruitful, developed into a lasting friendship. As the years subsequently went by, and the staff increased, it was a pleasure to see this friendship extended. All of his colleagues had a great respect for 'Rich' not only because of his sterling personal qualities and unfailing good nature, but also because his technical knowledge and skill were in some respects unrivalled. From the first he mastered the art of cutting sections with our one and only sledge microtome. This was his special tool and one for which he developed a real craftsman's love; he continued to work with this one individual instrument throughout his career. Similar

instruments obtained later were always judged to be not quite so good. 'Rich' also acquired great skill in sharpening the knives that were used on the microtome, and he always remained faithful to hand sharpening, resorting to a 'stone' from time to time but maintaining a fine cutting edge with leather strops mounted on blocks of wood. This sharpening technique, and indeed many microscopical procedures, were introduced to Kew from the Oxford institution that was then known as the Imperial (now Commonwealth) Forestry Institute. However even 'Rich' could not prevent the cutting edges of the knives from becoming slightly concave after repeated sharpening and so we had to have new knives from time to time with 'Rich's' full approval.

'Rich's' first essays in section cutting on the microtome were made on wood specimens. However he went on to cut sections of a very wide range of materials. He reached a high level in his section cutting achievements because he was a master craftsman who successfully handled his material by the simplest possible methods. Besides working with the sledge microtome 'Rich' displayed great skill in using safety razor blades for many purposes, and his ability to 'restore' sections of herbarium specimens and archaeological material with domestic bleaching agents and other simple reagents was the envy of many who had tried unsuccessfully to achieve the same objectives by using methods that were much more elaborate. In the face of this urge to use simple, down to earth techniques, the measure of his versatility was shown towards the end of his career when he took an active part in operating the scanning electron microscope with David Cutler's guidance.

Besides his skill as a technician, 'Rich' gained a remarkable understanding of the cellular organization of the many types of material and plant tissue that it fell to his lot to examine. He had a special interest in and understanding of wood structure, and he put his knowledge to good use in establishing the botanical identity of timbers and charcoal. 'Rich' applied the same skill no matter whether the enquiry related to the casual identification of a walking stick or was a matter of more profound importance as for example when working on material from the Sutton Hoo ship burial submitted by the British Museum or the Black Prince's shield from Canterbury cathedral. He never committed himself unless he was certain of his facts and it was only on very rare occasions that subsequent checking of his conclusions showed him to be wrong. With many of these identifications he was limited to working with the smallest fragments of material through the need to avoid damaging the article under investigation. He sometimes mystified those who were reluctant to give permission for sections to be taken by concealing the places from which they were cut by the judicious application of dirt.

'Rich' played a very important part in building up the reference collection of microscope slides. This provides an invaluable back-

ground to all of our very varied routine identifications. 'Rich' also prepared for the collection a high proportion of the innumerable slides on which our reference books on systematic anatomy are based. Without this splendid exercise in co-operation these books would never have been written in their present form. It is also most important to recognize that 'Rich' passed on much of his knowledge to younger technicians who worked with him, as well as to many visitors.

It is possible to touch only briefly on 'Rich's' very varied activities during the second world war when our attention had to be given to such exercises as cultivating and extracting rubber from the so-called Russian Dandelion (*Taraxacum kok-saghyz*), or extracting fibre from stinging nettles.

Tests on 'Rich's' nettle fibre made by physicists, demonstrated, perhaps rather surprisingly, that the material is one of the strongest natural fibres of vegetable origin that is known to science. So far as rubber from the Russian Dandelion is concerned it is a tribute to 'Rich's' ingenuity that, with the aid of a simple ball mill, but mainly by manual manipulation of roots in a sink, he produced rubber that was pronounced by a specialist to be equal in quality to good samples of Para rubber derived from *Hevea brasiliensis*. 'Rich' also contributed to a series of investigations that led to the establishment of a small, war-time factory, run by a Dutch refugee in Wiltshire, where elder pith, and sticks of pegwood, both urgently required at the time by scientific instrument makers were produced from *Sambucus nigra*, whilst sticks of charcoal were prepared by carbonizing willow wood (*Salix* sp.).

'Rich' never shirked any of the numerous challenges by which he was confronted during the course of his career. He enjoyed meeting them, and indeed, when the time came for him to retire, he told the present writer that he felt that his whole time at Kew had been very enjoyable and worth while.

The Kew staff collectively said *au revoir* to 'Rich' on Friday, March 7th, 1975, when he was presented by the Director with Bean's *Trees and Shrubs* and other tokens of our respect. These included his favourite student's microscope, with a suitable inscription attached, which was used in preference to all others for 'preliminary examinations'. His colleagues at the Jodrell subsequently entertained him to a buffet luncheon in the laboratory. We all hope that he will come to see us from time to time, for 'Rich' will be sadly missed. He contributed something noteworthy to Kew's history and it is to be hoped that memories of this fruitful period of his life will give him satisfaction whilst, in retirement, he gives vent to his horticultural interests by cultivating his garden and allotment.

C. R. METCALFE.

THE FUNCTION OF LIVING PLANT COLLECTIONS IN CONSERVATION AND IN CONSERVATION-ORIENTATED RESEARCH AND PUBLIC EDUCATION

Conservation Conference, Royal Botanic Gardens, Kew,
2nd-6th September, 1975
Sponsored by the NATO Eco-Sciences Panel

The Conference was attended by approximately 150 speakers and delegates from twenty-eight countries of every continent. The meeting was especially valuable in bringing together curators, technical managers and members of the scientific staffs of many European and North American botanic gardens who now look upon conservation as one of their most significant functions. Universities, research institutes and conservation agencies were well represented.

The Conference strongly asserted that the basic requirement for the preservation of the threatened floras of the world was conservation in the natural habitat by the extension of nature protection policies and the setting up of an adequate network of ecosystem reserves in all the major floristic regions. With this as the fundamental principle, speakers examined the ways in which living plant collections could be developed and managed as conservation resources in their own right and in support of field conservation through research and education.

The delegates quickly focused on the serious problems now besetting the flora of the world through the growth of human populations and the demands of consumer societies. As noted by Sir Otto Frankel (Canberra, Australia) in his address to the delegates, "... man has become the most powerful and destructive organism the world has ever known," and much of his destructive power is directed upon the plant kingdom.

Professor Raven (Missouri, USA) stressed the special problem of tropical floras. About two-thirds of the vascular plant species of the world occur in the tropics, where the rain forest is now being felled or burned at a rate of 20,000 acres a day. At the present rate of destruction, Professor Raven estimates that at least 50,000 species will have reached threatened status or become extinct by the end of the century. Certain temperate floras are in equal hazard. Oceanic islands are particularly vulnerable, as in the case of the Hawaiian Islands, where as much as one half of the unique native flora is listed as endangered or now of doubtful status. The floras of regions with Mediterranean climates, where there now exist perhaps as many as 12,000 local endemic species, are also seriously at risk.

It was against this background that the functions of living plant collections maintained under human care were examined. A rough estimate suggests that throughout the world some 1,000 institutes maintain collections of vascular plants. With their wealth of resources, it is reasonable to expect that they could make between them a major contribution to conservation. In the case of the general botanic gardens, it was agreed that their most effective role would be in relation to their own local floras, where a substantial contribution could be made to conservation in the field through scientific and technical services and also by maintaining resource collections in cultivation or in seed banks. Good examples of this kind of effort may be seen in the work of the Canberra Botanic Garden in Australia, Kirstenbosch in South Africa, and Cambridge Botanic Garden in the UK with its special interest in East Anglian plants.

The view of many participants in the Conference was that with a proper co-ordination of effort between existing conservation organisations and institutions maintaining collections and seed banks much of the endangered temperate flora could well be saved. The problem is far greater for the tropics, and the prospects much less favourable. The Conference agreed that it was a responsibility of institutions in the temperate countries to give all possible help to organisations and institutions in the tropics in their formidable task, both in relation to conservation in the field and to the retention of samples of the vanishing plant "gene pools" in cultivation and in seed banks.

Various papers dealt with the technical aspects of maintaining living collections. Professor K. Esser (Bochum, Germany) noted that, strictly, it is possible in cultivated collections neither to *conserve*—that is, to keep populations under the same conditions as in nature following the same paths of evolution—nor to *preserve*—to keep them essentially in the same state as when they were taken in from the natural habitat. Nevertheless, notwithstanding the risks of genetic change in cultivated collections there may be no alternative but to retain species in this manner when extinction is their certain fate in the wild. The problems of assembling and maintaining living collections were also considered. To ensure that one at least begins with an adequate representation of the genetic variation of each species requires careful attention to sampling methods, and to serve a proper function in conservation and associated research, good documentation is essential. There must also be careful consideration of what it might be reasonably expected to achieve in each centre over the time scale envisaged in any particular conservation programme. It is, for example, impossible to ensure the survival of species in perpetuity when cultivation depends on energy inputs, as in the case of glasshouse-grown collections of tropical species in temperate climates.

The problems of cultivating special groups were illustrated by reference to mesembryanthemums in Hamburg, Hawaiian endemics in the various Hawaiian Botanic Gardens and the arctic flora of Greenland in Copenhagen. The costs of handling ecologically specialised species are often very high, and can only be justified in relation to research. The value of autecological studies of plants in cultivation can nevertheless be considerable, even although there are often difficulties in transferring what is learned to situations in the field. For the management of ecosystem reserves and for any future programmes of reconstruction and rehabilitation of devastated ecosystems much more knowledge of the reproductive biology of the species concerned is required, and here again cultivated collections provide an important source of research material.

A great deal of stress was placed on the need for better international collaboration and co-ordination during the course of the Conference. For institutions to work effectively together information must be freely exchanged, and the need for standardised recording and monitoring systems was noted by many speakers. Improved data handling methods could simplify the task of locating material held in cultivation and in rationalising the effort among the different institutions. Examples of data systems of varying degrees of elaboration, from standard card indexes to elaborate computerised systems, were exhibited and discussed.

A major role for which botanic gardens in particular are well adapted is in conveying information about conservation to the general public. The millions of people who visit gardens provide a ready audience, and given modern display and presentation techniques the needs can be conveyed and sympathy and understanding for the conservation case improved.

Much of the work of the Conference was conducted outside of the conference hall, in smaller seminars, personal discussions, and during the visits to the gardens at Kew, Wisley and Cambridge. The Resolutions that developed from these mutually stimulating discussions can be seen as an assertion of the delegates' intentions to use their newfound international collaboration as the starting point for active policies towards plant conservation.

J. B. SIMMONS,

Royal Botanic Gardens, Kew,

September 1975.

The full Proceedings of the Conference will be published in volume form. In the final plenary session it was agreed that the Resolutions calling for early action should be published separately and given wide circulation. The following were agreed unanimously.

Resolutions

1. This conference, conscious that the rich tropical floras of the world are now in great hazard, (1) urges that a strong network of nature reserves and conservation-orientated gardens should be established throughout the tropics both through the strengthening and development of existing foundations and through the creation of new ones where the need exists; (2) recommends that institutions in temperate countries should offer all possible help in this programme through technical aid, training and the secondment of personnel; and (3) urges that this aim should be pursued through the International Union for Conservation of Nature and Natural Resources to ensure good co-ordination and proper understanding of the importance of the work for the tropical countries themselves and for the whole of mankind.
2. This Conference urges that special attention be given to the Conservation of Threatened Floras particularly of islands and those parts of the world with Mediterranean or similar climates since both are often inhabited by very large numbers of narrowly endemic species of plants endangered by human activities.
3. This Conference recommends that institutions maintaining plant collections (including seed collections) for conservation purposes should, in general, give priority to their local flora, so as (1) to benefit from local taxonomic, ecological, physiological and other pertinent specialist knowledge; (2) to reduce the need to simulate remote climates with the attendant costs and dependence on man-generated energy; (3) to be able to offer from direct experience information and advice concerning field conservation in the country of the institution, and (4) to provide a basis from which public interest and pride in the indigenous flora can be developed through display and education services.
4. This Conference urges all Governments to ratify the "Convention on International Trade in Endangered Species of Wild Fauna and Flora" as soon as possible.
5. This Conference recommends that, wherever possible, all living plant collections grown for conservation purposes should also be stored in the form of seeds under appropriate conditions for long-term conservation.
6. This Conference urges that the propagation of rare and endangered species, including research into appropriate techniques, should be actively pursued by Botanic Gardens and

other bodies maintaining living plant collections, and that such activities should be financially supported where necessary by Conservation, or other appropriate Organisations. Special attention should be given to economic plants and their wild relatives and to plants which are or might be commercially used.

7. This Conference urges that whenever threatened plants are taken into cultivation, this be done by means of seed and/or cuttings whenever possible so as not to deplete the wild populations.
8. This Conference, aware of the urgent need for scientifically verified lists of threatened species on a world scale, calls for the full support for the work of the IUCN Threatened Plants Committee in compiling such lists, and urges the task of propagating stocks of species in institutions maintaining living plant collections.
9. This Conference calls for the widest publicity to its full deliberations to be given in all appropriate quarters, and urges that the resolutions should be made available separately for this purpose with the minimum delay.
10. This Conference, being acutely aware of the urgency and complexity of many problems which have been raised during the sessions, urges the desirability of continued study and exchange of information, and the setting up of working parties to continue the study of outstanding issues, e.g.:
 1. listing of collections, documentation and dissemination of information.
 2. commercial use of wild species.
 3. preparation of codes of practice.
 4. publicity.
 5. relationship between institutions maintaining living plant collections and organisations concerned with nature conservation.
 6. compilation of a short list of rare and endangered plants of high scientific importance to be commended to botanic gardens to bring them into cultivation.

Future communications may be addressed to either:

Mr. J. B. Simmons, Conference Director, or

Mr. R. I. Beyer, Conference Organiser, Royal Botanic Gardens,
Kew.

KEW GUILD AWARD SCHEME

The past year has been a most encouraging one for everyone who has been connected with the Award Scheme. It was of course notable for being the first full calendar year of the Scheme's formal existence and highlighted by the first invitation to apply for Awards. An exciting start to a bold and enterprising undertaking.

This first year was also distinguished by the generous way the membership responded to the first appeal for Award Scheme funds, despite the general atmosphere of financial gloom.

In the first nine months of fund raising nearly £600 has been collected toward the target capital of £5,000. Appeals to overseas members and selected commercial organisations have now commenced, resulting in a pleasing first response. Fund raising in the form of special events and direct appeals will continue until the target is reached. A special event planned for 1976 is a draw for a splendid water-colour, kindly donated for this purpose by Mary Grierson. An opportunity not to be missed at £1 a time.

1976 will in addition see the first Award under the scheme. It is opportune now to repeat that the scheme is open to all members, young and old alike, for support on projects of the most diverse character. The Award Scheme needs funds but it also needs projects to support. The choice is clear, either send a donation or make an application—either will be welcome.

The Award Scheme Sub-Committee would like to extend its grateful thanks to the following members who helped to raise £430.00 from donations:

Frank Knight	W. J. C. Lawrence	R. E. Dean
Allen Paterson	F. H. McKinnen	Wilfred Tuck
Edward Chantler	Anthony Dunball	T. Garwood
Malcolm Leppard	C. B. Pead	Peter Bridgeman
G. W. Wood	Prof. J. Hesslop-Harrison	A. D. Webster
G. Johnson	H. D. Tindall	W. E. Bessler
M. J. Whitehead	Donald Wells	Keith Jones
T. D. Maitland	C. W. Rudd	K. Robinson
Robert Adams	J. H. Turner	Allan Hart
Charles Coates	Dorothy Catling	J. H. Glasheen
Noel Procter	Edwin Cherry	R. D. Hogg
Gordon Groves	C. R. Parsons	B. Marsh
H. A. G. Perkins	J. Halhead	Frederick Flippance
Charles Stock	H. H. Burkhill	Graham Burgess
C. Jones	Barry Phillips	Brian Perkins
Frank Mackenness	W. G. Fry	Tom Risely
Michael Clift		

A full list of acknowledgment for donations from commercial organisations will be published next year.

B. E. LOWE,

Chairman, Award Scheme Sub-Committee.

Editor's note.—Miss S. Leche, Student, has been made first recipient of an award under the scheme, to aid her plant collecting trip to little botanised parts of Spain.

OBITUARIES

HARRY THOMAS

We regret that Harry Thomas died in the City Hospital, Chester, on the 17th May, 1975.

Harry was born on 7th July, 1889, and was educated at Willaston School, Cheshire. After training in private gardens he entered Kew as a student gardener in 1909 serving mainly in the tropical department.

Leaving Kew in 1911 he took up an appointment with the Botanic Gardens, Calcutta, and was posted to the Chinchona Plantations, Darjeeling District. In all he spent 35 years on *Chinchona* in India and Burma and was responsible for considerable developments and improvements. He retired in 1946 as General Manager of Plantations in Bengal, a post which he had held for five years.

Harry's retirement was spent in Scotland. He was widowed in 1949. His one child, Mrs. Cynthia Thornburn, kindly sent us these notes. We in turn express our sincere sympathies.

HARRY BURTON

Harry Burton passed away on 16th March, 1975, at the age of 93 in West Palm Beach, Florida. Harry entered Kew on 24th March, 1902, as a student gardener and left on the 24th December, 1903. He was during this time employed in the Tropical, Decorative and Alpine Departments.

Four years later Harry moved to the United States where he worked in the plant and landscape business in New Jersey, Pennsylvania, and Virginia before settling down in West Palm Beach where he remained from 1925.

Harry was born in Nottingham and in 1911 married the former Laura Lilian Sharp of Leicester, England. She died soon after him in April, 1975.

Harry is survived by four daughters and seven grandchildren to whom we send our very sincere sympathies. We also thank one of the daughters, Mrs. Lilian Burton Slaton, for these details.

WALTER FRANKLIN

It is with regret that we record the passing of Walter Franklin. Walter, who was the son of the Farm Manager on Tresco, Isle of Scilly, commenced his training in the famous gardens on the island—Tresco Abbey Gardens, the home of Major Dorrien-Smith. He was encouraged to apply for a studentship at Kew by the late W. G. Andrews who had left Kew to take over the head's position at Tresco.

Walter entered Kew in 1922 and soon proved outstanding at his work. in handling a boat on the Thames (as one might expect coming from Tresco), and on the cricket field. Wickets fell to his bowling whilst as a bat he was very sound and could be relied upon for a good score; for example, in 1925 he hit 36 out of a total of 70 which his side scored against the Kew Cricket Club.

After two years at Kew he took a Foreman's post at Cambridge Botanic Gardens and stayed for a similar period. Another four years was spent as Assistant Parks Superintendent, Clacton-on-Sea. His next move was to Southend-on-Sea Parks Department, where he remained for six years. The move to Coventry was made in 1938 first as general foreman in the Parks, Cemeteries and Allotments Department, then in 1947 as Deputy General Superintendent, and finally as Deputy Director.

Walter took a keen interest in the affairs of the Institute of Park and Recreation Administration and encouraged young people in the profession to join and to become active members in this organisation. His horticultural knowledge and skill were highly respected.

Our sincere sympathies are extended to his widow Hilda whose father was Corporal Richardson in the Constabulary at Kew.

Our thanks to Jack Clark who was an old friend of Walter, who supplied these notes.

K. E. TOMS

We regret that Kenneth Toms passed away on the 11th October, 1975, after an illness of some months. He left Kew in 1925 and like so many others, entered the Colonial Service, following the advice of Sir Arthur Hill, who was then Director. Kenneth was stationed in Trinidad with Sir Geoffrey Evans as Director. Later he served in Africa.

While at Kew he won the swimming race in the Thames, a reminder of the times when the water was a good deal cleaner than it is today.

Mrs. Toms wrote—"I have happy memories of visits and functions at Kew after we returned from Africa." We send our very sincere sympathies.

THOMAS E. CLARK

The passing of Thomas E. Clark on 8th March, 1975, aged 74 years, is recorded with sadness on behalf of all his innumerable friends and colleagues throughout the country. He was for 27 years Superintendent of Parks and Registrar of Cemeteries and Crematoriums to the County Borough of Bolton, until his retirement in 1965.

With a horticultural heritage (his father being Superintendent of Parks, Widnes), he decided on leaving the local Grammar School to enter the Horticulture profession and eventually entered Kew from Lord Derby's estate, Knowsley.

After a period in the Tropical Department he transferred to the Alpine Department under the late W. Irving, becoming sub-foreman until leaving Kew.

During his service at Kew he took every advantage of all the facilities the Gardens offered in those days to the young gardener, and no doubt there are a few contemporaries who remember his prowess on the dance floor at the Saturday night dances held in the Kew Parish Hall.

Leaving Kew he joined the Leeds City Parks Department and thence to the Glasgow Parks Department. Both those large departments gave him the experience necessary for advancement in the world of Municipal Parks Administration.

It was from Glasgow he obtained his first administrative post as Deputy Parks Superintendent at Harrogate under the late J. G. Besant (an Old Kewite) who quickly assessed the great potential of "T.E." giving him full responsibility for the construction of the rock and stream garden in the Valley Gardens, Harrogate. It still proclaims his skill after more than 40 years.

During his period here he showed the genius he had for befriending and advising any young men on the threshold of their career and encouraging and inspiring them to further advancement—one such young man was our President, Edwin Cherry, who I know will never forget the words of advice received from Tom Clark and cherished his friendship from those days until his death.

From Harrogate he was appointed Superintendent of Parks to the Borough of Bridlington. Here the Parks Department greatly improved and extended under his term of office and the excellent work on the well-known Sowerby Park, carried out prior to being opened to the public, combined with administration, to gain him a reputation in the field of Public Parks.

After many happy years at Bridlington he was appointed to the County Borough of Bolton Parks and Cemeteries Department. He again made considerable impact on the Parks profession by his improvement in the local amenities, and in 1958 the Corporation were honoured to be awarded the Civic Trust award for the landscape development on the new frontage to Queens Park, Bolton, carried out by his department. He also created "The Garden of

Rest" at the Overdale Crematorium some 20 years ago—a symbol of his great skill in planning detail.

His eye for perfection and detail can be well emphasised when during the 1939-45 war he staged a Gold Medal exhibit of vegetables at the R.H.S. Hall, during the "Dig for Victory" campaign.

With the formation of the "Association of Parks and Botanic Gardens" he became a member, and with his usual unbounded enthusiasm soon realised the possibilities of this association—now the "Institute of Parks and Recreation Administration—to encourage young men to further their knowledge of Parks Management so necessary with the improved status of the Parks Officer. With the very close co-operation of Mr. L. E. Morgan—then Hon. General Secretary of the Institute—they persuaded the Institute members to form the Training College, first at Lyme Hall and now at The Grotto. Tom Clark was elected the first chairman of the Education Committee—an honour he retained until his retirement.

As a token of appreciation of the excellent work he had carried out on behalf of the Institute he was elected their President for 1956-57. A fitting tribute to a man who had worked so untiringly to uphold the status of the Parks Administration.

Unfortunately, soon after his retirement in 1965 he slipped and broke his thigh, and although as usual he made light of his trouble, the handicap of a walking stick proved rather trying for a man of his unbounded energy.

He is survived by his wife, son and daughter to whom we extend our sincere condolences.

ROYAL BOTANIC GARDENS, KEW

SCIENTIFIC, TECHNICAL AND ADMINISTRATIVE STAFF

(31st December, 1975)

Director: Professor J. Heslop-Harrison, M.Sc., Ph.D., D.Sc., F.R.S., F.R.S.E.,
M.R.I.A., F.L.S., F.I.Biol.

Deputy Director: J. P. M. Brenan, M.A., B.Sc., F.L.S., F.I.Biol.

ADMINISTRATION

Secretary/Establishment Officer: R. W. King, D.F.C.

Higher Executive Officer: E. Timbs.

Clerical Assistant: Mrs. M. M. Harding.

Senior Personal Secretary: Miss M. P. Roberts.

Personal Secretary: Miss E. M. J. Garner.

Personnel Section

Executive Officer: W. L. W. Grimes.

Clerical Officer (Temporary): Mrs. F. L. Upton.

Clerical Assistants—Mrs. D. W. Gibson, R. J. Hitchcock.

Finance

Executive Officer: J. A. Vaughan.

Clerical Officers: Miss A. Parsons, Mrs. E. D. Draper (Temporary), Mrs. D.
McDougall.

Clerical Assistant: Miss J. Bennett (Casual).

Common Services and Public Relations

Executive Officer: Mrs. M. Norman (Temporary).

Accommodation and Stationery

Clerical Officer: Mrs. H. M. Hyde.

Clerical Assistant: Miss C. Duggan.

Office Keeper II: Mrs. K. L. Digweed.

Enquiry Unit

Clerical Officer: Mrs. V. O. M. Clark.

Registry

Clerical Officer: Miss E. H. Smith.

Clerical Assistants: Miss M. Roberts, Mrs. E. Lewis.

Telephone Operators: Mrs. C. Lansdell, Mrs. J. Truss.

Publications Kiosk: Mrs. K. J. Gibson, Mrs. H. Henry, Mrs. E. Slack.

HERBARIUM

Keeper (Deputy Chief Scientific Officer): J. P. M. Brenan, M.A., B.Sc., F.L.S.,
F.I.Biol.

Deputy Keeper (Senior Principal Scientific Officer): P. S. Green, B.Sc., F.L.S.,
F.I.Biol.

* The family sequence follows that of Bentham & Hooker, 'Genera Plantarum'
(1862-1883), with modifications.

*Section I (Ranunculaceae—Elaeocarpaceae)**

Principal Scientific Officer: R. D. Meikle, B.A., LL.B., F.L.S. (Assistant Keeper).

Higher Scientific Officers: Miss J. K. Bowden, B.Sc., F.L.S., C. Grey-Wilson,
B.Sc.,

Assistant Scientific Officers: Mrs. S. Dickerson, Mrs. L. Booth (Flora of Cyprus).

Section II (Linaceae—Leguminosae)

Principal Scientific Officers: L. L. Forman, B.Sc., F.L.S. (Assistant Keeper),
R. M. Polhill, B.A., Ph.D., F.L.S.

Senior Scientific Officer: M. J. S. Sands, B.Sc.

Scientific Officers: Mrs. D. Polhill (P/T), Mrs. J. S. Page.

Assistant Scientific Officer: B. Stannard.

Section III (Rosaceae—Rubiaceae)

Principal Scientific Officer: B. Verdcourt, B.Sc., Ph.D., F.L.S.
 Senior Scientific Officer: G. E. Wickens, B.Sc., M.Sc., Ph.D., F.L.S.
 Scientific Officer: Mrs. D. M. Bridson.
 Assistant Scientific Officers: G. P. Lewis, Miss M. Bywater.

Section IV (Valerianaceae—Salvadoraceae)

Principal Scientific Officer: C. Jeffrey, B.A.
 Senior Scientific Officer: Mrs. F. G. Davies, M.A., Ph.D., F.L.S.
 Scientific Officers: Miss P. Halliday, Miss V. Mann (Kew Bulletin).
 Assistant Scientific Officer: Miss C. M. Wilmot-Dear, B.Sc.

Section V (Apocynaceae—Selaginaceae)

Principal Scientific Officers: F. N. Hepper, B.Sc., M.I.Biol., F.L.S. (Assistant Keeper), R. K. Brummitt, B.Sc., Ph.D., F.L.S.
 Senior Scientific Officer: D. V. Field, B.Sc., M.Phil., F.L.S.
 Assistant Scientific Officer: Mrs. C. M. Barndon.

Section VI (Verbenaceae—Ceratophyllaceae)

Principal Scientific Officers: C. C. Townsend, R. M. Harley, M.A., D.Phil., F.L.S., A. Radcliffe-Smith, B.Sc.
 Senior Scientific Officers: D. Philcox, M.Sc., M.I.Biol., F.L.S., Mrs. S. Holmes, M.Sc. (P/T).
 Assistant Scientific Officers: Miss J. Panter, Miss S. Jellis.

Section VII (Orchidaceae)

Principal Scientific Officer: P. G. Taylor, F.L.S.
 Higher Scientific Officer: P. J. Cribb, B.Sc., Ph.D.
 Scientific Officer: J. L. Gilbert (Spirit and Seed Colls.)
 Assistant Scientific Officer: J. J. Wood.

Section VIII (Hydrocharitaceae—Rapateaceae)

Principal Scientific Officer: W. Marais, B.Sc., M.Sc.
 Senior Scientific Officer: B. Mathew, F.L.S.
 Assistant Scientific Officer: Mrs. E. J. Cowley.

Section IX (Flagellariaceae—Cyperaceae)

Senior Scientific Officer: Miss S. S. Hooper, B.Sc., F.L.S.
 Scientific Officer: S. J. Mayo, B.Sc.

Section X (Gramineae)

Principal Scientific Officer: W. D. Clayton, B.Sc., Ph.D., A.R.C.S., F.L.S. (Assistant Keeper).
 Higher Scientific Officer: S. A. Renvoize, B.Sc.
 Scientific Officer: T. A. Cope, B.Sc.
 Assistant Scientific Officer: Miss R. A. Cross.

Section XI (Pteridophyta)

Principal Scientific Officer: Miss F. M. Jarrett, M.A., Ph.D., F.L.S.
 Scientific Officer: J. W. Grimes, B.Sc.
 Assistant Scientific Officer: P. J. Edwards.

Section XII (Fungi)

Principal Scientific Officers: D. A. Reid, B.Sc., Ph.D. (Assistant Keeper), D. M. Dring, B.Sc., Ph.D., F.L.S. (Quarantine).
 Senior Scientific Officer: D. N. Pegler, M.Sc., Ph.D., F.L.S.
 Scientific Officer: B. M. Spooner, B.Sc.
 Assistant Scientific Officer: Miss S. J. Arthur.

Section XIII (Cultivated Plants and Gymnosperms)

Principal Scientific Officer: D. R. Hunt, M.A.
 Higher Scientific Officer: Miss V. A. Carder.
 Assistant Scientific Officer: Miss M. A. Wood (P/T, Gardens Accessions).
 Clerical Assistant: Mrs. E. Hall (P/T).

Section XIV (Palynology)

Principal Scientific Officer: I. K. Ferguson, B.A., Ph.D., F.L.S.
 Assistant Scientific Officer: Mrs. M. M. Poole.

General Services Unit

Scientific Officer: Miss I. Blewett.

Assistant Scientific Officers: Miss R. A. Davies (Herbarium Accessions), Miss G. S. Lee.

Clerical Assistants: Mrs. C. M. Frost, Mrs. J. B. Heath.

Flora Zambesiaca (at the British Museum (Natural History))

Principal Scientific Officer: E. Lauenert, Dr.Rer.Nat., F.L.S.

Assistant Scientific Officer: Mrs. P. A. Ives.

Index Kewensis

Higher Scientific Officer: Mrs. J. L. M. Pinner.

Scientific Officer: Miss T. A. Bence.

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 Scientific Officer: J. S. L. Keesing, B.Sc.
 Clerical Assistant: Miss L. Stimpson.

Kew

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Alpine and Herbaceous Section.

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Garden Supervisors: W. H. Bridle (Scientific Support Glasshouses), A. G. Cook.

Arboretum Section

Assistant Curator: G. E. Brown, N.D.H.

Garden Supervisors: R. J. Sadler, J. H. Mateer, P. G. S. Smallcombe.

Decorative and Developmental Section

Assistant Curator: D. W. H. Townsend, N.D.H.

Garden Supervisors: A. P. Harvey, R. Hughes, P. L. Gibbon (Technical Propagation Unit).

Temperate Section

Assistant Curator: C. M. Erskine.

Garden Supervisors: R. H. Rule (Temperate and Australian House), Mrs. R. Storr (Palm House and No. 15), S. Henchie (Arboretum and Temperate Propagation Unit).

Scientific Officer: Miss Y. J. Aspland, B.Sc. (Plant Records Unit).

Tropical Section

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Garden Supervisors: G. E. Nicholson (Succulents and General Tropical Propagation Unit), J. R. Woodhams (Fern Unit), G. Pattison (Orchid Unit and T. Range).

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Assistant Curator: H. J. Fliegner.

Garden Supervisor: R. W. Howard (Tree Maintenance Unit).

P. & G. Supervisor: J. Dixon (Transport).

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Garden Supervisors: F. G. Greenough, D. Mason, J. Lonsdale, N.D.H.

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Supervisor of Studies: L. A. Pemberton, N.D.H., Dip.Arb.

Garden Supervisor: A. J. Hale (Staff Training Unit).

Clerical Officer: Mrs. B. Lewis.

ADDRESS LIST OF OLD KEWITES (April 1976)

(The names of Past Presidents are preceded by a dagger, Life Members by an asterisk and Active Members by a hyphen. The year of leaving Kew is indicated. By agreement with the Department of Education and Science holders of the Kew Diploma may place Dip.Hort.(Kew) after their names: this is not indicated in the following list.)

ABBREVIATIONS: H.G., Head Gardener; F., Foreman; N., Nurseryman; M.G., Market Gardener; C., Curator; A.C., Assistant Curator; D., Director; A.D., Assistant Director; M., Manager; S., Superintendent; A.S., Assistant Superintendent; D.S., District Superintendent; H.L., Hort. Lecturer; A.O., Advisory Officer; B.G., Botanic Gardens; H.J., Horticultural Journalist.

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 1956 -Alphonso, A. G., D., Botanic Gardens, Singapore.
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- 1946 -Christopher, Mrs. F. (Allen, B.), Boro Farm, Tresco, Isles of Scilly, Cornwall.
- 1961 -Chuter, R., Dip.Arb., 42 Long Reech Road, Chesterton, Cambridge.
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- 1946 -Clark, J., D.I.P.A., S. Parks, Dover Parks Dept., Kent.
- 1948 *Clark, Mrs. J., N.D.H. (Miss Eperon), ditto.
- 1923 -Clark, T. E., P.P.Inst.P.R.A., "Harrowby," 37 New Church Road, Smithills, Bolton, Lancs.
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- 1949 -Coates, C. F., 9 The Bank, Catterick, Richmond, Yorkshire.
- 1933 *Cocker, H. R., A.H.R.H.S., Casella Postale 5, Noventa di Piave, Prov. di Venezia, Italy.
- 1959 -Coghlan, R., Trevena, Holders, St. James, Barbados, W. Indies.
- 1971 -Cole, G., Lower Lodge, Cockington Lane, Cockington, Torquay, Devon.
- 1960 -Cole, T. J., 2700 Priscilla Street, Ottawa, Ontario, Canada, K2B 7E2.
- 1960 Cole, Mrs. T. (Miss B. Briggs), ditto.
- 1967 -Coleman, D. P., The Croft, Ponmill, Kinrosshire.
- 1958 -Collett, M. J., 125 Mandeville Road, Enfield, Middlesex.
- 1959 *Collin, H., Craig House, Ham Common, Richmond, Surrey.
- 1939 *Collins, C. J., F.I.P.A., S., 42 Gainsborough Road, Colchester, Essex.
- 1955 -Collins, G. E., N.D.H., Sronduh, Poolewe, Achnarheen, Ross-shire.
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- 1955 -Comber, J. B., Djl. Hang Djebat 3, P.O. Box 301, Medan, Sumatra, Indonesia.
- 1935 -Commeau, J., 28 Avenue de Mendiguren, 06000, Nice, France.
- 1923 †*Conn, P. W. H., M.Sc., P.P.Inst.P.R.A., A.H.R.H.S., The Bridge, Surrey Road, Seaford, Sussex.
- 1949 *Constable, F., Parks, Cem. and Allotments Dept., The Council House, Corporation Street, Derby.
- 1921 *Cook, F. J., S., 16 Seventh Avenue, Walmer, Port Elizabeth, South Africa.
- 1962 -Cook, G. A., 209 Portland Street, Ashton-under-Lyne, Lancs.
- 1945 *Cook, G. G., M.B.E., "The Conifers," Wright's Hall, Woolston, Southampton, SO2 9HN.
- 1929 *Cook, L., 31 Cardigan Crescent, Milton, We-ton-super-Mare, Somerset.
- 1915 *Coombes, G., P.O. Box 1808, Thousand Oaks, California, 91360, U.S.A.
- 1944 Cooper, Miss B. (See Mrs. C. F. Jackson).
- !925 *Cooper, E. C. W., "Jescot," Shripney Road, Bognor Regis, West Sussex.
- 1935 *Corkhill, W. J., Waen Rodyn Nurseries, Bodfari, Denbigh, Denbighshire.
- 1935 Cossum, H. A., 1 Marble Hill House Drive, Evesham Rd., Pittville, Cheltenham.
- 1932 Cousin, G. J. D., Dept. of Agric., Lapsi Street, St. Julians, Malta.
- 1924 -Coventry, T., 210 Towcester Road, Northampton.
- 1923 *Coward, E. F., 77 Southwood Road, Rusthall, Tunbridge Wells, Kent.
- 1932 *Coward, E. J. H., Major, A.H.R.H.S., "The Spinney," Ballarnard Road, Douglas, I.O.M.
- 1945 Cowell, Miss M. C., B.Sc., N.D.H. (See Mrs. Smith).
- 1968 Cowley, R. C., 1 Holmesdale Road, Kew, Richmond, Surrey.
- 1949 Cox, H., 38 Allen Road, N.E. Atlanta, 5, Georgia, U.S.A.
- 1971 -Cox, J. P., 50 Forrest Road, Kew, Surrey.

- 1920 *Craig, Mrs. A. P., The Hall, Headcorn, Kent.
 1973 -Craig, J. R., 93 Rowley Avenue, Sidcup, Kent.
 1940 *Cramer, Johannes D. W., 395 Zephyr Street, Denver, 26, Colorado, U.S.A.
 1940 Cramer, Mrs. (B. N. Shepherd), ditto.
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 1946 Croyley, R., Plant Pathology Section, East Malling Research Stn., East Malling, Maidstone, Kent.
 1955 -Crowder, G., Supt., Walton Hall Gardens, Higher Walton, Nr. Warrington, Lancs.
 1968 -Cudd, M. R., 130 Beverley Way South, Raynes Park, London, S.W.20.
 1972 -Cumming, D., City Parks Authority, Dept. of A.C.T., Canberra, Australia.
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 1956 *Curtis, E. W., S.D.H., Curator's House, Botanic Gardens, Glasgow, W.2.
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 1954 Dalgeish, J., The Flat, Sudley, Mossley Hill Road, Liverpool, 18.
 1953 Dally, H. R., Guernsey Plants Ltd., Guernsey, C.I.
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 1935 *Dumke, G. P. W., Berlin B.G., Berlin-Dahlem, Germany.
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 1919 *Ellis, Miss C. F. (Mrs. Somers)
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 1912 *Endres, H. W., 10140 Fieldcrest Lane, Ladve, St. Louis, 24, Missouri, U.S.A.
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 1948 *Eperon, Miss K., N.D.H. (See Mrs. J. Clark).
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 1952 -Evans, K., N.D.H., Undergraduate School of Applied Biology, Univ. of Bradford, Great Horton Road, Bradford, 7.
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 1928 -Farmer, J. E., S., 17 Millstream Gardens, Wannock, Polegate, Sussex.
 1923 -Farr, B.,
 1953 -Farrar, T. H., 39 Fielden Close, Ducklington, Witney, Oxfordshire.
 1975 -Faure, J., Forêt Noire, Mahé, Seychelles.

- 1967 -Fay, M. E., "Twenty," Market Street, Llangollen, Denbighshire, North Wales.
 1963 -Fellows, K. M., 172 Ayres Road, Old Trafford, Manchester, 16.
 1970 Fenwick, E., 54 Haven Avenue, Grimsby, Lincs.
 1929 *Findlay, R. (Capt.), The Ship, Bryn-y-Baal, Mold, Flintshire.
 1939 -Fisher, F. W., 2 Hooper Avenue, Bath Road, Wells, Somerset, BA5 3NA.
 1965 Fisher, J. H., N.D.H., Braughton Road, Crosland Moor, Huddersfield.
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 1915 †*Flippance, F., F.L.S., The Heaths, Station Road, Haslemere, Surrey, GU27 2PD.
 1928 *Floto, E. V., Brovaenget 11, 2700 Bronshoj, Denmark.
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 1924 Flynn, G. O., Bede Home, College Grove Road, Wakefield, Yorks.
 1949 -Foat, C. D., Knutsford, Gt. Barton, Bury St. Edmunds, Suffolk.
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 1945 -Ford, F. J., S., 23 Louise Close, Great Yarmouth, Norfolk.
 1927 *Ford, G. W. J., Box 56, Mendenhall, Penna, 19357, U.S.A.
 1937 *Fordham, A. J., A.S., "Gay Farm," Norwood, Mass., U.S.A.
 1957 -Forster, R. R. C., 3464 West 39th Avenue, Vancouver, British Columbia, V6N 3A2, Canada.
 1936 *Fossum, M. Truman, Suite 420, 818-18th Street, N.W., Washington D.C., 20006, U.S.A.
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 1940 Foste, L. J., M.Sc., Agric. Dept., Kuching, Sarawak, Malaysia.
 1975 -Fountain, Miss S., "St. Mawes," Horn Hill, Chalfont St. Peter, Bucks.
 1975 -Fox, R., 87 St. Vincent's Close, Girton, Cambridge.
 1946 -Fraenkel, Miss E. R. (See Mrs. Gibson).
 1967 -Frankland, B. V., N.D.H., 6 Ballington Road, Oadby, Leicester.
 1926 Franklin, W., 13 Dawson Road, Stoke Green, Coventry, Warwick.
 1936 -Freeman, G. W. G., N.D.H., 2 Benton House Cottages, Heath House Road, Worplesdon Hill, Woking, Surrey.
 1926 *Fry, W. G., N.D.H., N.A.A.S., 70 Catisfield Road, Fareham, Hants.
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 1953 -Fuller, G. M., 25 Victoria Road, New Plymouth, New Zealand.
 1938 Fysh, P., 8 The Goffs, Eastbourne, Sussex.
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 1963 -Gaggini, J. B., N.D.H., L.I.Biol., N.D.Arbor., 8 Wellingborough Road, Mears Ashby, Northampton, NN6 0DZ.
 1932 Gale, E. W. B., N.D.H., S. of Parks, Poole, Dorset.
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 1907 Gammon, F. G., 30 Beechcroft Road, Oxford.
 1961 Gannev, G., N.D.H., Brickendonbury House, Hertford, Herts.
 1959 Gardner, G., 13 Cresswell Road, Twickenham.
 1912 Gardner, G. F., University Gardens, Bristol.
 1953 Garnett, J. B., 38 Princess Street, Woodlands, Doncaster, Yorks.
 1947 -Garwood, T., 188 Campkin Road, North Arbury, Cambs.
 1967 Gaskin, G. M., Landscape Architect, Wyre Forest Local Authority, Lancs.
 1949 Gates, F., 12 Rose Hill, St. Blazey, Par, Cornwall.
 1964 Gatrell, Mrs. L. (Miss Tickner), 3 Precinct Road, Hayes, Middlesex.
 1961 -Geddes, A., Mc., Dip. Hort., Landscape Consultant Co., Greys Avenue, Auckland 1, New Zealand.
 1969 -George, A. S., Aust.Herb., Dept. of Aust., Jarrah Road, South Perth, Western Australia, 6151.
 1953 -Gibbons, J. E., 56 Warrington Road, Leigh, Lancs., WN7 3EB.
 1961 -Gibbons, L., ditto.
 1946 -Gibson, Mrs. (Miss E. R. Fraenkel), 2421 25A Street, S.W. Calgary 4, Alberta, Canada.
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 1960 -Gilkison, D. S., c/o Parks Dept., Civic Centre, Scunthorpe, Lincs.
 1923 Gill, B., Gills Nurseries, Penryn, Cornwall.
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- 1952 -Gilmour, W. N. G., N.D.H., F.Inst.P.R.A.(Dip.), Chief Officer for Recreation, Culture and Health, South Yorks. County Council, Barnsley.
- 1935 -Glasheen, J. L., Abbots, Sulhamstead Abbots, Nr. Reading, Berks.
- 1950 Glazebrook, A. K., 106 Coldershaw Road, Ealing, W.13.
- 1937 *Goldsack, F. G. A., N.D.H., Greystones, Leigh, Sherborne, Dorset.
- 1931 Goldsmith, J. E., 12 Cranwick Hall, Lincoln.
- 1956 -Goodale, A. E. R., 4 Streatfield Road, Rocks Park, Uckfield, Sussex.
- 1965 -Goodall, Lt., J.P., R.N., 6 Compton Road, North End, Portsmouth, PO2 0SS, Hants.
- 1969 -Goodbury, P. A., 3 The Green, Roseheath, Nantwich, Cheshire.
- 1964 -Gooding, P. A., Old Mill Nurseries, Stamford-in-the-Vale, Farringdon, Oxon.
- 1969 Goodyear, S. A., Parks Dept., City Engineers and Surveyors Office, 7 Southernhay West, Exeter.
- 1932 Gordon, J. D., c/o Elder Park, Glasgow.
- 1975 -Gornall, B., 28 Vista Drive, Redbridge, Ilford, Essex.
- 1910 *Gould, A. R., 663 Kingsley, Palo Alto, California, 94303, U.S.A.
- 1967 -Graham, G. N., F., Inst.P.R.A.(Dip.), 31 Shawbury Avenue, Bebington, Wirral, Cheshire, L63 8LR.
- 1967 -Graham, G. N., F.Inst.P.R.A.(Dip.), "Sharondale," Bryntirion Road, Bagillt, Clwyd, CH6 6BZ.
- 1968 Graham, Mrs. G. N. (née Miss M. Jones).
- 1948 *Grant, E. A., The Lodge, Baylis Park, 45 Woodlands Avenue, Slough, Bucks.
- 1928 *Grant, J. G., 77 Tristram Drive, Creech St. Michael, Taunton, Somerset.
- 1948 Grant, J. M., A.H.R.H.S., Grayswood Hill, Haslemere, Surrey.
- 1897 Gray, P. J., Homeville, Ballymin Road, Glasnevin, Dublin.
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- 1925 *Greenway, Dr. P. J., O.B.E., F.L.S., P.O. Box 20209, Nairobi, Kenya, E. Africa.
- 1963 -Griffin, M. J., 1 Pinfold Close, Woodingdean, Brighton, Sussex.
- 1964 Griffin, Mrs. M. J. (Miss Dennis), ditto.
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- 1961 Gunn, W. A. G., Johannesburg Park Dept., P.O. Box 2824, Johannesburg, Transvaal, South Africa.
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- 1946 -Hack, H. R. B., Lane End Farm Cottage, Spherds Green, Rotherfield Greys, Henley-on-Thames, Oxfordshire, RG9 4QN.
- 1975 Hacker, J., 45 Abbotsham Road, Bideford, Devon.
- 1954 -Halhead, J., 2(A) Rosehill Park, West Sutton, Surrey.
- 1931 Halik, R., Charles University, Prague, Czechoslovakia.
- 1933 -Hall, H., 24 Villa Marina, Beach Road, Mouille Pt., Cape Town, South Africa.
- 1971 -Hallsworth, C. D., 257 Brentwood Road, Gidea Park, Romford, Essex.
- 19 -Hamblett, N., 17 Waverley Road, Enfield, Middlesex.
- 1952 Hamblin, I. C., Area Office, D.O. Env., Colchester, Essex.
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- 1945 Hammond, Mrs. M., Myrtle Cottage, Castle Street, Porchester, Hants.
- 1936 Hampton, Miss N. (See Mrs. Beale).
- 1916 *Hansen, C. Bekker, c/o Société du Nadal, Quelimane, Mozambique.
- 1954 Hardie, R. M., c/o Burnley Horticultural College, Swan Street, Burnley, Victoria, Australia.
- 1935 Hardman, R. E., c/o Municipal Parks, Bulawayo, Rhodesia.
- *933 -Harper, A. E., S., Westleigh, 10 Pembroke Gardens, Appleton Park, Warrington, Lancs.
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- 1919 *Harper, Miss K. M. (See Mrs. Bintner).
- 1964 -Harrington, M. D., Aldon, 55 Park Hill Road, Otford, Sevenoaks, Kent.
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- 1962 -Harrison, R. T., N.D.H., 53 Kingsdown Avenue, South Croydon, CR2 6QJ.
- 1962 Harrison, S. G., B.Sc., Keeper, Dept. of Botany, National Museum of Wales, Cardiff.

- 1965 Harris, D. S., Blackpill Nurseries, Swansea, Glam.
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 1973 -Hassan-King, Abdul R., 1 Orange Street, Fourah Bay, Freetown, Sierra Leone, W. Africa.
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 1925 *Hayes, T. R., M.Sc., A.I.T.C.A., c/o Limuru Girls' School, Private Bag, P.O. Limuru, Kenya.
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 1961 -Heine, H. H., Dr. Med., Dr. rer. nat., F.L.S., c/o Laboratoire de Phanérogamie du Museum National d'Histoire Naturelle, 16 rue Buffon, Paris (Ve), France.
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 1948 -Himson, A., Buckland, Tasmania 7271, Australia.
 1948 *Himson, Mrs. (Miss P. Weston), ditto.
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 1948 -Hingston, J. A., N.D.H., S., 139 Tadcaster Road, Dringhouses, York, YO2 2QJ.
 1949 Hingston, Mrs. (Miss J. Sharps), ditto.
 1960 -Hitchcock, A. G., C.H., Parks, Recreation & Beaches Dept., Durban, Natal, South Africa.
 1966 Hitchin, P. D. M., 6 West Side, Nunthorpe Village, Middlesbrough.
 1955 -Hitt, S. D., 74 Locksbrook Road, Bath, Somerset.
 1957 Hitt, Mrs. S. D. (Miss I. K. Bewley), ditto.
 1925 Hockley, W. A., 19 Beresford Road, Chingford, Essex, E.4.
 1975 -Hodge, V., 11 Abercain Road, Streatham, London, S.W.16.
 1946 Holcroft, Mrs. N. B. (Miss N. B. Rymer), 84 Woodward Avenue, Brampton, Ontario, Canada.
 1937 *Hogg, R. D., M.B.E., A.H.R.H.S., 30 Poole Close, Tilehurst, Reading, RG3 4LT.
 1946 -Hollis, D. C., 11 Gay Street, Putney, S.W.15.
 1930 *Holloway, H. M., P.O. Box 1454, Snr. Dist. S. of Parks, City Council, Pretoria, South Africa.
 1969 Holloway, M., 4 Nocton Drive, Ermine Estate, Lincoln.

- 1962 -Holmes, D. H., 7 Chase Hill, Geddington, Kettering, Northants.
 1973 -Holmes, R. G., 27 East Sheen Avenue, East Sheen, London, S.W.13.
 1973 -Holmes, R. G., 70 Kew Green, Kew, Richmond, Surrey.
 1974 Holt, P., St. Gilbert's Boys' School, Hatlebury, Worcs.
 1939 Holt, S., Britannia Nurseries, 34 Peddars Lane, Blackpool, Lancs.
 1934 *Hoogstad, B. M. E., Silvergeiter, 130 Hart Nibbrigkade, Den Haag, Holland.
 1934 *Hooper, E. G., 93 Mount Pleasant, Trevu Road, Camborne, Cornwall.
 1956 Hopkins, Miss A. D. S., N.D.H., 18 Park Road, Radlett, Herts.
 1926 *Hopkins, A. J., 1 Orchard Close, Bishop Sutton, Bristol, Somerset.
 1975 -Hopper, E., "Reddings," Beech Hill, Headley, Hants.
 1958 -Horsfall, H. R., 27 York Street, Edinburgh 1EH 3HP.
 1928 -Horton, D. E., N.A.A.S., 38 Tytton Lane West, Boston, Lincs.
 1973 -Hoskins, N., 103 Manor Road, Guildford, Surrey.
 1966 -Howard, B. F., 21 Highfields, Shrewsbury, Shropshire, SY2 5PQ.
 1973 -Howard, D., 73 Seymour Street, Chorley, Lancs.
 1925 *Howell, W., F.L.S., D.I.P.A., 8 Nursery Close, Polegate, Sussex.
 1965 †*Hubbard, C. E., C.B.E., D.Sc., F.L.S., 51 Ormond Crescent, Hampton, Middx.
 1953 -Hubbard, D., 34 Carbury Crescent, Darlington, Co. Durham.
 1945 Hudson, R. A., 30 Oakwood Avenue, Boreham Wood, Elstree, Herts.
 1951 Hudson, Miss V. (See Mrs. V. Hart).
 1952 -Huggett, P. C., N.D.H., Grove House, Chalford, Stroud, Gloucestershire.
 1948 Hughes, J. C., Cary Court Hotel, Cary Avenue, Babbacombe, Torquay, Devon.
 1961 -Humphrey, B. E., N.D.H.(Hons.), 143 Greenhill Road, Winchester, Hants.
 1961 Humphrey, Mrs. B. (Miss J. L. Taylor), ditto.
 1932 Hunt, H. J., 8 Salisbury Mansions, St. Ann's Road, Harringay, N.15.
 1971 -Hunt, P. F., 9 Parsonage Lane, Windsor, Berkshire SL4 5EW.
 1967 Hutcheson, M., Garden Cottage, Sizergh Castle, Nr. Kendall, LA8 8AE, Westmorland.
 1917 *Hutchings, Miss A., 25 St. Leonards Road, Deal, Kent.
 1974 -Hutchings, D. J., Trelawny, The Gernicks, Newlyn, Penzance, Cornwall.
 1964 -Hyde Trutch, Miss J. A. (See Mrs. Popham).
 1935 -Hyland, G. A., S., D.Inst.P.R.A., 38 Hove Park Road, Hove, Sussex, BN3 6LJ.
 1952 Iddenden, J., 1318 Beech Street, Picayune, Mississippi, U.S.A.
 1952 Ibbotson, D., 79 Capstone Road, Bournemouth, Hants.
 1969 -Iles, C., Kew Cottage, Camp Road, Wimbledon, London, S.W.19.
 1966 -Ince, R., 29 Cherrytree Crescent, Walton, Wakefield, W. Yorks.
 1905 *Ing, W. J., 5771-53rd Avenue, St. Petersburg, Florida, 33709, U.S.A.
 1948 Ison, J. H., Director of Parks, Buile Hill Park, Salford, Lancashire.
 1935 Ivey, A. W. J., 56 Erithway Road, Green Lane, Coventry.
 1974 Ivison, R., Landscape Office, London Borough of Enfield, Middlesex.
 Jackman, H. J., 24 Slindon Road, Broadwater, Worthing, Sussex.
 1944 -Jackson, Mrs. C. F. (Miss B. Cooper), 2 Essex Court, Temple, EC4Y 9AP.
 1940 Jackson, Mrs. Clifford M. (Taylor), Ashcroft, Ridgeway Close, Reigate, Surrey.
 1948 Jackson, F. A., c/o Parks Dept., Southern Area, Stoke-on-Trent.
 1915 Jackson, P. C. E., 13 Newstead Avenue, Burbage, Nr. Hinckley, Leics.
 1948 Jackson, R. M., 32 St. Hilda's Avenue, Ashford, Middlesex.
 1905 Jackson, T., Agric. S., Bot. Station, St. Vincent, B.W.I.
 1947 Jackson, T., 8 Cherry Crescent, Winsford, Cheshire.
 1957 Jakobsen, P. R., 19 Wallbury Avenue, Hove, Sussex, BN3 6H3.
 1936 James, E. B., 23 East Lodge, Brighton Road, Lancing, Sussex.
 1945 James, Mrs. G. (Wilford), Foxmount, Quedgley, Gloucestershire.
 1955 James, V. R., Royal Bot. Gardens, Hope, Kingston 6, Jamaica.
 1960 Jayman, T. N., Pole Hill Park Lodge, Gainsborough Road, Hayes, Middlesex.
 1961 Jayne, Fairman R., 52 Cumberland Circle, Asheville, N. Carolina, 28801, U.S.A.
 1937 Jefferiss, A., The University, Reading, Berks.
 1912 Jelinek, B., Institution "Svetla," Gross Meriritsh, Moravia, Czechoslovakia.
 1940 -Jenkin, J. P., Bridge Cottage, Blackpool, Dartmouth, Devon.
 1912 *Jennings, A. J., 120 Canoebrook Parkway, Summit, New Jersey, U.S.A.
 1942 -Jensen, Mrs. E. M., "Hillside," Dyreborg, 5600 Faaborg, Denmark.
 1955 Jew, P. J., Dir. of Res., N.D.H., N.D.H.(N.Z.), A.Inst.P.R.A., 28 Rewi Road, Epsom, Auckland, New Zealand.
 1962 Jewell, A. L., A.M.A., F.L.S., C., Haslemere Educational Museum, Haslemere, Surrey.

- 1912 Jirasek, H., Jardin des Plantes, Paris.
- 1960 Jobsen, J., 119 Middenstede, The Hague, Netherlands.
- 1949 -Johnson, G., West Lodge, Botanic Gardens, Glasgow G12 0UE.
- 1958 Johnson, R., 37 Park Street, Barrowford, Nr. Nelson, Lancs.
- 1949 -Johnson, R., c/o Capuchin Tea Plantation, Capuchin Mission, Mendi, South Highlands, Papua, New Guinea.
- 1960 Johnston, M. A., Pooh Corner, Shipston-on-Stow, Warwickshire.
- 1937 Jollie, F. J. E., 114 Mountain Road, Epsom, Auckland, New Zealand.
- 1955 Jones, A. S., "Falklands," Maidstone Road, Boro' Green, Kent.
- 1923 *Jones, C., 11 Meadow Way, Bilton, Harrogate, Yorkshire.
- 1930 *Jones, C. H., Box 803, Christchurch, New Zealand.
- 1968 -Jones, C. W., 328 Dorset Avenue, Great Baddow, Chelmsford, Essex, CM2 8HD.
- 1966 -Jones, J. E. M., 27 Mountbatten Avenue, Sandal, Wakefield, Yorks. WF2 6HD.
- 1956 Jones, J. H., Horticulturist, Dept. of Agric., Agric. Stn., Paget East, Bermuda.
- 1959 -Jones, K. R., 52 Metcalf Road, Ashford, Middlesex.
- 1968 -Jones, Miss M. (See Mrs. Graham).
- 1975 -Jones, R., Box 240, Port Lincoln 5606, S. Australia.
- 1956 -Jordan, J. W., 35 Pine Grove, Maidstone, Kent.
- 1922 *Joy, Mrs. A. E. C. (Warner), Cleeve Cottage, Brasted, Chart, Nr. Westerham, Kent.
- 1937 *Joy, C. A., 1 Doyne Road, Branksome, Parkstone, Poole, Dorset.
- 1946 -Joy, G. S., Emmetts Lodge, Ide Hill, Sevenoaks, Kent, TN14 6AY.
- 1940 Judge, Miss B. H., Min. of Fuel & Power, Room 619, Westminster, 7, Millbank, S.W.1.
- 1970 -Kachecheba, J., B.Sc., M.Phil., E.A.A.F.R.O., P.O. Box 30148, Nairobi, Kenya.
- 1965 Karani, W. J., Tea Research Institute of E. Africa, P.O. Box 91, Karicho, Kenya.
- 1967 -Keevil, A. R., 1 Station Cottages, Town Row, Rotherfield, Sussex TN6 3Q5.
- 1937 -Keith, R. H., 160 Centre St. West, Richmond Hill, Ontario, Canada.
- 1926 Kemp, H. W., H.G., Queen Anne's School, Cavesham, Oxford.
- 1935 -Kennelly, A. G., 80 Ravenswood Road, St. Clair, Dunedin, S.W.1, New Zealand.
- 1960 Kerr, J. M., N.D.Arb., 34 Hemper Lane, Sheffield, S8 7FD.
- 1959 -Kerr, R. T., N.D.H., "Barrington," 12 Broadoak Lane, Bexhill-on-Sea, Sussex.
- 1969 -Ketley, P. A., c/o Caneel Bay Plantation, Virgin Islands, St. Thomas, U.S. 0080.
- 1964 -Kilby, P., The Flat, Hobblingwell Wood Rec. Ground, Leasons Way, St. Pauls Cray, Kent.
- 1957 -Killick, Dr. D. J. E., Bot. Res. Inst., Private Bag x101, Pretoria, S.A.
- 1943 King, Miss E. B. (See Mrs. E. B. Brabin-Smith).
- 1966 Kingi, E. B., Municipal Council of Mombasa, P.O. Box 440, Mombasa, Kenya.
- 1913 Klaaborg, H. J., Gartneriet Langdallund, Kolding, Denmark.
- 1929 †*Knight, F. P., V.M.H., F.L.S., 88 Lower Guildford Road, Knaphill, Surrey.
- 1943 *Knight, Miss K. M., Boundary Nurseries, Hillingdon Heath, Middlesex.
- 1945 Knowlman, Miss B., Wayside, Wareham, Dorset.
- 1936 Koepf, K. (20A) Jeinsen N.R., 42 Unber Elze, Hanover Land, Germany.
- 1936 Koning, T. H., 57 Woltersweg, Hengelo (O), Holland.
- 1929 Korn, W. M., Inst. of Bot., Botanic Gardens, Leningrad, 22, U.S.S.R.
- 1946 *Kruger, H. J., S., Duffryn Gardens, Glamorgan, Wales.
- 1973 -Kuyama, A., 3-6-16 Kamikotoen, Nishinomiya, Hyogo, Japan.
- 1938 Lagoria, E., La Mortola, Ventimiglia, Italy.
- 1933 Lake, E., 36 Gledwood Crescent, Hayes, Middlesex.
- 1941 -Laking, L., B.S.A., LL.D., P.Ag., Royal Botanic Gardens, Box 399, Hamilton, Ontario, Canada.
- 1941 Laking, Mrs. B. M. (Tarver), 1064 Unsworth Avenue, Burlington, Ontario.
- 1936 Lancaster, A. P., S., Hort. Divn., P.W.D., New Delhi, India.
- 1919 Landau, Miss M., Prejazd, 36, Lodz, Poland.
- 1937 *Langham, H. G., N.D.H., F.L.S., Orchard Heights, Green Lane, Churt, Surrey.
- 1939 Lannie, L., S. of Reserves, Reserves Dept., Nelson Park, Napier, New Zealand.
- Launert, Dr. E., 15 Halford Road, Richmond, Surrey.
- 1969 Lawrence, J. B., 14 Napoleon Road, Twickenham, Middlesex.
- 1924 †*Lawrence, W. J. C., O.B.E., V.M.H., F.Inst.Biol., 5 Rabling Road, Swanage, Dorset.
- 1941 *Lawson, J., F.A.I.P.R., B.E.M., 38 Hoyle Street, Morwell, Victoria, Australia.
- 1963 Leaver, G. J., 110 Bellhouse Road, Eastwood, Leigh-on-Sea.
- 1969 -Lee, Miss J. (See Mrs. Tuck).

- 1922 *Lees, Mrs. S. T. (Burrell), Woodmans, Burwash, Sussex.
 1950 Lees, S., Registrar, Hollinwood Cemetery, Oldham, Lancs.
 1933 -Leigh, D. H., S., Parks and Reserves, Nelson, New Zealand.
 1967 -Leistner, O. A., Dr., Bot. Res. Inst., Private Bag x101, Pretoria, S.A.
 1937 *Leith, G. J., Flat 1, The Library, Rose Hill, Hampton, Middlesex.
 1971 -Leppard, M. J., 51 Ingles, Welwyn Garden City, Herts.
 1945 *Letch, Mrs. A. J. (Evans), The Old School, Bradwell, Nr. Braintree, Essex.
 1941 *Lewis, J., N.D.H.(N.Z.), 156 Guppy Road, Taradale, Napier, New Zealand.
 1957 *Lewis, J., B.Sc., F.L.S., 23 The Avenue, Kew Gardens, Richmond, Surrey.
 1964 -Lewis, W., 69 Somerford Road, Parkfield Estate, Broughton, Chester, CH4 0SY.
 1948 Liebich, Mrs. I. (Rzadkowska), 3465 Cole des Neiges, Apt. 41, Montreal, Canada.
 1948 -Lingard, H. M., H.G., Ashridge College, Berkhamsted, Herts.
 1962 Linnegar, S., 1 New Road, Ruscombe, Twyford, Berks.
 1948 -Lockley, R. E., 20 Heather Close, Thurston, Nr. Bury St. Edmunds, Suffolk.
 1952 -Littlewood, G., 177 Chesterfield Road, Matlock, Derbyshire.
 1930 Lorenzi, O., La Mortola, Ventimiglia, Italy.
 1940 *Lothian, T. R. N., O.B.E., N.D.H.(N.Z.), D., B.G., Adelaide, 5000-S. Australia, South Australia.
 1948 Lovatt, D. W., 74 Norway Drive, Slough, Bucks.
 1971 Lovett, A. R., 9 Dovehouse Street, Chelsea, S.W.3.
 1961 -Lowe, B. E., N.D.H., A.I.P.A., 61 Ongar Road, Writtle, Nr. Chelmsford, Essex.
 1961 -Low, J. J. D., 11 May Avenue, Napier, New Zealand.
 1964 Low, Mrs. S. K. (Miss S. K. Walton), ditto.
 1955 Lucas, J. A., Eford Experimental Stn., Lymington, Hants.
 1925 Luff, C. E. E., c/o Westonbirt Arboretum, Nr. Tetbury, Glos.
 1960 -Lycett, K. M., 65 Rochester Drive, Westcliff-on-Sea, Essex.
 1966 -Lycett, R. E., 86 Hall Street, Cambridge, New Zealand.
 1963 MacArthur, A. D., 18 Belvedere Street, Epsom, Auckland, New Zealand.
 1939 MacCartney, F. M., Route 1, Box 587, Turner, Oregon, 97392, U.S.A.
 1973 -Macdonald, E. W., 7 Mortlake Road, Kew, Richmond, Surrey.
 1951 -MacGuffog, D., S., 46 Cobbold Avenue, Eastbourne, Sussex.
 1938 *Mackaness, F. G., Rt 1 Box 225, Troutdale, Oregon 97060, U.S.A.
 1934 Mackenzie, J. G. C., 615 Tomoana Road, Hastings, New Zealand.
 1942 -Mackinnon, F. H., 74 Grantham Road, London, S.W.9.
 1925 *Mackintosh, J. J., S., Park Cottage, Delapre, Northampton.
 1948 McCartan, J., S., The Bungalow, Coronation Gardens, Rhyl, Flint.
 1936 -McCormack, P. F., A.H.R.H.S., D.I.P.A., The Bridge, Ibbotsons Lane, Sefton Park, Liverpool, 17.
 1957 -McCracken, J. S., 69 Somerville Way, Prebendal Farm Estate, Oxford Road, Aylesbury, Bucks.
 1944 *McCulloch, Mrs. E. (Thompson), 117 Edgworth David Avenue, Gwahroonda, N.S.W., Australia.
 1960 -McDowell, C. I., N.D.H.(N.Z.), 35 Fitzroy Road, New Plymouth, Taranaki, New Zealand.
 1970 -McGillivray, D. J., P.O. Box 107, Castle Hill, N.S.W., Australia 2154.
 1935 McKenzie, W. W., F.I.P.A., J.P., 12 Mitchell Street, Kilmarnock, Ayrshire.
 1952 McLachlan, D. D., "Kanturk," Brant Road, Lincoln.
 1952 McLachlan, P. A., 3501 Newark Street, N.W., Washington 16, D.C., U.S.A.
 1966 -McLaughlin, O. D., "Landmark," Jenningsland, Smith Parish, Bermuda.
 1911 McNab, J., 9 Coniscliffe Road, New Park Estate, Palmers Green, N.13.
 1924 *McPherson, J. A., N.D.H.(N.Z.), S. of Parks, Auckland, New Zealand.
 1919 *Madan, Miss H. P. (See Mrs. Wood).
 1963 -Maddox, J. A., 12 Barnard Gardens, Hayes, Middlesex.
 1971 Maguire, D. T., 2 Larpent Avenue, Putney, London, SW15 6UP.
 1910 †*Maitland, T. D., M.B.E., A.H.R.H.S., Flat 7, 20 Embankment Gardens, London, SW3 4LW.
 1955 Manger, G. L., 138 Strong Avenue, Graceville 4075, Queensland, Australia.
 1930 Mann, J. A., D., Newcastle Parks Dept., Newcastle.
 1969 -Mann, R. B.,
 1938 -Mansell, P. W., 55 Warren Road, Banstead, Surrey.
 1970 -Marchant, C. D., Ph.D., 3071 West 28th Avenue, Vancouver, 8, British Columbia, Canada.

- 1950 Marden, J. A., 250 Ladyshot, Harlow, Essex.
- 1964 -Marshall, R., 6 Waterloo Way, Bredon, Tewkesbury, Glos.
- 1958 Marshall, W., S., 47 Sandwich Road, St. Neots, Hunts.
- 1974 -Marsland, A. B., 4 Caledonian Mansions, Great West Road, (7 Otago St.), Glasgow, W.2.
- 1942 *Martin, Mrs. C. O., B.Sc., Hort., J.P. (Miss C. O. Bell), 55 Old Castle Road, Weymouth.
- 1919 *Mash, Miss J. (See Mrs. Flack).
- 1922 -Mason, R. E., 12 Swail House, Ashley Road, Epsom, Surrey.
- Mathewman, D., 24 Wrenthorpe Lane, Wrenthorpe, Wakefield, W. Yorks.
- 1962 -Matthews, T., F.L.S., F.Inst.P.R.A.(Dip.), M.Inst.B.C.A., J.P., Council Offices, Blaydon-on-Tyne, Co. Durham.
- 1954 -Maunder, P., N.D.H., F.Inst.P.A.(Dip.), Dip.Arb., 89 East Lodge Park, Farlington, Portsmouth.
- 1919 Maxted, Miss M., La Rochelle, Guernsey.
- 1935 May, J. E., Park Lodge, South Park, Ilford, Essex.
- 1930 Mayne, H. F., 68 Victoria Road, Hale, Cheshire.
- 1948 -Medcalf, J. G., N.D.H., D.I.P.A., Holly Lodge, 165 Hill Lane, Southampton, Hants.
- 1947 Meherne, C. D., "Omanu," Upper Clifton Terrace, Sumner, New Zealand.
- 1916 Meili, K., St. Karlsru., 34 Lucerne, Switzerland.
- 1950 -Melles, A. M., 8 Church Street, Madeley, Dawley, Shropshire.
- 1952 -Mellors, G., 13 St. George Street, Hanover Square, London, W.1.
- 1968 -Melville, R., B.Sc., Ph.D., F.L.S., 121 Mortlake Road, Kew, Richmond, Surrey.
- 1957 Messenger, G. W., 11 Mere Close, Great Barton, Bury St. Edmunds, Suffolk.
- 1969 -Metcalf, Dr. C. R., O.B.E., M.A., Ph.D., F.I.Biol., 35 Pensford Avenue, Kew, Richmond, Surrey.
- 1946 -Middleton, J., 20 Belton Gardens, Leigh-on-Sea, Essex.
- 1968 Mikaya, S., Parks Dept., P.O. Box 1861, Mombasa, Kenya.
- 1942 -Milburn, Miss P. M. K. (See Mrs. F. Brooks Purchas).
- 1916 Miles, Sergt. S. H., Hill House, Little London. Nr. Basingstoke, Hants.
- 1957 Millard, R., Aylesbury College for Further Education, Hampden Hall, Stoke Mandeville, Bucks.
- 1971 Miller, B. C. B.
- 1968 Miller, D. H., 81B Blatchington Road, Hove 3, Sussex.
- 1945 Miller, Miss E. M., Periton Farm House, Muirhead, Som.
- 1958 Mills, L. C. R., 50 Alexandra Road, London, N.W.8.
- 1971 -†Milne-Redhead, E. W. B. H., I.S.O., T.D., M.A., F.L.S., "Parkers," 43 Bear Street, Nayland, Colchester, Essex, CO6 4HX.
- 1950 Milton, G., Parks Dept., Clacton-on-Sea, Essex.
- 1966 Mitchell, J., Box 314 P.O., Pennant Hills, Sydney, N.S.W., Australia.
- 1947 -Mitchelmore, C. J., N.D.H., Flintshire College of Horticulture, Northrop, Nr. Mold, CH7 6AA, Flintshire.
- 1956 -Moore, D. J., F.I.P.R.A.(Dip.), P.O. Box 108, Hamilton, Bermuda.
- 1930 Moore, R. E., Municipal B.G., Cape Town, South Africa.
- 1973 -Morgan, G., Vine Cottage, Newtown, Kingbury Episcopi, Martock, Somerset, TA12 6BQ.
- 1958 -Morgan, Miss B. M., Beech Lane, Goytre, Pontypool, Monmouthshire.
- 1946 -Morrisey, Miss S., B.Sc., Ph.D., D.C.C., 7 Ashburnham Road, Chelsea, S.W.10.
- 1946 -Moss-Holland, Miss E. (See Mrs. E. M. Wakefield).
- Calkins, Mrs. H., Acquisitions Library, Morton Arboretum, Lisle, Illinois, U.S.A.
- 1935 Mottier, P., Avenue Leopold-Robert 83, La-Chaux-de-Fonds, Switzerland.
- 1975 -Mowforth, B., "New House," Rodbaston, Penkridge, Stafford.
- 1973 Mugford, A. J., 14 Richmond Drive, Rayleigh, Essex.
- 1956 Müller, T. C., Univ. of Salisbury, Salisbury, Rhodesia.
- 1934 -Mullins, A. T., Gardener's Cottage, Pembroke Lodge, Richmond Park, Richmond, Surrey TW10 5HX.
- Murden, J. A., 38 Cardigan Drive, Bury, Lancs.
- 1954 Murden, R., Miniver Crescent, Aspley E.S., Nottingham.
- 1904 Murphy, J., H.G., Huntingdon Castle, Clonegal, Co. Wexford, Eire.
- 1966 Mwangi, J., City Parks Dept., P.O. Box 30075, Nairobi, Kenya.
- 1967 -Nash, B. A., N.D.H., The Stable Flats, Petersfield Road, Havant, Portsmouth, Hants.

- 1902 *Navel, H. D., Jardin Botanique, Metz, France.
 1951 -Naylor, G. T., Whitehouse, Hydraseeders Ltd., Coxbench, Derby, DE2 5BH.
 1967 -Nau, Miss J. (See Mrs. Scarr).
 1957 -Neighbour, E. C., 3 Birchside Avenue, Glossop, Derbyshire.
 1928 *Nelmes, W., M.B.E., V.M.H., A.H.R.H.S., F.I.P.R.A., Willowfield, Upper Common, Aylburton, Lydney, Glos.
 1945 Nelson, J. S., The Lodge, Acton Park, The Vale, Acton, Middlesex.
 1946 *Nelson, Mrs. J. (Helmsing), ditto.
 1950 Newhams, D., c/o Parks Dept., Neath, Glam.
 1924 *Newman, C. A. S., Clovelly Cottage, Lampton Road, Hounslow, Middlesex.
 1950 Newton, Miss D. M. (See Mrs. Pringle).
 1958 -Nicholson, Mrs. R. A. (Floyer), P.O. Box 259, Mbeya, Tanzania.
 1925 *Nisbett, E. I., Dazell Village Way, Little Chalfont, Amersham, Bucks.
 1946 *Norris, J. L., 19 Montrose Avenue, Whitton, Twickenham, Middlesex.
 1948 -North, F. G., 139 Mildmay Road, Stevenage, Herts.
 1969 -Norton, M. R., 327A Green Lane, Finsbury Park, N4 1BZ.
 1968 Nunov-Mensah, Mrs. Madia (Miss L. Annawetty), Parks and Gardens Dept., P.O. Box M169, Accra, Ghana.
 1953 -Nutt, P. A., 125 Cedarcroft Road, Kennett Square, Pennsylvania 19348, U.S.A.
 1960 Obi, J. A., Plant Introduction Service, Federal Agr. Research, P.M.B. 5042, Ibadan, Nigeria.
 1921 O'Brien, Mrs. C. P. (Rolfe), 113, 10th Avenue, N.W. Calgary, B.C., Canada.
 1966 O'Connor, J., Westmount, Shrubbery Gardens, Wem, Shropshire.
 1952 Offord, K. A., Cornerways, 5 Larchwood Close, Hadley Road, Ipswich.
 1969 -Oliver, E. G. H., Private Bag X101, Pretoria 0001, South Africa.
 1927 Orchard, O. B., "Orwinton," New Road, Broxbourne, Herts.
 1952 O'Reilly, M., 2 Dalton Avenue, Bewsey, Warrington.
 1928 -Ovenden, S. F., 12 Watchester Lane, Minster, Ramsgate, Kent CT12 4DA.
 1958 Overeynder, H., Yew Tree Cottage, Oxford Road, Donnington, Newbury, Berks.
 1965 -Overland, F. A., The Lodge, Brentlodge Park, Church Road, London, W7 3BP.
 1970 Owen, D. R., P.O. Box 331, Lilongwe, Malawi.
 1929 Page, G. W., Wrights Nurseries, Pangbourne, Berks.
 1938 Page, P. W., c/o Parks Dept., Box 2824, Johannesburg, South Africa.
 1970 Painter, D. M., 26 Warwick Road, Twickenham, Middlesex.
 1949 Palmer, W., 25 Wear Bay Crescent, Folkestone, Kent.
 1952 -Parker, F., 4120 Peachtree Road, Apartment 8D, Atlanta N.E., Georgia, 30314, U.S.A.
 1952 -Parker, H., Cwmdonkin Park House, 70 Penlan Crescent, Uplands, Swansea, Glam.
 1959 -Parkin, Miss M. E., Greenhouse Supervisor, Wascana Centre Authority, Regina, Saskatchewan, Canada.
 1971 -Parkinson, W., The Lodge, Crematorium, Benhall Mill Road, Tunbridge Wells, Kent, TN2 5JH.
 1947 Parmentier, W. H., 7 New Street, St. Annes, Alderney, C.I.
 1949 *Parsons, C. R., The Holding, Shrimpney, Nr. Bognor Regis, Sussex.
 1958 -Paterson, A. P., N.D.H., M.Ed., Chelsea Physic Garden, 66 Royal Hospital Road, London, S.W.3.
 1973 -Paterson, R. A., N.D.H., The Cottage, Currabinny, Carrigaline, Co. Cork, Ireland.
 -Pattison, G., High Street, Teddington, Middlesex, TW11 8EN.
 1926 Patton, H. S., S. Parks, Lloyd Park, Forest Road, Walthamstow, E.17.
 1964 -Pead, C. B., 41 Osborne Avenue, Staines, Middlesex.
 1960 Pearce, D. G., T.A., Smethwick Park, Cemeteries and Allotments Dept., Greater London.
 1933 *Pearce, W., Pound Farm, Brockmanton, Nr. Leominster, Herefordshire.
 1975 -Pearson, K., The Rectory, Hemington, Peterborough.
 1959 -Pedley, A., D.I.P.A., 10 Parklands Avenue, Leamington Spa, Warwickshire.
 1967 -Penberthy, B., 15 Atlantic Terrace, Camborne, Cornwall.
 1974 -Penham, D. R., Prospect Estates Ltd., Tortola, British Virgin Islands, W.I.
 1950 -Perkins, B. L., F.L.S., P.O. Box 84807, Mombasa, Kenya.
 1925 -Perkins, H. A. T., 16 Acheson Road, Hall Green, Birmingham, 28.
 1940 *Pettigrew, Capt. A. H., S., Guarlford Court, Nr. Malvern, Worcs.
 1974 -Philibert, L., 36 Palace Green, Addington, London, CR0 9AG.
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- 1946 *Vile, K. M., 37 Station Road, Great Bowden, Market Harborough, Leics.
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- 1934 -Walby, A. P. S., Cutteslowe Park, Summertown, Oxford.
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- 1944 -Waller, Mrs. H. (Shallcross), Burnt House Farm, Chartham, Nr. Canterbury, Kent.
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- 1964 Walters, Miss S. K. (See Mrs. Low).
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- 1922 *Warner, Miss Audrey (See Mrs. Joy).
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 1972 White, S. J., 222 Astwood Road, Rainbow Hill, Worcester.
 1972 -Whitehead, M. J., Merrist Wood Agric. Coll., Worplesdon, Guildford, Surrey.
 1962 -Whitehill, J. A. E., 40 Maxwell Terrace, Glengowrie, South Australia, 5044.
 1966 -Whiting, Miss M. M., Manorom House, 15 Multravers Drive, Littlehampton, Sussex.
 1969 -Wickham, R., "St. Anthony's," Glen O'Downs Nursery, Kilmacanogue, Bray, Co. Wicklow.
 1932 Wilding, J. E., 11 Fern Street, Farnworth, Lancashire.
 1940 Wildy, R. H., N.D.H., 21 Blythe Road, Maidstone, Kent.
 1946 Wilford, Miss J. (See Mrs. G. James).
 1955 -Wilkinson, I., Firestone Plantations Coy., Harbel, Liberia, West Africa.
 1971 -Wilkinson, M., 53 Rosslyn Avenue, Barnes, London, S.W.13.
 1947 Will, A. G. K., Agri. Officer. Entebbe H.Q., Nairobi, Kenya.
 1946 Willitt, E. J. S., 9 Linkway, Cleyhall Drive, Spalding, Lincolnshire.
 1959 Williams, A. L., Teachers' Training College, Newton St. Lowe, Bath.
 1946 Williams, Mrs. H. (Bird), Mount Pleasant, Eastbury, Newbury, Berkshire.
 1937 -Williams, R. F., Westmead, Kingsland, Nr. Leominster, Herefordshire.
 1974 -Williamson, P. J., N.D.H., 61b Highfield Road, Kettering, Northants.
 1938 -Willis, H. H., S., The Cottage, Woodberry Hill, Woodberry, Stanton St. John, Oxford.
 1947 -Wilmott, C. J., Dene Lodge, Saltwell Park, Gateshead 8, Co. Durham.
 1936 Wilson, A. S., Govt. House Gardens, Bengal, India.
 1974 Wilson, D. V., Atomic Weapons Research Establishment, Aldermaston.
 1966 -Wilson, P. E., 140 Oswald, Courtwood Lane, Croydon, CRO 9HE.
 1972 -Wilton, S. A., 1B Priory Road, Kew, Richmond, Surrey.
 1925 *Wiltshire, T. W., 48 Nant Fawr Road, Cyncoed, Cardiff, Wales.
 1942 Wincott, Mrs. (Miss M. H. Lancaster), Ugborough House, Ugborough, Ivybridge, South Devon.
 1964 -Winter, J., c/o Nat. Bot. Gdns., Kirstenbosch, Newlands, C.P., South Africa.
 1975 -Wiseman, R., 80 Nelson Road, Chingford, London, E4 9AR.
 1939 Wittwer, E. S., Supt., The Kings Park, Perth, 6005, Western Australia.
 1938 Wolf, Lucien de, Marché au Fromage, 39 Wommel, Belgium.
 1919 *Wood, Mrs. H. P. (Madan), Ladywell House, Vowchurch, Hereford.
 1960 -Wood, A. T., Little Conifers, 423 Canterbury Road, Kennington, Ashford, Kent.
 1967 Wood, C. P., 38 Chichester Road, Newton Hall, Durham.
 1970 -Wood, G. P., N.D.H., 49 Egerton Rd., Davenport, Stockport, Cheshire, SK3 8TQ.
 1950 *Wood, P. L. D., N.D.H., c/o Box 189, Salisbury, Rhodesia.
 1947 -Woodward, A., N.D.H., F.Inst.P.R.A.(Dip.), 275 Tudor Drive, Kingston-on-Thames, Surrey.
 1923 Woodhouse, P. J. C., Queen's Park, Glasgow, S.2.
 1963 -Woolliams, K. R., Waimea Arboretum, 59-864 Kamehameha Highway, Haleiwa, Hawaii, 96712.
 1967 -Wooton, Mrs. H., 6 Arlington Close, East Twickenham, Middlesex.
 1954 Worraker, E. H. W., Tides Reach, Five Oak Green, Tonbridge, Kent.
 1937 -Wray, E. C., 33 Alexandra Road, Watford, Herts.

- 1948 -Wray, E. V., F.L.S., Selwood, 14 Church Lane, Humberstone, Nr. Grimsby, Lincolnshire.
- 1946 *Wren, Mrs. L. M., N.D.H. (Wells), 4 Newark Lane, Ripley, Surrey.
- 1956 Wyatt, P. C., 8 College Road, Histon, Cambs.
- 1939 *Wyndham, G. T. F., Perceval Lodge, Mattock Lane, Ealing, London, W.5.
- Yarde, Miss E., West Farm, Coombe Keynes, Wareham, Dorset.
- 1926 *Yashiroda, K., Tonosho-kyoku, Kagawa-ken, Japan.
- 1961 -Yates, G. J. E., N.D.H., Ashfield Lodge Farm, Bailes Lane, Normandy, Guildford, Surrey.
- 1968 Yong-Fann-Chin, The Istana, Singapore, Malaysia.
- 1948 -Young, P., The Lodge, Cheam Park, Cheam, Surrey.
- 1971 Young, P. C. B., Flamingo Beech Club, Apartado 13, Santa Cruz, Guanacaste, Costa Rica, C.A.
- 1933 *Younger, R. W., A.H.R.H.S., Supt., Supt. House, Univ. B.G., Cambridge.
- 1915 *Yuill, E., 35 Askham Lane, Acomb, York.
- 1939 *Ziedenburg, D. C., G.B.G., "Mikveh Israel," Poste-Holon, Israel.
- 1932 Zammitt, S. J., S. Govt. Farms & Agric. Organiser, Dept. of Agric., Government Farm, Ghammieri, Malta.
- 1931 *Zwicky-Waber, K., Sonneblume, Hunibach, Nr. Thun, Switzerland.

We are anxious for the above list to be accurate. Please do not fail to advise the editor of any corrections, changes, or if we have missed qualifications or decorations.

LIST OF OLD KEWITES WHOSE ADDRESSES ARE UNKNOWN

- | | | | |
|------|---|------|---|
| 1912 | Illman, G. E. | 1960 | Johnston, M. A. |
| 1954 | Ashley, R. F. | 1947 | James, K. H. |
| 1965 | Barber, A. V. H. | 1949 | Lavender, F. R. |
| 1956 | Baylis, C. L. | 1931 | *Lee, L. A. |
| 1953 | Bentham, H. | 1965 | Manger, G. L. |
| 1958 | Bingham, C. A. | 1934 | Martin, L. P. |
| 1959 | Bird, S. F. | 1959 | Mason, J. D. |
| 1945 | Blowers, J. W., A.H.R.H.S. | 1954 | Massey, A. |
| 1956 | Boulton, J. B. | 1949 | May, C. J. |
| 1951 | Brooks, V. | 1969 | McKarry, B. G. |
| 1943 | Brown, J. | 1942 | Melville Towers, Mrs. Lismore
(Miss E. Plummer). |
| 1951 | Brown, J. | | |
| 1913 | *Candler, S. R. | 1971 | Miller, B. C. B. |
| 1949 | Child, R. F. | 1963 | Mitchell, A. J. |
| 1945 | *Clarke, P. | 1933 | Mould, A. |
| 1936 | Cross, G. H. | 1969 | Norwood, D. A. |
| 1959 | Crossman, J. H. | 1940 | Prior, M. C. |
| 1965 | Duncan, C. M., N.D.H. | 1934 | Robinson, H. P. |
| 1959 | Dunnenberger, W. | 1965 | Robinson, K. |
| 1927 | *Elson, A. S. | 1967 | Saxon, E. |
| 1945 | *Everett, W. E. | 1969 | Shorey, M. J. |
| 1945 | *Farmer, Mrs. W. O.
(Miss J. M. Thompson). | 1937 | Simmonds, F. L. |
| | | 1953 | Smith, I. L. |
| 1942 | Flew, Miss M. G. | 1934 | *Stanley, M. |
| 1936 | *Fossum, M. Truman | 1948 | Stevenson, Mrs. E. |
| 1967 | Gaskin, G. M. | 1967 | Tennant, J. R. |
| 1934 | *Ginkel, C. van | 1913 | *Tindall, H. B. A. |
| 1967 | Goddard, H. N. | 1938 | van Ryneveld, C. C. |
| 1966 | Gordon, C. E. B. | 1967 | Vivian, A. |
| 1955 | Hamblett, N. | 1948 | *Ward, O. J. |
| 1972 | Harris, J. | 1958 | Wheatley, G. G. |
| 1971 | Haywood, L. | | Wickens, E. G. |
| 1956 | Hind, H. | 1959 | Willis, J. H. |
| | Anderson, J. W. | 1959 | Willoughby, B. J. |
| 1965 | Akance, L. A. | | |

RULES OF THE KEW GUILD

Name of the Society.

- (1) The name of the Society shall be "The Kew Guild".

Objects.

- (2) The objects of the Guild shall be—
- (a) the advancement of knowledge of horticulture generally and in particular in connection with the work of the Royal Botanic Gardens, Kew, and among members of the Guild.
 - (b) the encouragement of horticultural education at the Royal Botanic Gardens, Kew, by the provision of prizes and grants for Student Gardeners and the administration of the educational funds of the Guild.
 - (c) the provision of facilities for leisure time education and recreation in the interests of the social welfare of Student Gardeners and others having need of such facilities who are within the provisions of Section 1 of the Recreational Charities Act, 1958.
 - (d) the administration of the charitable funds of the Guild and the assistance from such funds of members of the Guild who are in need.
 - (e) the publication of a Journal in furtherance of the objects of the Guild or any of them.
 - (f) generally to do all such acts as shall further the active and corporate life of the Guild and may be lawfully done by a body established only for the purposes recognised by the law of England as charitable.

Membership.

- (3) (a) Membership of the Guild shall be open to past and present Curators, Assistant Curators, Garden Supervisors, Student Gardeners, Scientific, professional and executive members of the staff of the Royal Botanic Gardens, Kew, and Wakehurst Place; also Voluntary Students and Research and Liaison Scientists, provided they have worked continuously at Kew or Wakehurst Place for at least twelve months. The term "Kewites" where used herein or by the Guild in other publications shall mean a paid-up member of the Guild.
- (b) In addition, the Committee may admit to membership of the Guild any member of the Kew staff outside the categories set out in (3) (a) who is deemed worthy of membership of the Guild.
- (c) Honorary Membership may be awarded at the discretion of the Committee to a former officer (Hon. Editor, Secretary or Treasurer) who has rendered outstanding service.
- (4) Members of the Guild shall have the right to vote at meetings and to compete in competitions, and shall be eligible for election as officers of the Guild or to serve on the Committee.
- (5) Any member wishing to resign shall give notice to the Honorary Secretary or the Honorary Treasurer before the first day of December in the year of his or her intention to resign.
- (6) (a) The Committee may by resolution communicated to the member in writing and stating concisely the grounds for which it proposes to act call upon any individual to resign from the Guild and if the member does not so resign within forty-eight days after being so called upon the Committee may by resolution terminate his membership.
- (b) before coming to any decision the Committee shall give the member affected proper facilities for stating his case to them either orally or in writing as the Committee may determine.

Annual Subscriptions.

- (7) The Annual Subscription which shall be payable on January 1st of each year shall be such a sum as the Annual General Meeting shall from time to time determine and shall entitle members to all publications of the Guild. A member whose subscription is one year in arrears shall not receive further publications until his arrears be fully paid. The annual subscription is at present £1. (Student Gardeners 50p.)
- (8) Any member whose subscriptions are fully paid may on the payment of a lump sum predetermined by the Annual General Meeting become a Life Member and be entitled to all the privileges of the Guild without further payment. A sum representing not less than one-half of each life subscription shall be invested in the name of the Trustees and the liabilities to Life Subscribers shall be clearly shown in the annual Statement of Accounts. The provisions of this Rule may be suspended by resolution of an Annual General Meeting for such period as the Annual General Meeting shall think fit. (This rule is at present suspended.)

Management of the Guild.

- (9) (a) The business of the Guild shall be conducted by a Committee composed of the officers and ordinary Committee members. The officers shall consist of the President, two Vice-Presidents, the immediate Past-President, the President-Elect, Honorary Secretary, Honorary Assistant Secretary, Honorary Treasurer, and Honorary Editor. The ordinary Committee members shall consist of four present Kewites, twelve Old Kewites and two Student Gardeners.
- (b) Nine members of the Committee shall form a quorum. The Committee shall meet from time to time as may be necessary. Nine members of the Committee may by signed written notice to the Honorary Secretary request him to call a meeting of the Committee and if such meeting be not called within thirty days of the despatch of such notice the said nine members may themselves call a meeting of the Committee by twenty-one days' notice in writing sent to all members thereof.
- (c) The Committee may regulate its own proceedings by standing order or otherwise as it may think fit. No act or proceedings of the Committee shall be invalidated by any vacancy on the Committee or any sub-committee thereof on the grounds that a member of the Committee or of a sub-committee thereof was not qualified at or had become disqualified after the date of his appointment. The Chairman of the Committee shall at Committee meetings have no second or casting vote in the case of an equality of votes.
- (d) At least seven days' written notice of a meeting of the Committee shall so far as practicable be given to every officer and other members of the Committee.
- (e) A Chairman of the Committee shall be elected by the Committee to take the Chair in the absence of the President, the immediate Past-President, the President-Elect and Vice-Presidents.
- (f) There shall be two Honorary Auditors chosen from among members of the Guild who are not members of the Committee.

Election of Officers, Committee, and Auditors.

- (10) (a) The President, the President-Elect, Honorary Secretary, Honorary Assistant Secretary, Honorary Treasurer, and Honorary Editor shall be elected annually at the Annual General Meeting. One Vice-President shall be elected annually at the Annual General Meeting and shall hold office for two years. Any vacancy among the officers shall be filled as soon as possible by co-option by the Committee, and any person so co-opted shall hold office until the conclusion of the following Annual General Meeting.

- (b) Four ordinary Committee Members (three of whom shall be Old Kewites) shall be elected each year and shall hold office for four years. They shall not be eligible for re-election for at least twelve months after the end of their term of office. Any casual vacancy on the Committee shall be filled at the next Annual General Meeting, the member elected completing the term of office of the member whom he has replaced. The Student Gardener representatives shall be elected annually by the Student Gardeners.
- (c) One Honorary Auditor shall be elected each year and shall hold office for two years.
- (d) Candidates for election as officers or ordinary Committee members or Auditors may be proposed by any member of the Guild provided that the names of candidates be sent in writing to the Honorary Secretary at least twenty-eight clear days' before the Annual General Meeting.

Meetings.

- (11) The Annual General Meeting shall be held at Kew on either the second or third Saturday in September. At the Annual General Meeting the Report of the Committee and a Statement of the Accounts shall be submitted and election of officers and Committee members and Auditors shall take place. Fourteen clear days before the Annual General Meeting the Honorary Secretary shall circulate to all members with an address in the United Kingdom a financial statement together with the agenda of the meeting which shall include a list of candidates for election as officers or ordinary Committee members or Auditors together with their proposers.
- (12) A Special General Meeting of the Guild may be called at any time by the Committee and shall be so called within fifty-six days of receipt by the Honorary Secretary of a requisition in writing signed by not less than thirty-five members stating the purpose for which such a meeting is desired and setting out any resolution which it is desired to propose thereat. Notice of the meeting with an agenda thereof shall be sent to all members with an address in the United Kingdom at least forty-two days before the date appointed for the meeting. Amendments to any resolutions set out in the agenda shall be sent to the Honorary Secretary at least twenty-eight clear days before the date of the meeting and shall be sent by him to all members with an address in the United Kingdom at least seven clear days before the date of the meeting. No business shall be transacted at such meeting other than that specified in the notice and no amendment of any substance to any resolution proposed at the meeting shall be allowed. The Chairman of the meeting shall be nominated by the Committee.
- (13) The accidental omission to give notice of a meeting to or the non-receipt of notice of a meeting by any member shall not invalidate any proceedings or resolutions at any meeting of the Guild or any Committee thereot.
- (14) At a General Meeting each individual member whose subscription is fully paid up to the date of the meeting shall have one vote and no more except the Chairman who shall have a second or casting vote in the case of an equality of votes.

Alterations to the Rules.

- (15) These rules may be altered by a two-thirds majority of those present and voting at an Annual or Special General Meeting. Any proposals for the alteration of Rules shall be sent to the Honorary Secretary in writing at least twenty-eight clear days before the date of the Annual or Special General Meeting and shall be sent by him to all members with an address in the United Kingdom at least seven clear days before the date of the Annual or Special General Meeting.